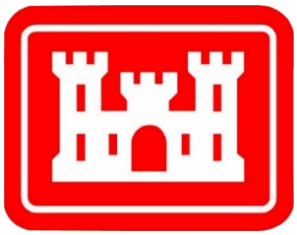
Final
Second Semi-Annual 2024 Groundwater and Soil Vapor Monitoring Report

FORMER TITAN 1-A MISSILE FACILITY,

LINCOLN, CALIFORNIA

FORMERLY USED DEFENSE SITE (FUDS) HAZARDOUS, TOXIC AND RADIOACTIVE WASTE (HTRW) PROJECT No. J09CA1108-01



Prepared for:
U.S. Army Corps of Engineers,
Sacramento District

Prepared under:
Contract No. W91238-21-D-0008
Task Order W9123823F0044

May 2025

Parsons Federal Solutions, Inc.
999 18th St., Suite N1555
Denver, CO 80202

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Acronyms and Abbreviations

%	percent
±	plus, or minus
2024S2	Second Semi-Annual 2024 Groundwater and Soil Vapor Monitoring Report
amsl	above mean sea level
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COPC	contaminants of potential concern
DCB	1,4-dichlorobenzene
DCE	dichloroethene (cis-1,2-dichloroethene)
DO	dissolved oxygen
DoD	Department of Defense
EC	electrical conductivity
ELAP	Environmental Laboratory Accreditation Program
EW	Extraction Well
ft	foot/feet
FUDS	Formerly Used Defense Sites
HTRW	hazardous, toxic and radioactive waste
IDW	Investigation-Derived Waste
µg/L	micrograms per liter
LEL	lower explosive limit
LOD	limit of detection
µg/m^3	micrograms per cubic meter
mg/L	milligrams per liter
mv	millivolt(s)
MW	monitoring well
ND	non-detect
NTU	nephelometric turbidity unit
ORP	oxidation-reduction potential
Parsons	Parsons Federal Solutions, Inc.
pH	potential of hydrogen
PSL	project screening level
QC	Quality Control
RI	Remedial Investigation
RPD	relative percent differences

Site	Former Titan 1-A Missile Facility
SOP	Standard Operating Procedure
SV	soil vapor probe
TCE	trichloroethene
UFP-QAPP	Uniform Federal Policy Quality Assurance Project Plan
U.S.	United States
USACE	U.S. Army Corps of Engineers
USEPA	United States Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound

1.0 Introduction

On behalf of the United States Army Corps of Engineers (USACE), Sacramento District, Parsons Federal Solutions has prepared this Second Semi-Annual 2024 (2024S2) Groundwater and Soil Vapor Monitoring Report for Hazardous, Toxic, and Radioactive Waste (HTRW; Project 01) at the former Titan 1-A Missile Facility (i.e., the Site; **Figure 1**) Formerly Used Defense Site (FUDS) property number J09CA1108. Work was performed under Contract W91238-21-D-0008 according to the *Work Plan / Uniform Federal Policy - Quality Assurance Project Plan* (UFP-QAPP) (Parsons 2024a).

USACE is the Department of Defense's (DoD) executing agent for environmental restoration at FUDS, under the Defense Environmental Restoration Program, and is addressing HTRW releases at the properties affected by contaminants that were released at the former Titan 1-A Missile Facility (**Figure 2**). This HTRW project is being conducted as part of a Remedial Investigation/Feasibility Study and is regulated under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 and the Superfund Amendments and Reauthorization Act of 1986 (42 United States Code 9601 et seq.), and applicable State requirements.

This report documents the collection of groundwater samples from 30 groundwater monitoring wells and the collection of soil vapor samples from 31 soil vapor monitoring probes.

1.1 Purpose and Objectives

The purpose of this report is to present the data and results of semi-annual groundwater and soil vapor sampling. This report includes the following:

1. Investigation Activities
   - Groundwater Sampling
   - Soil Vapor Sampling
2. Investigation Results
   - Groundwater Elevations and Gradients
   - Groundwater Quality Parameters
   - Groundwater Analytical Results
   - Soil Vapor Analytical Results
   - Investigation derived waste (IDW) Analytical Results and Management
3. Data Validation and Quality Control Assessment
   - Data Quality Statement
   - Deviations from the UFP-QAPP
4. Summary
5. Data Tables

6. Figures
7. Appendices

The objective of semi-annual groundwater sampling is to further delineate contaminants in the vicinity of the former Titan 1-A missile facility. The resulting data will be used to determine whether further delineation is necessary.

Trichloroethene (TCE) and its daughter products were selected as contaminants of potential concern (COPCs) in the Continuing RI (Brown and Caldwell 2004). The Continuing RI summarized investigations completed prior to and during the Continuing RI and concluded that TCE and its daughter products (primarily cis-1,2-DCE) are the DoD-related COPCs that should be addressed under the FUDS program. Additional contaminants, including metals and PAHs were identified, but were not related to past DoD use and were, therefore, not identified as COPCs.

Low concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX) were also detected as part of the Continuing RI. The response to comments on the Continuing RI (see appendix of the Continuing RI for the responses to comments) and a subsequent underground storage tank (UST) investigation (Brown and Caldwell 2005) ruled out the former missile facility as the source of the BTEX and suggested that Placer County's gasoline storage tanks may have been the potential source (Brown and Caldwell 2004). Although the former missile facility was ruled out as a source, BTEX was carried forward as COPCs in the 2007 FS and in subsequent investigations. 1,4-Dichlorobenzene was selected as a COPC as it was used by the DoD as a toilet deodorizer and wastewater containing 1,4-dichlorobenzene was discharged by the DoD to the to the septic system leach field adjacent to the Placer County Corporation Yard (URS 2001). Based on these findings, and in accordance with the UFP-QAPP, the following COPCs have been retained as the basis for groundwater and soil vapor delineation parameters:

- 1,1-Dichlorethene
- 1,4-Dichlorobenzene
- Benzene
- cis-1,2-Dicholorethene
- Ethylbenzene
- m,p-Xylenes
- o-Xylene
- trans-1,2-Dichloroethene
- Trichloroethene
- Vinyl chloride

1.2 Report Organization

This report is organized as follows:

- Section 2 presents a summary of investigation activities

- Section 3 presents the results of the investigation, i.e., groundwater elevations, gradients, and the analytical results for groundwater, soil vapor, and IDW
- Section 4 presents a summary of data validation and deviations from the *Work Plan / Uniform Federal Policy - Quality Assurance Project Plan* (Parsons 2024a)
- Section 5 provides a summary of activities and findings
- Section 6 presents the reference list

2.0 2024S2 Investigation Activities

2.1 Groundwater Sampling

During the 2024S2 monitoring event, depth to groundwater was measured from the surveyed measuring point on the north side of monitoring wells, using a Solinst water level meter at the existing monitoring wells on October 21st, 2024 (**Figure 3**). Following UFP-QAPP Section 18.6 (Parsons 2024a), depth to water was measured in monitoring wells MW-18, MW-31, MW-32, MW-33, and MW-34, but groundwater samples were not collected from these wells. Groundwater samples were collected from 30 existing monitoring wells.

Groundwater samples were collected in general accordance with Standard Operating Procedure (SOP) 02 in the UFP-QAPP (Parsons 2024a). Water quality parameters were measured using a calibrated YSI ProDSS multiparameter water quality meter equipped with a flow-through cell and recorded on sampling forms to monitor stability (i.e. to ensure that formation groundwater at the screened interval was sampled). Once stability was achieved, groundwater samples were collected via bladder pump using low flow sampling methods between October 21st and October 24th, 2024. For MW-58, there was insufficient volume to collect a sample. Ongoing construction activity rendered MW-17 and MW-35 inaccessible, so they were not gauged or sampled. Groundwater sampling forms and calibration forms are presented in **Appendix A**.

A total of 34 groundwater samples, including 4 duplicate samples, were collected and handled in accordance with the UFP-QAPP Worksheets 26 and 27. Samples were shipped under chain of custody to EMAX Laboratories, Inc. at 3051 Fujita Street in Torrance, California. Shipping documentation, including the chain of custody, is included in the laboratory reports in **Appendix C**. Samples analyzed by U.S. Environmental Protection Agency (USEPA) Method 8260C for the following analytes:

- Benzene
- 1,4-Dichlorobenzene
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- Ethylbenzene
- Toluene
- Trichloroethene
- Vinyl chloride
- m/p-Xylenes
- o-Xylene

EMAX Laboratories is a DoD ELAP accredited laboratory. EMAX Laboratories' accreditation is included in Appendix G of the UFP-QAPP (Parsons 2024a).

2.2 Soil Vapor Sampling

Soil vapor samples were collected in SUMMA canisters from each probe (**Figure 4,**) following Field SOP 05 (Parsons 2024a). Soil vapor sampling forms are presented in **Appendix A**. Prior to purging or sampling, a shut-in test was performed to verify the integrity of the above-ground sampling system by assembling the entire above-ground sampling apparatus downstream from the top of the probe tubing. The system was evacuated to a vacuum of approximately 100 inches of water using the purge pump, and the vacuum gauge was observed for at least one minute to confirm that there was no observable loss of vacuum Prior to collecting soil vapor samples, a helium leak test was performed to verify the integrity of each probe by placing a shroud over the soil vapor probe and filling the shroud with approximately 10% by volume of helium. Helium was then measured in the sampling train using a hand-held helium meter. If helium was present at less than 5% of the concentration in the shroud, then the probe was considered to have passed the leak test and soil vapor samples were collected. During sampling, a Multi RAE field meter was used to measure the concentrations of oxygen, carbon monoxide, hydrogen sulfide, total VOCs, and percent of the lower explosive limit (LEL). Samples were collected from 31 soil vapor probes following these procedures.

A total of 35 soil vapor samples, including 4 duplicate samples, were collected and handled in accordance with UFP-QAPP worksheets 26 and 27. Samples were transported under chain of custody to Eurofins Air Toxics, LLC at 180 Blue Ravine Road, Suite B in Folsom, California. Shipping documentation, including the chain of custody, is included in the laboratory reports in **Appendix C**. Samples analyzed by USEPA Method TO-15 for the following analytes:

- Benzene
- 1,4-Dichlorobenzene
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- Ethylbenzene
- Toluene
- Trichloroethene
- Vinyl chloride
- m/p-Xylenes
- o-Xylene

Eurofins Air Toxics is a DoD ELAP accredited laboratory. Eurofins Air Toxics' accreditation is included in Appendix G of the UFP-QAPP (Parsons 2024a).

2.3 Investigation-Derived Waste Generation and Sampling

Soils, water, and sampling related debris were generated over the course of the investigation in May 2024 and managed as IDW. IDW was temporarily staged in 55-gallon drums within the Placer County Corporation Yard.

Samples were collected from each drum and composited into one sample. Solid and liquid IDW samples were sent to EMAX Laboratories, Inc. at 3051 Fujita Street in Torrance, California for analysis for:

- Volatile organic compounds (VOCs) via USEPA Method SW8260C
- Total metals via USEPA Method SW6010C/7470A/7471B
- Toxicity Characteristic Leaching Procedure and/or Soluble Threshold Limit Concentration for the above, if necessary

The analytical waste profile generated from the May 2024 liquid IDW drums was applied to the purge and decontamination water and sampling of purge and decontamination water was not performed.

3.0 2024S2 Investigation Results

3.1 Groundwater Elevations and Gradients

Groundwater elevation measurements were taken from 36 of the 38 monitoring wells. Wells MW-17 and MW-35 could not be measured due to ongoing construction activities in the area preventing access to their locations. Groundwater elevations ranged from 174.00 to 208.31 feet above mean sea level (amsl), or 4.59 to 27.39 ft below ground surface (bgs) (**Table 3**). The elevation measurements were used to calculate the direction and gradient of groundwater flow (**Figure 5**). Groundwater generally flows to the west-southwest across the site.

Hydraulic gradient was calculated using wells MW-30 to MW-16 (northern portion of Site) and MW-51 to MW-63 (southern portion of Site; **Figure 5**). Groundwater elevations and gradients vary based on location due to variable subsurface geology. Groundwater gradients are greater in the northeastern portion of the site at 0.021 ft/ft (MW-30 to MW-16) where elevations are higher. In the southwestern portion of the site, where groundwater elevations are lower, the groundwater gradient was measured at 0.014 ft/ft (MW-51 to MW-63),

3.2 Groundwater Quality Parameters

Prior to sampling, each monitoring well was purged until water quality measurements stabilized to ensure that the groundwater samples would be collected from the groundwater in the screened interval of the aquifer. For sampling, groundwater quality was considered stable when three consecutive readings of each parameter met the following criteria: pH (±0.2 units), EC (±3%), ORP (±20 millivolts [mv]), DO (±10% or ±0.2 mg/L, whichever is greater), and turbidity (±10% or ±1 NTU). Groundwater sampling forms document the groundwater quality parameters measured during sampling and are presented in **Appendix A**. Water quality parameters measured to be representative of the aquifer after stabilization are presented in **Table 4**.

3.3 Groundwater Analytical Results

During the 2024S2 groundwater monitoring event, groundwater samples were collected from 30 wells between October 21st and October 24th, 2024. The groundwater analytical results were compared to the screening levels presented in **Table 5a**. The screening levels used here are the California Maximum Contaminant Levels as they are the presumptive groundwater cleanup goals[1]. Analytical results are presented in **Table 6a**, and the analytical laboratory reports are provided in **Appendix C**.

1,1-Dichloroethene, benzene, ethylbenzene, m,p-xylenes, o-xylene, toluene, and vinyl chloride were not detected in any of the groundwater samples. The remaining analytes were detected as follows:

- 1,4-Dichlorobenzene
    - Detected above the screening level (5.0 µg/L): no wells

[1] Note that cleanup goals will be set in the Feasibility Study and may change from the California Maximum Contaminant Levels.

  - Detected below the screening level (5.0 µg/L): one well (MW-16)
- cis-1,2-Dichoroethene
  - Detected above the screening level (6.0 µg/L): 2 wells
  - Detected below the screening level (6.0 µg/L): 15 wells
- trans-1,2-Dichoroethene
  - Detected above the screening level (10 µg/L): no wells
  - Detected below the screening level (10 µg/L): 8 wells
- Trichloroethene
  - Detected above the screening level (5 µg/L): 16 wells
  - Detected below the screening level (5 µg/L): 5 wells.

Figure 6 shows the detected concentrations of TCE in groundwater in the vicinity of the former Titan 1-A missile facility. TCE isoconcentration contours are also shown on **Figure 6**. The TCE isoconcentration contours shown are interpolations predicted using state-of-the-practice mathematical models. The approximated concentration contours are only intended to provide a rough visualization of the approximated concentration boundaries.

During this sampling event, the following deviations from the UFP-QAPP were noted:

- MW-58 was not sampled due to insufficient water for low-flow sampling or grab sampling via bailer. Depth to water was measured at 25.08 feet below top of casing (ft btoc) and total well depth was measured at 25.61 ft btoc.
- Groundwater monitoring wells MW-17 and MW-35 were not gauged or sampled. MW-17 and MW-35 were unable to be located due to ongoing construction in the vicinity. The wells may have been destroyed or buried due to construction activity.

Cumulative groundwater analytical results (2019 to 2024) are presented in **Table 7a**.

3.4 Soil Vapor Analytical Results

During the 2024S2 soil vapor monitoring event, soil vapor samples were collected from 31 soil vapor probes (locations shown on **Figure 4**) between October 23rd and October 29th, 2024. The soil vapor analytical results were compared to the screening levels presented in **Table 5b**. Analytical results are presented in **Table 6b**, and the analytical laboratory reports are provided in **Appendix C**. The TCE and benzene analytical results are shown on **Figure 7** and **Figure 8**, respectively.

1,1-Dichloroethene, 1,4-dichlorobenzene (DCB), trans-1,2-DCE, and VC were not detected above laboratory reporting limits in any of the soil vapor samples. The remaining analytes were detected as follows:

- Benzene:
  - Detected above the screening level (12 µg/m^3): 1 soil vapor probe
  - Detected below the screening level (12 µg/m^3): 9 soil vapor probes

- cis-1,2-Dichoroethene:
  - Detected above the screening level (1,400 µg/m³): no soil vapor probes
  - Detected below the screening level (1,400 µg/m³): 3 soil vapor probes
- Ethylbenzene
  - Detected above the screening level (37 µg/m³): no soil vapor probes
  - Detected below the screening level (37 µg/m³): 3 soil vapor probes
- m,p-Xylene
  - Detected above the screening level (3,500 µg/m³): no soil vapor probes
  - Detected below the screening level (3,500 µg/m³): 11 soil vapor probes
- o-Xylene
  - Detected above the screening level (3,500 µg/m³): no soil vapor probes
  - Detected below the screening level (3,500 µg/m³): 5 soil vapor probes
- Toluene
  - Detected above the screening level (170,000 µg/m³): no soil vapor probes
  - Detected below the screening level (170,000 µg/m³): 20 soil vapor probes
- Trichloroethene
  - Detected above the screening level (16 µg/m³): 9 soil vapor probes
  - Detected below the screening level (16 µg/m³): 7 soil vapor probes

In SV-32 (located near the center of the northern plume area defined by the isoconcentration contours on **Figure 7**), soil vapor was sampled at 5.0 and 9.5 ft bgs to evaluate whether the source of TCE in soil vapor is the result of TCE in groundwater or from a shallower source. Trichloroethene was detected at high concentrations in the shallow sample (SV-32A, 3,500 µg/m³) but was not detected in the deep sample (SV-32B, 28.0 U µg/m³), indicating that the source of TCE is unlikely to be groundwater in this area.

TCE and benzene concentrations in soil vapor in the vicinity of the former Titan 1-A missile facility are shown on **Figures 7**[2] **and 8**, respectively. The isoconcentration contours shown are interpolations predicted using state-of-the-practice mathematical models. The isoconcentration contours are intended to provide an approximate visualization of the plume boundaries. Benzene isoconcentration contours for soil vapor are not shown given the limited data present and, given the large degree of uncertainty. Additional corroboration is needed before modeling (predicting) spatial concentrations.

During this sampling event, the following deviations from the UFP-QAPP were noted:

[2] Note that the extent of the TCE soil vapor plume shown in Figure 7 is misleading as the soil vapor probes were installed at different depths but the results are combined in Figure 7 to develop a single set of contours; i.e., some probes are right above groundwater and some are separated from groundwater by a clay layer or approximately 10 feet or soil. This is discussed in more detail in the Remedial Investigation (Parsons 2024b).

- SV-7 and SV-8 were not sampled due to soil vapor probe conditions. The soil vapor probe monuments were intact and present, but the sample tubing had been pulled from the probes.
- A sample was attempted at SV-12, but during the purge, water was observed in the sample tubing and a sample was unable to be collected.
- Full samples were unable to be collected at SV-21 and SV-29 due to significant back pressure. Back pressure was noted during the purge for each soil vapor probe. The vacuum in the SUMMA canisters was unable to overcome the back pressure from the probes and completely fill the canisters. This resulted in partial samples with elevated reporting limits.

Cumulative soil vapor analytical results (2019 to 2024) are presented in **Table 7b**.

For all soil vapor probes sampled, a field meter was also used to measure the concentrations of oxygen, carbon monoxide, hydrogen sulfide, total VOCs, and the percent of the LEL in the soil vapor (**Table 8**). Oxygen was detected at 20.9% in all probes. This is essentially the concentration of oxygen in the atmosphere. Hydrogen sulfide was not detected in any of the probes. The following probes had elevated LEL readings:

- SV-27: 4.0% LEL, total VOCs 0.2 parts per million (ppm)
- SV-28: 73% LEL, total VOCs 0.5 ppm
- SV-30: 85% LEL, total VOCs 1.3 ppm

All of these probes are on the western margin of the TCE groundwater plume (see **Figures 4** and **6**). Elevated LEL readings in soil vapor indicate a higher concentration of combustible gases, like methane. Combined with detectable readings of total VOCs, this could indicate the presence of readily degradable volatile organics that are being used as a food source by microorganisms in soils column (i.e., being biodegraded), resulting in the formation of methane in the soil vapor.

Other probes with detectable concentrations of total VOCs included:

- SV-1: total VOCs 0.1 ppm
- SV-3: total VOCs 0.1 ppm
- SV-20: total VOCs 0.1 ppm
- SV-22: total VOCs 0.1 ppm
- SV-24: total VOCs 1.2 ppm
- SV-26: total VOCs 0.2 ppm
- SV-31: total VOCs 0.2 ppm
- SV-32a: total VOCs 0.3 ppm
- SV-32b: total VOCs 0.1 ppm
- SV-33: total VOCs 0.1 ppm
- SV-35: total VOCs 0.3 ppm

All of these probes are associated with, or adjacent to, the TCE soil vapor plume centered on SV-1 in **Figure 7**.

Carbon monoxide was detected in SV-20 (7.0 ppm) and SV-22 (21.0 ppm). Carbon monoxide is a minor byproduct during TCE degradation by some bacteria (Whittaker et al. 1997). Both SV-20 and SV-22 are within the TCE soil vapor plume centered on SV-1 in **Figure 7**.

3.5 IDW Results and Management

Throughout the May 2024 investigation, waste was created from installing and developing monitoring wells as well as installing soil vapor probes. IDW was created as both solid (soil cuttings) and liquid (development and purge water). In total, ten (10) drums of soil cuttings and seven (7) drums of development/purge water were created. Purge and decontamination water were also generated over the course of the 2024S2 sampling event. Based on the analytical results, the IDW was classified as non-hazardous. The IDW drums from the May 2024 investigation were transported offsite for proper disposal on February 20, 2025.

Purge and decontamination water generated during the 2024S2 was transported offsite by Blaine Tech and temporarily stored at their facility. The purge and decontamination water were removed and transported by Crosby & Overton, Inc. to their disposal facility on January 17, 2025.

Executed waste manifests for both the IDW drums generated during investigation activities in May 2024 and the purge and decontamination water generated during the 2024S2 event are presented in **Appendix F**. As all waste was characterized as non-hazardous, the waste disposal facilities only provide signed manifests and do not provide waste disposal certificates or weight slips.

4.0 Data Validation and Quality Control Assessment

4.1 Data Validation

As part of the quality control procedures, a 100 percent of the project data was subject to a Stage 2B data review and 10 percent of the data was subject to a Stage 4 data review to verify data are of known quality and are compliant with the criteria in the UFP-QAPP (Parsons 2024a).

During the 2024S2 monitoring event, four groundwater duplicates and four soil vapor duplicates were collected. Relative percent differences (RPD) were within Quality Control (QC) limits for all sets of duplicates. Two trip blanks were collected and analyzed for VOCs by method SW8260C. Both trip blanks were non-detect for all target analytes. Two equipment blanks and one rinsate blank, also referred to as source blank, were collected and analyzed for VOCs by method SW8260C and results were non-detect for all target analytes.

No systematic accuracy or precision biases were identified in the data. Sample results that were qualified as estimated (UJ, J, J-, or J+) are usable for project decisions. Data qualified X due to significant deficiencies in the ability to meet project quality control criteria were identified for further review by the project team. Four results for trans-1,2-dichloroethene and four results for trichloroethene analyzed by method SW8260C were qualified X due to low LCSD recovery. The X qualified data was reviewed and discussed with the project team during the data usability assessment to determine acceptance or rejection of the data. This discussion is detailed further in Section 4.2..

Data validation reports for the 2024S2 sampling event are provided in Appendix D.

4.2 Data Usability Assessment

As mentioned in the section above, eight results were qualified X during validation due to low LCSD recovery. The recovery failures were minor, the LCSD recovered 2% below criteria for trans-1,2-dichloroethene and 3% below criteria for trichloroethene. In addition, the LCS met criteria for all target analytes. It was decided by the project team that the impact on data quality was minimal; ;therefore, the X qualifiers were changed to UJ as estimated for the eight non-detect results.

No results from this data set were rejected; therefore, all data are considered valid and usable as qualified for the purposes of this project.

Decisions based on results close to the limit of detection (LOD) should be made with a degree of caution. The LODs were below the Project Screening Levels (PSLs) from the UFP-QAPP (Parsons 2024a) for all analytes in all samples, except as shown in the table below.

Summary of Non-Detects with LODs Greater than PSLs

Matrix	Analyte	units	PSL	#NDs	Range LODs	#NDs>PSL
GW	Vinyl chloride	µg/L	0.019	34	0.3-0.3	34
SV	1,4-Dichlorobenzene	µg/m³	8.5	35	5.1-96	8
SV	Benzene	µg/m³	12	23	2.7-51	4
SV	Ethylbenzene	µg/m³	37	31	3.7-69	2
SV	Trichloroethene (TCE)	µg/m³	16	17	4.6-86	4
SV	Vinyl chloride	µg/m³	5.6	35	2.2-41	7

Definitions:
GW: groundwater
SV: soil vapor
LOD: limit of detection
PSL: project screening level from the UFP-QAPP (Parsons 2024a)
ND: non-detect

In soil vapor, the non-detects with LODs above the project screening levels from the UFP-QAPP (Parsons 2024a) occurred for the following analytes and associated soil vapor probes:

- 1,4-Dichlorobenzene – SV-1, SV-21, SV-22, SV-24, SV-29, SV-31, SV-32A, and SV-32B,
- Benzene – SV-21, SV-22, SV-29, and SV-31,
- Ethylbenzene – SV-29 and SV-31,
- TCE – SV-21, SV-29, SV-31, and SV-32B, and
- Vinyl chloride – SV-1, SV-21, SV-22, SV-24, SV-29, SV-31, and SV-32B

In SV-22 and SV-24, TCE was detected at above 8,000 µg/m³ requiring dilutions that resulted in the elevated LODs, i.e., it is not possible to detect benzene and vinyl chloride at the project screening levels in these probes. Similarly, in SV-1, TCE was detected at 7,400 µg/m³ and required dilution that resulted in an LOD above the project screening level for vinyl chloride, and an elevated LOD for benzene. In groundwater, the LOD for vinyl chloride was above the project screening level in all non-detects.

4.3 Deviations from the Quality Assurance Project Plan

As discussed in Sections 3.3 and 3.4, three monitoring wells (MW-17, MW-35, and MW-58) and three soil vapor probes (SV-7, SV-8, and SV-12) were unable to be sampled. Partial soil vapor samples were collected from SV-21 and SV-29 due to backpressure, resulting in elevated laboratory reporting limits.

5.0 Summary

During the 2024S2 monitoring event, groundwater elevation measurements were taken from 36 monitoring wells, with groundwater elevations ranging from 174.00 to 208.31 feet amsl, or 4.59 to 27.39 ft bgs. Groundwater generally flows to the west-southwest across the site (**Figure 5**).

Groundwater samples were collected from 30 wells between October 21st and October 24th, 2024. 1,1-DCE, benzene, ethylbenzene, m,p-xylenes, o-xylene, toluene, and VC were non-detect in all 30 wells. Of the detected analytes, only cis-1,2-DCE and TCE were detected above screening levels, with cis-1,2-DCE detected above the screening level of 6.0 µg/L in 2 wells (EW-1 and MW-45) at 18 µg/L and 9.4 µg/L and TCE detected above the screening level of 5.0 µg/L in 16 wells between 5.7 and 450 µg/L (**Figure 6**). A summary of analysis and detections in groundwater is included in the table below.

Summary Statistics for Groundwater Detections and Screening Level Exceedances

Groundwater Compounds	Count of Samples Analyzed (excluding duplicates)	Count of Analyte Detections[1]	Count of Analyte Detections Greater than the Screening Level[1]
1,1-Dichloroethene (1,1-DCE)	30	0	0
1,4-Dichlororobenzene (1,4-DCB)	30	1	0
Benzene	30	0	0
cis-1,2-Dichloroethene (DCE)	30	17	2
Ethylbenzene	30	0	0
m,p-Xylene	30	0	0
o-Xylene	30	0	0
Toluene	30	0	0
trans-1,2-DCE	30	8	0
TCE	30	21	16
VC	30	0	0

[1] Considers both primary and duplicate analysis, but only counts the higher detection.

Soil vapor samples were collected from 30 soil vapor probes between October 23rd and October 29th, 2024. Soil vapor probesSV-7, SV-8, SV-12, and SV-21 could not be sampled. 1,1-DCE, 1,4-DCB, trans-1,2-DCE, and VC were non-detect in all soil vapor probes. Of the detected analytes, only benzene and TCE were detected above screening levels, with benzene detected above the screening level of 12 µg/m^3 only in SV-28 at 130 µg/m^3 (**Figure 8**) and TCE detected above the screening level of 16 µg/m^3

in 9 soil vapor probes between 58 and 8,800 µg/m³ (**Figure 7**[3]). In SV-32, soil vapor was sampled at 5.0 and 9.5 ft bgs to evaluate whether the source of TCE in soil vapor was the result of TCE in groundwater or from a shallower source. TCE was detected at high concentrations in the shallow sample (SV-32A, 3,500 µg/m³) but was not detected in the deep sample (SV-32B, 28.0 U µg/m³), indicating that the source of TCE is unlikely to be groundwater in this area. A summary of analysis and detections in soil vapor is included in the table below.

Summary Statistics for Soil Vapor Detections and Screening Level Exceedances

Soil Vapor Compounds	Count of Samples Analyzed (excluding duplicates)	Count of Analyte Detections[1]	Count of Analyte Detections Greater than the Screening Level[1]
1,1-DCE	31	0	0
1,4-DCB	31	0	0
Benzene	31	10	1
cis-1,2-DCE	31	3	0
Ethylbenzene	31	3	0
m,p-Xylene	31	11	0
o-Xylene	31	5	0
Toluene	31	20	0
trans-1,2-DCE	31	0	0
TCE	31	16	9
VC	31	0	0

[1] Considers both primary and duplicate analysis, but only counts the higher detection.

All IDW is non-hazardous and was disposed of January 17, 2025, and February 20, 2025.

During this sampling event, the following deviations from the UFP-QAPP were noted:

- No sample could be drawn from MW-58.
- Groundwater monitoring wells MW-17 and MW-35 were not gauged or sampled due to ongoing construction in the vicinity.
- SV-7 and SV-8 were not sampled as the tubing had been pulled from the probes.

[3] Note that the extent of the TCE soil vapor plume shown in Figure 7 is misleading as the soil vapor probes were installed at different depths but the results are combined in Figure 7 to develop a single set of contours; i.e., some probes are right above groundwater and some are separated from groundwater by a clay layer or approximately 10 feet or soil. This is discussed in more detail in the Remedial Investigation (Parsons 2024b).

- SV-12 was not sampled because water was observed in the sample tubing.
- Full soil vapor samples could not be collected from SV-21 SV-29 due to significant back pressure.

6.0 References

Brown and Caldwell, 2004. *Continuing Remedial Investigation Report, Titan 1-A Missile Facility*, Lincoln, California. Prepared for the U.S. Army Corps of Engineers. March.

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Parsons. 2024b. Remedial Investigation Report for Former Titan 1-A Missile Facility, Lincoln, California. Draft Final. June.

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Whittaker M, Monroe D, Oh DJ, Andersen S. 1997. Trichloroethylene Pathway Map. Available online at: https://eawag-bbd.ethz.ch/tce/tce_map.html.

Tables

Table 1. Monitoring Well Construction Details and Survey Data

Well ID	Installation Date	Coordinates [1,2,3]		Top of Casing Elevation [3,4] (ft amsl)	Ground Surface Elevation [3,4] (ft amsl)	Height of Stick up [5] (ft)	Total Depth of Casing [6,7] (ft bgs)	Top of Screen [6,7] (ft bgs)	Bottom of Screen [6,7] (ft bgs)	Borehole Diameter [6,7] (inches)	Casing Diameter [6,7,8] (inches)
		Northing	Easting								
EW-1	2000-10-17	2082720.77	6770624.93	210.94	209.3	1.61	25.0	15	24.5	10.0	4.0
MW-11	1998-10-06	2083034.03	6770616.72	211.19	208.9	2.33	23.0	12.5	22.5	10.0	4.0
MW-16	1998-10-09	2083047.93	6770567.87	212.78	210.3	2.43	26.5	11	26	10.0	4.0
MW-17	1998-10-09	2082965.77	6770624.27	210.25	207.3	2.95	20.0	9.5	19.5	10.0	4.0
MW-18	2000-10-18	2083703.57	6770862.91	219.94	217.4	2.58	22.5	12	21.5	8.0	2.0
MW-19	2000-10-16	2081938.12	6769849.74	186.96	184.1	2.83	25.0	14	24.5	8.0	2.0
MW-22	2000-10-19	2082413.25	6770443.66	201.07	199.5	1.61	28.5	8.5	28	8.0	2.0
MW-29	2002-09-04	2082870.99	6770828.89	219.44	217.2	2.25	35.0	20	35	8.0	2.0
MW-30	2002-08-27	2082801.32	6771284.78	238.18	235.7	2.51	45.0	29.5	44.5	8.0	2.0
MW-31	2002-08-29	2083615.16	6771262.83	224.80	222.3	2.53	25.0	15	25	8.0	2.0
MW-32	2002-08-29	2083934.98	6771250.80	215.60	213.1	2.51	35.0	20	35	8.0	2.0
MW-33	2002-08-30	2084115.48	6770622.90	212.94	210.4	2.52	35.0	20	35	8.0	2.0
MW-34	2002-09-03	2083585.09	6770479.02	214.43	212.4	2.08	25.0	10	25	8.0	2.0
MW-35	2004-11	2082893.83	6770678.97	212.54	210.1	2.43	19.0	9.0	19.0	Unknown	2.0
MW-42	2019-11-25	2082105.45	6770300.41	203.56	201.4	2.21	32.5	22	32	8.0	2.0
MW-43	2020-07-20	2082251.83	6770160.59	193.63	190.8	2.82	25.0	10	20	8.0	2.0
MW-44	2019-12-05	2082298.57	6769890.09	196.39	193.4	2.96	35.0	20	30	8.0	2.0
MW-45	2019-11-26	2082498.44	6770397.46	207.01	204.8	2.18	35.0	20	30	8.0	2.0
MW-46	2019-02-05	2082553.20	6770091.26	209.22	206.4	2.78	40.0	25	35	8.0	2.0
MW-47	2019-12-04	2082598.64	6769889.50	204.82	202.0	2.83	40.0	25	35	8.0	2.0
MW-48	2020-07-15	2082664.59	6770761.49	216.15	213.4	2.72	35.0	20	30	8.0	2.0
MW-49	2020-07-17	2082756.33	6770384.31	204.50	201.8	2.69	35.0	20	30	8.0	2.0
MW-50	2019-12-03	2082868.32	6770111.43	212.74	210.1	2.69	40.0	25	35	8.0	2.0
MW-51	2020-07-16	2082890.51	6770482.80	206.67	204.1	2.61	35.0	20	30	8.0	2.0
MW-52	2019-12-03	2083095.56	6770195.24	216.58	213.8	2.77	45.0	30	40	8.0	2.0
MW-53	2019-11-27	2083386.53	6770213.12	211.17	208.4	2.75	35.0	20	30	8.0	2.0
MW-54	2020-07-21	2081777.28	6769905.72	185.53	182.9	2.64	22.5	12	22	8.0	2.0
MW-55	2020-07-22	2081845.40	6770183.84	191.84	189.3	2.51	25.0	10	20	8.0	2.0
MW-56	2020-07-15	2082558.46	6770638.40	209.05	206.7	2.32	35.0	20	30	8.0	2.0
MW-57	2019-12-06	2083192.35	6771016.96	228.20	225.3	2.92	40.0	25	35	8.0	2.0
MW-58	2019-12-04	2083279.87	6770511.84	218.82	216.2	2.59	30.0	15	25	8.0	2.0
MW-59	2019-12-06	2082202.52	6769648.43	188.87	186.3	2.60	30.0	15	25	8.0	2.0
MW-60	2019-12-02	2083159.24	6769901.20	211.38	208.8	2.59	35.5	20.5	30.5	8.0	2.0
MW-61	2024-05-22	2082936.667	6769617.604	203.00	200.54	2.46	22.1	19.6	29.6	8.0	2.0
MW-62	2024-05-23	2082675.260	6769635.196	201.10	198.32	2.78	22.1	19.6	29.6	8.0	2.0
MW-63	2024-05-24	2082338.897	6769522.856	192.16	189.81	2.35	20.5	18	28	8.0	2.0
MW-64	2024-05-28	2082069.374	6769485.786	189.98	187.56	2.42	20.5	20	30	8.0	2.0
MW-66	2024-05-21	2083409.738	6770179.280	210.36	207.79	2.57	20.5	20	30	8.0	2.0

Notes:
1 - California State Plane, Zone 2, feet
2 - For wells installed prior to 2024, taken from Table 1 in Ahtna. 2023. Supplemental Remedial Investigation and Feasibility Study Report, Beale Air Force Base (AFB), Former Titan 1-A Missile Facility, Placer County, Lincoln, California, FUDS Project J09CA1108-01. Draft.
3 - For wells installed in 2024, see the survey in Appendix D.
4 - For wells installed prior to 2024, taken from unpublished surveys performed by Mid Coast Engineers on 12/17/2019 and 8/10/2020.
5 - Calculated as [top of casing] - [ground surface elevation].
6 - For wells installed prior to 2024, taken from the boring logs presented in Ahtna. 2023.
7 - For MW-35, value taken from Table 3-2 in Brown and Caldwell. 2006. 2006 Annual Groundwater Monitoring Report. Final.
8 - For EW-1, the well construction diagram states that the casing diameter is both 2 and 4 inches. However, the sampling sheets from recent groundwater monitoring events indicate that the casing diameter is 4 inches.

Definitions:
amsl - above mean sea level bgs - below ground surface ft - feet

Table 2. Soil Vapor Probe Construction Details and Survey Data

Probe ID	Installation Date	Coordinates [1,2,3]		Ground Surface Elevation [3,4,5] (ft amsl)	Probe Depth [6] (ft bgs)	Total Depth [6,7] (ft bgs)	Boring Diameter [6] (inches)	Tubing Diameter [6] (inches)
		Northing	Easting					
SV-1	11/25/2019	2083382.83	6770204.96	208.38	14.0	14.5	3.25	3/16
SV-2	11/26/2019	2083282.66	6770508.34	216.35	10.5	11.0	3.25	3/16
SV-3	7/15/2020	2082842.30	6769857.29	204.35	9.3	9.7	3.25	3/16
SV-4	7/22/2020	2082755.10	6770389.46	201.83	4.5	5.0	3.25	3/16
SV-5b	7/16/2020	2082694.40	6770622.52	209.35	4.5	5.0	3.25	3/16
SV-6	7/15/2020	2082668.20	6770756.38	213.39	4.5	5.0	3.25	3/16
SV-7	7/16/2020	2082570.67	6771002.92	220.91	4.5	5.0	3.25	3/16
SV-8	7/16/2020	2082276.43	6770589.49	206.84	4.5	5.0	3.25	3/16
SV-9b	7/21/2020	2082497.91	6770401.48	204.92	5.8	6.2	3.25	3/16
SV-10	11/26/2019	2082556.71	6770093.12	206.44	10.5	11.0	3.25	3/16
SV-11	11/26/2019	2082303.22	6769890.08	193.55	9.0	9.0	3.25	3/16
SV-12	7/17/2020	2082255.97	6770155.75	190.48	4.5	5.0	3.25	3/16
SV-15b	7/16/2020	2082202.28	6769653.90	186.28	2.5	3.0	3.25	3/16
SV-16	7/15/2020	2082563.26	6770645.75	207.20	9.0	9.5	3.25	3/16
SV-17b	7/16/2020	2083161.31	6769904.79	208.93	4.5	10.0	3.25	3/16
SV-18	7/15/2020	2083703.57	6770862.91	216.56	4.5	5.0	3.25	3/16
SV-19	7/14/2020	2083040.16	6770390.89	214.21	9.5	10.0	3.25	3/16
SV-20	7/14/2020	2083310.27	6770045.58	207.37	9.5	10.0	3.25	3/16
SV-21	7/14/2020	2083432.90	6770342.52	210.53	9.5	10.0	3.25	3/16
SV-22	10/19/2022	2083352.92	6770135.05	208.00	9.5	10.0	3.25	1/4
SV-23	10/19/2022	2083461.75	6770332.72	209.86	9.5	10.0	3.25	1/4
SV-24	10/19/2022	2083316.62	6770248.55	209.49	8.75	10.0	3.25	1/4
SV-25	10/19/2022	2083191.23	6770304.30	212.06	8.5	10.0	3.25	1/4
SV-26	10/19/2022	2083377.59	6770192.42	208.42	5.0	6.0	3.25	1/4
SV-27	5/31/2024	2082940.72	6769617.88	200.47	10.5	11.0	2.25	1/4
SV-28	5/31/2024	2082679.88	6769635.45	198.32	11.0	11.5	2.25	1/4
SV-29	5/29/2024	2082343.61	6769523.46	190.05	8.0	8.5	2.25	1/4
SV-30	5/29/2024	2082074.36	6769485.30	187.55	7.5	8.0	2.25	1/4
SV-31	5/30/2024	2083125.87	6770095.79	211.47	9.5	10.0	2.25	1/4
SV-32a	5/30/2024	2083279.48	6770210.72	213.56	5.0	5.5	2.25	1/4
SV-32b	5/30/2024	2083279.48	6770210.72	213.56	9.5	10.0	2.25	1/4
SV-33	5/20/2024	2083482.00	6770145.89	207.84	9.5	10.0	2.25	1/4
SV-34	6/3/2024	2083382.34	6770056.42	207.96	9.5	10.0	2.25	1/4
SV-35	6/3/2024	2083413.92	6770177.86	207.54	9.5	10.0	2.25	1/4

Notes:

1 - California State Plane, Zone 2, feet

2 - For probes installed prior to 2024, taken from from the GIS files provided with Ahtna. 2023. Supplemental Remedial Investigation and Feasibility Study Report, Beale Air Force Base (AFB), Former Titan 1-A Missile Facility, Placer County, Lincoln, California, FUDS Project J09CA1108-01. Draft.

3 - For probes installed in 2024, see the survey in Appendix D.

4 - For probes installed prior to 2024, taken from unpublished surveys performed by Mid Coast Engineers on 12/17/2019 and 8/10/2020.

5 - For SV-22 through SV-26, taken from the boring logs as presented in Ahtna. 2023.

6 - For probes installed before 2024, from the boring logs in Ahtna. 2023.

7 - Reported as the bottom of the sand filter pack.

Definitions:

amsl - above mean sea level
bgs - below ground surface
ft - feet

Table 3. Groundwater Elevations

Well ID	Date	Time	TOC Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation [1] (ft amsl)	Ground Surface Elevation (ft amsl)	Depth to Water (ft bgs)	Total Depth (ft btoc)
EW-1	10/21/2024	13:30	210.94	19.02	191.92	209.33	17.41	26.45
MW-11	10/21/2024	13:41	211.19	16.63	194.56	208.86	14.30	25.40
MW-16	10/21/2024	13:45	212.78	20.51	192.27	210.35	18.08	28.61
MW-17	--	--	210.25	--	--	207.30	--	22.45
MW-18	10/21/2024	13:10	219.94	17.03	202.91	217.36	14.45	24.84
MW-19	10/21/2024	11:20	186.96	9.41	177.55	184.13	6.58	27.57
MW-22	10/21/2024	12:25	201.07	11.81	189.26	199.46	10.20	29.88
MW-29	10/21/2024	13:25	219.44	19.22	200.22	217.19	16.97	36.95
MW-30	10/21/2024	10:20	238.18	29.87	208.31	235.70	27.39	44.76
MW-31	10/21/2024	12:45	224.80	19.34	205.46	222.27	16.81	27.01
MW-32	10/21/2024	12:55	215.60	17.18	198.42	213.09	14.67	37.02
MW-33	10/21/2024	13:02	212.94	16.37	196.57	210.42	13.85	37.31
MW-34	10/21/2024	13:17	214.43	18.50	195.93	212.35	16.42	26.94
MW-35	--	--	212.54	--	--	210.11	--	20.00
MW-42	10/21/2024	11:00	203.56	17.35	186.21	201.35	15.14	34.66
MW-43	10/21/2024	11:07	193.63	7.41	186.22	190.81	4.59	27.61
MW-44	10/21/2024	11:37	196.39	14.62	181.77	193.43	11.66	37.64
MW-45	10/21/2024	12:20	207.01	17.87	189.14	204.83	15.69	36.92
MW-46	10/21/2024	11:48	209.22	22.57	186.65	206.44	19.79	43.47
MW-47	10/21/2024	11:42	204.82	19.80	185.02	201.99	16.97	42.40
MW-48	10/21/2024	13:35	216.15	22.30	193.85	213.43	19.58	37.59
MW-49	10/21/2024	12:15	204.50	14.21	190.29	201.81	11.52	37.63
MW-50	10/21/2024	11:54	212.74	23.45	189.29	210.05	20.76	41.94
MW-51	10/21/2024	12:09	206.67	15.30	191.37	204.06	12.69	37.71
MW-52	10/21/2024	12:00	216.58	26.97	189.61	213.81	24.20	47.50
MW-53	10/21/2024	8:38	211.17	21.76	189.41	208.42	19.01	38.90
MW-54	10/21/2024	11:14	185.53	11.53	174.00	182.89	8.89	24.80

Table 3. Groundwater Elevations

Well ID	Date	Time	TOC Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation [1] (ft amsl)	Ground Surface Elevation (ft amsl)	Depth to Water (ft bgs)	Total Depth (ft btoc)
MW-55	10/21/2024	10:42	191.84	10.37	181.47	189.33	7.86	27.34
MW-56	10/21/2024	13:40	209.05	17.97	191.08	206.73	15.65	37.54
MW-57	10/21/2024	10:10	228.20	22.82	205.38	225.28	19.90	42.44
MW-58	10/21/2024	14:10	218.82	25.08	193.74	216.23	22.49	25.61
MW-59	10/21/2024	11:26	188.87	12.37	176.50	186.27	9.77	32.02
MW-60	10/21/2024	14:24	211.38	23.43	187.95	208.79	20.84	37.52
MW-61	10/21/2024	8:50	203.00	18.40	184.60	200.54	15.94	32.60
MW-62	10/21/2024	8:55	201.10	18.66	182.44	198.32	15.88	32.60
MW-63	10/21/2024	9:02	192.16	15.60	176.56	189.81	13.25	31.08
MW-64	10/21/2024	9:07	189.98	15.70	174.28	187.56	13.28	32.01
MW-66	10/21/2024	8:42	210.36	21.10	189.26	207.79	18.54	32.58

Notes:
1 - Calculated as [top of casing elevation] - [depth to water]
2 - MW-17 and MW-35 presumed buried or destroyed due to construction activities.

Definitions:
amsl - above mean sea level
bgs - below ground surface
ft - feet
btoc - below top of casing

Table 4. Water Quality Parameters

Well ID	Date	Time	Temp. (°C)	pH (pH Units)	EC (µS/cm)	Turbidity (NTU)	DO (mg/L)	ORP (mv)	Notes
EW-1	10/24/2024	14:03	22.8	7.34	749	13	4.43	14.2	
MW-11	10/23/2024	13:41	23.5	6.71	850	9	1.20	-48.7	
MW-16	10/23/2024	12:48	22.6	6.63	805	10	1.25	-41.2	
MW-17	10/21/2024	--	--	--	--	--	--	--	Unable to access
MW-19	10/23/2024	11:59	23.9	6.85	462.2	12	2.54	-29.8	
MW-22	10/21/2024	8:45	18.7	7.48	518	69.3	5.58	72.6	
MW-29	10/21/2024	13:05	23.4	7.57	884	19.5	3.59	209.0	
MW-30	10/22/2024	12:24	22.2	6.51	884	218	3.43	-8.4	
MW-35	10/21/2024	--	--	--	--	--	--	--	Unable to access
MW-42	10/21/2024	10:45	21.0	7.6	467	145.5	3.72	106.8	
MW-43	10/21/2024	9:48	22.5	7.41	279.4	165.1	0.98	84.6	
MW-44	10/24/2024	10:33	21.3	7.1	600	130.0	2.78	49.3	
MW-45	10/21/2024	14:00	21.2	7.74	463.8	380.9	3.80	139.6	
MW-46	10/24/2024	11:33	20.2	7.23	678	140	4.16	28.5	
MW-47	10/24/2024	9:40	18.7	7.1	644	23	4.86	99.6	
MW-48	10/22/2024	14:18	23.7	7.71	528	48	1.23	-98.6	
MW-49	10/24/2024	12:30	22.6	7.11	636	109.0	5.30	43.8	
MW-50	10/24/2024	8:46	18.2	7.13	879	150	3.69	198.4	
MW-51	10/24/2024	13:07	21.6	7.11	811	140	4.57	45.3	
MW-52	10/23/2024	14:37	22.2	6.69	837	213	2.94	-32.4	
MW-53	10/21/2024	15:21	22.7	7.90	538	51.9	1.36	89.6	
MW-54	10/23/2024	11:14	20.6	6.94	468.3	16	1.27	-39.2	
MW-55	10/23/2024	10:38	22.9	6.7	302	42	5.30	-34.7	
MW-56	10/21/2024	12:00	22.7	7.64	529	264.4	5.80	116.1	
MW-57	10/22/2024	13:18	23.9	7.28	539	75	2.43	-47.3	
MW-58	10/21/2024	--	--	--	--	--	--	--	Insufficient water for sample
MW-59	10/22/2024	16:08	24.0	6.77	697	440	6.07	-18.7	
MW-60	10/22/2024	15:09	23.5	6.53	1253	340	3.58	-22.0	
MW-61	10/22/2024	11:19	21.5	6.94	652	182	2.46	-33.5	
MW-62	10/22/2024	10:14	21.2	7.01	1009	258	1.07	-38.8	
MW-63	10/23/2024	8:15	19.4	7.00	661	307	1.13	-17.4	
MW-64	10/23/2024	9:02	19.8	7.56	554	55	1.12	-128.2	
MW-66	10/21/2024	16:05	22.5	7.43	648	71000	3.73	133.6	

Definitions:

amsl - above mean sea level
bgs - below ground surface
btoc - below top of casing
DO - dissolved oxygen
EC - electrical conductivity
mS/cm - milliSiemens per centimeter
NTU - Nephelometric Turbidity Units
ORP - oxidation-reduction potential

Table 5a. Screening Levels (Groundwater)

Analyte	CAS Number	Units	USEPA RSL	DTSC-SL	CA MCL	Screening Level Selected[2]	Reference
1,1-Dichloroethene	75-35-4	µg/L	280	130	6.0	6.0	CA MCL
1,4-Dichlorobenzene	106-46-7	µg/L	0.48	-	5.0	5.0	CA MCL
Benzene	71-43-2	µg/L	0.46	0.15	1.0	1.0	CA MCL
cis-1,2-Dichloroethene	156-59-2	µg/L	25	12	6.0	6.0	CA MCL
Ethylbenzene	100-41-4	µg/L	1.5	-	300	300	CA MCL
m,p-Xylene	179601-23-1	µg/L	190	-	1,750	1,750	CA MCL
o-Xylene	95-47-6	µg/L	190	-	1,750	1,750	CA MCL
Toluene	108-88-3	µg/L	1,100	410	150	150	CA MCL
trans-1,2-Dichloroethene	156-60-5	µg/L	68	110	10	10	CA MCL
Trichloroethene	79-01-6	µg/L	0.49	-	5.0	5.0	CA MCL
Vinyl chloride	75-01-4	µg/L	0.019	0.0098	0.50	0.50	CA MCL

Notes:

1 - The selected screening level is the CA MCL.

Definitions:

CA MCL - California Maximum Contaminant Level.
https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/MCLsandPHGs.html.
Accessed 26 July 2024

DTSC-SL = California Department of Toxic Substances Control May 2022 tapwater screening levels.

USEPA RSL = USEPA May 2024 tapwater Regional Screening Level. Target HQ = 1.

Table 5b. Screening Levels (Soil Vapor)

Analyte	CAS Number	Units	USEPA VISL	DTSC-SL[1]	Screening Level Selected[2]	Reference
1,1-Dichloroethene	75-35-4	µg/m^3	7,000	2,433	7,000	USEPA VISL
1,4-Dichlorobenzene	106-46-7	µg/m^3	8.5	-	8.5	USEPA VISL
Benzene	71-43-2	µg/m^3	12	3.2	12	USEPA VISL
cis-1,2-Dichloroethene	156-59-2	µg/m^3	1,400	277	1,400	USEPA VISL
Ethylbenzene	100-41-4	µg/m^3	37	-	37	USEPA VISL
m,p-Xylene	108-38-3	µg/m^3	3,500	-	3,500	USEPA VISL
o-Xylene	95-47-6	µg/m^3	3,500	-	3,500	USEPA VISL
Toluene	108-88-3	µg/m^3	170,000	10,000	170,000	USEPA VISL
trans-1,2-Dichloroethene	156-60-5	µg/m^3	1,400	2,767	1,400	USEPA VISL
Trichloroethene	79-01-6	µg/m^3	16	-	16	USEPA VISL
Vinyl chloride	75-01-4	µg/m^3	5.6	0.32	5.6	USEPA VISL

Notes:

1 - DTSC-SLs have been divided by default USEPA (2015) attenuation factor of 0.03, which is equivalent to the method used to derive USEPA VISLs.

2 - The selected screening level is the USEPA VISL. If no USEPA VISL is available, the DTSC-SL is used.

Definitions:

DTSC-SL = California Department of Toxic Substances Control May 2022 residential air screening levels

USEPA VISL = USEPA residential sub-slab soil gas vapor intrusion screening level (target HQ = 1). Calculated 28 December 2023.

References:

USEPA (U.S. Environmental Protection Agency). 2015. OSWER technical guide for assessing and mitigating the vapor intrusion pathway from subsurface vaporsources to indoor air. OSWER Publication 9200.2-154.

Table 6a. Groundwater Analytical Results

Sample Location			Groundwater Screening Level [1]	EW-1	MW-11	MW-16	MW-16	MW-19	MW-22	MW-29	MW-30	MW-30	MW-42	MW-43	MW-44
Sample Collection Date				10/24/2024	10/23/2024	10/23/2024	10/23/2024	10/23/2024	10/24/2024	10/24/2024	10/22/2024	10/22/2024	10/24/2024	10/24/2024	10/24/2024
Sample Depth (ft bgs)				0	0	0	0	0	0	0	0	0	0	0	0
Sample Type				N	N	N	FD	N	N	N	N	FD	N	N	N
Analyte	Method	Units		T1AMF-EW01_OCT24	T1AMF-MW011_OCT24	T1AMF-MW016_OCT24	T1AMF-MW016_OCT24_FD	T1AMF-MW019_OCT24	T1AMF-MW022_OCT24	T1AMF-MW029_OCT24	T1AMF-MW030_OCT24	T1AMF-MW030_OCT24_FD	T1AMF-MW042_OCT24	T1AMF-MW043_OCT24	T1AMF-MW044_OCT24
1,1-Dichloroethene	SW8260C	µg/L	6.0	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,4-Dichlorobenzene	SW8260C	µg/L	5.0	0.20 U	0.20 U	0.24 J	0.16 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Benzene	SW8260C	µg/L	1.0	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	SW8260C	µg/L	6.0	**18**	1.1	1.1	1.0	0.20 U	2.2 J	1.9	0.20 U	0.20 U	1.8	2.5	2.9
Ethylbenzene	SW8260C	µg/L	300	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
m,p-Xylene	SW8260C	µg/L	1,750	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	SW8260C	µg/L	1,750	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 U	0.20 U	0.20 UJ	0.2 UJ	0.20 UJ
Toluene	SW8260C	µg/L	150	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	SW8260C	µg/L	10	0.20 U	0.20 U	0.15 J	0.15 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.17 J	0.25 J
Trichloroethene (TCE)	SW8260C	µg/L	5.0	**450**	**9.1**	4.8	4.0	4.1	**89 J**	**47**	0.20 U	0.20 U	**57**	**44**	**71 J**
Vinyl chloride	SW8260C	µg/L	0.5	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

Definitions:
bgs — below ground surface
ft — feet
µg/L — micrograms per liter

Qualifiers:
J — Estimated
J+ — Estimated - potential high bias
J- — Estimated - potential low bias
U — Non-detect at the indicated Limit of Detection
X — Presence or absence of the analyte cannot be evaluated due to deficiencies in meeting quality control criteria.

Sample types:
N — Normal, or parent sample
FD — Field duplicate

Notes:
1 - see Table 5 for derivation of screening levels
Results in **bold** exceed the screening level
Results in grey are non-detect

Table 6a. Groundwater Analytical Results

Sample Location			Groundwater Screening Level [1]	MW-45	MW-46	MW-47	MW-48	MW-49	MW-50	MW-50	MW-51	MW-52	MW-53	MW-54	MW-55
Sample Collection Date				10/24/2024	10/24/2024	10/24/2024	10/22/2024	10/24/2024	10/24/2024	10/24/2024	10/24/2024	10/23/2024	10/21/2024	10/23/2024	10/23/2024
Sample Depth (ft bgs)				0	0	0	0	0	0	0	0	0	0	0	0
Sample Type				N	N	N	N	N	N	FD	N	N	N	N	N
Analyte	Method	Units		T1AMF-MW045_OCT24	T1AMF-MW046_OCT24	T1AMF-MW047_OCT24	T1AMF-MW048_OCT24	T1AMF-MW049_OCT24	T1AMF-MW050_OCT24	T1AMF-MW050_OCT24_FD	T1AMF-MW051_OCT24	T1AMF-MW052_OCT24	T1AMF-MW053_OCT24	T1AMF-MW054_OCT24	T1AMF-MW055_OCT24
1,1-Dichloroethene	SW8260C	µg/L	6.0	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,4-Dichlorobenzene	SW8260C	µg/L	5.0	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 UJ
Benzene	SW8260C	µg/L	1.0	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	SW8260C	µg/L	6.0	**9.4**	4.0	1.4	0.20 U	1.6	0.80 J	0.79 J	0.14 J	0.49 J	0.20 U	0.84 J	0.20 U
Ethylbenzene	SW8260C	µg/L	300	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
m,p-Xylene	SW8260C	µg/L	1,750	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	SW8260C	µg/L	1,750	0.20 UJ	0.20 UJ	0.20 UJ	0.20 U	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 U	0.20 UJ	0.20 U
Toluene	SW8260C	µg/L	150	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,2-Dichloroethene	SW8260C	µg/L	10	0.46 J	0.18 J	0.40 J	0.20 U	0.20 U	0.19 J	0.20 U	0.20 U	0.38 J	0.20 U	0.20 U	0.20 UJ
Trichloroethene (TCE)	SW8260C	µg/L	5.0	**310**	**160**	**26**	0.20 U	**89**	**21**	**22**	**16**	**7.1**	0.20 U	3.1	0.20 UJ
Vinyl chloride	SW8260C	µg/L	0.5	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U

Definitions:
bgs — below ground surface
ft — feet
µg/L — micrograms per liter

Qualifiers:
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J+ — Estimated - potential high bias
J- — Estimated - potential low bias
U — Non-detect at the indicated Limit of Detection
X — Presence or absence of the analyte cannot be evaluated due to deficiencies in meeting quality control criteria.

Sample types:
N — Normal, or parent sample
FD — Field duplicate

Notes:
1 - see Table 5 for derivation of screening levels
Results in **bold** exceed the screening level
Results in grey are non-detect

Table 6a. Groundwater Analytical Results

Sample Location			Groundwater Screening Level [1]	MW-56	MW-56	MW-57	MW-59	MW-60	MW-61	MW-62	MW-63	MW-64	MW-66
Sample Collection Date				10/24/2024	10/24/2024	10/22/2024	10/22/2024	10/22/2024	10/22/2024	10/22/2024	10/23/2024	10/23/2024	10/21/2024
Sample Depth (ft bgs)				0	0	0	0	0	0	0	0	0	0
Sample Type				N	FD	N	N	N	N	N	N	N	N
Analyte	Method	Units		T1AMF-MW056_OCT24	T1AMF-MW056_OCT24_FD	T1AMF-MW057_OCT24	T1AMF-MW059_OCT24	T1AMF-MW060_OCT24	T1AMF-MW061_OCT24	T1AMF-MW062_OCT24	T1AMF-MW063_OCT24	T1AMF-MW064_OCT24	T1AMF-MW066_OCT24
1,1-Dichloroethene	SW8260C	µg/L	6.0	0.20 U	0.20 U	0.20 U	0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 UJ
1,4-Dichlorobenzene	SW8260C	µg/L	5.0	0.20 U	0.20 U	0.20 U	0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 UJ	0.20 UJ	0.20 UJ
Benzene	SW8260C	µg/L	1.0	0.20 U	0.20 U	0.20 U	0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 UJ
cis-1,2-Dichloroethene	SW8260C	µg/L	6.0	0.20 U	0.20 U	0.20 U	0.31 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 UJ
Ethylbenzene	SW8260C	µg/L	300	0.20 U	0.20 U	0.20 U	0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 UJ
m,p-Xylene	SW8260C	µg/L	1,750	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ
o-Xylene	SW8260C	µg/L	1,750	0.20 UJ	0.20 UJ	0.20 U	0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 UJ
Toluene	SW8260C	µg/L	150	0.20 U	0.20 U	0.20 U	0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 UJ
trans-1,2-Dichloroethene	SW8260C	µg/L	10	0.20 U	0.20 U	0.20 U	0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 UJ	0.20 UJ	0.20 UJ
Trichloroethene (TCE)	SW8260C	µg/L	5.0	**7.9**	**8.1**	0.21 J	**6.8 J**	1.4 J	0.20 U	0.20 U	0.20 UJ	0.20 UJ	0.20 UJ
Vinyl chloride	SW8260C	µg/L	0.5	0.30 U	0.30 U	0.30 U	0.30 UJ	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 UJ

Definitions:
bgs — below ground surface
ft — feet
µg/L — micrograms per liter

Qualifiers:
J — Estimated
J+ — Estimated - potential high bias
J- — Estimated - potential low bias
U — Non-detect at the indicated Limit of Detection
X — Presence or absence of the analyte cannot be evaluated due to deficiencies in meeting quality control criteria.

Sample types:
N — Normal, or parent sample
FD — Field duplicate

Notes:
1 - see Table 5a for derivation of screening levels
Results in **bold** exceed the screening level
Results in grey are non-detect

Table 6b. Soil Vapor Analytical Results

Sample Location			Soil Vapor Screening Level [1]	SV-1	SV-2	SV-3	SV-4	SV-5B	SV-6	SV-9B	SV-10	SV-11
Sample Collection Date				10/24/2024	10/25/2024	10/23/2024	10/28/2024	10/29/2024	10/29/2024	10/28/2024	10/23/2024	10/23/2024
Sample Depth (ft bgs)				14.0	10.5	9.3	4.5	4.5	4.5	5.8	10.5	9.0
Sample Type				N	N	N	N	N	N	N	N	N
Analyte	Method	Units		T1AMF-SV001_OCT24	T1AMF-SV002_OCT24	T1AMF-SV003_OCT24	T1AMF-SV004_OCT24	T1AMF-SV005B_OCT24	T1AMF-SV006_OCT24	T1AMF-SV09B_OCT24	T1AMF-SV010_OCT24	T1AMF-SV011_OCT24
1,1-Dichloroethene	TO15	µg/m^3	7,000	13 U	3.6 U	4.0 U	4.2 U	3.7 U	3.7 U	3.9 U	3.8 U	3.8 U
1,4-Dichlorobenzene	TO15	µg/m^3	8.5	19 U	5.4 U	6.1 U	6.3 U	5.6 U	5.6 U	5.9 U	5.7 U	5.7 U
Benzene	TO15	µg/m^3	12	10 U	0.61 J	3.2 U	1.6 J	3.0 U	3.0 U	3.1 U	3.0 U	3.0 U
cis-1,2-Dichloroethene	TO15	µg/m^3	1,400	9.4 J	3.6 U	4.0 U	4.2 U	3.7 U	3.7 U	3.9 U	3.8 U	3.8 U
Ethylbenzene	TO15	µg/m^3	37	14 U	3.9 U	4.4 U	4.6 U	4.0 U	4.0 U	4.2 U	4.1 U	4.1 U
m,p-Xylene	TO15	µg/m^3	3,500	14 U	4.1 J	4.4 U	4.3 J	4.0 U	4.0 U	1.8 J	4.1 U	4.1 U
o-Xylene	TO15	µg/m^3	3,500	14 U	1.7 J	4.4 U	1.8 J	4.0 U	4.0 U	4.2 U	4.1 U	4.1 U
Toluene	TO15	µg/m^3	170,000	12 U	3.9 J	3.8 U	9.6	3.5 U	1.0 J	1.6 J	3.6 U	1.2 J
trans-1,2-Dichloroethene	TO15	µg/m^3	1,400	13 U	3.6 U	4.0 U	4.2 U	3.7 U	3.7 U	3.9 U	3.8 U	3.8 U
Trichloroethene (TCE)	TO15	µg/m^3	16	**7,400**	1.2 J	5.4 U	5.6 U	**130**	5.7	3.1 J	5.1 U	5.1 U
Vinyl chloride	TO15	µg/m^3	5.6	8.2 U	2.3 U	2.6 U	2.7 U	2.4 U	2.4 U	2.5 U	2.4 U	2.4 U

Definitions:
bgs — below ground surface
ft — feet
µg/m^3 — micrograms per cubic meter

Qualifiers:
J — Estimated
U — Non-detect at the indicated Limit of Detection

Sample types:
N — Normal, or parent sample
FD — Field duplicate

Notes:
1 - see Table 5b for derivation of screening levels
Results in **bold** exceed the screening level
Results in grey are non-detect

Table 6b. Soil Vapor Analytical Results

Sample Location			Soil Vapor Screening Level [1]	SV-15B	SV-16	SV-17B	SV-18	SV-19	SV-20	SV-21	SV-22	SV-23
Sample Collection Date				10/28/2024	10/29/2024	10/23/2024	10/29/2024	10/28/2024	10/25/2024	10/25/2024	10/25/2024	10/25/2024
Sample Depth (ft bgs)				2.5	9.0	4.5	4.5	9.5	9.5	9.5	9.5	9.5
Sample Type				N	N	N	N	N	N	N	N	N
Analyte	Method	Units		T1AMF-SV015B_OCT24	T1AMF-SV016_OCT24	T1AMF-SV017B_OCT24	T1AMF-SV018_OCT24	T1AMF-SV019_OCT24	T1AMF-SV020_OCT24	T1AMF-SV021_OCT24	T1AMF-SV022_OCT24	T1AMF-SV023_OCT24
1,1-Dichloroethene	TO15	µg/m^3	7,000	3.8 U	3.6 U	3.7 U	3.8 U	3.6 U	3.9 U	27 U	16 U	3.4 U
1,4-Dichlorobenzene	TO15	µg/m^3	8.5	5.7 U	5.4 U	5.7 U	5.8 U	5.5 U	5.9 U	41 U	24 U	5.1 U
Benzene	TO15	µg/m^3	12	3.0 U	2.9 U	3.0 U	3.1 U	2.9 U	3.1 U	22 U	13 U	2.7 U
cis-1,2-Dichloroethene	TO15	µg/m^3	1,400	3.8 U	3.6 U	3.7 U	3.8 U	3.6 U	3.9 U	27 U	34	3.4 U
Ethylbenzene	TO15	µg/m^3	37	4.1 U	3.9 U	4.1 U	4.2 U	3.9 U	4.2 U	30 U	18 U	3.7 U
m,p-Xylene	TO15	µg/m^3	3,500	4.1 U	3.9 U	4.1 U	4.2 U	2.8 J	2.4 J	30 U	18 U	2.5 J
o-Xylene	TO15	µg/m^3	3,500	4.1 U	3.9 U	4.1 U	4.2 U	3.9 U	4.2 U	30 U	18 U	3.7 U
Toluene	TO15	µg/m^3	170,000	3.6 U	0.96 J	3.6 U	3.6 U	2.7 J	1.4 J	17 J	15 U	3.6 J
trans-1,2-Dichloroethene	TO15	µg/m^3	1,400	3.8 U	3.6 U	3.7 U	3.8 U	3.6 U	3.9 U	27 U	16 U	3.4 U
Trichloroethene (TCE)	TO15	µg/m^3	16	5.1 U	**210**	5.1 U	5.2 U	7.1	4.7 J	37 U	**8,800**	4.6 U
Vinyl chloride	TO15	µg/m^3	5.6	2.4 U	2.3 U	2.4 U	2.5 U	2.3 U	2.5 U	18 U	10 U	2.2 U

Definitions:
bgs — below ground surface
ft — feet
µg/m^3 — micrograms per cubic meter

Qualifiers:
J — Estimated
U — Non-detect at the indicated Limit of Detection

Sample types:
N — Normal, or parent sample
FD — Field duplicate

Notes:
1 - see Table 5b for derivation of screening levels
Results in **bold** exceed the screening level
Results in grey are non-detect

Table 6b. Soil Vapor Analytical Results

Sample Location			Soil Vapor Screening Level [1]	SV-23	SV-24	SV-25	SV-26	SV-26	SV-27	SV-28	SV-28	SV-29
Sample Collection Date				10/25/2024	10/24/2024	10/25/2024	10/24/2024	10/24/2024	10/23/2024	10/23/2024	10/23/2024	10/28/2024
Sample Depth (ft bgs)				9.5	8.75	8.5	5.0	5.0	10.5	11.0	11.0	8.0
Sample Type				FD	N	N	N	FD	N	N	FD	N
Analyte	Method	Units		T1AMF-SV023_OCT24_FD	T1AMF-SV024_OCT24	T1AMF-SV025_OCT24	T1AMF-SV026_OCT24	T1AMF-SV026_OCT24_FD	T1AMF-SV027_OCT24	T1AMF-SV028_OCT24	T1AMF-SV028_OCT24_FD	T1AMF-SV029_OCT24
1,1-Dichloroethene	TO15	µg/m^3	7,000	3.6 U	14 U	3.8 U	3.7 U	3.9 U	3.8 U	3.8 U	4.0 U	63 U
1,4-Dichlorobenzene	TO15	µg/m^3	8.5	5.4 U	21 U	5.8 U	5.6 U	5.9 U	5.8 U	5.8 U	6.1 U	96 U
Benzene	TO15	µg/m^3	12	2.9 U	11 U	3.1 U	3.0 U	0.72 J	3.1 U	**130**	**130**	51 U
cis-1,2-Dichloroethene	TO15	µg/m^3	1,400	3.6 U	5.0 J	3.8 U	3.7 U	3.9 U	3.8 U	3.8 U	4.0 U	63 U
Ethylbenzene	TO15	µg/m^3	37	3.9 U	15 U	4.2 U	4.0 U	4.3 U	4.2 U	16	16	69 U
m,p-Xylene	TO15	µg/m^3	3,500	2.3 J	15 U	4.2 U	4.0 U	4.3 U	3.7 J	30	30	69 U
o-Xylene	TO15	µg/m^3	3,500	3.9 U	15 U	4.2 U	4.0 U	4.3 U	4.2 U	5.7	5.6	69 U
Toluene	TO15	µg/m^3	170,000	3.4 J	13 U	1.2 J	3.5 U	3.7 U	5.4 J	3.6 J	3.7 J	15 J
trans-1,2-Dichloroethene	TO15	µg/m^3	1,400	3.6 U	14 U	3.8 U	3.7 U	3.9 U	3.8 U	3.8 U	4.0 U	63 U
Trichloroethene (TCE)	TO15	µg/m^3	16	4.8 U	**8,400**	2.5 J	**800**	**790**	5.2 U	5.2 U	5.5 U	86 U
Vinyl chloride	TO15	µg/m^3	5.6	2.3 U	8.8 U	2.4 U	2.4 U	2.5 U	2.5 U	2.5 U	2.6 U	41 U

Definitions:
bgs — below ground surface
ft — feet
µg/m^3 — micrograms per cubic meter

Qualifiers:
J — Estimated
U — Non-detect at the indicated Limit of Detection

Sample types:
N — Normal, or parent sample
FD — Field duplicate

Notes:
1 - see Table 5 for derivation of screening levels
Results in **bold** exceed the screening level
Results in grey are non-detect

Table 6b. Soil Vapor Analytical Results

Sample Location			Soil Vapor Screening Level [1]	SV-30	SV-31	SV-32A	SV-32B	SV-33	SV-34	SV-35	SV-35
Sample Collection Date				10/28/2024	10/23/2024	10/24/2024	10/24/2024	10/24/2024	10/25/2024	10/24/2024	10/24/2024
Sample Depth (ft bgs)				7.5	9.5	5	9.5	9.5	9.5	9.5	9.5
Sample Type				N	N	N	N	N	N	N	FD
Analyte	Method	Units		T1AMF-SV030_OCT24	T1AMF-SV031_OCT24	T1AMF-SV032a_OCT24	T1AMF-SV032b_OCT24	T1AMF-SV033_OCT24	T1AMF-SV034_OCT24	T1AMF-SV035_OCT24	T1AMF-SV035_OCT24_FD
1,1-Dichloroethene	TO15	µg/m^3	7,000	4.0 U	44 U	6.3 U	20.0 U	3.8 U	3.7 U	4.4 U	4.0 U
1,4-Dichlorobenzene	TO15	µg/m^3	8.5	6.1 U	67 U	9.6 U	31.0 U	5.8 U	5.6 U	6.7 U	6.1 U
Benzene	TO15	µg/m^3	12	4.8	36 U	11 J	11 J	0.69 J	1.6 J	2.2 J	1.8 J
cis-1,2-Dichloroethene	TO15	µg/m^3	1,400	4.0 U	44 U	6.3 U	20.0 U	3.8 U	3.7 U	4.4 U	4.0 U
Ethylbenzene	TO15	µg/m^3	37	6.1	48 U	6.9 U	22.0 U	4.2 U	1.7 J	4.8 U	4.4 U
m,p-Xylene	TO15	µg/m^3	3,500	21	48 U	6.9 U	22.0 U	2.1 J	5.6 J	4.8 U	4.4 U
o-Xylene	TO15	µg/m^3	3,500	6.1	48 U	6.9 U	22.0 U	4.2 U	2.2 J	4.8 U	4.4 U
Toluene	TO15	µg/m^3	170,000	12	12 J	3.6 J	19.0 U	2.4 J	9.1	1.3 J	1.4 J
trans-1,2-Dichloroethene	TO15	µg/m^3	1,400	4.0 U	44 U	6.3 U	20.0 U	3.8 U	3.7 U	4.4 U	4.0 U
Trichloroethene (TCE)	TO15	µg/m^3	16	5.5 U	60 U	**3,500**	28.0 U	8.4	**58**	**1,800**	**1,800**
Vinyl chloride	TO15	µg/m^3	5.6	2.6 U	28 U	4.1 U	13.0 U	2.5 U	2.4 U	2.8 U	2.6 U

Definitions:
bgs — below ground surface
ft — feet
µg/m^3 — micrograms per cubic meter

Qualifiers:
J — Estimated
U — Non-detect at the indicated Limit of Detection

Sample types:
N — Normal, or parent sample
FD — Field duplicate

Notes:
1 - see Table 5 for derivation of screening levels
Results in **bold** exceed the screening level
Results in grey are non-detect

Table 7a. Historical Groundwater Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloro-ethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			CA MCL	6.0	5.0	1.0	6.0	300	1750	1750	150	10	5.0	0.50
			USEPA Tapwater RSL	280	0.48	0.46	25	1.5	190	190	1100	68	0.49	0.019
			Sample Date											
EW-1	EW1NS-191219	NS	12/19/2019	0.15 UJ	0.15 UJ	0.070 UJ	**12 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	0.15 UJ	**420 J-**	0.017 UJ
EW-1	EW1NS-200619	NS	06/19/2020	0.070 U	0.15 U	0.070 U	**11**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**370**	0.15 U
EW-1	EW1NS-200813	NS	08/13/2020	0.070 U	0.15 U	0.070 U	**12**	0.070 U	**0.12 J**	0.35 U	**0.052 J**	**0.050 J**	**380**	0.015 U
EW-1	EW1NS-201112	NS	11/12/2020	0.070 U	0.15 U	**0.040 J**	**16**	0.20 U	**0.29 J**	0.35 U	0.26 U	0.070 U	**520 J-**	0.015 U
EW-1	EW1NS-210218	NS	02/18/2021	**0.057 J**	0.15 U	0.070 U	**13**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**510**	0.015 U
EW-1	EW1NS-210513	NS	05/13/2021	0.070 U	0.15 U	0.070 U	**13**	0.070 U	0.25 U	0.35 U	0.15 U	**0.047 J**	**440**	0.015 U
EW-1	EW1NS-210819	NS	08/19/2021	0.070 U	0.15 U	0.070 U	**15**	0.070 U	0.25 U	0.35 U	0.15 U	**0.057 J**	**540 J-**	0.015 U
EW-1	EW1NS-211203	NS	12/03/2021	0.070 U	0.15 U	0.070 U	**16**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**430**	0.015 U
EW-1	EW1NS-220217	NS	02/17/2022	3.5 U	7.5 U	3.5 U	13 U	3.5 U	13 U	18 U	7.5 U	3.5 U	**530**	0.75 U
EW-1	EW1NS-220801	PNC	08/01/2022	--	--	--	--	--	--	--	--	--	--	--
EW-1	EW1-221024	PNC	10/24/2022	--	--	--	--	--	--	--	--	--	--	--
EW-1	EW1-221222	PNC	12/22/2022	--	--	--	--	--	--	--	--	--	--	--
EW-1	EW1NS-230301	NS	03/01/2023	0.070 U	0.15 U	0.070 U	**16**	0.070 U	0.25 U	0.35 U	0.15 U	**0.075 J**	**450**	0.090 U
EW-1	T1AMF-EW001-MAY24	NS	05/29/2024	0.20 U	0.20 U	0.20 U	**11**	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**320**	0.30 U
EW-1	T1AMF-EW01_OCT24	NS	10/24/2024	0.20 U	0.20 U	0.20 U	**18**	0.20 U	0.50 U	0.20 UJ	0.20 U	0.20 U	**450**	0.30 U
MW-11	MW11NS-191218	NS	12/18/2019	0.15 UJ	**0.18 J-**	0.070 UJ	**1.1 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	**0.15 J-**	**9.0 J-**	0.017 UJ
MW-11	MW11NS-200617	NS	06/17/2020	**0.072 J**	**0.15 J**	0.070 U	**1.3**	0.070 U	0.25 U	0.35 U	0.15 U	**0.25 J+**	**8.0**	0.015 U
MW-11	MW11NS-200812	NS	08/12/2020	**0.035 J**	**0.11 J**	0.070 U	**0.80**	0.070 U	0.25 U	0.35 U	0.15 U	**0.32**	**8.8**	0.015 U
MW-11	MW11DS-200812	FD	08/12/2020	0.070 U	**0.14 J**	0.070 U	**0.83**	0.070 U	0.25 U	0.35 U	0.15 U	**0.35**	**8.7**	0.015 U
MW-11	MW11NS-201111	NS	11/11/2020	0.070 U	0.15 U	0.070 U	**1.0 J+**	0.070 U	0.25 U	0.35 U	0.15 U	**0.23 J+**	**8.1 J+**	0.015 U
MW-11	MW11NS-210217	NS	02/17/2021	**0.050 J**	**0.24 J**	0.070 U	**0.64**	0.070 U	0.25 U	0.35 U	0.15 U	**0.065 J**	**6.3**	0.015 U
MW-11	MW11NS-210511	NS	05/11/2021	0.070 U	**0.23 J**	0.070 U	**0.61**	0.070 U	0.25 U	0.35 U	0.15 U	**0.055 J**	**5.5**	0.015 U
MW-11	MW11NS-210817	NS	08/17/2021	0.070 U	0.15 U	0.070 U	**0.58**	0.070 U	0.25 U	0.35 U	0.15 U	**0.092 J**	**6.0**	0.015 UJ
MW-11	MW11NS-211201	NS	12/01/2021	0.070 U	0.15 U	**0.059 J**	**0.32**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**4.6**	0.015 U
MW-11	MW11NS-220215	NS	02/15/2022	0.070 U	**0.34**	0.070 U	**0.34 J+**	0.20 U	0.25 U	**0.15 J**	0.15 U	0.070 U	**5.2 J+**	0.015 U
MW-11	MW11NS-220803	NS	08/03/2022	0.070 U	0.15 U	0.070 U	**0.29**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**3.8**	0.015 U
MW-11	MW11NS-221026	NS	10/26/2022	**0.058 J**	**0.25 J**	0.070 U	**0.37**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**4.3**	**0.046 J**
MW-11	MW11DS-221026	FD	10/26/2022	**0.060 J**	**0.21 J**	0.070 U	**0.41**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**4.0**	**0.014 J**
MW-11	MW11NS-221222	NS	12/22/2022	**0.048 J**	**0.17 J**	**0.030 J**	**0.35**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**4.2**	0.090 U
MW-11	MW11NS-230223	NS	02/23/2023	0.070 U	**0.11 J**	0.070 U	0.42 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**4.7**	0.090 U
MW-11	T1AMF-MW011-MAY24	NS	05/30/2024	0.20 U	0.20 U	0.20 U	**0.62 J**	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**5.4**	0.30 U
MW-11	T1AMF-MW011_OCT24	NS	10/23/2024	0.20 U	0.20 U	0.20 U	**1.1**	0.20 U	0.50 U	0.20 UJ	0.20 U	0.20 U	**9.1**	0.30 U

Table 7a. Historical Groundwater Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloro-ethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			CA MCL	6.0	5.0	1.0	6.0	300	1750	1750	150	10	5.0	0.50
			USEPA Tapwater RSL	280	0.48	0.46	25	1.5	190	190	1100	68	0.49	0.019
			Sample Date											
MW-16	MW16NS-191218	NS	12/18/2019	**0.15 J-**	**0.50 J-**	0.070 UJ	**1.2 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	**0.23 J-**	**6.1 J-**	**0.026 J-**
MW-16	MW16DS-191218	FD	12/18/2019	**0.14 J-**	**0.45 J-**	0.070 UJ	**1.2 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	**0.21 J-**	**5.9 J-**	**0.022 J-**
MW-16	MW16NS-200617	NS	06/17/2020	**0.12 J**	**0.18 J**	0.070 U	**1.3**	0.070 U	0.25 U	0.35 U	0.15 U	**0.16 J+**	**6.4**	0.015 U
MW-16	MW16NS-200812	NS	08/12/2020	**0.17 J**	**0.26 J**	0.070 U	**0.99**	0.070 U	0.25 U	0.35 U	0.15 U	**0.36**	**6.8**	**0.052**
MW-16	MW16NS-201110	NS	11/10/2020	**0.26**	**0.51**	0.070 U	**1.9**	0.070 U	0.25 U	0.35 U	0.15 U	**0.50**	**8.2**	**0.12**
MW-16	MW16NS-210217	NS	02/17/2021	**0.28**	0.15 U	0.070 U	**1.8**	0.070 U	0.25 U	0.35 U	0.15 U	**0.34**	**7.1**	**0.040**
MW-16	MW16DS-210217	FD	02/17/2021	**0.30**	**0.51 J**	0.070 U	**1.8**	0.070 U	0.25 U	0.35 U	0.15 U	**0.36**	**7.2**	**0.052**
MW-16	MW16NS-210512	NS	05/12/2021	**0.13 J**	**0.34**	0.070 U	**1.6**	0.070 U	0.25 U	0.35 U	0.15 U	**0.21**	**6.3**	**0.027**
MW-16	MW16DS-210512	FD	05/12/2021	**0.13 J**	0.15 U	0.070 U	**1.5**	0.070 U	0.25 U	0.35 U	0.15 U	**0.22**	**6.4**	0.015 U
MW-16	MW16NS-210818	NS	08/18/2021	**0.35 J+**	0.15 U	0.070 U	**2.3 J+**	0.070 U	0.25 U	0.35 U	0.15 U	**0.80 J+**	**8.2 J+**	**0.11 J**
MW-16	MW16DS-210818	FD	08/18/2021	**0.33**	0.15 U	0.070 U	**2.0**	0.070 U	0.25 U	0.35 U	0.15 U	**0.70**	**8.6**	**0.093 J**
MW-16	MW16NS-211201	NS	12/01/2021	**0.27**	**0.38**	**0.040 J**	**3.2**	0.070 U	0.25 U	0.35 U	0.15 U	**0.60**	**6.4**	**0.24**
MW-16	MW16NS-220216	NS	02/16/2022	**0.21**	**0.45**	**0.040 J**	**1.6**	0.070 U	0.25 U	0.35 U	0.15 U	**0.24**	**7.0**	0.015 U
MW-16	MW16NS-220802	NS	08/02/2022	**0.12 J**	0.15 U	0.070 U	**1.0**	0.070 U	0.25 U	0.35 U	0.15 U	**0.14 J**	**3.4 J+**	0.015 U
MW-16	MW16DS-220802	FD	08/02/2022	**0.11 J**	**0.24 J**	0.070 U	**0.87**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**3.9**	0.015 U
MW-16	MW16NS-221026	NS	10/26/2022	**0.27**	0.15 U	0.070 U	**1.8**	0.070 U	0.25 U	0.35 U	0.15 U	**0.40**	**6.5**	**0.088**
MW-16	MW16NS-221222	NS	12/22/2022	**0.30**	0.15 U	0.070 U	**2.0**	0.070 U	0.25 U	0.35 U	0.15 U	**0.49**	**6.8**	**0.11**
MW-16	MW16DS-221222	FD	12/22/2022	**0.33**	**0.46 J**	0.070 U	**2.0**	0.070 U	0.25 U	0.35 U	0.15 U	**0.48**	**7.0**	**0.079 J**
MW-16	MW16NS-230223	NS	02/23/2023	**0.16 J**	**0.37**	0.070 U	**1.6**	0.070 U	0.25 U	0.35 U	0.15 U	**0.17 J**	**4.8**	**0.054 J**
MW-16	T1AMF-MW016-MAY24	NS	05/30/2024	0.20 U	0.20 U	0.20 U	**0.60 J**	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**2.9**	0.30 U
MW-16	T1AMF-MW016-MAY24_FD	FD	05/30/2024	0.20 U	0.20 U	0.20 U	**0.63 J**	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**2.8**	0.30 U
MW-16	T1AMF-MW016_OCT24	NS	10/23/2024	0.20 U	**0.24 J**	0.20 U	**1.1**	0.20 U	0.50 U	0.20 UJ	0.20 U	**0.15 J**	**4.8**	0.30 U
MW-16	T1AMF-MW016_OCT24_FD	FD	10/23/2024	0.20 U	**0.16 J**	0.20 U	**1.0**	0.20 U	0.50 U	0.20 UJ	0.20 U	**0.15 J**	**4.0**	0.30 U
MW-17	MW17NS-191218	NS	12/18/2019	0.15 UJ	0.15 UJ	0.070 UJ	**0.19 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	0.15 UJ	**4.3 J-**	0.017 UJ
MW-17	MW17NS-200617	NS	06/17/2020	0.070 U	0.15 U	0.070 U	**0.22**	0.070 U	0.25 U	0.35 U	0.15 U	**0.10 J+**	**5.0**	0.015 U
MW-17	MW17DS-200617	FD	06/17/2020	0.070 U	0.15 U	0.070 U	**0.24**	0.070 U	0.25 U	0.35 U	0.15 U	**0.083 J+**	**4.9**	0.015 U
MW-17	MW17NS-200812	NS	08/12/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	**0.075 J**	**4.6**	0.015 U
MW-17	MW17NS-201110	NS	11/10/2020	0.070 U	0.15 U	0.070 U	**0.18 J**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**4.9**	0.015 U
MW-17	MW17NS-210217	NS	02/17/2021	0.070 U	0.15 U	0.070 U	**0.19 J**	**0.031 J**	0.25 U	0.35 U	0.15 U	**0.040 J**	**4.0**	0.015 U
MW-17	MW17NS-210511	NS	05/11/2021	0.070 U	0.15 U	0.070 U	**0.18 J**	0.070 U	0.25 U	0.35 U	0.15 U	**0.060 J**	**3.7**	0.015 U
MW-17	MW17NS-210817	NS	08/17/2021	0.070 U	0.15 U	0.070 U	**0.16 J**	0.070 U	0.25 U	**0.15 J**	0.15 U	**0.069 J**	**4.7**	0.015 U
MW-17	MW17NS-211201	NS	12/01/2021	0.070 U	0.15 U	0.070 U	**0.064 J**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**4.9**	0.015 U
MW-17	MW17NS-220216	NS	02/16/2022	0.070 U	0.15 U	0.070 U	**0.095 J**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**5.9**	0.015 U
MW-17	MW17NS-220803	NS	08/03/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**6.8**	0.015 U
MW-17	MW17NS-221026	NS	10/26/2022	0.070 U	0.15 U	0.070 U	**0.28**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**9.0**	0.015 U

Table 7a. Historical Groundwater Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloro-ethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			CA MCL	6.0	5.0	1.0	6.0	300	1750	1750	150	10	5.0	0.50
			USEPA Tapwater RSL	280	0.48	0.46	25	1.5	190	190	1100	68	0.49	0.019
			Sample Date											
MW-17	MW17NS-221222	NS	12/22/2022	0.070 U	0.15 U	0.070 U	**0.26**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**8.7**	0.090 U
MW-17	MW17NS-230223	NS	02/23/2023	0.070 U	0.15 U	0.070 U	0.29 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**9.0**	0.090 U
MW-17	MW17DS-230223	FD	02/23/2023	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**10**	0.090 U
MW-17	T1AMF-MW017-MAY24	NS	05/30/2024	0.20 U	0.20 U	0.20 U	**0.19 J**	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**3.9**	0.30 U
MW-18	MW18NS-191217	NS	12/17/2019	0.15 UJ	0.15 UJ	0.070 UJ	0.15 UJ	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	0.15 UJ	0.15 UJ	0.017 UJ
MW-18	MW18NS-200616	NS	06/16/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 UJ
MW-18	MW18NS-200810	NS	08/10/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-18	MW18NS-201110	NS	11/10/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-18	MW18NS-210215	NS	02/15/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-18	MW18NS-210510	NS	05/10/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-18	MW18DS-210510	FD	05/10/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-18	MW18NS-210816	NS	08/16/2021	0.070 U	0.15 U	**0.032 J**	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-18	MW18DS-210816	FD	08/16/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-18	MW18NS-211129	NS	11/29/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-18	MW18NS-220214	NS	02/14/2022	0.070 UJ	0.15 UJ	0.070 UJ	0.15 UJ	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	0.070 UJ	0.15 UJ	0.015 UJ
MW-18	MW18DS-220214	FD	02/14/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.20 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 UJ
MW-18	MW18NS-220802	NS	08/02/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-18	MW18NS-221024	NS	10/24/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-18	MW18DS-221024	FD	10/24/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-18	MW18NS-221220	NS	12/20/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.090 U
MW-18	MW18NS-230222	NS	02/22/2023	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.090 U
MW-19	MW19NS-191217	NS	12/17/2019	0.15 UJ	0.15 UJ	0.070 UJ	0.15 UJ	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	0.15 UJ	**1.6 J-**	0.017 UJ
MW-19	MW19NS-200616	NS	06/16/2020	0.070 U	0.15 U	0.070 U	**0.35**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.14 J**	0.015 UJ
MW-19	MW19NS-200811	NS	08/11/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**1.2**	0.015 U
MW-19	MW19NS-201111	NS	11/11/2020	0.070 U	0.15 U	0.070 U	**0.16 J**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**1.6**	0.015 U
MW-19	MW19NS-210215	NS	02/15/2021	0.070 U	0.15 U	0.070 U	**0.076 J**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.90**	0.015 U
MW-19	MW19NS-210511	NS	05/11/2021	0.070 U	0.15 U	0.070 U	**0.35**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.28**	0.015 U
MW-19	MW19NS-210817	NS	08/17/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	**0.15 J**	0.15 U	0.070 U	**2.1**	0.015 U
MW-19	MW19NS-211130	NS	11/30/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**2.2**	0.015 U
MW-19	MW19NS-220215	NS	02/15/2022	0.070 U	0.15 U	0.070 U	**0.18 J**	0.20 U	0.25 U	**0.15 J**	0.15 U	0.070 U	**1.7**	0.015 U
MW-19	MW19NS-220801	NS	08/01/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**1.2**	0.015 U
MW-19	MW19NS-221025	NS	10/25/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**2.8**	0.015 U
MW-19	MW19NS-221220	NS	12/20/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**2.8**	0.090 U
MW-19	MW19NS-230221	NS	02/21/2023	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**2.2**	0.090 U
MW-19	T1AMF-MW019-MAY24	NS	05/28/2024	0.20 U	0.20 U	0.20 U	**0.31 J**	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**0.35 J**	0.30 U
MW-19	T1AMF-MW019_OCT24	NS	10/23/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 UJ	0.20 U	0.20 U	**4.1**	0.30 U

Table 7a. Historical Groundwater Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloro-ethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			CA MCL	6.0	5.0	1.0	6.0	300	1750	1750	150	10	5.0	0.50
			USEPA Tapwater RSL	280	0.48	0.46	25	1.5	190	190	1100	68	0.49	0.019
			Sample Date											
MW-22	MW22NS-191218	NS	12/18/2019	0.15 UJ	0.15 UJ	0.070 UJ	**0.94 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	0.15 UJ	**53 J-**	0.017 UJ
MW-22	MW22NS-200619	NS	06/19/2020	0.070 U	0.15 U	0.070 U	**0.88**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**49**	0.015 U
MW-22	MW22NS-200811	NS	08/11/2020	0.070 U	0.15 U	0.070 U	**0.44**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**47**	0.015 U
MW-22	MW22NS-201110	NS	11/10/2020	0.070 U	0.15 U	0.070 U	**0.64**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**41**	0.015 U
MW-22	MW22NS-210218	NS	02/18/2021	0.070 U	0.15 U	0.070 U	**0.60**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**40**	0.015 U
MW-22	MW22NS-210513	NS	05/13/2021	0.070 U	0.15 U	0.070 U	**0.56**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**27**	0.015 U
MW-22	MW22NS-210817	NS	08/17/2021	0.070 U	0.15 U	0.070 U	**0.41**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**28**	0.015 U
MW-22	MW22NS-211202	NS	12/02/2021	0.070 U	0.15 U	**0.21**	**0.30**	**0.036 J**	0.25 U	0.35 U	**0.44**	0.070 U	**19**	0.015 U
MW-22	MW22NS-220216	NS	02/16/2022	0.070 U	0.15 U	0.070 U	**0.30**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**24**	0.015 U
MW-22	MW22NS-220803	NS	08/03/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**11**	0.015 U
MW-22	MW22NS-221025	NS	10/25/2022	0.070 U	0.15 U	0.070 U	**0.26 J**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**17**	0.015 U
MW-22	MW22NS-221221	NS	12/21/2022	0.070 U	0.15 U	0.070 U	**0.29**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**15**	0.090 U
MW-22	MW22NS-230224	NS	02/24/2023	0.070 U	0.15 U	0.070 U	**0.20**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**12**	0.090 U
MW-22	MW22DS-230224	FD	02/24/2023	0.070 U	0.15 U	0.070 U	**0.21**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**12**	0.090 U
MW-22	T1AMF-MW022-MAY24	NS	05/28/2024	0.20 U	0.20 U	0.20 U	**0.97 J**	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**43**	0.30 U
MW-22	T1AMF-MW022_OCT24	NS	10/24/2024	0.20 U	0.20 U	0.20 U	**2.2 J+**	0.20 U	0.50 U	0.20 UJ	0.20 U	0.20 U	**89 J+**	0.30 U
MW-29	MW29NS-191219	NS	12/19/2019	0.15 UJ	0.15 UJ	0.070 UJ	**3.7 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	0.15 UJ	**78 J-**	0.017 UJ
MW-29	MW29NS-200618	NS	06/18/2020	0.070 U	0.15 U	0.070 U	**4.0**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**67**	0.015 U
MW-29	MW29NS-200812	NS	08/12/2020	0.070 U	0.15 U	0.070 U	**3.9**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**7.2**	0.015 U
MW-29	MW29NS-201111	NS	11/11/2020	0.070 U	0.15 U	0.070 U	**3.7**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**69**	0.015 U
MW-29	MW29NS-210217	NS	02/17/2021	0.070 U	0.15 U	0.070 U	**2.1**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**64**	0.015 U
MW-29	MW29NS-210512	NS	05/12/2021	0.070 U	0.15 U	0.070 U	**2.5**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**58**	0.015 U
MW-29	MW29DS-210512	FD	05/12/2021	0.070 U	0.15 U	0.070 U	**2.5**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**59**	0.015 U
MW-29	MW29NS-210818	NS	08/18/2021	0.28 U	0.60 U	0.28 U	**2.0**	0.28 U	1.0 U	1.4 U	0.60 U	0.28 U	**66**	0.060 U
MW-29	MW29DS-210818	FD	08/18/2021	0.070 U	0.15 U	0.070 U	**2.1**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**70**	0.015 UJ
MW-29	MW29NS-211203	NS	12/03/2021	0.070 U	0.15 U	0.070 U	**1.4**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**53**	0.015 U
MW-29	MW29NS-220216	NS	02/16/2022	0.70 U	1.5 U	**0.34 J**	**1.7 J**	0.70 U	2.5 U	3.5 U	1.5 U	0.70 U	**65**	0.15 U
MW-29	MW29NS-220803	NS	08/03/2022	0.070 U	0.15 U	0.070 U	**1.8 J+**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**35 J+**	0.015 U
MW-29	MW29NS-221027	NS	10/27/2022	0.35 U	0.75 U	0.35 U	**1.7**	0.35 U	1.3 U	1.8 U	0.75 U	0.35 U	**68**	0.075 U
MW-29	MW29NS-221222	NS	12/22/2022	0.35 U	0.75 U	0.35 U	**1.3**	0.35 U	1.3 U	1.8 U	0.75 U	0.35 U	**63**	0.45 U
MW-29	MW29NS-230228	NS	02/28/2023	0.35 U	0.75 U	0.35 U	**1.4**	**0.32 J**	1.3 U	1.8 U	0.75 U	0.35 U	**52**	0.45 U
MW-29	T1AMF-MW029-MAY24	NS	05/30/2024	0.20 U	0.20 U	0.20 U	**1.3**	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**33**	0.30 U
MW-29	T1AMF-MW029_OCT24	NS	10/24/2024	0.20 U	0.20 U	0.20 U	**1.9**	0.20 U	0.50 U	0.20 UJ	0.20 U	0.20 U	**47**	0.30 U

Table 7a. Historical Groundwater Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloro-ethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			CA MCL	6.0	5.0	1.0	6.0	300	1750	1750	150	10	5.0	0.50
			USEPA Tapwater RSL	280	0.48	0.46	25	1.5	190	190	1100	68	0.49	0.019
			Sample Date											
MW-30	MW30NS-191217	NS	12/17/2019	0.15 UJ	0.15 UJ	0.070 UJ	0.15 UJ	0.070 UJ	0.25 UJ	0.35 UJ	**0.056 J-**	0.15 UJ	0.15 UJ	0.017 UJ
MW-30	MW30NS-200615	NS	06/15/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 UJ
MW-30	MW30NS-200811	NS	08/11/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-30	MW30DS-200811	FD	08/11/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-30	MW30NS-201109	NS	11/09/2020	0.070 U	0.15 UJ	0.070 U	0.15 UJ	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	0.070 U	0.15 UJ	0.015 U
MW-30	MW30DS-201109	FD	11/09/2020	0.070 U	0.15 U	**0.030 J**	0.15 U	0.070 U	0.25 U	0.35 U	**0.054 J**	0.070 U	0.15 U	0.015 U
MW-30	MW30NS-210215	NS	02/15/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-30	MW30NS-210510	NS	05/10/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-30	MW30NS-210818	NS	08/18/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-30	MW30NS-211129	NS	11/29/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-30	MW30DS-211129	FD	11/29/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-30	MW30NS-220215	NS	02/15/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.20 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-30	MW30NS-220802	NS	08/02/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-30	MW30DS-220802	FD	08/02/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-30	MW30NS-221024	NS	10/24/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-30	MW30NS-221219	NS	12/19/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.090 U
MW-30	MW30DS-221219	FD	12/19/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.090 U
MW-30	MW30NS-230222	NS	02/22/2023	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.090 U
MW-30	T1AMF-MW030-MAY24	NS	05/30/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U
MW-30	T1AMF-MW030-MAY24_FD	FD	05/30/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U
MW-30	T1AMF-MW030_OCT24	NS	10/22/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U
MW-30	T1AMF-MW030_OCT24_FD	FD	10/22/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U
MW-31	MW31NS-191217	NS	12/17/2019	0.15 UJ	0.15 UJ	0.070 UJ	0.15 UJ	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	0.15 UJ	0.15 UJ	0.017 UJ
MW-31	MW31NS-200616	NS	06/16/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 UJ
MW-31	MW31NS-200811	NS	08/11/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-31	MW31NS-201109	NS	11/09/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-31	MW31NS-210216	NS	02/16/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-31	MW31NS-210510	NS	05/10/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-31	MW31NS-210817	NS	08/17/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-31	MW31NS-211130	NS	11/30/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-31	MW31NS-220214	NS	02/14/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.20 U	0.25 U	**0.15 J**	0.15 U	0.070 U	0.15 U	0.015 UJ
MW-31	MW31NS-220802	NS	08/02/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-31	MW31NS-221024	NS	10/24/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-31	MW31NS-221219	NS	12/19/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.090 U
MW-31	MW31NS-230222	NS	02/22/2023	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.090 U

Table 7a. Historical Groundwater Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloro-ethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			CA MCL	6.0	5.0	1.0	6.0	300	1750	1750	150	10	5.0	0.50
			USEPA Tapwater RSL	280	0.48	0.46	25	1.5	190	190	1100	68	0.49	0.019
			Sample Date											
MW-32	MW32NS-191216	NS	12/16/2019	0.15 UJ	0.15 UJ	0.070 UJ	0.15 UJ	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	0.15 UJ	0.15 UJ	0.017 UJ
MW-32	MW32NS-200616	NS	06/16/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 UJ
MW-32	MW32NS-200811	NS	08/11/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	**0.12 J**	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-32	MW32NS-201109	NS	11/09/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-32	MW32NS-210216	NS	02/16/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-32	MW32DS-210216	FD	02/16/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-32	MW32NS-210510	NS	05/10/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-32	MW32NS-210817	NS	08/17/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	**0.15 J**	0.15 U	0.070 U	0.15 U	0.015 U
MW-32	MW32NS-211130	NS	11/30/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-32	MW32NS-220214	NS	02/14/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.20 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 UJ
MW-32	MW32NS-220802	NS	08/02/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-32	MW32NS-221024	NS	10/24/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-32	MW32NS-221219	NS	12/19/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.090 U
MW-32	MW32NS-230222	NS	02/22/2023	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.090 U
MW-33	MW33NS-191216	NS	12/16/2019	0.15 UJ	0.15 UJ	0.070 UJ	0.15 UJ	0.070 UJ	0.25 UJ	0.35 UJ	**0.058 J-**	0.15 UJ	0.15 UJ	0.017 UJ
MW-33	MW33DS-191216	FD	12/16/2019	0.15 UJ	0.15 UJ	0.070 UJ	0.15 UJ	0.070 UJ	0.25 UJ	0.35 UJ	**0.053 J-**	0.15 UJ	0.15 UJ	0.017 UJ
MW-33	MW33NS-200616	NS	06/16/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 UJ
MW-33	MW33DS-200616	FD	06/16/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 UJ
MW-33	MW33NS-200810	NS	08/10/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-33	MW33NS-201110	NS	11/10/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-33	MW33NS-210216	NS	02/16/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-33	MW33NS-210511	NS	05/11/2021	0.070 U	0.15 U	0.070 U	**0.38**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.19 J**	0.015 U
MW-33	MW33NS-210816	NS	08/16/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-33	MW33NS-211129	NS	11/29/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-33	MW33NS-220214	NS	02/14/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.20 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 UJ
MW-33	MW33NS-220802	NS	08/02/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-33	MW33NS-221025	NS	10/25/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-33	MW33NS-221220	NS	12/20/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.090 U
MW-33	MW33NS-230222	NS	02/22/2023	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.090 U
MW-34	MW34NS-191217	NS	12/17/2019	0.15 UJ	0.15 UJ	0.070 UJ	0.15 UJ	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	0.15 UJ	0.15 UJ	0.017 UJ
MW-34	MW34NS-200616	NS	06/16/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 UJ
MW-34	MW34NS-200810	NS	08/10/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-34	MW34NS-201110	NS	11/10/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-34	MW34DS-201110	FD	11/10/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-34	MW34NS-210215	NS	02/15/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-34	MW34NS-210510	NS	05/10/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-34	MW34NS-210816	NS	08/16/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U

Table 7a. Historical Groundwater Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloro-ethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			CA MCL	6.0	5.0	1.0	6.0	300	1750	1750	150	10	5.0	0.50
			USEPA Tapwater RSL	280	0.48	0.46	25	1.5	190	190	1100	68	0.49	0.019
			Sample Date											
MW-34	MW34NS-211129	NS	11/29/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-34	MW34DS-211129	FD	11/29/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-34	MW34NS-220214	NS	02/14/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.20 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 UJ
MW-34	MW34NS-220802	NS	08/02/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-34	MW34NS-221025	NS	10/25/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-34	MW34NS-221220	NS	12/20/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.090 U
MW-34	MW34NS-230222	NS	02/22/2023	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.090 U
MW-35	MW35NS-191219	NS	12/19/2019	0.15 UJ	0.15 UJ	0.070 UJ	**0.27 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	0.15 UJ	**13 J-**	0.017 UJ
MW-35	MW35NS-200619	NS	06/19/2020	0.070 U	0.15 U	0.070 U	**0.21**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**15**	0.015 U
MW-35	MW35NS-200812	NS	08/12/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**16**	0.015 U
MW-35	MW35NS-201110	NS	11/10/2020	0.070 U	0.15 U	0.24 U	**0.21**	0.20 UJ	0.25 UJ	0.35 U	0.15 U	0.070 U	**16**	0.015 U
MW-35	MW35NS-210216	PNC	02/16/2021	--	--	--	--	--	--	--	--	--	--	--
MW-35	MW35NS-210510	PNC	05/10/2021	--	--	--	--	--	--	--	--	--	--	--
MW-35	MW35NS-210816	PNC	08/16/2021	--	--	--	--	--	--	--	--	--	--	--
MW-35	MW35NS-211129	PNC	11/29/2021	--	--	--	--	--	--	--	--	--	--	--
MW-35	MW35NS-220214	PNC	02/14/2022	--	--	--	--	--	--	--	--	--	--	--
MW-35	MW35NS-220801	PNC	08/01/2022	--	--	--	--	--	--	--	--	--	--	--
MW-35	MW35-221024	PNC	10/24/2022	--	--	--	--	--	--	--	--	--	--	--
MW-35	MW35NS-221222	PNC	12/22/2022	--	--	--	--	--	--	--	--	--	--	--
MW-35	T1AMF-MW035_MAY24	NS	05/31/2024	0.20 U	0.20 U	0.20 U	**1.3**	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**6.2**	0.30 U
MW-35	T1AMF-MW035_MAY24_FD	FD	05/31/2024	0.20 U	0.20 U	0.20 U	**1.3**	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**6.0**	0.30 U
MW-42	MW42NS-200811	NS	08/11/2020	0.070 U	0.15 U	0.070 U	**0.37**	0.070 U	**0.12 J**	0.35 U	0.15 U	0.070 U	**24**	0.015 U
MW-42	MW42NS-201112	NS	11/12/2020	0.070 U	0.15 U	0.070 U	**0.99**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**23**	0.015 U
MW-42	MW42NS-210218	NS	02/18/2021	0.070 U	0.15 U	0.070 U	**0.60**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**37**	0.015 U
MW-42	MW42NS-210513	NS	05/13/2021	0.070 U	0.15 U	0.070 U	**0.77**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**33**	0.015 U
MW-42	MW42NS-210819	NS	08/19/2021	0.070 U	0.15 U	0.070 U	**0.67**	0.070 U	0.25 U	**0.16 J**	0.15 U	0.070 U	**40**	0.015 U
MW-42	MW42NS-211202	NS	12/02/2021	0.070 U	0.15 U	0.070 U	**0.57**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**38**	0.015 U
MW-42	MW42NS-220217	NS	02/17/2022	0.35 U	0.75 U	0.35 U	1.0 U	0.35 U	1.3 U	1.8 U	0.75 U	0.35 U	**41**	0.075 U
MW-42	MW42NS-220803	NS	08/03/2022	0.070 U	0.15 U	0.070 U	**0.56**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**24**	0.015 U
MW-42	MW42NS-221025	NS	10/25/2022	0.070 U	0.15 U	0.070 U	**0.83 J**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**42**	0.015 U
MW-42	MW42NS-221220	NS	12/20/2022	0.070 U	0.15 U	0.070 U	**0.91**	0.070 U	0.25 U	0.35 U	0.15 U	**0.039 J**	**37**	0.090 U
MW-42	MW42NS-230224	NS	02/24/2023	0.35 U	0.75 U	0.35 U	**1.1**	0.35 U	1.3 U	1.8 U	0.75 U	0.35 U	**40**	0.45 U
MW-42	T1AMF-MW042-MAY24	NS	05/28/2024	0.20 U	0.20 U	0.20 U	**1.0**	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**46**	0.30 U
MW-42	T1AMF-MW042_OCT24	NS	10/24/2024	0.20 U	0.20 U	0.20 U	**1.8**	0.20 U	0.50 U	0.20 UJ	0.20 U	0.20 U	**57**	0.30 U

Table 7a. Historical Groundwater Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloro-ethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			CA MCL	6.0	5.0	1.0	6.0	300	1750	1750	150	10	5.0	0.50
			USEPA Tapwater RSL	280	0.48	0.46	25	1.5	190	190	1100	68	0.49	0.019
			Sample Date											
MW-43	MW43NS-200811	NS	08/11/2020	**0.062 J**	0.15 U	0.070 U	**1.5**	0.070 U	0.25 U	0.35 U	0.15 U	**0.19 J**	**50**	0.015 U
MW-43	MW43NS-201112	NS	11/12/2020	**0.096 J**	0.15 U	**0.034 J**	**2.3**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**85**	0.015 U
MW-43	MW43NS-210218	NS	02/18/2021	0.70 U	1.5 U	0.70 U	**1.6 J**	0.70 U	2.5 U	3.5 U	1.5 U	0.70 U	**62**	0.15 U
MW-43	MW43NS-210513	NS	05/13/2021	**0.14 J**	0.15 U	0.070 U	**2.2**	0.070 U	0.25 U	0.35 U	0.15 U	**0.22**	**55**	0.030 U
MW-43	MW43NS-210819	NS	08/19/2021	**0.14 J**	0.15 U	0.070 U	**2.3**	0.070 U	0.25 U	**0.15 J**	0.15 U	**0.25**	**64 J-**	**0.072 J+**
MW-43	MW43NS-211202	NS	12/02/2021	0.70 U	1.5 U	0.70 U	**0.80 J**	0.70 U	2.5 U	3.5 U	**0.65 J**	0.70 U	**49**	0.15 U
MW-43	MW43NS-220217	NS	02/17/2022	0.35 U	0.75 U	0.35 U	**1.6**	0.35 U	1.3 U	1.8 U	0.75 U	0.35 U	**39**	0.075 U
MW-43	MW43NS-220803	NS	08/03/2022	**0.11 J**	0.15 U	0.070 U	**1.8**	0.070 U	0.25 U	0.35 U	0.15 U	**0.25**	**42**	0.015 U
MW-43	MW43NS-221025	NS	10/25/2022	0.35 U	0.75 U	0.35 U	**1.9 J**	0.35 U	1.3 U	1.8 U	0.75 U	0.35 U	**80**	0.075 U
MW-43	MW43NS-221221	NS	12/21/2022	0.35 U	0.75 U	0.35 U	**2.9**	0.35 U	1.3 U	1.8 U	0.75 U	**0.28 J**	**65**	0.45 UJ
MW-43	MW43NS-230224	NS	02/24/2023	0.35 U	0.75 U	0.35 U	**2.0**	0.35 U	1.3 U	1.8 U	0.75 U	**0.20 J**	**37**	0.45 U
MW-43	T1AMF-MW043-MAY24	NS	05/28/2024	**0.13 J**	0.20 U	0.20 U	**1.4**	0.20 U	0.50 U	0.20 U	0.20 U	**0.14 J**	**26**	0.30 U
MW-43	T1AMF-MW043_OCT24	NS	10/24/2024	0.20 U	0.20 U	0.20 U	**2.5**	0.20 U	0.50 U	0.20 UJ	0.20 U	**0.17 J**	**44**	0.30 U
MW-44	MW44NS-191218	NS	12/18/2019	0.15 UJ	0.15 UJ	0.070 UJ	**1.4 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	**0.13 J-**	**35 J-**	0.017 UJ
MW-44	MW44NS-200618	NS	06/18/2020	0.070 U	0.15 U	0.070 U	**2.0**	0.070 U	0.25 U	0.35 U	0.15 U	**0.16 J+**	**42**	0.015 U
MW-44	MW44NS-200812	NS	08/12/2020	0.070 U	0.15 U	0.070 U	**1.3**	0.070 U	0.25 U	0.35 U	0.15 U	**0.16 J**	**42**	0.015 U
MW-44	MW44NS-201110	NS	11/10/2020	0.070 U	0.15 U	0.21 U	**1.8**	0.20 UJ	0.25 UJ	0.35 U	0.15 U	**0.13 J**	**44**	0.015 U
MW-44	MW44NS-210217	NS	02/17/2021	0.070 U	0.15 U	0.070 U	**2.3**	0.070 U	0.25 U	0.35 U	0.15 U	**0.20**	**51**	0.015 U
MW-44	MW44NS-210512	NS	05/12/2021	0.070 U	0.15 U	0.070 U	**2.0**	0.070 U	0.25 U	0.35 U	0.15 U	**0.23**	**46**	0.015 U
MW-44	MW44NS-210818	NS	08/18/2021	0.28 U	0.60 U	0.28 U	**1.6**	0.28 U	1.0 U	1.4 U	0.60 U	**0.14 J**	**43**	0.060 U
MW-44	MW44NS-211202	NS	12/02/2021	0.70 U	1.5 U	0.70 U	**1.2 J**	**0.30 J**	2.5 U	3.5 U	**1.6 J**	0.70 U	**36**	0.15 U
MW-44	MW44NS-220216	NS	02/16/2022	0.35 U	0.75 U	0.35 U	**1.9**	0.35 U	1.3 U	1.8 U	0.75 U	**0.25 J**	**52**	0.075 U
MW-44	MW44NS-220803	NS	08/03/2022	0.070 U	0.15 U	0.070 U	**1.3**	0.070 U	0.25 U	0.35 U	0.15 U	**0.13 J**	**31**	0.015 U
MW-44	MW44NS-221026	NS	10/26/2022	0.070 U	0.15 U	0.070 U	**1.5**	0.070 U	0.25 U	0.35 U	0.15 U	**0.17 J**	**54**	0.015 U
MW-44	MW44NS-221221	NS	12/21/2022	0.070 U	0.15 U	0.070 U	**2.2**	0.070 U	0.25 U	0.35 U	0.15 U	**0.22**	**47**	0.090 U
MW-44	MW44NS-230224	NS	02/24/2023	0.35 U	0.75 U	0.35 U	**2.6**	0.35 U	1.3 U	1.8 U	0.75 U	**0.25 J**	**46**	0.45 U
MW-44	T1AMF-MW044-MAY24	NS	05/29/2024	0.20 U	0.20 U	0.20 U	**2.1**	0.20 U	0.50 U	0.20 U	0.20 U	**0.23 J**	**46**	0.30 U
MW-44	T1AMF-MW044_OCT24	NS	10/24/2024	0.20 U	0.20 U	0.20 U	**2.9**	0.20 U	0.50 U	0.20 UJ	0.20 U	**0.25 J**	**71 J-**	0.30 U
MW-45	MW45NS-191219	NS	12/19/2019	0.15 UJ	0.15 UJ	0.070 UJ	**6.6 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	**0.26 J-**	**350 J-**	**0.078 J-**
MW-45	MW45NS-200619	NS	06/19/2020	0.070 U	0.15 U	0.070 U	**6.6**	0.070 U	0.25 U	0.35 U	0.15 U	**0.27 J+**	**350**	0.15 U
MW-45	MW45NS-200812	NS	08/12/2020	0.070 U	0.15 U	0.070 U	**6.2**	0.070 U	0.25 U	0.35 U	0.15 U	**0.32**	**310**	0.015 U
MW-45	MW45NS-201110	NS	11/10/2020	0.070 U	0.15 U	0.070 U	**6.9**	0.070 U	0.25 U	0.35 U	0.15 U	**0.30**	**310**	0.015 U
MW-45	MW45NS-210218	NS	02/18/2021	0.070 U	0.15 U	0.070 U	**5.6**	0.070 U	0.25 U	0.35 U	0.15 U	**0.25**	**350**	**0.059 J**
MW-45	MW45DS-210218	FD	02/18/2021	0.070 U	0.15 U	0.070 U	**5.7**	0.070 U	0.25 U	0.35 U	0.15 U	**0.26**	**310**	0.015 U
MW-45	MW45NS-210513	NS	05/13/2021	0.070 U	0.15 U	0.070 U	**6.5**	0.070 U	0.25 U	0.35 U	0.15 U	**0.31**	**270**	**0.086**
MW-45	MW45NS-210819	NS	08/19/2021	0.070 U	0.15 U	0.070 U	**6.0**	0.070 U	0.25 U	**0.15 J**	0.15 U	**0.27**	**310 J-**	**0.069 J+**
MW-45	MW45NS-211203	NS	12/03/2021	0.070 U	0.15 U	0.070 U	**6.0**	0.070 U	0.25 U	0.35 U	0.15 U	**0.18 J**	**240**	**0.10**

Table 7a. Historical Groundwater Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloro-ethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			CA MCL	6.0	5.0	1.0	6.0	300	1750	1750	150	10	5.0	0.50
			USEPA Tapwater RSL	280	0.48	0.46	25	1.5	190	190	1100	68	0.49	0.019
			Sample Date											
MW-45	MW45NS-220217	NS	02/17/2022	1.4 U	3.0 U	1.4 U	5.3 U	1.4 U	5.0 U	7.0 U	3.0 U	1.4 U	300	0.30 U
MW-45	MW45NS-220803	NS	08/03/2022	0.070 U	0.15 U	0.070 U	3.7	0.070 U	0.25 U	0.35 U	0.15 U	0.25	170	0.015 U
MW-45	MW45NS-221027	NS	10/27/2022	0.70 U	1.5 U	0.70 U	4.8	0.70 U	2.5 U	3.5 U	1.5 U	0.70 U	290	0.15 U
MW-45	MW45NS-221222	NS	12/22/2022	0.70 U	1.5 U	0.70 U	5.9	0.70 U	2.5 U	3.5 U	1.5 U	0.39 J	260	0.90 U
MW-45	MW45NS-230228	NS	02/28/2023	0.70 U	1.5 U	0.70 U	4.4	0.40 J	2.5 U	3.5 U	1.5 U	0.70 U	160 J	0.90 U
MW-45	MW45DS-230228	FD	02/28/2023	0.70 U	1.5 U	0.70 U	6.1	0.31 J	2.5 U	3.5 U	1.5 U	0.37 J	230 J	0.90 U
MW-45	T1AMF-MW045-MAY24	NS	05/28/2024	0.20 U	0.20 U	0.20 U	5.7	0.20 U	0.50 U	0.20 U	0.20 U	0.34 J	220	0.12 J
MW-45	T1AMF-MW045_OCT24	NS	10/24/2024	0.20 U	0.20 U	0.20 U	9.4	0.20 U	0.50 U	0.20 UJ	0.20 U	0.46 J	310	0.30 U
MW-46	MW46NS-191218	NS	12/18/2019	0.15 UJ	0.15 UJ	0.070 UJ	2.3 J-	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	0.22 J-	97 J-	0.017 UJ
MW-46	MW46NS-200618	NS	06/18/2020	0.070 U	0.15 U	0.070 U	2.8	0.070 U	0.25 U	0.35 U	0.15 U	0.26 J+	140 J	0.015 UJ
MW-46	MW46NS-200812	NS	08/12/2020	0.070 U	0.15 U	0.070 U	2.5	0.070 U	0.25 U	0.35 U	0.15 U	0.27	110	0.015 U
MW-46	MW46DS-200812	FD	08/12/2020	0.070 U	0.15 U	0.070 U	2.6	0.070 U	0.25 U	0.35 U	0.15 U	0.23	110	0.015 U
MW-46	MW46NS-201110	NS	11/10/2020	0.070 U	0.15 U	0.070 U	3.2	0.070 U	0.25 U	0.35 U	0.15 U	0.26	130	0.015 U
MW-46	MW46DS-201110	FD	11/10/2020	0.070 U	0.15 U	0.070 U	3.0	0.070 U	0.25 U	0.35 U	0.15 U	0.27	130	0.015 U
MW-46	MW46NS-210217	NS	02/17/2021	0.070 U	0.15 U	0.070 U	2.9	0.070 U	0.25 U	0.35 U	0.15 U	0.27	45	0.015 U
MW-46	MW46NS-210512	NS	05/12/2021	0.070 U	0.15 U	0.070 U	3.1	0.070 U	0.25 U	0.35 U	0.15 U	0.26	120	0.015 U
MW-46	MW46NS-210819	NS	08/19/2021	0.070 U	0.15 U	0.070 U	3.1	0.070 U	0.25 U	0.15 J	0.15 U	0.28	150 J-	0.015 U
MW-46	MW46NS-211203	NS	12/03/2021	0.070 U	0.15 U	0.070 U	2.9	0.070 U	0.25 U	0.35 U	0.15 U	0.22	120	0.015 U
MW-46	MW46NS-220217	NS	02/17/2022	0.70 U	1.5 U	0.70 U	2.9	0.70 U	2.5 U	3.5 U	1.5 U	0.70 U	150	0.15 U
MW-46	MW46NS-220803	NS	08/03/2022	0.070 U	0.15 U	0.070 U	2.4	0.070 U	0.25 U	0.35 U	0.15 U	0.30	130	0.015 U
MW-46	MW46NS-221026	NS	10/26/2022	0.070 U	0.15 U	0.070 U	2.4	0.070 U	0.25 U	0.35 U	0.15 U	0.13 J	160	0.015 U
MW-46	MW46NS-221221	NS	12/21/2022	0.70 U	1.5 U	0.70 U	3.4	0.70 U	2.5 U	3.5 U	1.5 U	0.70 U	140	0.90 U
MW-46	MW46NS-230301	NS	03/01/2023	0.70 U	1.5 U	0.70 U	3.2	0.70 U	2.5 U	3.5 U	1.5 U	0.70 U	120	0.90 U
MW-46	T1AMF-MW046-MAY24	NS	05/29/2024	0.20 U	0.20 U	0.20 U	2.6	0.20 U	0.50 U	0.20 U	0.20 U	0.18 J	120	0.30 U
MW-46	T1AMF-MW046_OCT24	NS	10/24/2024	0.20 U	0.20 U	0.20 U	4.0	0.20 U	0.50 U	0.20 UJ	0.20 U	0.18 J	160	0.30 U
MW-47	MW47NS-191218	NS	12/18/2019	0.15 UJ	0.15 UJ	0.070 UJ	1.1 J-	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	0.40 J-	23 J-	0.017 UJ
MW-47	MW47NS-200618	NS	06/18/2020	0.070 U	0.15 U	0.070 U	1.4	0.070 U	0.25 U	0.35 U	0.15 U	0.49 J+	28	0.015 U
MW-47	MW47NS-200813	NS	08/13/2020	0.070 U	0.15 U	0.070 U	1.1	0.070 U	0.25 U	0.35 U	0.15 U	0.45	31	0.015 U
MW-47	MW47NS-201110	NS	11/10/2020	0.070 U	0.15 U	0.29 U	1.4	0.20 UJ	0.25 UJ	0.35 U	0.15 UJ	0.54	28	0.015 U
MW-47	MW47NS-210217	NS	02/17/2021	0.070 U	0.15 U	0.070 U	1.5	0.070 U	0.25 U	0.35 U	0.15 U	0.53	31	0.015 U
MW-47	MW47NS-210512	NS	05/12/2021	0.070 U	0.15 U	0.070 U	1.6	0.070 U	0.25 U	0.35 U	0.15 U	0.60	26	0.015 U
MW-47	MW47NS-210818	NS	08/18/2021	0.070 U	0.15 U	0.070 U	1.4	0.070 U	0.25 U	0.35 U	0.15 U	0.63	32	0.015 UJ
MW-47	MW47NS-211202	NS	12/02/2021	0.070 U	0.15 U	0.070 U	1.0	0.070 U	0.25 U	0.35 U	0.15 U	0.41	24	0.015 U
MW-47	MW47NS-220216	NS	02/16/2022	0.070 U	0.15 U	0.039 J	1.1	0.070 U	0.50 U	0.28 J	0.15 U	0.43	31	0.015 U
MW-47	MW47NS-220803	NS	08/03/2022	0.070 U	0.15 U	0.070 U	1.1	0.070 U	0.25 U	0.35 U	0.15 U	0.47	23	0.015 U
MW-47	MW47NS-221026	NS	10/26/2022	0.070 U	0.15 U	0.070 U	0.91	0.070 U	0.25 U	0.35 U	0.15 U	0.31	30	0.015 U
MW-47	MW47NS-221221	NS	12/21/2022	0.070 U	0.15 U	0.070 U	1.4	0.070 U	0.25 U	0.35 U	0.15 U	0.52	26	0.090 U

Table 7a. Historical Groundwater Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloro-ethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			CA MCL	6.0	5.0	1.0	6.0	300	1750	1750	150	10	5.0	0.50
			USEPA Tapwater RSL	280	0.48	0.46	25	1.5	190	190	1100	68	0.49	0.019
			Sample Date											
MW-47	MW47NS-230301	NS	03/01/2023	0.070 U	0.15 U	0.070 U	**1.4**	0.070 U	0.25 U	0.35 U	0.15 U	**0.49**	**25**	0.090 U
MW-47	T1AMF-MW047-MAY24	NS	05/29/2024	0.20 U	0.20 U	0.20 U	**1.0**	0.20 U	0.50 U	0.20 U	0.20 U	**0.30 J**	**20**	0.30 U
MW-47	T1AMF-MW047_OCT24	NS	10/24/2024	0.20 U	0.20 U	0.20 U	**1.4**	0.20 U	0.50 U	0.20 UJ	0.20 U	**0.40 J**	**26**	0.30 U
MW-48	MW48NS-200813	NS	08/13/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**2.2**	0.015 U
MW-48	MW48NS-201111	NS	11/11/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	**0.072 J**	0.070 U	**0.45**	**0.052**
MW-48	MW48NS-210216	NS	02/16/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.17 J**	0.015 U
MW-48	MW48NS-210511	NS	05/11/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.17 J**	0.015 U
MW-48	MW48NS-210817	NS	08/17/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	**0.15 J**	0.15 U	0.070 U	**0.11 J**	0.015 U
MW-48	MW48NS-211202	NS	12/02/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-48	MW48NS-220215	NS	02/15/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-48	MW48NS-220801	NS	08/01/2022	--	--	--	--	--	--	--	--	--	--	--
MW-48	MW48-221024	NS	10/24/2022	--	--	--	--	--	--	--	--	--	--	--
MW-48	MW48NS-221222	NS	12/22/2022	--	--	--	--	--	--	--	--	--	--	--
MW-48	MW48NS-230223	NS	02/23/2023	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.068 J**	0.090 U
MW-48	T1AMF-MW048-MAY24	NS	05/29/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U
MW-48	T1AMF-MW048_OCT24	NS	10/22/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U
MW-49	MW49NS-200812	NS	08/12/2020	0.070 U	0.15 U	0.070 U	**0.91**	0.070 U	**0.12 J**	0.35 U	**0.054 J**	0.070 U	**54**	0.015 U
MW-49	MW49NS-201110	NS	11/10/2020	0.070 U	0.15 U	0.070 U	**1.5**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**40 J-**	0.015 U
MW-49	MW49NS-210218	NS	02/18/2021	0.70 U	1.5 U	0.70 U	**1.3 J**	0.70 U	2.5 U	3.5 U	1.5 U	0.70 U	**81**	0.15 U
MW-49	MW49NS-210513	NS	05/13/2021	0.070 U	0.15 U	**0.033 J**	**1.3**	0.070 U	0.25 U	0.35 U	0.15 U	**0.034 J**	**74**	0.015 U
MW-49	MW49NS-210818	NS	08/18/2021	0.28 U	0.60 U	0.28 U	**0.97**	0.28 U	1.0 U	1.4 U	0.60 U	0.28 U	**75**	0.060 U
MW-49	MW49NS-211202	NS	12/02/2021	0.70 U	1.5 U	0.70 U	1.5 U	0.70 U	2.5 U	3.5 U	**0.71 J**	0.70 U	**59**	0.15 U
MW-49	MW49DS-211202	FD	12/02/2021	0.70 U	1.5 U	0.70 U	1.5 U	0.70 U	2.5 U	3.5 U	**0.67 J**	0.70 U	**62**	0.15 U
MW-49	MW49NS-220216	NS	02/16/2022	0.70 U	1.5 U	**0.35 J**	**1.1 J**	0.70 U	**2.7 J**	3.5 U	1.5 U	0.70 U	**65**	0.15 U
MW-49	MW49NS-220803	NS	08/03/2022	0.070 U	0.15 U	0.070 U	**0.70**	0.070 U	0.25 U	0.35 U	0.15 U	**0.14 J**	**56**	0.015 U
MW-49	MW49NS-221027	NS	10/27/2022	0.70 U	1.5 U	0.70 U	1.5 U	0.70 U	2.5 U	3.5 U	1.5 U	0.70 U	**71**	0.15 U
MW-49	MW49NS-221222	NS	12/22/2022	0.70 U	1.5 U	0.70 U	**0.93 J**	0.70 U	2.5 U	3.5 U	1.5 U	0.70 U	**65**	0.90 U
MW-49	MW49NS-230228	NS	02/28/2023	0.70 U	1.5 U	0.70 U	**1.1 J**	**0.53 J**	2.5 U	3.5 U	1.5 U	0.70 U	**46**	0.90 U
MW-49	T1AMF-MW049-MAY24	NS	05/30/2024	0.20 U	0.20 U	0.20 U	**1.1**	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**71**	0.30 U
MW-49	T1AMF-MW049_OCT24	NS	10/24/2024	0.20 U	0.20 U	0.20 U	**1.6**	0.20 U	0.50 U	0.20 UJ	0.20 U	0.20 U	**89**	0.30 U

Table 7a. Historical Groundwater Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloro-ethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			CA MCL	6.0	5.0	1.0	6.0	300	1750	1750	150	10	5.0	0.50
			USEPA Tapwater RSL	280	0.48	0.46	25	1.5	190	190	1100	68	0.49	0.019
			Sample Date											
MW-50	MW50NS-191218	NS	12/18/2019	0.15 UJ	0.15 UJ	0.070 UJ	**0.96 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	**0.29 J-**	**20 J-**	0.017 UJ
MW-50	MW50NS-200618	NS	06/18/2020	0.070 U	0.15 U	0.070 U	**1.1**	0.070 U	0.25 U	0.35 U	0.15 U	**0.32 J+**	**23**	0.015 U
MW-50	MW50NS-200811	NS	08/11/2020	0.070 U	0.15 U	0.070 U	**0.76**	0.070 U	0.25 U	0.35 U	0.15 U	**0.30**	**22**	0.015 U
MW-50	MW50NS-201110	NS	11/10/2020	0.070 U	0.15 U	0.070 U	**1.0**	0.070 U	0.25 U	0.35 U	0.15 U	**0.34**	**23**	0.015 U
MW-50	MW50NS-210217	NS	02/17/2021	0.070 U	0.15 U	0.070 U	**0.74**	0.070 U	0.25 U	0.35 U	0.15 U	**0.27**	**23**	0.015 U
MW-50	MW50NS-210512	NS	05/12/2021	0.070 U	0.15 U	0.070 U	**1.0**	0.070 U	0.25 U	0.35 U	0.15 U	**0.30**	**18**	0.015 U
MW-50	MW50NS-210818	NS	08/18/2021	0.070 U	0.15 U	0.070 U	**0.80**	0.070 U	0.25 U	0.35 U	0.15 U	**0.28**	**23**	0.015 UJ
MW-50	MW50NS-211201	NS	12/01/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**19**	0.015 U
MW-50	MW50NS-220216	NS	02/16/2022	0.070 U	0.15 U	**0.033 J**	**0.78**	0.070 U	0.25 U	0.35 U	0.15 U	**0.23**	**24**	0.015 U
MW-50	MW50NS-220803	NS	08/03/2022	0.070 U	0.15 U	0.070 U	**0.56**	0.070 U	0.25 U	0.35 U	0.15 U	**0.23**	**12**	0.015 U
MW-50	MW50NS-221026	NS	10/26/2022	0.070 U	0.15 U	0.070 U	**0.56**	0.070 U	0.25 U	0.35 U	0.15 U	**0.16 J**	**22**	0.015 U
MW-50	MW50DS-221026	FD	10/26/2022	0.070 U	0.15 U	0.070 U	**0.51**	0.070 U	0.25 U	0.35 U	0.15 U	**0.15 J**	**22**	0.015 U
MW-50	MW50NS-221221	NS	12/21/2022	0.070 U	0.15 U	0.070 U	**0.86**	0.070 U	0.25 U	0.35 U	0.15 U	**0.34**	**19**	0.090 U
MW-50	MW50NS-230224	NS	02/24/2023	0.070 U	0.15 U	0.070 U	**0.91**	0.070 U	0.25 U	0.35 U	0.15 U	**0.24**	**18**	0.090 U
MW-50	T1AMF-MW050-MAY24	NS	05/29/2024	0.20 U	0.20 U	0.20 U	**0.56 J**	0.20 U	0.50 U	0.20 U	0.20 U	**0.14 J**	**14**	0.30 U
MW-50	T1AMF-MW050_OCT24	NS	10/24/2024	0.20 U	0.20 U	0.20 U	**0.80 J**	0.20 U	0.50 U	0.20 UJ	0.20 U	**0.19 J**	**21**	0.30 U
MW-50	T1AMF-MW050_OCT24_FD	FD	10/24/2024	0.20 U	0.20 U	0.20 U	**0.79 J**	0.20 U	0.50 U	0.20 UJ	0.20 U	0.20 U	**22**	0.30 U
MW-51	MW51NS-200812	NS	08/12/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	**0.12 J**	0.35 U	0.15 U	0.070 U	**11**	0.015 U
MW-51	MW51NS-201110	NS	11/10/2020	0.070 U	0.15 U	0.070 U	**0.24**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**14**	0.015 U
MW-51	MW51DS-201110	FD	11/10/2020	0.070 U	0.15 U	0.070 U	**0.28**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**15**	0.015 U
MW-51	MW51NS-210217	NS	02/17/2021	0.070 U	0.15 U	0.070 U	**0.21**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**15**	0.015 U
MW-51	MW51NS-210512	NS	05/12/2021	0.070 U	0.15 U	0.070 U	**0.16 J**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**13**	0.015 U
MW-51	MW51NS-210818	NS	08/18/2021	0.070 U	0.15 U	0.070 U	**0.13 J**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**17**	0.015 UJ
MW-51	MW51NS-211201	NS	12/01/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**15**	0.015 U
MW-51	MW51NS-220216	NS	02/16/2022	0.070 U	0.15 U	**0.033 J**	**0.14 J**	0.070 U	0.50 U	0.35 U	0.15 U	0.070 U	**18**	0.015 U
MW-51	MW51DS-220216	FD	02/16/2022	0.070 U	0.15 U	**0.033 J**	**0.17 J**	0.070 U	0.50 U	**0.28 J**	0.15 U	0.070 U	**19**	0.015 U
MW-51	MW51NS-220801	PNC	08/01/2022	--	--	--	--	--	--	--	--	--	--	--
MW-51	MW51-221024	PNC	10/24/2022	--	--	--	--	--	--	--	--	--	--	--
MW-51	MW51NS-221222	PNC	12/22/2022	--	--	--	--	--	--	--	--	--	--	--
MW-51	MW51NS-230228	NS	02/28/2023	0.070 U	0.15 U	0.070 U	**0.33**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**19**	0.090 U
MW-51	T1AMF-MW051_MAY24	NS	05/31/2024	0.20 U	0.20 U	0.20 U	**0.11 J**	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**9.3**	0.30 U
MW-51	T1AMF-MW051_OCT24	NS	10/24/2024	0.20 U	0.20 U	0.20 U	**0.14 J**	0.20 U	0.50 U	0.20 UJ	0.20 U	0.20 U	**16**	0.30 U

Table 7a. Historical Groundwater Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloro-ethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			CA MCL	6.0	5.0	1.0	6.0	300	1750	1750	150	10	5.0	0.50
			USEPA Tapwater RSL	280	0.48	0.46	25	1.5	190	190	1100	68	0.49	0.019
			Sample Date											
MW-52	MW52NS-191218	NS	12/18/2019	0.15 UJ	0.15 UJ	0.070 UJ	**0.67 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	**0.48 J-**	**6.9 J-**	0.017 UJ
MW-52	MW52NS-200618	NS	06/18/2020	0.070 U	0.15 U	0.070 U	**0.74**	0.070 U	0.25 U	0.35 U	0.15 U	**0.51 J+**	**8.0**	0.015 U
MW-52	MW52NS-200811	NS	08/11/2020	0.070 U	0.15 U	0.070 U	**0.36**	0.070 U	0.25 U	0.35 U	0.15 U	**0.60**	**8.3**	0.015 U
MW-52	MW52NS-201112	NS	11/12/2020	0.070 UJ	0.15 UJ	0.070 UJ	**0.74 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	**0.58 J-**	**8.1 J-**	0.015 UJ
MW-52	MW52NS-210217	NS	02/17/2021	0.070 U	0.15 U	0.070 U	**0.62**	0.070 U	0.25 U	0.35 U	0.15 U	**0.47**	**8.5**	0.015 U
MW-52	MW52DS-210217	FD	02/17/2021	0.070 U	0.15 U	0.070 U	**0.54**	0.070 U	0.25 U	0.35 U	0.15 U	**0.44**	**8.1**	0.015 U
MW-52	MW52NS-210512	NS	05/12/2021	0.070 U	0.15 U	0.070 U	**0.73**	0.070 U	0.25 U	0.35 U	0.15 U	**0.54**	**7.2**	0.015 U
MW-52	MW52NS-210818	NS	08/18/2021	0.070 U	0.15 U	0.070 U	**0.62**	0.070 U	0.25 U	0.35 U	0.15 U	**0.53**	**8.0**	0.015 UJ
MW-52	MW52NS-211201	NS	12/01/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**7.4**	0.015 U
MW-52	MW52NS-220216	NS	02/16/2022	0.070 U	0.15 U	0.070 U	**0.48**	0.070 U	0.50 U	0.35 U	0.15 U	**0.36**	**8.1**	0.015 U
MW-52	MW52DS-220216	FD	02/16/2022	0.070 U	0.15 U	**0.035 J**	**0.48**	0.070 U	0.50 U	**0.28 J**	0.15 U	**0.35**	**8.1**	0.015 U
MW-52	MW52NS-220803	NS	08/03/2022	0.070 U	0.15 U	0.070 U	**0.54**	0.070 U	0.25 U	0.35 U	0.15 U	**0.48**	**6.2**	0.015 U
MW-52	MW52NS-221026	NS	10/26/2022	0.070 U	0.15 U	0.070 U	**0.50**	0.070 U	0.25 U	0.35 U	0.15 U	**0.40**	**7.3**	0.015 U
MW-52	MW52NS-221221	NS	12/21/2022	0.070 U	0.15 U	0.070 U	**0.68**	0.070 U	0.25 U	0.35 U	0.15 U	**0.56**	**7.6**	0.090 U
MW-52	MW52DS-221221	FD	12/21/2022	0.070 U	0.15 U	0.070 U	**0.74**	0.070 U	0.25 U	0.35 U	0.15 U	**0.55**	**7.7**	0.090 U
MW-52	MW52NS-230224	NS	02/24/2023	0.070 U	0.15 U	0.070 U	**0.70**	0.070 U	0.25 U	0.35 U	0.15 U	**0.54**	**7.3**	0.090 U
MW-52	T1AMF-MW052-MAY24	NS	05/29/2024	0.20 U	0.20 U	0.20 U	**0.42 J**	0.20 U	0.50 U	0.20 U	0.20 U	**0.31 J**	**5.0**	0.30 U
MW-52	T1AMF-MW052-MAY24_FD	FD	05/29/2024	0.20 U	0.20 U	0.20 U	**0.37 J**	0.20 U	0.50 U	0.20 U	0.20 U	**0.34 J**	**5.3**	0.30 U
MW-52	T1AMF-MW052_OCT24	NS	10/23/2024	0.20 U	0.20 U	0.20 U	**0.49 J**	0.20 U	0.50 U	0.20 UJ	0.20 U	**0.38 J**	**7.1**	0.30 U
MW-53	MW53NS-191217	NS	12/17/2019	0.15 UJ	0.15 UJ	**0.045 J-**	0.15 UJ	0.070 UJ	0.25 UJ	0.35 UJ	**0.061 J-**	0.15 UJ	**0.13 J-**	0.017 UJ
MW-53	MW53NS-200617	NS	06/17/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-53	MW53NS-200811	NS	08/11/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-53	MW53NS-201110	NS	11/10/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-53	MW53NS-210215	NS	02/15/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-53	MW53NS-210511	NS	05/11/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.56**	0.015 U
MW-53	MW53NS-210817	NS	08/17/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.12 J**	0.015 U
MW-53	MW53NS-211130	NS	11/30/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.13 J**	0.015 U
MW-53	MW53DS-220215	NS	02/15/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.20 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.17 J**	0.015 U
MW-53	MW53NS-220215	NS	02/15/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.20 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.16 J**	0.015 U
MW-53	MW53NS-220802	NS	08/02/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.068 J**	0.015 U
MW-53	MW53NS-221025	NS	10/25/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.12 J**	0.015 U
MW-53	MW53NS-221220	NS	12/20/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.18 J**	0.090 U
MW-53	MW53NS-230222	NS	02/22/2023	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.70**	0.090 U
MW-53	T1AMF-MW053_MAY24	NS	05/31/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U
MW-53	T1AMF-MW053_OCT24	NS	10/21/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U

Table 7a. Historical Groundwater Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloro-ethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			CA MCL	6.0	5.0	1.0	6.0	300	1750	1750	150	10	5.0	0.50
			USEPA Tapwater RSL	280	0.48	0.46	25	1.5	190	190	1100	68	0.49	0.019
			Sample Date											
MW-54	MW54NS-200812	NS	08/12/2020	0.070 U	0.15 U	**0.37**	0.15 U	**0.031 J**	**0.15 J**	0.35 U	**0.18 J**	0.070 U	**1.1**	0.015 U
MW-54	MW54NS-201111	NS	11/11/2020	0.070 U	0.15 U	0.20 U	**0.098 J**	0.070 U	0.25 U	0.35 U	**0.097 J**	0.070 U	0.15 U	0.015 U
MW-54	MW54NS-210215	NS	02/15/2021	0.070 U	0.15 U	**0.049 J**	**0.32**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.13 J**	0.015 U
MW-54	MW54NS-210511	NS	05/11/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-54	MW54NS-210817	NS	08/17/2021	0.070 U	0.15 U	0.070 U	**0.41**	0.070 U	0.25 U	**0.15 J**	0.15 U	0.070 U	**1.5**	0.015 U
MW-54	MW54NS-211130	NS	11/30/2021	0.070 U	0.15 U	0.070 U	**0.19 J**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.23**	0.015 U
MW-54	MW54NS-220215	NS	02/15/2022	0.070 U	0.15 U	0.070 U	**0.29**	0.20 U	0.25 U	0.35 U	0.15 U	0.070 U	**1.3**	0.015 UJ
MW-54	MW54NS-220801	NS	08/01/2022	0.070 U	0.15 U	0.070 U	**0.38**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**1.5**	0.015 U
MW-54	MW54NS-221025	NS	10/25/2022	0.070 U	0.15 U	0.070 U	**0.40 J**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.51**	0.015 U
MW-54	MW54NS-221220	NS	12/20/2022	0.070 U	0.15 U	0.070 U	**0.35**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.16 J**	0.090 U
MW-54	MW54NS-230221	NS	02/21/2023	0.070 U	0.15 U	0.070 U	0.33 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.81**	0.090 U
MW-54	T1AMF-MW054-MAY24	NS	05/28/2024	0.20 U	0.20 U	0.20 U	**0.70 J**	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**0.35 J**	0.30 U
MW-54	T1AMF-MW054_OCT24	NS	10/23/2024	0.20 U	0.20 U	0.20 U	**0.84 J**	0.20 U	0.50 U	0.20 UJ	0.20 U	0.20 U	**3.1**	0.30 U
MW-55	MW55NS-200811	NS	08/11/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	**0.12 J**	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-55	MW55NS-201111	NS	11/11/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-55	MW55NS-210215	NS	02/15/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-55	MW55NS-210511	NS	05/11/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-55	MW55NS-210817	NS	08/17/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	**0.15 J**	0.15 U	0.070 U	0.15 U	0.015 U
MW-55	MW55NS-211130	NS	11/30/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-55	MW55NS-220215	NS	02/15/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.20 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 UJ
MW-55	MW55NS-220801	NS	08/01/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-55	MW55NS-221025	NS	10/25/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-55	MW55NS-221220	NS	12/20/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.090 U
MW-55	MW55NS-230221	NS	02/21/2023	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.090 U
MW-55	T1AMF-MW055-MAY24	NS	05/28/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U
MW-55	T1AMF-MW055_OCT24	NS	10/23/2024	0.20 U	0.20 UJ	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 UJ	0.20 UJ	0.30 U
MW-56	MW56NS-200812	NS	08/12/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**1.8**	0.015 U
MW-56	MW56NS-201111	NS	11/11/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**1.6**	0.015 U
MW-56	MW56NS-210216	NS	02/16/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**2.7**	0.015 U
MW-56	MW56NS-210511	NS	05/11/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-56	MW56NS-210817	NS	08/17/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**3.0**	0.015 UJ
MW-56	MW56NS-211202	NS	12/02/2021	0.070 U	0.15 U	**0.71**	0.15 U	**0.040 J**	0.25 U	0.35 U	**0.97**	0.070 U	**1.4**	0.015 U
MW-56	MW56NS-220215	NS	02/15/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**3.2**	0.015 U
MW-56	MW56NS-220801	PNC	08/01/2022	--	--	--	--	--	--	--	--	--	--	--
MW-56	MW56-221024	PNC	10/24/2022	--	--	--	--	--	--	--	--	--	--	--
MW-56	MW56NS-221222	PNC	12/22/2022	--	--	--	--	--	--	--	--	--	--	--

Table 7a. Historical Groundwater Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloro-ethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			CA MCL	6.0	5.0	1.0	6.0	300	1750	1750	150	10	5.0	0.50
			USEPA Tapwater RSL	280	0.48	0.46	25	1.5	190	190	1100	68	0.49	0.019
			Sample Date											
MW-56	MW56NS-230224	NS	02/24/2023	0.070 U	0.15 U	0.070 U	**0.63**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**30**	0.090 U
MW-56	T1AMF-MW056-MAY24	NS	05/29/2024	0.20 U	0.20 U	0.20 U	**0.20 J**	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**13**	0.30 U
MW-56	T1AMF-MW056_OCT24	NS	10/24/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 UJ	0.20 U	0.20 U	**7.9**	0.30 U
MW-56	T1AMF-MW056_OCT24_FD	FD	10/24/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 UJ	0.20 U	0.20 U	**8.1**	0.30 U
MW-57	MW57NS-191217	NS	12/17/2019	0.15 UJ	0.15 UJ	0.070 UJ	0.15 UJ	0.070 UJ	0.25 UJ	0.35 UJ	**0.058 J-**	0.15 UJ	**0.83 J-**	0.017 UJ
MW-57	MW57NS-200615	NS	06/15/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.35**	0.015 UJ
MW-57	MW57NS-200810	NS	08/10/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	**0.12 J**	0.35 U	0.15 U	0.070 U	**2.4**	0.015 U
MW-57	MW57NS-201110	NS	11/10/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**6.4**	0.015 U
MW-57	MW57NS-210215	NS	02/15/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**3.3**	0.015 U
MW-57	MW57NS-210511	NS	05/11/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.57 J**	0.015 U
MW-57	MW57DS-210511	FD	05/11/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**2.7 J**	0.015 U
MW-57	MW57NS-210816	NS	08/16/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**2.2**	0.015 U
MW-57	MW57DS-210816	FD	08/16/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**2.1**	0.015 U
MW-57	MW57NS-211201	NS	12/01/2021	0.070 U	0.15 U	**0.038 J**	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**2.0**	0.015 U
MW-57	MW57DS-211201	FD	12/01/2021	0.070 U	0.15 U	**0.034 J**	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**1.9**	0.015 U
MW-57	MW57NS-220215	NS	02/15/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.20 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.55**	0.015 U
MW-57	MW57NS-220802	NS	08/02/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.015 U
MW-57	MW57DS-220802	FD	08/02/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	**0.066 J**	0.070 U	0.15 U	0.015 U
MW-57	MW57NS-221024	NS	10/24/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.67**	0.015 U
MW-57	MW57NS-221219	NS	12/19/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**1.1**	0.090 U
MW-57	MW57NS-230222	NS	02/22/2023	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	0.15 U	0.090 U
MW-57	T1AMF-MW057-MAY24	NS	05/30/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U
MW-57	T1AMF-MW057_OCT24	NS	10/22/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**0.21 J**	0.30 U
MW-58	MW58DS-191217	NS	12/17/2019	0.15 UJ	0.15 UJ	0.070 UJ	**0.066 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	0.15 UJ	**0.50 J-**	0.017 UJ
MW-58	MW58NS-191217	NS	12/17/2019	0.15 UJ	0.15 UJ	0.070 UJ	**0.071 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	0.15 UJ	**0.50 J-**	0.017 UJ
MW-58	MW58NS-200617	NS	06/17/2020	0.070 U	0.15 U	0.070 U	**0.090 J**	0.070 U	0.25 U	0.35 U	0.15 U	**0.039 J+**	**0.61**	0.015 U
MW-58	MW58DS-200617	FD	06/17/2020	0.070 U	0.15 U	0.070 U	**0.091 J**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.54**	0.015 U
MW-58	MW58NS-200811	NS	08/11/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	**0.046 J**	**0.34**	0.015 U
MW-58	MW58NS-201110	NS	11/10/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.46**	0.015 U
MW-58	MW58NS-210215	NS	02/15/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.42**	0.015 U
MW-58	MW58NS-210510	NS	05/10/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.31**	0.015 U
MW-58	MW58NS-211201	NS	12/01/2021	0.070 U	0.15 U	**0.032 J**	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**0.22**	0.015 U
MW-58	MW58NS-220214	PNC	02/14/2022	--	--	--	--	--	--	--	--	--	--	--
MW-58	MW58NS-220801	PNC	08/01/2022	--	--	--	--	--	--	--	--	--	--	--
MW-58	MW58-221024	PNC	10/24/2022	--	--	--	--	--	--	--	--	--	--	--
MW-58	MW58-221222	PNC	12/22/2022	--	--	--	--	--	--	--	--	--	--	--
MW-58	T1AMF-MW058_MAY24	NS	05/31/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**0.11 J**	0.30 U

Table 7a. Historical Groundwater Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloro-ethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			CA MCL	6.0	5.0	1.0	6.0	300	1750	1750	150	10	5.0	0.50
			USEPA Tapwater RSL	280	0.48	0.46	25	1.5	190	190	1100	68	0.49	0.019
			Sample Date											
MW-59	MW59NS-191217	NS	12/17/2019	0.15 UJ	0.15 UJ	0.070 UJ	**0.19 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	0.15 UJ	**5.6 J-**	0.017 UJ
MW-59	MW59NS-200617	NS	06/17/2020	0.070 U	0.15 U	0.070 U	**0.27**	0.070 U	0.25 U	0.35 U	0.15 U	**0.078 J+**	**8.5**	0.015 U
MW-59	MW59NS-200811	NS	08/11/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	**0.053 J**	**6.8**	0.015 U
MW-59	MW59NS-201112	NS	11/12/2020	**0.038 J**	0.15 UJ	**0.030 J**	**0.26 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	**0.073 J**	**8.5 J-**	0.015 UJ
MW-59	MW59NS-210217	NS	02/17/2021	0.070 U	0.15 U	0.070 U	**0.29**	0.070 U	0.25 U	0.35 U	0.15 U	**0.073 J**	**9.1**	0.015 U
MW-59	MW59NS-210512	NS	05/12/2021	0.070 U	0.15 U	0.070 U	**0.27**	0.070 U	0.25 U	0.35 U	0.15 U	**0.069 J**	**7.6**	0.015 U
MW-59	MW59NS-210818	NS	08/18/2021	0.070 U	0.15 U	0.070 U	**0.25**	0.070 U	0.25 U	0.35 U	0.15 U	**0.082 J**	**8.7**	0.015 UJ
MW-59	MW59NS-211201	NS	12/01/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**9.1**	0.015 U
MW-59	MW59NS-220216	NS	02/16/2022	0.070 U	0.15 U	**0.032 J**	**0.22**	0.070 U	0.25 U	**0.29 J**	0.15 U	0.070 U	**9.4**	0.015 U
MW-59	MW59NS-220803	NS	08/03/2022	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**5.6**	0.015 U
MW-59	MW59NS-221026	NS	10/26/2022	**0.062 J**	0.15 U	0.070 U	**0.26**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**11**	0.015 U
MW-59	MW59NS-221221	NS	12/21/2022	0.070 U	0.15 U	0.070 U	**0.32**	0.070 U	0.25 U	0.35 U	0.15 U	**0.091 J**	**11**	0.090 U
MW-59	MW59NS-230224	NS	02/24/2023	0.070 U	0.15 U	0.070 U	**0.30**	0.070 U	0.25 U	0.35 U	0.15 U	**0.076 J**	**8.8**	0.090 U
MW-59	T1AMF-MW059-MAY24	NS	05/29/2024	0.20 U	0.20 U	0.20 U	**0.29 J**	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**7.0**	0.30 U
MW-59	T1AMF-MW059_OCT24	NS	10/22/2024	0.20 UJ	0.20 UJ	0.20 UJ	**0.31 J-**	0.20 UJ	0.50 UJ	0.20 UJ	0.20 UJ	0.20 UJ	**6.8 J-**	0.30 UJ
MW-60	MW60NS-191217	NS	12/17/2019	0.15 UJ	0.15 UJ	0.070 UJ	**0.15 J-**	0.070 UJ	0.25 UJ	0.35 UJ	0.15 UJ	**0.10 J-**	**2.2 J-**	0.017 UJ
MW-60	MW60NS-200618	NS	06/18/2020	0.070 U	0.15 U	0.070 U	**0.16 J**	0.070 U	0.25 U	0.35 U	0.15 U	**0.11 J+**	**2.9**	0.015 U
MW-60	MW60NS-200811	NS	08/11/2020	0.070 U	0.15 U	0.070 U	0.15 UJ	0.070 U	0.25 U	0.35 UJ	0.15 U	**0.21**	**3.9**	0.015 U
MW-60	MW60DS-200811	FD	08/11/2020	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	**0.23**	**3.8**	0.015 U
MW-60	MW60NS-201110	NS	11/10/2020	0.070 U	0.15 U	0.070 U	**0.21**	0.070 U	0.25 U	0.35 U	0.15 U	**0.17 J**	**4.0**	0.015 U
MW-60	MW60NS-210215	NS	02/15/2021	0.070 U	0.15 U	0.070 U	**0.27**	0.070 U	0.25 U	0.35 U	0.15 U	**0.21**	**4.6**	0.015 U
MW-60	MW60NS-210512	NS	05/12/2021	0.070 U	0.15 U	0.070 U	**0.21**	0.070 U	0.25 U	0.35 U	0.15 U	**0.18 J**	**3.3**	0.015 U
MW-60	MW60NS-210817	NS	08/17/2021	0.070 U	0.15 U	0.070 U	**0.13 J**	0.070 U	0.25 U	0.35 U	0.15 U	**0.14 J**	**3.1**	0.015 U
MW-60	MW60NS-211201	NS	12/01/2021	0.070 U	0.15 U	0.070 U	0.15 U	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**3.2**	0.015 U
MW-60	MW60NS-220215	NS	02/15/2022	0.070 U	0.15 U	0.070 U	**0.21**	0.20 U	0.25 U	0.35 U	0.15 U	0.070 U	**5.2**	0.015 U
MW-60	MW60NS-220802	NS	08/02/2022	0.070 U	0.15 U	0.070 U	**0.10 J**	0.070 U	0.25 U	0.35 U	0.15 U	0.070 U	**2.4**	0.015 U
MW-60	MW60NS-221026	NS	10/26/2022	0.070 U	0.15 U	0.070 U	**0.19 J**	0.070 U	0.25 U	0.35 U	0.15 U	**0.14 J**	**3.4**	0.015 U
MW-60	MW60NS-221221	NS	12/21/2022	0.070 U	0.15 U	0.070 U	**0.16 J**	0.070 U	0.25 U	0.35 U	0.15 U	**0.20**	**3.9**	0.090 U
MW-60	MW60NS-230223	NS	02/23/2023	0.070 U	0.15 U	0.070 U	0.20 U	0.070 U	0.25 U	0.35 U	0.15 U	**0.19 J**	**4.1**	0.090 U
MW-60	MW60DS-230223	FD	02/23/2023	0.070 U	0.15 U	0.070 U	0.20 U	0.070 U	0.25 U	0.35 U	0.15 U	**0.19 J**	**3.8**	0.090 U
MW-60	T1AMF-MW060-MAY24	NS	05/29/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**2.0**	0.30 U
MW-60	T1AMF-MW060_OCT24	NS	10/22/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	**1.4 J+**	0.30 U
MW-61	T1AMF-MW061_JUN24	NS	06/03/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U
MW-61	T1AMF-MW061_OCT24	NS	10/22/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U
MW-62	T1AMF-MW062_JUN24	NS	06/03/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U
MW-62	T1AMF-MW062_OCT24	NS	10/22/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U

Table 7a. Historical Groundwater Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloro-ethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloro-ethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			CA MCL	6.0	5.0	1.0	6.0	300	1750	1750	150	10	5.0	0.50
			USEPA Tapwater RSL	280	0.48	0.46	25	1.5	190	190	1100	68	0.49	0.019
			Sample Date											
MW-63	T1AMF-MW063_JUN24	NS	06/03/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U
MW-63	T1AMF-MW063_OCT24	NS	10/23/2024	0.20 U	0.20 UJ	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 UJ	0.20 UJ	0.30 U
MW-64	T1AMF-MW064_JUN24	NS	06/03/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U
MW-64	T1AMF-MW064_OCT24	NS	10/23/2024	0.20 U	0.20 UJ	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 UJ	0.20 UJ	0.30 U
MW-66	T1AMF-MW066_JUN24	NS	06/03/2024	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.50 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U
MW-66	T1AMF-MW066_OCT24	NS	10/21/2024	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.50 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ	0.30 UJ

QA NOTES AND DATA QUALIFIERS:

U - Analyte was analyzed for but not detected above the reported limit of detection (LOD).

UJ - Analyte not detected, reported LOD may be inaccurate or imprecise.

(NO CODE) - Confirmed detection.

J - Analyte detected, estimated concentration.

J+ - Analyte detected, estimated concentration with potential high bias.

J- - Analyte detected, estimated concentration with potential low bias.

X - Presence or absence of the analyte cannot be evaluated due to deficiencies in meeting quality control criteria.

Exceedances above the California MCL.

Exceedances above the USEPA Tapwater Level RSL.

Exceedances above both the California MCL and the USEPA Tapwater RSL.

NOTES:

CA MCL - California Maximum Contaminant Levels, August 16, 2023 revision.

USEPA Tapwater RSL - USEPA Regional Screening Level for Tapwater, November 2023, target risk = 1E-6, target hazard quotient = 1.

µg/L - micrograms per liter.

NS - Normal Sample.

FD - Field Duplicate of sample above.

PNC - Sample was planned but not collected.

Table 7b. Historical Soil Vapor Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloroethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloroethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
			HHSL	2400	8.5	3.2	280	37	3500	3500	10000	2800	16	0.32
			Sample Date											
SV-1	SV1NS-191216	NS	12/16/2019	9.2 U	14 U	**6.0 J**	9.2 U	**5.9 J**	**24**	**11 J**	**63**	9.2 U	**5,600**	6.0 U
SV-1	SV1NS-200617	NS	06/17/2020	12 U	18 U	9.9 U	**7.1 J**	13 U	13 U	13 U	**2.0 J**	12 U	**5,100**	7.9 U
SV-1	SV1DS-200617	FD	06/17/2020	13 U	19 U	10 U	13 U	14 U	14 U	14 U	**1.6 J**	13 U	**5,200**	8.3 U
SV-1	SV1NS-200927	NS	09/27/2020	11 U	17 U	9.2 U	**9.3 J**	12 U	12 U	12 U	11 U	11 U	**6,800**	7.3 U
SV-1	SV01NS-201110	NS	11/10/2020	10 U	16 U	**2.3 J**	**7.9 J**	6.9 U	6.9 U	6.9 U	**2.0 J**	10 U	**6,300**	6.8 U
SV-1	SV01DS-201110	FD	11/10/2020	11 U	16 U	7.0 U	**8.1 J**	7.0 U	**1.4 J**	7.0 U	6.0 U	11 U	**6,600**	6.8 U
SV-1	SV01NS-210215	NS	02/15/2021	10 U	15 U	**1.7 J**	10 U	11 U	11 U	11 U	**1.2 J**	10 U	**5,300**	6.5 U
SV-1	SV01NS-210510	NS	05/10/2021	8.6 U	13 U	**2.0 J**	8.6 U	5.7 U	**6.6 J**	**2.2 J**	**5.9 J**	8.6 U	**4,000**	5.6 U
SV-1	SV01NS-210816	NS	08/16/2021	14 U	22 U	12 U	14 U	16 U	16 U	16 U	14 U	14 U	**5,800**	9.2 U
SV-1	SV01NS-211130	NS	11/30/2021	10 U	15 U	8.1 U	10 U	11 U	11 U	11 U	9.6 U	10 U	**4,600**	6.5 U
SV-1	SV01NS-220215	NS	02/15/2022	15 U	23 U	12 U	15 U	16 U	16 U	16 U	14 U	15 U	**5,000**	9.7 U
SV-1	SV01NS-220801	NS	08/01/2022	15 U	22 U	12 U	15 U	16 U	16 U	16 U	14 U	15 U	**6,300**	9.4 U
SV-1	SV01NS-221024	NS	10/24/2022	12 U	18 U	9.8 U	**4.3 J**	13 U	13 U	13 U	12 U	12 U	**6,500**	7.9 U
SV-1	SV01NS-221220	NS	12/20/2022	0.60 U	0.90 U	**0.86**	**0.24 J**	**0.34 J**	**1.1**	**0.52 J**	**1.2**	0.60 U	**220**	0.38 U
SV-1	SV01NS-230220	NS	02/20/2023	15 U	23 U	12 U	15 U	16 U	16 U	16 U	**15 J**	15 U	**7,400**	9.7 U
SV-1	SV001_May24	NS	05/28/2024	17 U	25 U	14 U	**4.7 J**	18 U	18 U	18 U	16 U	17 U	**6,000**	11 U
SV-1	SV001_OCT24	NS	10/24/2024	13 U	19 U	10 U	**9.4 J**	14 U	14 U	14 U	12 U	13 U	**7,400**	8.2 U
SV-2	SV2NS-191216	NS	12/16/2019	0.88 U	1.3 U	**0.80**	0.88 U	**1.6 J**	**4.8 J**	**2.4 J**	**6.1 J**	0.88 U	**1.6**	0.57 U
SV-2	SV2DS-191216	FD	12/16/2019	0.88 U	1.3 U	**1.1**	0.88 U	**2.8 J**	**8.4 J**	**3.6 J**	**10 J**	0.88 U	**1.9**	0.56 U
SV-2	SV2NS-200616	NS	06/16/2020	0.84 U	1.3 U	**0.38 J**	0.84 U	**0.66 J**	**1.9**	**1.0 J**	**1.0**	0.84 U	**1.4**	0.54 U
SV-2	SV2NS-200927	NS	09/27/2020	0.86 U	1.3 U	**1.3 J**	0.86 U	0.94 U	**0.74 J**	0.94 U	**0.82 J**	0.86 U	**2.1**	0.55 U
SV-2	SV2DS-200927	FD	09/27/2020	0.87 U	1.3 U	**0.36 J**	0.86 U	0.95 U	0.95 U	0.95 U	**0.96 J**	0.86 U	**1.6**	0.56 U
SV-2	SV02NS-201110	NS	11/10/2020	0.86 U	1.3 U	**0.61 J**	0.86 U	**0.94 J**	**3.1**	**1.3**	**6.5**	0.86 U	**2.0**	0.55 U
SV-2	SV02NS-210215	NS	02/15/2021	0.69 U	1.0 U	**0.68 J**	0.69 U	0.75 U	**2.5**	0.75 U	**2.3**	0.69 U	**2.0**	0.44 U
SV-2	SV02NS-210510	NS	05/10/2021	0.70 U	1.1 U	**0.74**	0.70 U	**0.73 J**	**1.6 J**	**0.48 J**	**2.4**	0.70 U	**2.0**	0.45 U
SV-2	SV02DS-210510	FD	05/10/2021	0.71 U	1.1 U	**0.53 J**	0.71 U	**1.2**	**3.7 J**	**1.6 J**	**2.4**	0.71 U	**2.0**	0.46 U
SV-2	SV02NS-210816	NS	08/16/2021	0.68 U	1.0 U	**2.5**	0.68 U	**0.89 J**	**2.0**	**2.0**	**9.0**	0.68 U	**1.3**	0.44 U
SV-2	SV02NS-211130	NS	11/30/2021	0.53 U	0.81 U	**0.57 J**	0.53 U	**0.56 J**	**2.8**	**1.5**	**1.6**	0.53 U	**2.1**	0.34 U
SV-2	SV02NS-220217	NS	02/17/2022	0.62 U	0.93 U	**0.18 J**	0.62 U	0.67 U	**0.62 J**	**0.23 J**	**0.88**	0.62 U	**2.9**	0.40 U
SV-2	SV02NS-220801	NS	08/01/2022	0.077 U	0.12 U	**0.27 J**	**0.10 J**	**0.47 J**	**2.4**	**1.4**	0.81 U	**0.11 J**	**5.7**	0.049 U
SV-2	SV02NS-221024	NS	10/24/2022	0.60 U	0.92 U	0.49 U	0.60 U	0.66 U	**0.84**	**0.40 J**	**0.41 J**	0.60 U	**2.7**	0.39 U
SV-2	SV02NS-221220	NS	12/20/2022	0.62 U	0.93 U	**0.76**	0.62 U	**0.34 J**	**1.0**	**0.51 J**	**1.0**	0.62 U	**0.23 J**	0.40 U
SV-2	SV2NS-230221	NS	02/21/2023	0.62 U	0.93 U	0.50 U	0.62 U	0.67 U	0.67 U	0.67 U	0.58 U	0.62 U	**3.8**	0.40 U
SV-2	SV002_May24	NS	05/31/2024	4.1 U	6.2 U	3.3 U	4.1 U	4.4 U	4.4 U	4.4 U	3.9 U	4.1 U	**2.3 J**	2.6 U
SV-2	SV002_OCT24	NS	10/25/2024	3.6 U	5.4 U	**0.61 J**	3.6 U	3.9 U	**4.1 J**	**1.7 J**	**3.9 J**	3.6 U	**1.2 J**	2.3 U

Table 7b. Historical Soil Vapor Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloroethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloroethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
			HHSL	2400	8.5	3.2	280	37	3500	3500	10000	2800	16	0.32
			Sample Date											
SV-3	SV3NS-200927	NS	09/27/2020	0.89 U	1.4 U	**1.3**	0.89 U	0.98 U	**1.4**	**0.70 J**	**3.8**	0.89 U	**3.6**	0.58 U
SV-3	SV03NS-201110	NS	11/10/2020	0.77 U	1.2 U	0.62 U	0.77 U	0.84 U	0.84 U	0.84 U	**0.57 J**	0.77 U	1.0 U	0.49 U
SV-3	SV03NS-210215	NS	02/15/2021	0.78 U	1.2 U	0.63 U	0.78 U	0.85 U	**2.4**	0.85 U	**1.7**	0.78 U	**1.1 J**	0.50 U
SV-3	SV03NS-210510	NS	05/10/2021	0.76 U	1.2 U	**1.0**	0.76 U	**2.4**	**7.1**	**3.3**	**5.5**	0.76 U	1.0 U	0.49 U
SV-3	SV03NS-210816	NS	08/16/2021	0.74 U	1.1 U	**0.84**	0.74 U	**0.53 J**	**1.6**	**1.1**	**1.0**	0.74 U	1.0 U	0.48 U
SV-3	SV03DS-210816	FD	08/16/2021	0.73 U	1.1 U	**0.77**	0.73 U	**0.65 J**	**2.1**	**1.3**	**1.6**	0.73 U	0.99 U	0.47 U
SV-3	SV03NS-211130	NS	11/30/2021	0.52 U	0.79 U	**0.30 J**	0.52 U	0.57 U	**0.14 J**	0.57 U	**0.32 J**	0.52 U	**0.46 J**	0.34 U
SV-3	SV03NS-220215	NS	02/15/2022	0.67 U	1.0 U	0.54 U	0.67 U	0.74 U	0.74 U	0.74 U	**0.26 J**	0.67 U	**1.3**	0.43 U
SV-3	SV03NS-220803	NS	08/03/2022	0.072 U	0.11 U	**0.23 J**	0.072 U	**0.098 J**	**0.38 J**	**0.24 J**	0.76 U	0.072 U	**6.9**	**0.028 J**
SV-3	SV03NS-221026	NS	10/26/2022	0.60 U	0.92 U	**0.23 J**	0.60 U	**0.20 J**	**0.98**	**0.45 J**	**0.49 J**	0.60 U	0.82 U	0.39 U
SV-3	SV03NS-221219	NS	12/19/2022	0.63 U	0.96 U	**0.67**	0.63 U	**0.47 J**	**1.7**	**0.94**	**1.3**	0.63 U	0.86 U	0.41 U
SV-3	SV3NS-230222	NS	02/22/2023	0.74 U	1.1 U	**0.16 J**	0.74 U	0.81 U	0.81 U	0.81 U	0.70 U	0.74 U	1.0 U	0.48 U
SV-3	SV3DS-230222	FD	02/22/2023	0.73 U	1.1 U	**0.56 J**	0.73 U	0.80 U	**0.51 J**	0.80 U	**1.7 J**	0.73 U	**0.54 J**	0.47 U
SV-3	SV003_JUN24	NS	06/03/2024	4.0 U	6.1 U	3.2 U	4.0 U	4.4 U	**1.4 J**	4.4 U	**1.5 J**	4.0 U	5.4 U	2.6 U
SV-3	SV003_OCT24	NS	10/23/2024	4.0 U	6.1 U	3.2 U	4.0 U	4.4 U	4.4 U	4.4 U	3.8 U	4.0 U	5.4 U	2.6 U
SV-4	SV4NS-200928	NS	09/28/2020	0.93 U	1.4 U	0.75 U	0.93 U	1.0 U	1.0 U	1.0 U	**0.40 J**	0.93 U	**1.0 J**	0.60 U
SV-4	SV04NS-201111	NS	11/11/2020	0.83 U	1.3 U	0.67 U	0.83 U	0.91 U	**0.58 J**	0.91 U	**1.1**	0.83 U	**1.7**	0.54 U
SV-4	SV04NS-210216	NS	02/16/2021	0.82 U	1.2 U	0.66 U	0.82 U	0.90 U	**3.2**	0.90 U	**1.3**	0.82 U	1.1 U	0.53 U
SV-4	SV04NS-210511	NS	05/11/2021	0.74 U	1.1 U	**0.54 J**	0.74 U	0.81 U	**2.0**	**1.0**	**0.82 J**	0.74 U	1.0 U	0.48 U
SV-4	SV04NS-210817	NS	08/17/2021	0.68 U	1.0 U	**0.65 J**	0.68 U	**0.69 J**	**2.6 J**	**1.8**	**2.4 J**	0.68 U	**0.20 J**	0.44 U
SV-4	SV04DS-210817	FD	08/17/2021	0.68 U	1.0 U	**0.26 J**	0.68 U	**0.42 J**	**1.6 J**	**1.3**	**1.0 J**	0.68 U	0.92 U	0.44 U
SV-4	SV04NS-211201	NS	12/01/2021	0.60 U	0.91 U	**2.2**	0.60 U	**0.35 J**	**2.1**	**1.1**	**1.2**	0.60 U	0.81 U	0.38 U
SV-4	SV04NS-220216	NS	02/16/2022	0.72 U	1.1 U	**0.16 J**	0.72 U	0.78 U	**0.31 J**	0.78 U	**0.31 J**	0.72 U	**0.28 J**	0.46 U
SV-4	SV04DS-220216	FD	02/16/2022	0.72 U	1.1 U	**0.31 J**	0.72 U	0.79 U	0.79 U	0.79 U	**0.16 J**	0.72 U	**0.28 J**	0.47 U
SV-4	SV04NS-220803	NS	08/03/2022	0.071 U	0.11 U	**0.28 J**	0.071 U	**0.10 J**	**0.47 J**	**0.27 J**	0.75 U	0.071 U	**0.24 J**	0.046 U
SV-4	SV04NS-221025	NS	10/25/2022	0.68 U	1.0 U	**0.20 J**	0.68 U	**0.33 J**	**1.6**	**0.87 J**	**0.45 J**	0.68 U	**0.58 J**	0.44 U
SV-4	SV04NS-221219	NS	12/19/2022	0.63 U	0.96 U	**0.62 J**	0.63 U	**0.35 J**	**1.3**	**0.74 J**	**0.93**	0.63 U	0.86 U	0.41 U
SV-4	SV4NS-230221	NS	02/21/2023	0.66 U	1.0 U	**0.14 J**	0.66 U	0.72 U	**1.0**	**0.36 J**	**0.50 J**	0.66 U	**2.4**	0.42 U
SV-4	SV004_May24	NS	05/30/2024	4.2 U	6.4 U	3.4 U	4.2 U	4.6 U	**1.2 J**	4.6 U	4.0 U	4.2 U	**3.2 J**	2.7 U
SV-4	SV004_OCT24	NS	10/28/2024	4.2 U	6.3 U	**1.6 J**	4.2 U	4.6 U	**4.3 J**	**1.8 J**	**9.6**	4.2 U	5.6 U	2.7 U
SV-5	SV5NS-191217	NS	12/17/2019	17 U	26 U	**24**	17 U	**12 J**	**43**	**16 J**	**160**	17 U	**350**	11 U
SV-5B	SV5BNS-200929	NS	09/29/2020	0.86 U	1.3 U	**1.0**	0.86 U	0.94 U	**0.55 J**	0.94 U	**0.54 J**	0.86 U	**290**	0.56 U
SV-5B	SV05BNS-201112	NS	11/12/2020	0.79 U	1.2 U	0.63 U	0.79 U	0.86 U	0.86 U	0.86 U	**0.38 J**	0.79 U	**250**	0.51 U
SV-5B	SV05BNS-210217	NS	02/17/2021	0.76 U	1.1 U	**0.39 J**	0.76 U	0.83 U	**1.5**	0.83 U	**0.84 J**	0.76 U	**89**	0.49 U
SV-5B	SV05NS-210512	NS	05/12/2021	0.74 U	1.1 U	**0.42 J**	0.74 U	0.82 U	**2.2**	**0.94 J**	**1.2**	0.74 U	**170**	0.48 U
SV-5B	SV05BNS-210818	NS	08/18/2021	0.66 U	1.0 U	**0.43 J**	0.66 U	**0.26 J**	**1.1**	**0.80 J**	**0.68 J**	0.66 U	**130**	0.42 U

Table 7b. Historical Soil Vapor Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloroethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloroethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
			HHSL	2400	8.5	3.2	280	37	3500	3500	10000	2800	16	0.32
			Sample Date											
SV-5B	SV05BNS-211201	NS	12/01/2021	0.53 U	0.80 U	**0.36 J**	0.53 U	**0.26 J**	**1.4**	**0.82 J**	**1.0**	0.53 U	**130**	0.34 U
SV-5B	SV05NS-220214	NS	02/14/2022	0.59 U	0.90 U	**0.39 J**	0.59 U	0.65 U	**0.18 J**	0.65 U	**0.25 J**	0.59 U	**130**	0.38 U
SV-5B	SV05NS-220801	PNC	08/01/2022	--	--	--	--	--	--	--	--	--	--	--
SV-5B	SV5bNS-230223	NS	02/23/2023	0.52 U	0.79 U	**0.24 J**	0.52 U	**0.29 J**	**1.4**	**0.65 J**	**0.43 J**	0.52 U	**50**	0.33 U
SV-5B	SV005B_May24	NS	05/30/2024	4.5 U	6.8 U	3.6 U	4.5 U	4.9 U	**1.9 J**	4.9 U	4.2 U	4.5 U	**110**	2.9 U
SV-5B	SV005B_OCT24	NS	10/29/2024	3.7 U	5.6 U	3.0 U	3.7 U	4.0 U	4.0 U	4.0 U	3.5 U	3.7 U	**130**	2.4 U
SV-6	SV6NS-200929	NS	09/29/2020	0.89 U	1.4 U	**1.1**	0.89 U	0.98 U	0.98 U	0.98 U	**0.90 J**	0.89 U	**25**	0.58 U
SV-6	SV06NS-201112	NS	11/12/2020	0.79 U	1.2 U	0.64 U	0.79 U	0.87 U	0.87 U	0.87 U	**0.67 J**	0.79 U	**25**	0.51 U
SV-6	SV06NS-210216	NS	02/16/2021	1.1 U	1.6 U	**0.76 J**	1.1 U	**2.0**	**15**	**4.8**	**5.6**	1.1 U	**44**	0.70 U
SV-6	SV06NS-210512	NS	05/12/2021	0.73 U	1.1 U	**0.54 J**	0.73 U	**0.94 J**	**3.8**	**1.6**	**1.3**	0.73 U	**14**	0.47 U
SV-6	SV06NS-210817	NS	08/17/2021	0.68 U	1.0 U	**1.7**	0.68 U	**0.79 J**	**2.6**	**1.9**	**1.3**	0.68 U	**30**	0.44 U
SV-6	SV06NS-211202	NS	12/02/2021	0.54 U	0.82 U	**0.55 J**	0.54 U	**0.30 J**	**1.8**	**0.88**	**1.1**	0.54 U	**17**	0.35 U
SV-6	SV06DS-211202	FD	12/02/2021	0.54 U	0.82 U	**0.42 J**	0.54 U	**0.35 J**	**1.6**	**0.89**	**1.1**	0.54 U	**17**	0.35 U
SV-6	SV06NS-220214	NS	02/14/2022	0.59 U	0.89 U	**0.40 J**	0.59 U	0.64 U	**0.43 J**	0.64 U	**0.30 J**	0.59 U	**9.6**	0.38 U
SV-6	SV06NS-220801	PNC	08/01/2022	--	--	--	--	--	--	--	--	--	--	--
SV-6	SV6NS-230222	NS	02/22/2023	0.58 U	0.89 U	**1.8**	**0.14 J**	**0.24 J**	**0.30 J**	**0.15 J**	**1.3**	0.58 U	**9.8**	0.38 U
SV-6	SV006_May24	NS	05/30/2024	4.1 U	6.2 U	3.3 U	4.1 U	4.5 U	4.5 U	4.5 U	3.9 U	4.1 U	**2.8 J**	2.6 U
SV-6	SV006_OCT24	NS	10/29/2024	3.7 U	5.6 U	3.0 U	3.7 U	4.0 U	4.0 U	4.0 U	**1.0 J**	3.7 U	**5.7**	2.4 U
SV-7	SV7NS-200929	NS	09/29/2020	0.82 U	1.2 U	**1.0**	0.82 U	0.90 U	**1.6**	**1.2**	**0.44 J**	0.82 U	1.1 U	0.53 U
SV-7	SV7DS-200929	FD	09/29/2020	0.83 U	1.3 U	**0.38 J**	0.83 U	0.91 U	0.91 U	0.91 U	0.79 U	0.83 U	**0.98 J**	0.54 U
SV-7	SV07NS-201112	NS	11/12/2020	0.76 U	1.1 U	0.61 U	0.76 U	0.83 U	0.83 U	0.83 U	0.72 U	0.76 U	1.0 U	0.49 U
SV-7	SV07NS-210218	NS	02/18/2021	0.73 U	1.1 U	0.59 U	0.73 U	0.80 U	**0.49 J**	0.80 U	**0.36 J**	0.73 U	0.99 U	0.47 U
SV-7	SV07DS-210218	FD	02/18/2021	0.72 U	1.1 U	0.58 U	0.72 U	0.79 U	**0.64 J**	0.79 U	**0.41 J**	0.72 U	0.98 U	0.46 U
SV-7	SV07NS-210512	NS	05/12/2021	0.74 U	1.1 U	**2.1**	0.74 U	**1.0**	**3.8**	**2.4**	**1.3**	0.74 U	1.0 U	0.47 U
SV-7	SV07NS-210818	NS	08/18/2021	0.63 U	0.96 U	**0.87**	0.63 U	**0.39 J**	**1.4**	**1.0**	**0.89**	0.63 U	0.86 U	0.41 U
SV-7	SV07NS-211202	NS	12/02/2021	0.57 U	0.86 U	**0.74**	0.57 U	**0.26 J**	**1.2**	**0.58 J**	**2.4**	0.57 U	0.77 U	0.36 U
SV-7	SV07NS-220214	NS	02/14/2022	0.64 U	0.97 U	**1.2**	0.64 U	0.70 U	**0.31 J**	0.70 U	**0.89**	0.64 U	0.87 U	0.41 U
SV-7	SV07NS-220801	PNC	08/01/2022	--	--	--	--	--	--	--	--	--	--	--
SV-7	SV07NS-221220	NS	12/20/2022	0.63 U	0.96 U	**0.78**	0.63 U	**0.27 J**	**1.3**	**0.57 J**	**1.1**	0.63 U	0.86 U	0.41 U
SV-7	SV7NS-230223	NS	02/23/2023	0.53 U	0.80 U	**0.17 J**	0.53 U	**0.24 J**	**0.72 J**	**0.24 J**	**0.64 J**	0.53 U	0.72 U	0.34 U
SV-7	SV007_May24	NS	05/30/2024	3.9 U	6.0 U	3.2 U	3.9 U	4.3 U	4.3 U	4.3 U	3.7 U	3.9 U	5.3 U	2.5 U
SV-8	SV8NS-200929	NS	09/29/2020	0.81 U	1.2 U	**0.87**	0.81 U	0.89 U	0.89 U	0.89 U	0.77 U	0.81 U	1.1 U	0.52 U
SV-8	SV08DS-201113	NS	11/13/2020	0.76 U	1.2 U	0.61 U	0.76 U	0.83 U	0.83 U	0.83 U	**1.1**	0.76 U	1.0 U	0.49 U
SV-8	SV08NS-201113	NS	11/13/2020	0.82 U	1.2 U	0.66 U	0.82 U	0.90 U	0.90 U	0.90 U	**0.38 J**	0.82 U	1.1 U	0.53 U
SV-8	SV08NS-210218	NS	02/18/2021	0.67 U	1.0 U	**0.34 J**	0.67 U	0.73 U	**1.1**	0.73 U	**0.46 J**	0.67 U	0.91 U	0.43 U
SV-8	SV08NS-210512	NS	05/12/2021	0.73 U	1.1 U	**1.0**	0.73 U	**1.0**	**4.6**	**2.5**	**1.2**	0.73 U	0.98 U	0.47 U

Table 7b. Historical Soil Vapor Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloroethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloroethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
			HHSL	2400	8.5	3.2	280	37	3500	3500	10000	2800	16	0.32
			Sample Date											
SV-8	SV08NS-210817	NS	08/17/2021	0.76 U	1.1 U	4.7	0.76 U	2.2	4.5	3.2	5.9	0.76 U	1.5	0.49 U
SV-8	SV08NS-211202	NS	12/02/2021	0.56 U	0.85 U	0.58 J	0.56 U	0.33 J	1.6	0.94	0.99	0.56 U	0.76 U	0.36 U
SV-8	SV08NS-220217	NS	02/17/2022	0.67 U	1.0 U	0.88	0.67 U	0.38 J	2.1	0.70 J	2.6	0.67 U	0.91 U	0.43 U
SV-8	SV08NS-220801	PNC	08/01/2022	--	--	--	--	--	--	--	--	--	--	--
SV-8	SV08NS-221220	NS	12/20/2022	0.63 U	0.96 U	0.78	0.63 U	0.39 J	1.4	0.57 J	1.1	0.63 U	0.86 U	0.41 U
SV-8	SV8NS-230222	NS	02/22/2023	0.55 U	0.83 U	0.16 J	0.55 U	0.60 U	0.11 J	0.60 U	0.14 J	0.55 U	0.36 J	0.35 U
SV-8	SV008_May24	NS	05/30/2024	4.2 U	6.4 U	3.4 U	4.2 U	4.6 U	3.3 J	1.9 J	2.1 J	4.2 U	5.8 U	2.7 U
SV-9	SV9NS-191217	NS	12/17/2019	11 U	16 U	21	11 U	12 U	7.6 J	3.6 J	120	11 U	2,300	7.0 U
SV-9B	SV9BNS-200930	NS	09/30/2020	0.83 U	1.3 U	0.41 J	0.83 U	0.91 U	0.91 U	0.91 U	0.79 U	0.83 U	1.5	0.54 U
SV-9B	SV09BNS-201113	NS	11/13/2020	0.74 U	1.1 U	0.60 U	0.54 J	0.81 U	0.81 U	0.81 U	0.70 U	0.74 U	5.2	0.48 U
SV-9B	SV09BNS-210217	NS	02/17/2021	0.76 U	1.2 U	0.62 U	0.76 U	0.84 U	3.0	0.84 U	1.8	0.76 U	0.93 J	0.49 U
SV-9B	SV09NS-210512	NS	05/12/2021	0.72 U	1.1 U	0.61 J	0.72 U	0.60 J	3.4	1.4	1.2	0.72 U	0.98 J	0.46 U
SV-9B	SV09NS-210817	NS	08/17/2021	0.68 U	1.0 U	0.41 J	0.25 J	0.58 J	2.3	1.6	1.2	0.68 U	2.8	0.44 U
SV-9B	SV09BNS-211201	NS	12/01/2021	0.58 U	0.88 U	0.52 J	0.58 U	0.18 J	1.3	0.70 J	0.87	0.58 U	2.8	0.37 U
SV-9B	SV09NS-220322	NS	03/22/2022	0.64 U	0.97 U	0.52 U	0.64 U	0.30 J	1.2	0.82 J	0.24 J	0.64 U	10	0.41 U
SV-9B	SV09BNS-220801	NS	08/01/2022	0.073 U	0.111 U	0.26 J	0.073 U	0.12 J	0.49 J	0.32 J	0.77 U	0.073 U	1.2	0.047 U
SV-9B	SV09BNS-221025	NS	10/25/2022	0.66 U	1.0 U	0.53 U	0.66 U	0.72 U	0.48 J	0.42 J	0.29 J	0.66 U	2.0	0.42 U
SV-9B	SV09bNS-221221	NS	12/21/2022	0.63 U	0.95 U	0.55 J	0.63 U	0.69 U	0.49 J	0.23 J	0.72 J	0.63 U	0.96 J	0.40 U
SV-9B	SV09bDS-221221	FD	12/21/2022	0.64 U	0.97 U	0.55 J	0.64 U	0.70 U	0.42 J	0.22 J	0.67 J	0.64 U	1.2	0.41 U
SV-9B	SV9bNS-230221	NS	02/21/2023	0.69 U	1.0 U	0.15 J	0.69 U	0.76 U	0.99	0.35 J	0.41 J	0.69 U	6.9	0.44 U
SV-9B	SV009B_JUN24	NS	06/06/2024	4.1 U	6.2 U	3.3 U	4.1 U	4.5 U	4.5 U	4.5 U	3.9 U	4.1 U	11	2.6 U
SV-9B	SV09B_OCT24	NS	10/28/2024	3.9 U	5.9 U	3.1 U	3.9 U	4.2 U	1.8 J	4.2 U	1.6 J	3.9 U	3.1 J	2.5 U
SV-10	SV10NS-191216	NS	12/16/2019	0.88 U	1.3 U	1.5	0.88 U	4.9	17	8.7	18	0.88 U	2.0	0.56 U
SV-10	SV10NS-200616	NS	06/16/2020	0.80 U	0.33 J	0.66 J	0.80 U	0.61 J	2.3 J	1.1	0.65 J	0.80 U	0.77 J	0.52 U
SV-10	SV10DS-200616	FD	06/16/2020	0.80 U	1.2 U	0.34 J	0.80 U	0.30 J	0.93 J	0.59 J	0.25 J	0.80 U	1.3 J	0.52 U
SV-10	SV10NS-200928	NS	09/28/2020	0.92 U	1.4 U	0.61 J	0.92 U	1.0 U	1.0 U	1.0 U	0.88 U	0.92 U	1.2 U	0.60 U
SV-10	SV10NS-201111	NS	11/11/2020	0.85 U	1.3 U	0.69 U	0.85 U	0.93 U	0.64 J	0.93 U	0.49 J	0.85 U	2.5	0.55 U
SV-10	SV10NS-210216	NS	02/16/2021	0.71 U	1.1 U	0.46 J	0.71 U	0.78 U	3.0	0.61 J	2.9	0.71 U	0.71 J	0.46 U
SV-10	SV10NS-210511	NS	05/11/2021	0.72 U	1.1 U	0.28 J	0.72 U	0.99	3.2	1.7	1.8	0.72 U	0.98 U	0.47 U
SV-10	SV10NS-210816	NS	08/16/2021	0.70 U	1.1 U	0.80	0.70 U	0.53 J	1.6	1.1	1.1	0.70 U	1.6	0.45 U
SV-10	SV10NS-211130	NS	11/30/2021	0.55 U	0.83 U	0.33 J	0.55 U	0.45 J	1.9	1.1	1.3	0.55 U	0.62 J	0.35 U
SV-10	SV10DS-211130	FD	11/30/2021	0.53 U	0.81 U	0.35 J	0.53 U	0.43 J	2.1	1.0	1.4	0.53 U	1.5	0.34 U
SV-10	SV10NS-220215	NS	02/15/2022	0.66 U	1.0 J	0.19 J	0.66 U	1.7	4.7	1.5	2.0	0.66 U	0.70 J	0.43 U
SV-10	SV10NS-220802	NS	08/02/2022	0.087 U	0.132 U	0.38 J	0.087 U	0.066 J	0.24 J	0.17 J	0.92 U	0.087 U	3.4	0.056 U
SV-10	SV10NS-221026	NS	10/26/2022	0.59 U	0.90 U	0.20 J	0.59 U	0.65 U	0.63 J	0.36 J	0.34 J	0.59 U	0.80 U	0.38 U
SV-10	SV10NS-221219	NS	12/19/2022	0.65 U	0.98 U	0.57 J	0.65 U	0.40 J	1.6	0.87 J	0.98	0.65 U	0.88 U	0.42 U

Table 7b. Historical Soil Vapor Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloroethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloroethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
			HHSL	2400	8.5	3.2	280	37	3500	3500	10000	2800	16	0.32
			Sample Date											
SV-10	SV010_JUN24	NS	06/03/2024	3.5 U	5.3 U	2.8 U	3.5 U	3.8 U	**1.2 J**	3.8 U	**1.0 J**	3.5 U	4.7 U	2.2 U
SV-10	SV010_OCT24	NS	10/23/2024	3.8 U	5.7 U	3.0 U	3.8 U	4.1 U	4.1 U	4.1 U	3.6 U	3.8 U	5.1 U	2.4 U
SV-11	SV11NS-191216	PNC	12/16/2019	--	--	--	--	--	--	--	--	--	--	--
SV-11	SV11NS-200616	PNC	06/16/2020	--	--	--	--	--	--	--	--	--	--	--
SV-11	SV11NS-200927	NS	09/27/2020	1.6 U	2.4 U	**0.70 J**	1.6 U	1.7 U	**1.4 J**	**1.3 J**	**1.5 J**	1.6 U	**2.2 J**	1.0 U
SV-11	SV11NS-201111	NS	11/11/2020	1.2 U	1.8 U	**0.45 J**	1.2 U	1.3 U	**2.1**	**0.97 J**	**2.8**	1.2 U	**5.0**	0.76 U
SV-11	SV11NS-210216	PNC	02/16/2021	--	--	--	--	--	--	--	--	--	--	--
SV-11	SV11NS-210511	NS	05/11/2021	1.1 U	1.6 U	**0.77 J**	1.1 U	**1.7**	**5.7**	**2.9**	**2.7**	1.1 U	1.5 U	0.70 U
SV-11	SV11NS-210816	NS	08/16/2021	0.95 U	1.4 U	**1.8**	0.95 U	**0.84 J**	**2.4**	**1.7**	**3.0**	0.95 U	**2.1**	0.61 U
SV-11	SV11NS-211130	PNC	11/30/2021	--	--	--	--	--	--	--	--	--	--	--
SV-11	SV11NS-220215	PNC	02/15/2022	--	--	--	--	--	--	--	--	--	--	--
SV-11	SV11NS-220802	NS	08/02/2022	0.11 U	0.17 U	**0.39 J**	0.11 U	**0.18 J**	**0.47 J**	**0.33 J**	1.2 U	0.11 U	**0.49 J**	0.072 U
SV-11	SV11NS-221026	NS	10/26/2022	0.58 U	0.88 U	**0.33 J**	0.58 U	0.63 U	**0.41 J**	**0.33 J**	**0.29 J**	0.58 U	0.78 U	0.37 U
SV-11	SV11NS-221219	NS	12/19/2022	0.62 U	0.94 U	**0.55 J**	0.62 U	**0.41 J**	**1.7**	**0.82 J**	**0.97**	0.62 U	0.84 U	0.40 U
SV-11	SV011_OCT24	NS	10/23/2024	3.8 U	5.7 U	3.0 U	3.8 U	4.1 U	4.1 U	4.1 U	**1.2 J**	3.8 U	5.1 U	2.4 U
SV-12	SV12NS-191216	PNC	12/16/2019	--	--	--	--	--	--	--	--	--	--	--
SV-12	SV12NS-200616	PNC	06/16/2020	--	--	--	--	--	--	--	--	--	--	--
SV-12	SV12NS-200928	PNC	09/28/2020	--	--	--	--	--	--	--	--	--	--	--
SV-12	SV12NS-201111	PNC	11/11/2020	--	--	--	--	--	--	--	--	--	--	--
SV-12	SV12NS-210216	PNC	02/16/2021	--	--	--	--	--	--	--	--	--	--	--
SV-12	SV12NS-210511	PNC	05/11/2021	--	--	--	--	--	--	--	--	--	--	--
SV-12	SV12NS-210817	NS	08/17/2021	**2.5 J**	10 U	**1.7 J**	**30**	7.2 U	7.2 U	7.2 U	**1.2 J**	**2.9 J**	**2,800**	4.2 U
SV-12	SV12NS-211130	PNC	11/30/2021	--	--	--	--	--	--	--	--	--	--	--
SV-12	SV12NS-220215	PNC	02/15/2022	--	--	--	--	--	--	--	--	--	--	--
SV-12	SV12NS-220801	NS	08/01/2022	6.2 U	9.3 U	5.0 U	**23**	6.7 U	6.7 U	6.7 U	5.8 U	6.2 U	**2,400**	4.0 U
SV-12	SV12NS-221025	NS	10/25/2022	1.2 U	1.8 U	**0.52 J**	**6.4**	1.3 U	**0.57 J**	**0.24 J**	**0.38 J**	**1.2 J**	**740**	0.76 U
SV-12	SV12NS-221221	NS	12/21/2022	0.65 U	0.99 U	**0.91**	**0.64 J**	**0.33 J**	**1.2**	**0.54 J**	**1.3**	0.65 U	**64**	0.42 U
SV-15B	SV15BNS-200928	NS	09/28/2020	0.74 U	1.1 U	**0.38 J**	0.74 U	0.81 U	0.81 U	0.81 U	0.70 U	0.74 U	**15**	0.48 U
SV-15B	SV15BNS-201111	NS	11/11/2020	0.78 U	1.2 U	0.63 U	0.78 U	0.86 U	**0.68 J**	0.86 U	**1.0**	0.78 U	**10**	0.50 U
SV-15B	SV15NS-210511	NS	05/11/2021	0.72 U	1.1 U	**0.44 J**	0.72 U	**0.63 J**	**1.9**	**0.96 J**	**1.0**	0.72 U	0.97 U	0.46 U
SV-15B	SV15BNS-210816	NS	08/16/2021	0.75 U	1.1 U	**1.3**	0.75 U	**0.70 J**	**2.7**	**1.4**	**1.9**	0.75 U	1.0 U	0.49 U
SV-15B	SV15BNS-211201	NS	12/01/2021	0.51 U	0.77 U	**0.25 J**	0.51 U	0.56 U	**0.21 J**	0.56 U	**2.0**	0.51 U	0.69 U	0.33 U
SV-15B	SV15NS-220216	NS	02/16/2022	0.67 U	1.0 U	**13**	0.67 U	**3.5**	**13**	**5.3**	**31**	0.67 U	**0.29 J**	0.43 U
SV-15B	SV15BNS-220802	NS	08/02/2022	0.074 U	0.112 U	**0.20 J**	0.074 U	**0.082 J**	**0.39 J**	**0.22 J**	0.78 U	0.074 U	**0.37 J**	0.048 U
SV-15B	SV15BNS-221026	NS	10/26/2022	0.62 U	0.93 U	**0.19 J**	0.62 U	0.67 U	**0.29 J**	**0.20 J**	**0.19 J**	0.62 U	0.84 U	0.40 U
SV-15B	SV15bNS-230222	NS	02/22/2023	0.67 U	1.0 U	**0.14 J**	0.67 U	0.74 U	0.74 U	0.74 U	0.64 U	0.67 U	**0.94 J**	0.43 U

Table 7b. Historical Soil Vapor Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloroethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloroethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
			HHSL	2400	8.5	3.2	280	37	3500	3500	10000	2800	16	0.32
			Sample Date											
SV-15B	SV015B_May24	NS	05/31/2024	3.8 U	5.8 U	3.1 U	3.8 U	4.2 U	4.2 U	4.2 U	3.6 U	3.8 U	5.2 U	2.4 U
SV-15B	SV015B_OCT24	NS	10/28/2024	3.8 U	5.7 U	3.0 U	3.8 U	4.1 U	4.1 U	4.1 U	3.6 U	3.8 U	5.1 U	2.4 U
SV-16	SV16NS-200929	NS	09/29/2020	0.80 U	1.2 U	0.65 U	0.80 U	0.88 U	0.88 U	0.88 U	0.76 U	0.80 U	**190**	0.52 U
SV-16	SV16NS-201112	NS	11/12/2020	0.86 U	1.3 U	0.69 U	0.86 U	0.94 U	0.94 U	0.94 U	**0.75 J**	0.86 U	**160**	0.55 U
SV-16	SV16NS-210218	NS	02/18/2021	0.75 U	1.1 U	0.61 U	0.75 U	0.83 U	**1.3**	0.83 U	**0.40 J**	0.75 U	**120**	0.49 U
SV-16	SV16NS-210512	NS	05/12/2021	0.76 U	1.1 U	0.61 U	0.76 U	**0.53 J**	**2.1**	**1.2**	**0.71 J**	0.76 U	**110**	0.49 U
SV-16	SV16DS-210512	FD	05/12/2021	0.75 U	1.1 U	**0.31 J**	0.75 U	0.82 U	**2.4**	**1.0**	**0.70 J**	0.75 U	**110**	0.48 U
SV-16	SV16NS-210817	NS	08/17/2021	0.66 U	1.0 U	**0.52 J**	0.66 U	**0.60 J**	**2.0**	**1.4**	**1.1**	0.66 U	**100**	0.42 U
SV-16	SV16NS-211202	NS	12/02/2021	0.50 U	0.76 U	**0.55 J**	0.50 U	**0.35 J**	**1.6**	**1.0**	**1.0**	0.50 U	**160**	0.32 U
SV-16	SV16NS-220215	NS	02/15/2022	0.66 U	1.0 U	**0.22 J**	0.66 U	0.72 U	**0.22 J**	0.73 U	**0.37 J**	0.66 U	**110**	0.43 U
SV-16	SV16NS-220801	PNC	08/01/2022	--	--	--	--	--	--	--	--	--	--	--
SV-16	SV16NS-230222	NS	02/22/2023	0.56 U	0.85 U	**0.14 J**	0.56 U	0.61 U	0.61 U	0.61 U	0.53 U	0.56 U	**77**	0.36 U
SV-16	SV016_May24	NS	05/30/2024	4.2 U	6.3 U	3.4 U	4.2 U	4.6 U	4.6 U	4.6 U	4.0 U	4.2 U	**140**	2.7 U
SV-16	SV016_OCT24	NS	10/29/2024	3.6 U	5.4 U	2.9 U	3.6 U	3.9 U	3.9 U	3.9 U	**0.96 J**	3.6 U	**210**	2.3 U
SV-17	SV17NS-191216	NS	12/16/2019	1.2 U	1.8 U	**50**	1.2 U	**13**	**35**	**17**	**120**	1.2 U	**12**	0.76 U
SV-17	SV17NS-200616	NS	06/16/2020	1.4 U	**0.67 J**	**12**	1.4 U	**1.5 J**	**5.8**	**2.4**	**14**	1.4 U	**1.2 J**	0.88 U
SV-17B	SV17BNS-200927	NS	09/27/2020	0.83 U	1.3 U	**0.42 J**	0.83 U	0.91 U	0.91 U	0.91 U	**1.2**	0.83 U	**18**	0.54 U
SV-17B	SV17BNS-201110	NS	11/10/2020	0.77 U	1.2 U	0.62 U	0.77 U	0.84 U	**0.63 J**	0.84 U	**0.55 J**	0.77 U	**2.4**	0.49 U
SV-17B	SV17NS-210510	NS	05/10/2021	0.74 U	1.1 U	**1.7**	0.74 U	**0.56 J**	**23**	**9.6**	**19**	0.74 U	1.0 U	0.48 U
SV-17B	SV17BNS-210816	NS	08/16/2021	0.70 U	**2.2**	**0.45 J**	**0.65 J**	**0.54 J**	**1.8**	**1.1**	**0.97**	0.70 U	**8.2**	0.45 U
SV-17B	SV17BNS-211130	NS	11/30/2021	0.57 U	0.87 U	**0.36 J**	0.57 U	**0.15 J**	**0.90 J**	**0.43 J**	**1.2**	0.57 U	0.77 U	0.37 U
SV-17B	SV17NS-220215	NS	02/15/2022	0.68 U	1.0 U	**0.18 J**	0.68 U	0.74 U	0.74 U	0.74 U	**0.17 J**	0.68 U	**2.1**	0.44 U
SV-17B	SV17BNS-220802	NS	08/02/2022	0.077 U	0.12 U	**0.34 J**	0.077 U	**0.098 J**	**0.44 J**	**0.27 J**	0.81 U	0.077 U	**0.56 J**	0.050 U
SV-17B	SV17BNS-221026	NS	10/26/2022	0.60 U	0.90 U	**0.20 J**	0.60 U	0.65 U	**0.72 J**	**0.40 J**	**0.35 J**	0.60 U	0.81 U	0.38 U
SV-17B	SV017B_May24	NS	05/29/2024	4.8 U	7.3 U	3.9 U	4.8 U	5.3 U	5.3 U	5.3 U	4.6 U	4.8 U	**23**	3.1 U
SV-17B	SV017B_OCT24	NS	10/23/2024	3.7 U	5.7 U	3.0 U	3.7 U	4.1 U	4.1 U	4.1 U	3.6 U	3.7 U	5.1 U	2.4 U
SV-18	SV18NS-200929	NS	09/29/2020	0.82 U	1.2 U	**2.7**	0.82 U	**1.4**	**1.3**	0.90 U	**1.1**	0.82 U	**4.0**	0.53 U
SV-18	SV18NS-201112	NS	11/12/2020	0.86 U	1.3 U	**0.42 J**	0.86 U	0.94 U	0.94 U	0.94 U	0.82 U	0.86 U	**3.6**	0.56 U
SV-18	SV18NS-210217	NS	02/17/2021	0.73 U	1.1 U	0.59 U	0.73 U	0.80 U	**0.95 J**	0.80 U	**0.57 J**	0.73 U	**1.1 J**	0.47 U
SV-18	SV18DS-210217	FD	02/17/2021	0.74 U	1.1 U	0.59 U	0.74 U	0.80 U	**1.0**	0.80 U	**0.35 J**	0.74 U	**0.71 J**	0.47 U
SV-18	SV18NS-210511	NS	05/11/2021	0.72 U	1.1 U	**0.71 J**	0.72 U	0.79 U	**1.7**	**0.78 J**	**0.58 J**	0.72 U	**8.7**	0.47 U
SV-18	SV18NS-210818	NS	08/18/2021	0.67 U	1.0 U	**0.45 J**	0.67 U	**0.19 J**	**0.72 J**	**0.52 J**	**0.50 J**	0.67 U	**3.6**	0.43 U
SV-18	SV18NS-211201	NS	12/01/2021	0.51 U	0.77 U	**0.59 J**	0.51 U	**0.12 J**	**0.67 J**	**0.26 J**	**0.42 J**	0.51 U	**1.1**	0.33 U
SV-18	SV18NS-220217	NS	02/17/2022	0.62 U	0.95 U	0.50 U	0.62 U	0.68 U	**0.80 J**	**0.30 J**	**1.1**	0.62 U	**0.48 J**	0.40 U
SV-18	SV18NS-220802	NS	08/02/2022	0.075 U	0.114 U	**0.38 J**	0.075 U	**0.061 J**	**0.19 J**	**0.080 J**	**0.45 J**	0.075 U	**2.2**	0.048 U
SV-18	SV18DS-220802	FD	08/02/2022	0.076 U	0.115 U	**0.37 J**	0.076 U	**0.064 J**	**0.19 J**	**0.081 J**	**0.46 J**	0.076 U	**2.3**	0.049 U

Table 7b. Historical Soil Vapor Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloroethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloroethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
			HHSL	2400	8.5	3.2	280	37	3500	3500	10000	2800	16	0.32
			Sample Date											
SV-18	SV18NS-221025	NS	10/25/2022	0.58 U	0.88 U	**0.21 J**	0.58 U	0.63 U	**0.40 J**	**0.20 J**	**0.22 J**	0.58 U	**1.9**	0.37 U
SV-18	SV18NS-221222	NS	12/22/2022	0.54 U	0.82 U	**2.2**	0.54 U	**14**	**43**	**14**	**38**	0.54 U	0.73 U	0.35 U
SV-18	SV18NS-230223	NS	02/23/2023	0.53 U	0.80 U	**0.16 J**	0.53 U	0.58 U	**0.50 J**	**0.20 J**	**0.23 J**	0.53 U	**0.49 J**	0.34 U
SV-18	SV018_May24	NS	05/28/2024	3.8 U	5.7 U	3.0 U	3.8 U	4.1 U	4.1 U	4.1 U	3.6 U	3.8 U	5.1 U	2.4 U
SV-18	SV018_OCT24	NS	10/29/2024	3.8 U	5.8 U	3.1 U	3.8 U	4.2 U	4.2 U	4.2 U	3.6 U	3.8 U	5.2 U	2.5 U
SV-19	SV19NS-200928	NS	09/28/2020	1.0 U	1.5 U	**0.87 J**	1.0 U	1.1 U	1.1 U	1.1 U	0.95 U	1.0 U	**31**	0.64 U
SV-19	SV19NS-201112	NS	11/12/2020	0.76 U	1.2 U	0.61 U	0.76 U	0.83 U	**0.75 J**	0.83 U	**0.77 J**	0.76 U	**29**	0.49 U
SV-19	SV19NS-210216	NS	02/16/2021	0.73 U	1.1 U	0.59 U	0.73 U	0.80 U	**1.8**	0.80 U	**1.2**	0.73 U	**26**	0.47 U
SV-19	SV19NS-210511	NS	05/11/2021	0.76 U	1.2 U	**0.29 J**	0.76 U	**0.80 J**	**2.7**	**1.3**	**1.2**	0.76 U	**19**	0.49 U
SV-19	SV19DS-210511	FD	05/11/2021	0.77 U	1.2 U	**0.38 J**	0.77 U	**0.71 J**	**2.6**	**1.2**	**1.0**	0.77 U	**19**	0.49 U
SV-19	SV19NS-210817	NS	08/17/2021	0.72 U	1.1 U	**0.77**	0.72 U	**0.51 J**	**2.2**	**1.5**	**1.1**	0.72 U	**30**	0.47 U
SV-19	SV19NS-211201	NS	12/01/2021	0.58 U	0.88 U	**0.70**	0.58 U	**0.29 J**	**1.5**	**0.80 J**	**2.1**	0.58 U	**18**	0.37 U
SV-19	SV19DS-211201	FD	12/01/2021	0.57 U	0.87 U	**1.0**	**5.9 J**	**0.24 J**	**1.5**	**0.85 J**	**2.1**	0.57 U	**16**	0.37 U
SV-19	SV19NS-220216	NS	02/16/2022	0.67 U	1.0 U	**0.22 J**	0.67 U	0.73 U	0.73 U	0.73 U	**0.20 J**	0.67 U	**7.9**	0.43 U
SV-19	SV19NS-220801	NS	08/01/2022	0.074 U	0.111 U	**0.19 J**	**0.050 J**	**0.15 J**	**0.72 J**	**0.46 J**	0.78 U	0.074 U	**17**	0.047 U
SV-19	SV19DS-220801	FD	08/01/2022	0.074 U	0.111 U	**0.23 J**	0.074 U	**0.14 J**	**0.71 J**	**0.43 J**	**0.45 J**	0.074 U	**21**	0.047 U
SV-19	SV19NS-221025	NS	10/25/2022	0.66 U	1.0 U	**0.34 J**	0.66 U	0.72 U	**0.61 J**	**0.52 J**	**0.43 J**	0.66 U	**18**	0.42 U
SV-19	SV19NS-221219	NS	12/19/2022	0.62 U	0.95 U	**0.64**	0.62 U	**0.30 J**	**1.3**	**0.48 J**	**1.2**	0.62 U	**2.1**	0.40 U
SV-19	SV19NS-230221	NS	02/21/2023	0.66 U	1.0 U	**0.23 J**	0.66 U	0.72 U	**0.71 J**	**0.33 J**	**0.25 J**	0.66 U	**6.2**	0.42 U
SV-19	SV019_May24	NS	05/31/2024	4.0 U	6.1 U	3.2 U	4.0 U	4.4 U	**0.87 J**	4.4 U	3.8 U	4.0 U	**4.8 J**	2.6 U
SV-19	SV019_OCT24	NS	10/28/2024	3.6 U	5.5 U	2.9 U	3.6 U	3.9 U	**2.8 J**	3.9 U	**2.7 J**	3.6 U	**7.1**	2.3 U
SV-20	SV20NS-200927	NS	09/27/2020	0.89 U	1.3 U	**0.82 J**	0.89 U	0.97 U	**0.65 J**	0.97 U	**0.83 J**	0.89 U	**5.6**	0.57 U
SV-20	SV20NS-201110	NS	11/10/2020	0.76 U	1.2 U	0.62 U	0.76 U	0.84 U	**0.81 J**	0.84 U	**0.98**	0.76 U	**20**	0.49 U
SV-20	SV20NS-210215	NS	02/15/2021	0.74 U	1.1 U	0.59 U	0.74 U	0.80 U	0.80 U	0.80 U	0.70 U	0.74 U	1.0 U	0.47 U
SV-20	SV20NS-210510	NS	05/10/2021	0.66 U	1.0 U	**0.38 J**	0.66 U	0.72 U	**1.4**	**0.80 J**	**1.1**	0.66 U	**6.9**	0.42 U
SV-20	SV20NS-210816	NS	08/16/2021	0.71 U	1.1 U	**1.3**	0.71 U	**0.83 J**	**5.2**	**1.5**	**5.0**	0.71 U	**7.8**	0.46 U
SV-20	SV20NS-211130	NS	11/30/2021	0.55 U	0.83 U	**0.32 J**	0.55 U	**0.51 J**	**1.9**	**1.0**	**0.60 J**	0.55 U	**7.9**	0.35 U
SV-20	SV20NS-220215	NS	02/15/2022	0.68 U	1.0 U	0.55 U	0.68 U	0.75 U	0.75 U	0.75 U	**0.16 J**	0.68 U	**29 J**	0.44 U
SV-20	SV20DS-220215	FD	02/15/2022	0.70 U	1.0 U	0.56 U	0.70 U	0.76 U	0.76 U	0.76 U	**0.18 J**	0.70 U	**20 J**	0.45 U
SV-20	SV20NS-220801	NS	08/01/2022	0.070 U	0.105 U	**0.23 J**	0.070 U	**0.47 J**	**2.5**	**1.6**	0.73 U	0.070 U	**20**	0.045 U
SV-20	SV20NS-221024	NS	10/24/2022	0.70 U	1.1 U	**0.21 J**	0.70 U	0.77 U	**0.89 J**	**0.46 J**	**0.30 J**	0.70 U	**29**	0.45 U
SV-20	SV20NS-221220	NS	12/20/2022	0.62 U	0.95 U	**0.67**	0.62 U	**0.28 J**	**1.0**	**0.50 J**	**0.96**	0.62 U	**3.0**	0.40 U
SV-20	SV20DS-221220	FD	12/20/2022	0.63 U	0.96 U	**0.62 J**	0.63 U	**0.35 J**	**0.95**	**0.57 J**	**1.0**	0.63 U	**3.2**	0.41 U
SV-20	SV20NS-230220	NS	02/20/2023	0.66 U	1.0 U	**0.26 J**	0.66 U	**0.54 J**	**1.9**	**0.84 J**	**1.4**	0.66 U	**4.5**	0.42 U
SV-20	SV020_May24	NS	05/29/2024	6.2 U	9.4 U	**3.7 J**	6.2 U	**2.1 J**	**3.5 J**	6.8 U	**5.9 J**	6.2 U	**390**	4.0 U
SV-20	SV020_OCT24	NS	10/25/2024	3.9 U	5.9 U	3.1 U	3.9 U	4.2 U	**2.4 J**	4.2 U	**1.4 J**	3.9 U	**4.7 J**	2.5 U

Table 7b. Historical Soil Vapor Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloroethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloroethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
			HHSL	2400	8.5	3.2	280	37	3500	3500	10000	2800	16	0.32
			Sample Date											
SV-21	SV-21NS-211130	PNC	11/30/2021	--	--	--	--	--	--	--	--	--	--	--
SV-21	SV-21NS-220801	PNC	08/01/2022	--	--	--	--	--	--	--	--	--	--	--
SV-21	SV-21NS-221025	PNC	10/25/2022	--	--	--	--	--	--	--	--	--	--	--
SV-21	SV021_OCT24	NS	10/25/2024	27 U	41 U	22 U	27 U	30 U	30 U	30 U	**17 J**	27 U	37 U	18 U
SV-22	SV22NS-221024	NS	10/24/2022	25 U	38 U	**11 J**	**44**	28 U	**14 J**	28 U	**23 J**	25 U	**10,000**	16 U
SV-22	SV22NS-221220	NS	12/20/2022	1.3 U	2 U	**1.1 J**	**2.6**	1.4 U	**0.94 J**	1.4 U	**1.2 J**	1.3 U	**630**	0.83 U
SV-22	SV22NS-230220	NS	02/20/2023	17 U	25 U	13 U	**31**	18 U	18 U	18 U	16 U	17 U	**9,900**	11 U
SV-22	SV022_May24	NS	05/29/2024	21 U	32 U	17 U	**30**	23 U	23 U	23 U	20 U	21 U	**7,200**	14 U
SV-22	SV022_OCT24	NS	10/25/2024	16 U	24 U	13 U	**34**	18 U	18 U	18 U	15 U	16 U	**8,800**	10 U
SV-23	SV23NS-221024	NS	10/24/2022	0.63 U	0.95 U	**8.5**	0.63 U	**2.2**	**5.5**	**2.4**	**16**	0.63 U	**0.68 J**	0.40 U
SV-23	SV23NS-221221	NS	12/21/2022	0.57 U	0.87 U	**1.7**	0.57 U	**6.1**	**18**	**5.9**	**25**	0.57 U	**0.21 J**	0.37 U
SV-23	SV23NS-230221	NS	02/21/2023	0.67 U	1.0 U	**0.20 J**	0.67 U	0.74 U	0.74 U	0.74 U	0.64 U	0.67 U	**1.3 J**	0.43 U
SV-23	SV23DS-230221	FD	02/21/2023	0.67 U	1.0 U	**0.21 J**	0.67 U	0.74 U	0.74 U	0.74 U	0.64 U	0.67 U	**8.7 J**	0.43 U
SV-23	SV023_May24	NS	05/29/2024	3.9 U	5.9 U	3.1 U	3.9 U	4.3 U	**3.1 J**	**1.3 J**	**3.0 J**	3.9 U	5.3 U	2.5 U
SV-23	SV023_May24_FD	FD	05/29/2024	3.6 U	5.4 U	2.9 U	3.6 U	**1.2 J**	**3.7 J**	**1.8 J**	**4.1 J**	3.6 U	4.8 U	2.3 U
SV-23	SV023_OCT24	NS	10/25/2024	3.4 U	5.1 U	2.7 U	3.4 U	3.7 U	**2.5 J**	3.7 U	**3.6 J**	3.4 U	4.6 U	2.2 U
SV-23	SV023_OCT24_FD	FD	10/25/2024	3.6 U	5.4 U	2.9 U	3.6 U	3.9 U	**2.3 J**	3.9 U	**3.4 J**	3.6 U	4.8 U	2.3 U
SV-24	SV24NS-221024	NS	10/24/2022	11 U	17 U	**4.7 J**	11 U	12 U	12 U	12 U	**6.6 J**	11 U	**6,200**	7.2 U
SV-24	SV24NS-221221	NS	12/21/2022	0.63 U	0.96 U	**1.6**	**0.17 J**	**12**	**39**	**13**	**32**	0.63 U	**240**	0.41 U
SV-24	SV24NS-230221	NS	02/21/2023	14 U	22 U	11 U	14 U	16 U	16 U	16 U	13 U	14 U	**6,800**	9.1 U
SV-24	SV024_May24	NS	05/29/2024	18 U	27 U	14 U	18 U	20 U	20 U	20 U	17 U	18 U	**6,300**	12 U
SV-24	SV024_OCT24	NS	10/24/2024	14 U	21 U	11 U	**5.0 J**	15 U	15 U	15 U	13 U	14 U	**8,400**	8.8 U
SV-25	SV25NS-221025	NS	10/25/2022	7.1 U	11 U	**7.0 J**	7.1 U	**2.9 J**	**7.2 J**	**3.4 J**	**10**	7.1 U	**5.9 J**	4.6 U
SV-25	SV25DS-221025	FD	10/25/2022	0.70 U	1.0 U	**5.2 J+**	0.70 U	**2.6 J+**	**5.6 J+**	**3.0 J+**	**8.2 J+**	0.70 U	**6.0 J+**	0.45 U
SV-25	SV25NS-221221	NS	12/21/2022	0.64 U	**0.26 J**	**1.2**	0.64 U	**6.4**	**20**	**7.4**	**14**	0.64 U	**0.15 J**	0.42 U
SV-25	SV25NS-230221	NS	02/21/2023	1.5 U	2.2 U	1.2 U	1.5 U	1.6 U	1.6 U	1.6 U	1.4 U	1.5 U	**3.7**	0.95 U
SV-25	SV025_May24	NS	05/31/2024	4.1 U	6.2 U	3.3 U	4.1 U	4.5 U	**0.98 J**	4.5 U	3.9 U	4.1 U	**2.2 J**	2.6 U
SV-25	SV025_OCT24	NS	10/25/2024	3.8 U	5.8 U	3.1 U	3.8 U	4.2 U	4.2 U	4.2 U	**1.2 J**	3.8 U	**2.5 J**	2.4 U
SV-26	SV26NS-221024	NS	10/24/2022	25 U	37 U	**15 J**	25 U	**8.4 J**	**21 J**	**10 J**	**31**	25 U	**140**	16 U
SV-26	SV26DS-221024	FD	10/24/2022	24 U	37 U	**14 J**	24 U	**7.0 J**	**21 J**	**8.9 J**	**32**	24 U	**140**	16 U
SV-26	SV26NS-221220	NS	12/20/2022	0.62 U	0.94 U	**0.88**	0.62 U	**0.35 J**	**1.0**	**0.41 J**	**1.1**	0.62 U	**44**	0.40 U
SV-26	SV026_May24	NS	05/29/2024	4.0 U	6.1 U	3.2 U	4.0 U	4.4 U	**3.0 J**	**1.2 J**	**1.7 J**	4.0 U	**1,100**	2.6 U
SV-26	SV026_May24_FD	FD	05/29/2024	4.5 U	6.8 U	3.6 U	4.5 U	4.9 U	**1.9 J**	4.9 U	**1.3 J**	4.5 U	**1,000**	2.9 U
SV-26	SV026_OCT24	NS	10/24/2024	3.7 U	5.6 U	3.0 U	3.7 U	4.0 U	4.0 U	4.0 U	3.5 U	3.7 U	**800**	2.4 U
SV-26	SV026_OCT24_FD	FD	10/24/2024	3.9 U	5.9 U	**0.72 J**	3.9 U	4.3 U	4.3 U	4.3 U	3.7 U	3.9 U	**790**	2.5 U

Table 7b. Historical Soil Vapor Analytical Results

Well ID	Sample ID	Sample Type	Analyte	1,1-Dichloro-ethene	1,4-Dichloro-benzene	Benzene	cis-1,2-Dichloroethene	Ethyl-benzene	m,p-Xylene	o-Xylene	Toluene	trans-1,2-Dichloroethene	Trichloro-ethene	Vinyl Chloride
			Unit	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
			HHSL	2400	8.5	3.2	280	37	3500	3500	10000	2800	16	0.32
			Sample Date											
SV-27	SV027_JUN24	NS	06/03/2024	6.0 U	9.1 U	7.4	6.0 U	3.0 J	7.9 J	3.2 J	23	6.0 U	8.2 U	3.9 U
SV-27	SV027_OCT24	NS	10/23/2024	3.8 U	5.8 U	3.1 U	3.8 U	4.2 U	3.7 J	4.2 U	5.4 J	3.8 U	5.2 U	2.5 U
SV-28	SV028_JUN24	NS	06/03/2024	3.8 U	5.8 U	86	3.8 U	12	19	5.4	27	3.8 U	5.2 U	2.5 U
SV-28	SV028_JUN24_FD	FD	06/03/2024	4.0 U	6.1 U	84	4.0 U	11	21	5.2	28	4.0 U	5.5 U	2.6 U
SV-28	SV028_OCT24	NS	10/23/2024	3.8 U	5.8 U	130	3.8 U	16	30	5.7	3.6 J	3.8 U	5.2 U	2.5 U
SV-28	SV028_OCT24_FD	FD	10/23/2024	4.0 U	6.1 U	130	4.0 U	16	30	5.6	3.7 J	4.0 U	5.5 U	2.6 U
SV-29	SV029_JUN24	NS	06/03/2024	12 U	17 U	53	12 U	9.2 J	24 J	8.4 J	74	12 U	16 U	7.4 U
SV-29	SV029_OCT24	NS	10/28/2024	63 U	96 U	51 U	63 U	69 U	69 U	69 U	15 J	63 U	86 U	41 U
SV-30	SV030_JUN24	NS	06/03/2024	3.7 U	5.6 U	9.4	3.7 U	6.0	11	4.2 J	37	3.7 U	5.0 U	2.4 U
SV-30	SV030_OCT24	NS	10/28/2024	4.0 U	6.1 U	4.8	4.0 U	6.1	21	6.1	12	4.0 U	5.5 U	2.6 U
SV-31	SV031_JUN24	NS	06/03/2024	5.8 U	8.8 U	14	5.8 U	3.6 J	8.9 J	3.8 J	32	5.8 U	7.8 U	3.7 U
SV-31	SV031_OCT24	NS	10/23/2024	44 U	67 U	36 U	44 U	48 U	48 U	48 U	12 J	44 U	60 U	28 U
SV-32	SV032A_JUN24	NS	06/06/2024	8.4 U	13 U	3.5 J	8.4 U	9.3 U	4.0 J	9.3 U	12 J	8.4 U	2,900	5.4 U
SV-32	SV032B_JUN24	NS	06/06/2024	3.9 U	5.9 U	8.1	3.9 U	3.3 J	8.0 J	3.2 J	18	3.9 U	9.2	2.5 U
SV-32	SV032a_OCT24	NS	10/24/2024	6.3 U	9.6 U	1.4 J	6.3 U	6.9 U	6.9 U	6.9 U	3.6 J	6.3 U	3,500	4.1 U
SV-32	SV032b_OCT24	NS	10/24/2024	20 U	31 U	11 J	20 U	22 U	22 U	22 U	19 U	20 U	28 U	13 U
SV-33	SV033_May24	NS	05/28/2024	4.2 U	6.4 U	13	4.2 U	11	36	12	89	4.2 U	68	2.7 U
SV-33	SV033_OCT24	NS	10/24/2024	3.8 U	5.8 U	0.69 J	3.8 U	4.2 U	2.1 J	4.2 U	2.4 J	3.8 U	8.4	2.5 U
SV-34	SV034_JUN24	NS	06/06/2024	4.2 U	6.4 U	18	4.2 U	7.9	27	17	52	4.2 U	44	2.7 U
SV-34	SV034_OCT24	NS	10/25/2024	3.7 U	5.6 U	1.6 J	3.7 U	1.7 J	5.6 J	2.2 J	9.1	3.7 U	58	2.4 U
SV-35	SV035_JUN24	NS	06/06/2024	3.7 U	5.7 U	8.6	3.7 U	4.5 J	12	5.3	24	3.7 U	1,500	2.4 U
SV-35	SV035_JUN24_FD	FD	06/06/2024	3.8 U	5.8 U	9.3	3.8 U	4.7	13	5.7	27	3.8 U	1,500	2.5 U
SV-35	SV035_OCT24	NS	10/24/2024	4.4 U	6.7 U	2.2 J	4.4 U	4.8 U	4.8 U	4.8 U	1.3 J	4.4 U	1,800	2.8 U
SV-35	SV035_OCT24_FD	FD	10/24/2024	4.0 U	6.1 U	1.8 J	4.0 U	4.4 U	4.4 U	4.4 U	1.4 J	4.0 U	1,800	2.6 U

QA NOTES AND DATA QUALIFIERS:

U - Analyte was analyzed for but not detected above the reported limit of detection (LOD).

(NO CODE) - Confirmed detection.

J - Analyte detected, estimated concentration.

J+ - Analyte detected, estimated concentration with potential high bias.

Exceedances above the HHSL.

NOTES:

HHSL - San Francisco Bay Regional Water Quality Control Board; Table SG-1: Subslab Soil Gas and Exterior Soil Gas Vapor Intrusion; Residential Vapor Intrusion (VI) Human Health Risk Screening Levels.

µg/m³ micrograms per cubic meter.

NS - Normal Sample.

FD - Field Duplicate of sample above.

PNC - Sample was planned but not collected.

Table 8. Soil Vapor Field Readings

Soil Vapor Probe	Sampling Date	Oxygen (%)	Lower Explosive Limit (%)	Carbon monoxide (ppm)	Hydrogen sulfide (ppm)	VOCs (ppm)	Notes
SV-1	10/24/2024	20.9	0.0	0.0	0.0	0.1	
SV-2	10/25/2024	20.9	0.0	0.0	0.0	0.0	
SV-3	10/23/2024	20.9	0.0	0.0	0.0	0.1	
SV-4	10/28/2024	20.9	0.0	0.0	0.0	0.0	
SV-5B	10/29/2024	20.9	0.0	0.0	0.0	0.0	
SV-6	10/29/2024	20.9	0.0	0.0	0.0	0.0	
SV-7	10/29/2024	-	-	-	-	-	Not sampled; probe removed
SV-8	10/29/2024	-	-	-	-	-	Not sampled; probe removed
SV-9B	10/28/2024	20.9	0.0	0.0	0.0	0.0	
SV-10	10/23/2024	20.9	0.0	0.0	0.0	0.0	
SV-11	10/23/2024	20.9	0.0	0.0	0.0	0.0	
SV-12	10/28/2024	-	-	-	-	-	Not sampled; water in tubing
SV-15B	10/28/2024	20.9	0.0	0.0	0.0	0.0	
SV-16	10/29/2024	20.9	0.0	0.0	0.0	0.0	
SV-17B	10/23/2024	20.9	0.0	0.0	0.0	0.0	
SV-18	10/29/2024	20.9	0.0	0.0	0.0	0.0	
SV-19	10/28/2024	20.9	0.0	0.0	0.0	0.0	
SV-20	10/25/2024	20.9	0.0	7.0	0.0	0.1	
SV-21	10/25/2024	20.9	0.0	0.0	0.0	0.0	
SV-22	10/25/2024	20.9	0.0	21.0	0.0	0.1	
SV-23	10/25/2024	20.9	0.0	0.0	0.0	0.0	
SV-24	10/24/2024	20.9	0.0	0.0	0.0	1.2	
SV-25	10/25/2024	20.9	0.0	0.0	0.0	0.0	
SV-26	10/24/2024	20.9	0.0	0.0	0.0	0.2	
SV-27	10/23/2024	20.9	4.0	0.0	0.0	0.2	
SV-28	10/23/2024	20.9	73	0.0	0.0	0.5	
SV-29	10/28/2024	20.9	0.0	0.0	0.0	0.0	
SV-30	10/28/2024	20.9	85	0.0	0.0	1.3	
SV-31	10/23/2024	20.9	0.0	0.0	0.0	0.2	
SV-32a	10/24/2024	20.9	0.0	0.0	0.0	0.3	
SV-32b	10/24/2024	20.9	0.0	0.0	0.0	0.1	
SV-33	10/24/2024	20.9	0.0	0.0	0.0	0.1	
SV-34	10/25/2024	20.9	0.0	0.0	0.0	0.0	
SV-35	10/24/2024	20.9	0.0	0.0	0.0	0.3	

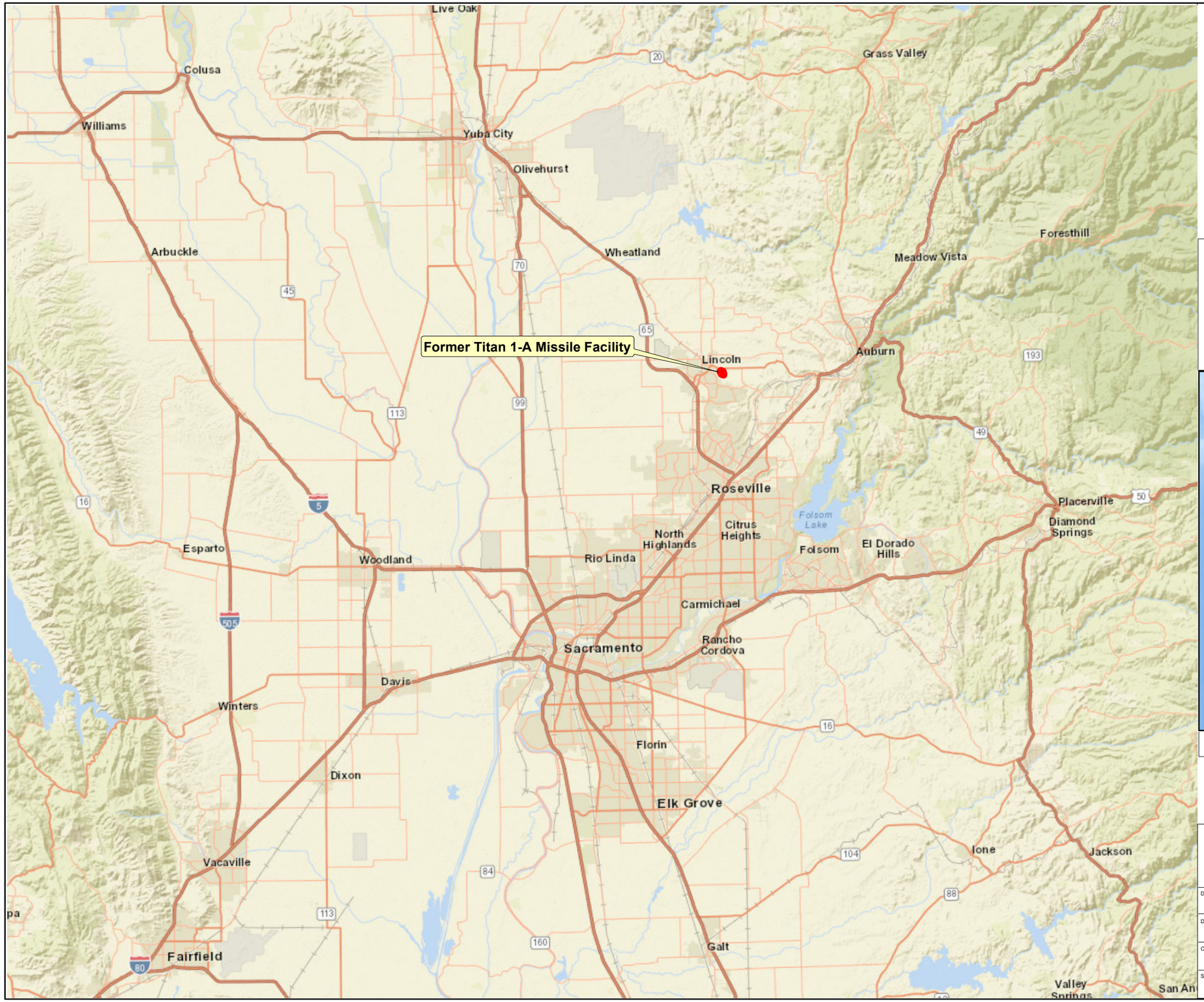
Definitions:

% - percent ppm - parts per million VOCs - total volatile organic compounds

Figures

Figure 1

General Site Location
Former Titan 1-A Missile Facility
Lincoln, California
FUDS Property No. J09CA1108



Legend

Former Titan 1-A Missile Facility / FUDS Boundary



Site Location in California

5 2.5 0 5 Miles

N W E S

PARSONS	U.S. Army Corps of Engineers Sacramento District

DESIGNED BY: BT	**General Site Location**	
DRAWN BY: BT		
CHECKED BY: MR	PROJECT TYPE: HTRW	PROJECT NUMBER: 100306.0044.110251.09000
SUBMITTED BY: CR	PROJECT: J09CA1108-01	PAGE NUMBER:
	DATE: January 2024	

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Figure 2

Site Setting
Former Titan 1-A Missile Facility
Lincoln, California
FUDS Property No. J09CA1108

193
Overland Ln
Snapdragon Pl
Oak Tree Ln
Orchid Ln
Periwinkle Ln
Gilcory Ct
Lilac Ln
Valerian Ln
Daylily Ln
Belladonna Ln
Sun City Blvd
Snapdragon Ln

Legend

Former Titan 1-A Missile Facility / FUDS Boundary



Site Location in California

300 150 0 300 Feet

N W E S

PARSONS	U.S. Army Corps of Engineers Sacramento District

DESIGNED BY: BT	Site Setting	
DRAWN BY: BT		
CHECKED BY: MR	PROJECT TYPE: HTRW	PROJECT NUMBER: 100306.0044.110251.09000
SUBMITTED BY: CR	PROJECT: J09CA1108-01	PAGE NUMBER:
	DATE: April 2024	

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Figure 3

Groundwater Well Locations
Former Titan 1-A Missile Facility
Lincoln, California
FUDS Property No. J09CA1108



Legend

- Extraction Well
- Monitoring Well
- Fence
- Parcel Boundary
- Former Titan 1-A Missile Facility / FUDS Boundary
- Ephemeral/Seasonal Streams and Surface Water Bodies
- Ephemeral stream



Site Location in California

300 150 0 300 Feet

N W E S

PARSONS	U.S. Army Corps of Engineers Sacramento District

DESIGNED BY: BT	Groundwater Well Locations	
DRAWN BY: BT		
CHECKED BY: MR	PROJECT TYPE: HTRW	PROJECT NUMBER: 100306.0044.110251.01000
SUBMITTED BY: CR	PROJECT: J09CA1108-01	PAGE NUMBER:
	DATE: June 2024	

FILE: X:\gis\Other_sites\Maps\Titan1A\UFP-QAPP

Figure 4

Soil Vapor Probe Locations
Former Titan 1-A Missile Facility
Lincoln, California
FUDS Property No. J09CA1108



Legend

- Soil Vapor Probe
- Fence
- Parcel Boundary
- Former Titan 1-A Missile Facility / FUDS Boundary
- Ephemeral/Seasonal Streams and Surface Water Bodies
- Ephemeral stream



Site Location in California

300 150 0 300 Feet

N W E S

PARSONS

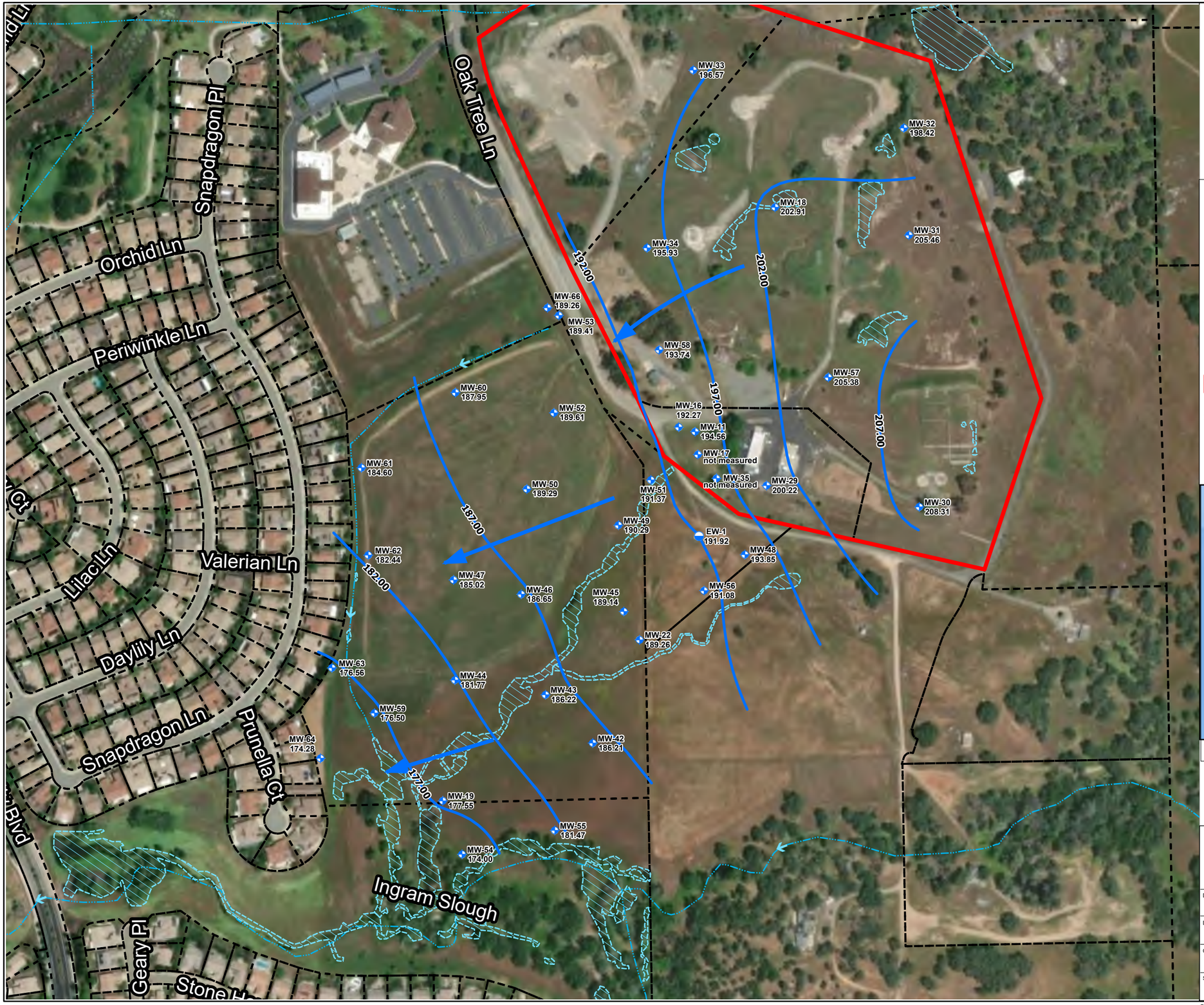
U.S. Army Corps of Engineers
Sacramento District

DESIGNED BY: BT	Soil Vapor Probe Locations
DRAWN BY: BT	
CHECKED BY: MR	PROJECT TYPE: HTRW / PROJECT NUMBER: 100306.0044.110251.01000
SUBMITTED BY: CR	PROJECT: J09CA1108-01 / DATE: June 2024 / PAGE NUMBER:

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Figure 5

Groundwater Elevations and Contours
2nd Semi-Annual Sampling Event 2024
Former Titan 1-A Missile Facility
Lincoln, California
FUDS Property No. J09CA1108



Legend

- Extraction Well
- Monitoring Well
- Ground water Elevation Contour (feet above mean sea level), dashed where estimated
- Direction of Groundwater Flow
- Parcel Boundary
- Ephemeral/Seasonal Streams and Surface Water Bodies
- Ephemeral stream
- Former Titan 1-A Missile Facility / FUDS Boundary

Note:
Groundwater Elevations are in feet above mean sea level.



Site Location in California

300 150 0 300 Feet

N W E S

PARSONS	U.S. Army Corps of Engineers Sacramento District

DESIGNED BY: BT	Groundwater Elevations and Contours 2nd Semi-Annual Sampling Event 2024	
DRAWN BY: BT		
CHECKED BY: MR	PROJECT TYPE: HTRW	PROJECT NUMBER: 100306.0044.110251.01000
SUBMITTED BY: CR	PROJECT: J09CA1108-01	PAGE NUMBER:
	DATE: March 2025	

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Figure 6

Trichloroethene in Groundwater, 2nd Semi-Annual Sampling Event 2024 Former Titan 1-A Missile Facility Lincoln, California FUDS Property No. J09CA1108



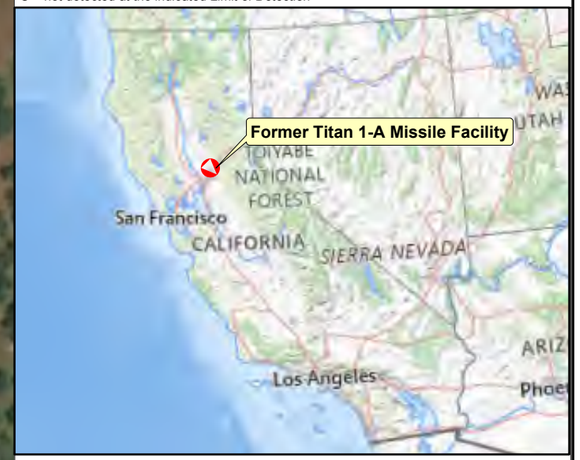
Legend

- Extraction well
- Monitoring Well

  Trichloroethene (TCE) concentrations shown below the extraction/monitoring well ID in µg/L.
- TCE Isoconcentration line (µg/L), dashed where inferred
- Parcel Boundary
- Ephemeral/Seasonal Streams and Surface Water Bodies
- Ephemeral stream

Note:

Isoconcentration contours are interpolations predicted using state-of-the-practice mathematical models — they are modeled (approximated) concentration contours and are only intended to provide a rough visualization of the approximated concentration boundaries.
Contours are dashed where inferred.
The concentrations provided as #/# are the normal sample result followed by the field duplicate result.
J = Estimated value
U = not detected at the indicated Limit of Detection



Site Location in California

300 150 0 300 Feet

N W E S

PARSONS	U.S. Army Corps of Engineers Sacramento District

DESIGNED BY: BT	**Trichloroethene in Groundwater, 2nd Semi-Annual Sampling Event 2024**		
DRAWN BY: BT			
CHECKED BY: MR	PROJECT TYPE: HTRW	PROJECT NUMBER: 100306.0044.110251.09000	
SUBMITTED BY: CR	PROJECT: J09CA1108-01	PAGE NUMBER:	
	DATE: May 2025		

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Figure 7

Trichloroethene in Soil Vapor, 2nd Semi-Annual Sampling Event 2024 Former Titan 1-A Missile Facility Lincoln, California FUDS Property No. J09CA1108

Legend

- Soil Vapor Probe. Trichloroethene concentration shown below soil vapor probe ID in µg/m^3. Results greater than the vapor intrusion screening level of 16 µg/m^3 are shown in yellow.
- TCE Isoconcentration line (µg/m^3), dashed where inferred
- Parcel Boundary
- Ephemeral/Seasonal Streams and Surface Water Bodies
- Ephemeral stream
- Former Titan 1-A Missile Facility / FUDS Boundary

Note:

Isoconcentration contours are interpolations predicted using state-of-the-practice mathematical models — they are modeled (approximated) concentration contours and are only intended to provide a rough visualization of the approximated concentration boundaries. A dashed contour is drawn to show the inferred TCE concentrations.

The concentrations provided as #/# are the normal sample result followed by the field duplicate result.

J = Estimated value

U = not detected at the indicated Limit of Detection



Site Location in California

300 150 0 300 Feet

N W E S

PARSONS	U.S. Army Corps of Engineers Sacramento District

DESIGNED BY: BT	**Trichloroethene in Soil Vapor, 2nd Semi-Annual Sampling Event 2024**		
DRAWN BY: BT			
CHECKED BY: MR	PROJECT TYPE: HTRW	PROJECT NUMBER: 100306.0044.110251.09500	
SUBMITTED BY: CR	PROJECT: J09CA1108-01	PAGE NUMBER:	
	DATE: March 2025		

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Figure 8

Benzene in Soil Vapor, 2nd Semi-Annual Sampling Event 2024 Former Titan 1-A Missile Facility Lincoln, California FUDS Property No. J09CA1108



Legend

- Soil Vapor Probe. Benzene concentration shown below soil vapor probe in µg/m^3. Results greater than the intrusion screening level of 12 µg/m^3 are shown in yellow.
- Parcel Boundary
- Ephemeral/Seasonal Streams and Surface Water Bodies
- Ephemeral stream
- Former Titan 1-A Missile Facility / FUDS Boundary

Note:
The concentrations provided as #/# are the normal sample result followed by the field duplicate result.
J = Estimated value
U = not detected at the indicated Limit of Detection



Site Location in California

300 150 0 300 Feet

N W E S

PARSONS	U.S. Army Corps of Engineers Sacramento District

DESIGNED BY: BT	**Benzene in Soil Vapor, 2nd Semi-Annual Sampling Event 2024**		
DRAWN BY: BT			
CHECKED BY: MR	PROJECT TYPE: HTRW	PROJECT NUMBER: 100306.0044.110251.01000	
SUBMITTED BY: CR	PROJECT: J09CA1108-01	PAGE NUMBER:	
	DATE: January 2025		

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Appendix A – Sample Forms

WELL GAUGING DATA

Project # 241021 BD-1 Date 10/21/04 Client PARSONS

Site PARSONS @ TITAN 1-A MISSILE

Well ID	Well Size (in.)	Time Gauged	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
MW-53	2	0838	—	—	—	—	21.76	38.90	
MW-66	2	0842	—	—	—	—	21.10	32.53	
MW-61	2	0850	—	—	—	—	18.40	32.60	
MW-62	2	0855	—	—	—	—	18.66	32.60	
MW-63	2	0902	—	—	—	—	15.60	31.08	
MW-64	2	0907	—	—	—	—	15.70	32.01	
MW-57	2	1010	—	—	—	—	27.92	42.44	
MW-30	2	1020	—	—	—	—	29.87	44.76	
MW-54	2	1042	—	—	—	—	10.37	27.34	
MW-42	2	1100	—	—	—	—	17.35	34.66	
MW-43	2	1107	—	—	—	—	7.41	27.61	
MW-51	2	1114	—	—	—	—	11.53	24.80	
MW-19	2	1120	—	—	—	—	9.41	27.57	
MW-59	2	1126	—	—	—	—	12.37	32.02	
MW-44	2	1137	—	—	—	—	14.62	37.64	
MW-47	2	1142	—	—	—	—	19.50	42.40	
MW-46	2	1148	—	—	—	—	22.57	43.47	

WELL GAUGING DATA

Project # 241021BD-1 Date 10/21/24 Client PARSONS

Site PARSONS @ TITAN I-A MISSILE

Well ID	Well Size (in.)	Time Gauged	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
MW-50	2	1154	—	—	—	—	23.45	41.94	
MW-52	2	1200	—	—	—	—	26.97	47.50	
MW-51	2	1209	—	—	—	—	15.30	37.71	
MW-49	2	1215	—	—	—	—	14.21	37.63	
MW-45	2	1220	—	—	—	—	17.87	36.42	
MW-22	2	1225	—	—	—	—	11.81	29.98	
MW-31	2	1245	—	—	—	—	19.34	27.01	
MW-32	2	1255	—	—	—	—	17.18	37.02	
MW-33	2	1302	—	—	—	—	16.37	37.31	
MW-19	2	1310	—	—	—	—	17.03	24.84	
MW-34	2	1317	—	—	—	—	18.50	26.94	
MW-29	2	1325	—	—	—	—	19.22	36.95	
EW-1	4	1330	—	—	—	—	19.02	26.45	
MW-48	2	1335	—	—	—	—	22.30	37.59	
MW-50	2	1340	—	—	—	—	17.97	37.54	
MW-11	2	1341	—	—	—	—	16.63	25.40	
MW-16	2	1345	—	—	—	—	20.51	28.61	

WELL GAUGING DATA

Project # 241021BD-1 Date 10/21/24 Client Parsons

Site Parsons @ Titan I-A Missile

Well ID	Well Size (in.)	Time Gauged	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
MW-58	2	1410	—	—	—	—	25.08	25.61	
MW-60	2	1424	—	—	—	—	23.43	37.52	
MW-17	—	~	UNABLE TO ACCESS				~		
MW-35	—	~	UNABLE TO ACCESS				~		

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JC	Gauging Date: 10/23/24
Well I.D.: MW-11	Well Diameter (in.): 2 3 (4) 6 8 ____
Total Well Depth (ft.): 25.40	Depth to Water (ft.): 16.63
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 1323 Flow Rate: 200 mL/min Pump Depth: 21'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1326	25.2	7.02	888	12	Clear	3.74	-29.1	600	16.50
1329	23.4	6.76	856	9	Clear	1.57	-36.1	1,200	16.50
1332	23.5	6.73	854	9	Clear	1.34	-39.9	1,800	16.50
1335	23.5	6.71	852	9	Clear	1.24	-45.5	2,400	16.50
1338	23.4	6.71	851	9	Clear	1.23	-46.8	3,000	16.50
1341	23.5	6.71	850	9	Clear	1.20	-48.7	3,600	16.50

Did well dewater? Yes (No) Amount actually evacuated: 3,600

Sampling Time: 1342 Sampling Date: 10/23/24

Sample I.D.: T/AMF-MW011_OCT24 Laboratory: EMAX

Analyzed for: TPH-G BTEX MTBE TPH-D 3E TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241024BD-1	Client: Parsons
Sampler: JC	Gauging Date: 10/23/24
Well I.D.: MW-16	Well Diameter (in.): 2 3 (4) 6 8 ___
Total Well Depth (ft.): 28.61	Depth to Water (ft.): 20.51
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1230 Flow Rate: 200 mL/min Pump Depth: 24.56'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1233	24.5	6.81	824	12	clear	4.11	-35.3	600	20.65
1236	23.2	6.66	815	7	Clear	1.78	-35.9	1,200	20.65
1239	22.8	6.63	807	9	Clear	1.31	-38.8	1,800	20.65
1242	22.7	6.63	806	9	Clear	1.30	-39.0	2,400	20.65
1245	22.7	6.63	807	10	Clear	1.27	-40.0	3,000	20.65
1248	22.6	6.63	805	10	Clear	1.25	-41.2	3,600	20.65

Did well dewater? Yes (No) Amount actually evacuated: 3,600

Sampling Time: 1249 Sampling Date: 10/23/24

Sample I.D.: T1AMF-MW016_OCT24 Laboratory: EMAX

Analyzed for: TPH-G BTEX MTBE TPH-D 3E TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.: T1AMF-MW016_OCT24_FD

@ 1254

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: PARSONS
Sampler: SM	Gauging Date: 10/21/24
Well I.D.: MW-17	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): —	Depth to Water (ft.): —
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type: —

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other ____

Start Purge Time: — Flow Rate: — Pump Depth: ____

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
								✓	
		UNABLE			TO	ACCESS			

Did well dewater? Yes No Amount actually evacuated:

Sampling Time: Sampling Date:

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D BE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JC	Gauging Date: 10/23/24
Well I.D.: MW-19	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 27.57	Depth to Water (ft.): 9.41
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | ~~Bladder Pump~~
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1141 | Flow Rate: 200 mL/min | Pump Depth: 18.49'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1144	23.7	7.08	464.4	11	Clear	2.97	-10.5	600	10.20
1147	23.8	6.93	463.2	11		2.84	-20.4	1,200	10.21
1150	23.8	6.89	463.0	11		2.64	-25.4	1,800	10.22
1153	23.8	6.87	462.5	12		2.57	-27.3	2,400	10.24
1156	23.8	6.85	462.3	12		2.55	-28.2	3,000	10.25
1159	23.9	6.85	462.2	12		2.54	-29.8	3,600	10.27

Did well dewater? Yes (No) | Amount actually evacuated: 3,600

Sampling Time: 1200 | Sampling Date: 10/23/24

Sample I.D.: TIAMF-MW019_OCT24 | Laboratory: EMAX

Analyzed for: TPH-G BTEX MTBE TPH-D BE TPH-D | Other:

Equipment Blank I.D.: @ Time | Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: PARSONS
Sampler: SM	Gauging Date: 10/24/24
Well I.D.: MW-22	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 29.98	Depth to Water (ft.): 11.51
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: (Dedicated Tubing) | New Tubing | Other ___

Start Purge Time: 0330 Flow Rate: 200 mL/MIN Pump Depth: 25'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0333	17.3	7.51	655	69.3	CLEAR	5.97	51.9	600	11.86
0336	18.4	7.49	543	70.1	CLEAR	5.72	60.2	1200	11.89
0339	18.6	7.49	527	72.3	CLEAR	5.67	67.6	1800	11.91
0342	18.7	7.48	520	71.0	CLEAR	5.61	70.1	2400	11.93
0345	18.7	7.48	518	69.3	CLEAR	5.58	72.6	3000	11.96

Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 0850 Sampling Date: 10/24/24

Sample I.D.: T1AMF-MW022-OCT24 Laboratory: E MAX

Analyzed for: VOCs TPH-G BTEX MTBE TPH-D BE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241024BD-1	Client: PARSONS
Sampler: SM	Gauging Date: 10/21/24
Well I.D.: MW-29	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 36.95	Depth to Water (ft.): 19.22
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO DSS

Purge Method: 2" Grundfos Pump — Peristaltic Pump — (Bladder Pump)
Sampling Method: (Dedicated Tubing) — New Tubing — Other ___
Start Purge Time: 1250 — Flow Rate: 200mL/MIN — Pump Depth: 32'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1253	23.3	7.58	882	25.1	CLEAR	3.78	192.3	600	19.72
1256	23.3	7.57	881	21.2	CLEAR	3.74	199.5	1200	19.76
1259	23.3	7.57	883	20.0	CLEAR	3.65	203.3	1800	19.78
1302	23.4	7.57	883	19.8	CLEAR	3.60	206.1	2400	19.80
1305	23.4	7.57	884	19.5	CLEAR	3.59	209.0	3000	19.83

Did well dewater? Yes (No) — Amount actually evacuated: 3000mL
Sampling Time: 1310 — Sampling Date: 10/24/24
Sample I.D.: T1AMF-MW029-OCT24 — Laboratory: E MAX
Analyzed for: VOCs TPH-G BTEX MTBE TPH-D BE TPH-D — Other:
Equipment Blank I.D.: @ Time — Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JL	Gauging Date: 10/22/24
Well I.D.: MW-30	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 44.76	Depth to Water (ft.): 29.87
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 1206 Flow Rate: 200 mL/min Pump Depth: 37.31'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1209	21.8	6.62	907	266	Cloudy	4.40	-16.1	600	30.31
1212	21.8	6.52	894	233		3.61	-10.3	1200	30.47
1215	21.8	6.51	888	222		3.51	-8.8	1800	30.42
1218	22.1	6.51	888	223		3.49	-8.3	2,400	30.50
1221	22.2	6.51	884	220		3.45	-8.4	3,000	30.50
1224	22.2	6.51	884	218		3.43	-8.4	3,600	30.50

Did well dewater? Yes (No) Amount actually evacuated: 3,600 mL

Sampling Time: 1225 Sampling Date: 10/22/24

Sample I.D.: TIAMF-MW030-OCT24 Laboratory: EMAX

Analyzed for: TPH-G BTEX MTBE TPH-D BE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.: TIAMF-MW030-OCT24-FD @ 1230

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: PARSONS
Sampler: SM	Gauging Date: 10/21/24
Well I.D.: MW-35	Well Diameter (in.): (2) 3 4 6 8
Total Well Depth (ft.): —	Depth to Water (ft.): —
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type: —

Purge Method: 2" Grundfos Pump — Peristaltic Pump — Bladder Pump
Sampling Method: Dedicated Tubing — New Tubing — Other

Start Purge Time: ~ Flow Rate: — Pump Depth:

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
		UNABLE	TO	ACCESS					

Did well dewater? Yes No — Amount actually evacuated:

Sampling Time: — Sampling Date:

Sample I.D.: — Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D 3E TPH-D — Other:

Equipment Blank I.D.: @ Time — Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021 BD-1	Client: PARSONS
Sampler: SM	Gauging Date: 10/21/24
Well I.D.: MW-42	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 34.66	Depth to Water (ft.): 17.35
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: (Dedicated Tubing) | New Tubing | Other ___

Start Purge Time: 1030 Flow Rate: 200mL/min Pump Depth: 30'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1033	21.5	7.73	478.6	150.7	SEMI-TURBID	3.76	104.4	600	17.94
1036	21.1	7.68	477.2	159.6	SEMI-TURBID	3.32	106.2	1200	17.91
1039	21.0	7.66	474.9	156.1	SEMI-TURBID	3.40	105.2	1800	17.91
1042	21.0	7.62	472.0	150.7	SEMI-TURBID	3.53	106.2	2400	17.92
1045	21.0	7.60	467.0	145.5	SEMI-TURBID	3.72	106.8	3000	17.92
10									

Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 1050 Sampling Date: 10/24/24

Sample I.D.: TIAMF-MW042_OCT24 Laboratory: E MAX

Analyzed for: VOC's TPH-G BTEX MTBE TPH-D BE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: PARSONS
Sampler: SM	Gauging Date: 10/24/24
Well I.D.: MW43	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 27.61	Depth to Water (ft.): 7.41
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: (Dedicated Tubing) | New Tubing | Other ___

Start Purge Time: 0930 Flow Rate: 200mL/MIN Pump Depth: 22'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0933	22.0	7.50	280.60	203.4	TURBID	2.56	109.5	600	7.52
0936	22.4	7.44	280.6	176.5	TURBID	1.10	93.4	1200	7.55
0939	22.4	7.44	280.3	180.4	TURBID	1.06	90.5	1800	7.57
0942	22.5	7.43	280.0	171.3	TURBID	1.02	87.4	2400	7.59
0945	22.5	7.42	279.9	170.0	TURBID	1.00	85.3	3000	7.61
0948	22.5	7.41	279.4	165.1	TURBID	0.98	84.6	3600	7.63

Did well dewater? Yes (No) Amount actually evacuated: 3600mL

Sampling Time: 0955 Sampling Date: 10/24/24

Sample I.D.: T1AMF-MW043-OCT24 Laboratory: EMAX

Analyzed for: TPH-G BTEX MTBE TPH-D BE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JL	Gauging Date: 10/24/24
Well I.D.: MW-44	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 37.64	Depth to Water (ft.): 14.62
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: (Dedicated) Tubing | New Tubing | Other ___

Start Purge Time: 1015 Flow Rate: 200 mL/min Pump Depth: 26.13

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1018	21.0	7.85	510	302	dirty	4.17	36.8	600	15.10
1021	21.2	7.26	570	140	dirty	3.19	42.8	1,200	15.00
1024	21.3	7.15	588	155	"	2.98	46.2	1,800	14.95
1027	21.3	7.13	597	138	"	2.83	47.5	2,400	14.95
1030	21.3	7.11	600	135	"	2.80	47.8	3,000	14.95
1033	21.3	7.10	600	130	"	2.78	49.3	3,600	14.95

Did well dewater? Yes (No)	Amount actually evacuated: 3,600
Sampling Time: 1034	Sampling Date: 10/24/24
Sample I.D.: TIAMF-MW044_OCT24	Laboratory: EMAX
Analyzed for: TPH-G BTEX MTBE TPH-D BE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

MS: TIAMF-MW044_OCT24_MS
MSD: TIAMF-MW044_OCT24_MSD

LOW FLOW WELL MONITORING DATA SHEET

Project #: 24102BD-1	Client: PARSONS
Sampler: SM	Gauging Date: 10/21/24
Well I.D.: MW-45	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 36.92	Depth to Water (ft.): 17.87
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO DSS

Purge Method: 2" Grundfos Pump — Peristaltic Pump — (Bladder Pump)
Sampling Method: (Dedicated Tubing) — New Tubing. — Other ___

Start Purge Time: 1345 Flow Rate: 200mL/MIN Pump Depth: 32'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1345	21.3	7.77	463.7	272.1	TURBID	4.08	129.7	600	18.01
1351	21.3	7.76	464.1	384.5	TURBID	3.94	132.8	1200	18.03
1354	21.1	7.75	463.2	389.4	TURBID	3.87	135.3	1800	18.05
1357	21.2	7.75	464.2	388.7	TURBID	3.83	137.2	2400	18.07
1400	21.2	7.74	463.8	390.9	TURBID	3.80	139.6	3000	18.10

Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 1405 Sampling Date: 10/24/24

Sample I.D.: T1AMF-MW045_OCT24 Laboratory: EMAX

Analyzed for: VOC'S TPH-G BTEX MTBE TPH-D BE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JL	Gauging Date: 10/24/24
Well I.D.: MW-46	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 43.47	Depth to Water (ft.): 22.57
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: Dedicated Tubing | New Tubing | Other____

Start Purge Time: 1115 Flow Rate: 200 mL/min Pump Depth: 33.01

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1118	21.1	7.81	694	363	dirty	6.04	-47.0	600	22.82
1121	20.3	7.38	682	365	"	4.52	-6.5	1,200	22.83
1124	20.3	7.24	679	158	cloudy	4.19	26.4	1,800	22.84
1127	20.3	7.24	679	148	"	4.18	27.7	2,400	22.84
1130	20.3	7.23	679	145	"	4.17	28.3	3,000	22.85
1133	20.2	7.23	678	140	"	4.16	28.5	3,600	22.86

Did well dewater? Yes (No) Amount actually evacuated: 3,600

Sampling Time: 1134 Sampling Date: 10/24/24

Sample I.D.: TIAMF-MW046_OCT24 Laboratory: EMAX

Analyzed for: TPH-G BTEX MTBE TPH-D BE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JL	Gauging Date: 10/24/24
Well I.D.: MW-47	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 42.40	Depth to Water (ft.): 19.80
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: Dedicated (Tubing) | New Tubing | Other ___

Start Purge Time: 0922 Flow Rate: 200 mL/min Pump Depth: 31.1'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0925	19.0	7.43	636	28	Cloudy	5.16	105.0	600	20.23
0928	18.9	7.21	636	26	"	4.90	99.5	1,200	20.40
0931	18.9	7.16	637	24	"	4.87	98.6	1,800	20.43
0934	18.8	7.13	641	23	"	4.86	98.7	2,400	20.45
0937	18.8	7.12	642	23	"	4.86	99.1	3,000	20.46
0940	18.7	7.10	644	23	"	4.86	99.6	3,600	20.46

Did well dewater? Yes (No)	Amount actually evacuated: 3,600
Sampling Time: 0941	Sampling Date: 10/24/24
Sample I.D.: TIAMF-MW047_OCT24	Laboratory: EMAX
Analyzed for: TPH-G BTEX MTBE TPH-D 3E TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JL	Gauging Date: 10/22/24
Well I.D.: MW-48	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 37.59	Depth to Water (ft.): 22.30
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: Dedicated (Tubing) | New Tubing | Other ___

Start Purge Time: 1400 Flow Rate: 200 mL/min Pump Depth: 29.94'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1403	23.1	7.77	520	64	Cloudy	1.66	-89.1	600	22.71
1406	23.8	7.73	521	55		1.35	-90.7	1,200	22.21
1409	23.7	7.71	527	51		1.14	-96.7	1,800	22.72
1412	23.6	7.71	526	47		1.14	-99.5	2,400	23.06
1415	23.7	7.71	526	53		1.19	-99.5	3,000	23.00
1418	23.7	7.71	528	48		1.23	-98.6	3,600	23.00

Did well dewater? Yes (No) Amount actually evacuated: 3,600 mL

Sampling Time: 1419 Sampling Date: 10/22/24

Sample I.D.: TIAMF-MW048_OCT24 Laboratory: EMAX

Analyzed for: TPH-G BTEX MTBE TPH-D BE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

TB
10/21/24

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JL	Gauging Date: 10/24/24
Well I.D.: MW-49	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 37.63	Depth to Water (ft.): 14.21
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 1212 Flow Rate: 200 mL/min Pump Depth: 25.92

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1215	22.5	7.20	638	182.	cloudy	5.41	26.6	600	14.48
1218	22.4	7.17	636	147		5.35	29.0	1,200	14.48
1221	22.3	7.14	634	113		5.33	35.3	1,800	14.49
1224	22.7	7.11	635	113		5.32	43.0	2,400	14.49
1227	22.6	7.11	635	112		5.31	43.7	3,000	14.50
1230	22.6	7.11	636	109		5.30	43.8	3,600	14.50

Did well dewater? Yes (No) Amount actually evacuated: 3600

Sampling Time: 1231 Sampling Date: 10/24/24

Sample I.D.: TIAMF-MW049-OCT24 Laboratory: EMAX

Analyzed for: TPH-G BTEX MTBE TPH-D 3E TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JL	Gauging Date: 10/24/24
Well I.D.: MW-50	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 41.94	Depth to Water (ft.): 23.45
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: Dedicated Tubing | New Tubing | Other ____
Start Purge Time: 0829 | Flow Rate: 200 mL/min | Pump Depth: 32.69'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
0831	17.4	7.59	913	295	dirty	4.21	231.0	600	23.83
0834	17.7	7.27	884	264	"	3.85	222.9	1,200	23.85
0837	18.1	7.19	882	200	"	3.77	213.4	1,800	23.81
0840	18.1	7.15	881	157	Cloudy	3.72	202.8	2,400	23.84
0843	18.1	7.14	880	152	"	3.70	199.7	3,000	23.85
0846	18.2	7.13	879	150	"	3.69	198.4	3,600	23.86

Did well dewater? Yes (No)	Amount actually evacuated: 3,600
Sampling Time: 0847	Sampling Date: 10/24/24
Sample I.D.: TIAMF-MW050_OCT24	Laboratory: EMAX
Analyzed for: TPH-G BTEX MTBE TPH-D 3E TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.: TIAMF-MW050_OCT24_FD

@0852

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JC	Gauging Date: 10/24/24
Well I.D.: MW-51	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): ~~n/a~~ 37.71	Depth to Water (ft.): ~~n/a~~ 15.30
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: (Dedicated Tubing) | New Tubing | Other ___

Start Purge Time: 1249 Flow Rate: 200 mL/min Pump Depth: 26.50'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1252	21.9	7.28	798	230	Cloudy	4.82	36.3	600	15.55
1255	21.6	7.14	803	204	|	4.52	41.0	1,200	15.58
1258	21.4	7.13	804	150	|	4.53	42.7	1,800	15.61
1301	21.4	7.12	809	147	|	4.54	43.2	2,400	15.61
1304	21.5	7.11	809	145	|	4.56	44.7	3,000	15.61
1307	21.6	7.11	811	140	|	4.57	45.3	3,600	15.61

Did well dewater? Yes (No) Amount actually evacuated: 3,600

Sampling Time: 1308 Sampling Date: 10/24/24

Sample I.D.: TIAMF-MW051-OCT24 Laboratory: EMAX

Analyzed for: TPH-G BTEX MTBE TPH-D 3E TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JL	Gauging Date: 10/23/24
Well I.D.: MW-52	Well Diameter (in.): 2 3 (4) 6 8 ____
Total Well Depth (ft.): 47.50	Depth to Water (ft.): 26.97
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: Dedicated Tubing | New Tubing | Other ____

Start Purge Time: 1420 Flow Rate: 200 mL/min Pump Depth: 37.23

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1423	23.4	6.96	867	280	dirty	4.55	-50.3	600	26.84
1426	23.0	6.75	846	220		3.12	-39.3	1,200	26.97
1429	23.8	6.71	848	200		2.95	-35.6	1,800	26.97
1431	22.5	6.71	841	210		3.00	-34.7	2,400	26.97
1434	22.3	6.70	838	214		2.97	-33.9	3,000	26.97
1437	22.2	6.69	837	213		2.94	-32.4	3,600	26.97

Did well dewater? Yes (No) Amount actually evacuated: 3,600

Sampling Time: 1438 Sampling Date: 10/23/24

Sample I.D.: TIAMF-MW052_OCT24 Laboratory: EMAX

Analyzed for: TPH-G BTEX MTBE TPH-D BE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021 BD-1	Client: PARSONS
Sampler: SM	Gauging Date: 10/21/24
Well I.D.: MW-53	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 38.90	Depth to Water (ft.): 21.76
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type: YSI PRO DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: (Dedicated Tubing) | New Tubing | Other ___

Start Purge Time: 1503 | Flow Rate: 200mL/MIN | Pump Depth: 30'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1503	23.4	7.86	541	174.3	GREY	2.22	100.8	600	21.88
1506	23.5	7.86	545	150.6	GREY	1.47	94.1	1200	22.03
1509	22.6	7.86	544	125.2	GREY	1.31	91.3	1800	22.06
1512	22.8	7.87	543	86.5	GREY	1.25	89.8	2400	22.08
1515	22.8	7.87	541	56.7	GREY	1.27	89.3	3000	22.09
1518	22.7	7.89	536	54.6	CLEAR	1.30	89.3	3600	22.10
1521	22.7	7.90	538	51.9	CLEAR	1.36	89.6	4200	22.11

Did well dewater? Yes (No) | Amount actually evacuated: 4200mL

Sampling Time: 1525 | Sampling Date: 10/21/24

Sample I.D.: T1AMF-MW053-OCT24 | Laboratory: E MAX

Analyzed for: VOCs TPH-G BTEX MTBE TPH-D 3E TPH-D | Other:

Equipment Blank I.D.: @ Time | Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JL	Gauging Date: 10/23/24
Well I.D.: MW-54	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): ~~24.80~~ 24.80	Depth to Water (ft.): 11.53
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: Dedicated (Tubing) | New Tubing | Other ____

Start Purge Time: 1056 Flow Rate: 200 mL/min Pump Depth: 18.165'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1059	20.7	7.17	485.4	25.	Clear	1.71	-14.5	600	13.43
1102	20.7	7.04	478.0	20		1.32	-34.9	1,200	13.44
1105	20.7	6.99	473.4	18		1.30	-36.3	1,800	13.46
1108	20.6	6.97	470.3	17		1.29	-37.3	2,400	13.47
1111	20.6	6.95	470.1	17		1.28	-38.4	3,000	13.48
1114	20.6	6.99	468.3	16		1.27	-39.2	3,600	13.49

Did well dewater? Yes (No) Amount actually evacuated: 3,600

Sampling Time: 1115 Sampling Date: 10/23/24

Sample I.D.: TIAMF-MW054-OCT24 Laboratory: EMAX

Analyzed for: TPH-G BTEX MTBE TPH-D BE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JL	Gauging Date: 10/23/24
Well I.D.: MW-55	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 27.34	Depth to Water (ft.): 10.37
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: Dedicated Tubing | New Tubing | Other ___
Start Purge Time: 1020 | Flow Rate: 200 mL/min | Pump Depth: 18.85'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1023	23.0	7.40	306.6	52	Cloudy	5.86	-45.0	600	10.45
1026	23.1	7.02	305.5	44	Cloudy	5.47	-42.5	1,200	10.47
1029	22.9	6.84	303.2	45	Cloudy	5.38	-37.0	1,800	10.49
1032	23.0	6.78	302.3	44	"	5.35	-36.2	2,400	10.51
1035	22.9	6.73	302.1	43	"	5.31	-35.6	3,000	10.53
1038	22.9	6.70	302.0	42	"	5.30	-34.7	3,600	10.55

Did well dewater? Yes (No) | Amount actually evacuated: 3,600 mL
Sampling Time: 1039 | Sampling Date: 10/23/24
Sample I.D.: TIAMF-MW055_OCT24 | Laboratory: EMAX
Analyzed for: TPH-G BTEX MTBE TPH-D BE TPH-D | Other:
Equipment Blank I.D.: @ Time | Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241024BD-1	Client: PARSONS
Sampler: SM	Gauging Date: 10/21/24
Well I.D.: MW-56	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 37.54	Depth to Water (ft.): 17.97
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI PRO DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: (Dedicated Tubing) | New Tubing | Other ___

Start Purge Time: 1145 Flow Rate: 200 mL/min Pump Depth: 33'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water (ft.)
1148	22.1	7.66	535	430.7	TURBID	5.62	118.0	600	18.12
1151	22.6	7.65	532	424.6	TURBID	5.53	117.3	1200	18.15
1154	22.9	7.65	530	269.8	TURBID	5.47	116.1	1800	18.18
1157	22.8	7.65	531	288.7	TURBID	5.75	115.9	2400	18.18
1200	22.7	7.64	529	264.4	TURBID	5.80	116.1	3000	18.18

Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 1205 Sampling Date: 10/24/24

Sample I.D.: T1AMF-MW056-OCT24 Laboratory: E MAX

Analyzed for: TPH-G BTEX MTBE TPH-D BE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.: T1AMF-MW056_OCT24_FD

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JL	Gauging Date: 10/22/24
Well I.D.: MW-57	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 42.44	Depth to Water (ft.): 22.82
Depth to Free Product: n/a	Thickness of Free Product (feet): N/A
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556 DS5

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 12:57 Flow Rate: 200 mL/min Pump Depth: 32.63

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1300	22.2	7.47	526	280	Cloudy	2.61	-37.9	600	23.50
1303	22.1	7.37	529	172		2.38	-42.1	1,200	23.51
1306	22.2	7.35	528	151		2.32	-43.9	1,800	23.50
1309	23.0	7.31	536	105		2.35	-46.9	2,400	23.50
1312	24.6	7.28	536	80		2.37	-47.2	3,000	23.51
1315	24.3	7.29	535	80		2.40	-48.2	3,600	23.51
1318	23.9	7.28	539	75		2.43	-47.3	~~3,900~~ 4200	23.51

Did well dewater? Yes (No) Amount actually evacuated: 4200

Sampling Time: ~~TIAMF-MW057_OCT24~~ @ 1319 Sampling Date: 10/22/24

Sample I.D.: TIAMF-MW057_OCT24 Laboratory: EMAX

Analyzed for: TPH-G BTEX MTBE TPH-D BE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: PARSONS
Sampler: SM	Gauging Date: 10/21/24
Well I.D.: MW-5B	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 25.6	Depth to Water (ft.): 25.08
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type:

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other

Start Purge Time: Flow Rate: Pump Depth:

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
		WELL DRY @							
		INSUFFICIENT WATER FOR							
			SAMPLE						

Did well dewater? Yes No Amount actually evacuated:

Sampling Time: Sampling Date:

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D 3E TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JL	Gauging Date: 10/22/24
Well I.D.: MW-59	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 32.02	Depth to Water (ft.): 12.37
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: (Dedicated Tubing) | New Tubing | Other ___

Start Purge Time: 1550 Flow Rate: 200 mL/min Pump Depth: 22.19'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1553	23.3	7.01	721	502	Cloudy	3.16	-45.0	600	12.23
1556	24.1	6.75	707	480		4.42	-30.2	1,200	12.23
1559	24.2	6.74	707	497		4.74	-27.2	1,800	12.31
1602	24.0	6.77	701	451		5.98	-20.2	2,400	12.32
1605	23.9	6.78	699	447		6.01	-19.4	3,000	12.33
1608	24.0	6.77	697	440		6.07	-18.7	3,600	12.34

Did well dewater? Yes (No) Amount actually evacuated: 3,600

Sampling Time: 1609 Sampling Date: 10/22/24

Sample I.D.: TIAMF-MW059_OCT24 Laboratory: EMAX

Analyzed for: TPH-G BTEX MTBE TPH-D 3E TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

MS: TIAMF-MW059_OCT24_MS

MSD: TIAMF-MW059_OCT24_MSD

LOW FLOW WELL MONITORING DATA SHEET

Project #: ~~240BD-10~~ 241021BD-1	Client: Parsons
Sampler: JL	Gauging Date: 10/22/24
Well I.D.: MW-60	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 37.52	Depth to Water (ft.): 23.43
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1451 Flow Rate: 200mL/min Pump Depth: 30.47'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1454	21.9	6.66	1262	394	Cloudy	4.22	-56.4	600	23.49
1457	23.2	6.54	1242	324		3.67	-30.1	1,200	23.50
1500	23.7	654	1256	336		3.61	-26.9	1,800	23.50
1503	23.8	6.53	1261	331		3.59	-23.2	2,400	23.50
1506	23.5	6.54	1255	342		3.60	-22.9	3000	23.50
1509	23.5	6.53	1253	340		3.58	-22.0	3,600	23.50

Did well dewater? Yes (No)	Amount actually evacuated: 3,600mL
Sampling Time: 1510	Sampling Date: 10/22/24
Sample I.D.: TIAMF-MW060_OCT24	Laboratory: EMAX
Analyzed for: TPH-G BTEX MTBE TPH-D BE TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JL	Gauging Date: 10/22/24
Well I.D.: MW-61	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 32.60	Depth to Water (ft.): 18.40
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: (Dedicated) Tubing | New Tubing | Other ___

Start Purge Time: 1052 | Flow Rate: 200 mL/min | Pump Depth: 25.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1055	20.7	7.20	663	492	dirty	2.40	-29.0	600	19.10
1058	20.8	7.02	657	521		2.29	-30.0	1,200	19.11
1101	21.1	6.99	657	433		2.32	-30.4	1,800	19.10
1104	20.9	6.98	659	335		2.10	-32.3	2,400	19.00
1107	21.1	6.97	660	295		1.96	-34.3	3,000	19.00
1110	21.2	6.96	655	233		2.14	-35.2	3,600	19.00
1113	21.4	6.95	653	182		2.59	-34.2	4,200	18.85
1116	21.5	6.94	652	173		2.43	-33.7	4,800	18.83
1119	21.5	6.94	652	182		2.46	-33.5	5,300	18.79

Did well dewater? Yes (No) — Amount actually evacuated: 5,300

Sampling Time: 1120 — Sampling Date: 10/22/24

Sample I.D.: TIAMF-MW062_OCT24 — Laboratory: EMAX

Analyzed for: TPH-G BTEX MTBE TPH-D BE TPH-D — Other:

Equipment Blank I.D.: @ Time — Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JL	Gauging Date: 10/22/24
Well I.D.: MW-62	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 32.60	Depth to Water (ft.): 18.66
Depth to Free Product: N/A	Thickness of Free Product (feet): N/A
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro plus

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: Dedicated Tubing | New Tubing | Other ____
Start Purge Time: 0956 | Flow Rate: 200 mL/min | Pump Depth: 25.63

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0959	20.8	7.09	992	1365	dirty	1.34	23.6	600	19.20
1002	20.9	7.02	999	819		1.14	-4.6	1200	19.42
1005	21.0	7.01	1004	490		1.10	-19.6	1800	19.39
1008	21.1	7.01	1008	278		1.07	-32.9	2400	19.30
1011	21.2	7.01	1008	261		1.08	-35.2	3000	19.30
1014	21.2	7.01	1009	258		1.07	-38.8	3600	19.31

Did well dewater? Yes (No) — Amount actually evacuated: 3,600 mL
Sampling Time: 1015 — Sampling Date: 10/22/24
Sample I.D.: TIAMF-MW062_OCT24 — Laboratory: EMAX
Analyzed for: TPH-G BTEX MTBE TPH-D BE TPH-D — Other:
Equipment Blank I.D.: @ Time — Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JL	Gauging Date: 10/23/24
Well I.D.: MW-63	Well Diameter (in.): (2) 3 4 6 8 ____
Total Well Depth (ft.): 31.08	Depth to Water (ft.): 15.60
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: Dedicated Tubing | New Tubing | Other ____
Start Purge Time: 0757 | Flow Rate: 200 mL/min | Pump Depth: 23.34'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0800	18.3	7.50	658	370	Cloudy	1.96	3.4	600	15.89
0803	18.4	7.33	656	350		1.97	1.2	1,200	15.90
0806	19.2	7.14	665	315		1.28	-6.7	1,800	16.30
0809	19.3	7.04	664	312		1.17	-14.5	2,400	16.80
0812	19.4	7.01	663	310		1.14	-16.3	3,000	16.82
0815	19.4	7.00	661	307		1.13	-17.4	3,600	16.83

Did well dewater? Yes (No) | Amount actually evacuated: 3,600 mL
Sampling Time: 0816 | Sampling Date: 10/23/24
Sample I.D.: T1AMF-MW063_OCT24 | Laboratory: EMAX
Analyzed for: TPH-G BTEX MTBE TPH-D 3E TPH-D | Other:
Equipment Blank I.D.: @ Time | Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JC	Gauging Date: 10/23/24
Well I.D.: MW-64	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 32.01	Depth to Water (ft.): 15.70
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | ~~Bladder Pump~~
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 0844 | Flow Rate: 200 mL/min | Pump Depth: 23.85'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or ~~µS/cm~~)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0847	19.4	7.83	551	128	Cloudy	2.53	-73.0	600	16.10
0850	19.9	7.62	556	70		1.23	-117.0	1,200	16.13
0853	19.8	7.59	557	68		1.18	-120.0	1,800	16.14
0856	19.9	7.60	559	60		1.15	-124.0	2,400	16.15
0859	19.8	7.57	557	57		1.13	-126.0	3,000	16.16
0902	19.8	7.56	554	55		1.12	-128.2	3,600	16.17

Did well dewater? Yes (No)	Amount actually evacuated: 3600
Sampling Time: 0903	Sampling Date: 10/23/24
Sample I.D.: TIAMF-MW064_OCT24	Laboratory: EMAX
Analyzed for: TPH-G BTEX MTBE TPH-D 3E TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: PARSONS
Sampler: SM	Gauging Date: 10/21/24
Well I.D.: MW-66	Well Diameter (in.): (2) 3 4 6 8 ___
Total Well Depth (ft.): 32.58	Depth to Water (ft.): 21.10
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type: YSI 556 PSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | Bladder Pump
Sampling Method: Dedicated Tubing | New Tubing | Other ___

Start Purge Time: 1550 Flow Rate: 200ml/min Pump Depth: 25'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1553	22.6	7.42	641	71000	GREY	3.85	142.8	600	21.19
1556	22.7	7.42	642	71000	GREY	3.71	140.6	1200	21.20
1559	22.6	7.43	644	71000	GREY	3.63	136.0	1800	21.21
1602	22.5	7.43	647	71000	GREY	3.70	134.6	2400	21.22
1605	22.5	7.43	648	71000	GREY	3.73	133.6	3000	21.22

Did well dewater? Yes (No) Amount actually evacuated: 3000mL

Sampling Time: 1610 Sampling Date: 10/21/24

Sample I.D.: TIAMF-MW066_OCT24 Laboratory: E MAX

Analyzed for: VOC's TPH-G BTEX MTBE TPH-D BE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 241021BD-1	Client: Parsons
Sampler: JL	Gauging Date: 10/24/24
Well I.D.: EW-1	Well Diameter (in.): 2 3 (4) ~~6~~ 8 (10)
Total Well Depth (ft.): 26.45	Depth to Water (ft.): 19.02
Depth to Free Product: n/a	Thickness of Free Product (feet): n/a
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro DSS

Purge Method: 2" Grundfos Pump | Peristaltic Pump | (Bladder Pump)
Sampling Method: Dedicated Tubing | New Tubing | Other

Start Purge Time: 1343 Flow Rate: 200 mL/min Pump Depth: 22.73

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	Color (Visual)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1348	22.9	7.56	753	17	Cloudy	4.65	10.5	600	19.03
1351	22.9	7.43	752	16	"	4.50	15.4	1,200	19.03
1354	22.9	7.39	752	15	"	4.48	17.7	1,800	19.03
1357	22.8	7.36	750	14	"	4.46	12.6	2,400	19.03
1400	22.8	7.35	749	13	"	4.45	13.8	3,000	19.03
1403	22.8	7.34	749	13	"	4.43	14.2	3,600	19.03

Did well dewater? Yes (No) Amount actually evacuated: 3,600

Sampling Time: 1404 Sampling Date: 10/24/24

Sample I.D.: TIAMF-EW01_OCT24 Laboratory: EMAX

Analyzed for: TPH-G BTEX MTBE TPH-D 3E TPH-D Other:

Equipment Blank I.D.: EB-1 @ Time 1410 Duplicate I.D.:

WELLHEAD INSPECTION CHECKLIST

Client PARSONS @ TITAN LA MISSILE Date 10/21/24

Site Address Lincoln, CA

Job Number 241021BD-1 Technician SM

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-57	X							
MW-66	X							
MW-61	X							
MW-62	X							
MW-63	X							
MW-64	X							
MW-57	X							
MW-30		1/2 BOLTS						
MW-55	X							
MW-42	X							
MW-43	X							
MW-54	X							
MW-19	X							
MW-59	X							
MW-44	X							
MW-47	X							

NOTES:

WELLHEAD INSPECTION CHECKLIST

Client Parsons @ Titan I-A missile Date 10/21/24

Site Address Lincoln, CA

Job Number 241021BD-1 Technician SM

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-46	X							
MW-50	X							
MW-52	X							
MW-51	X							
MW-49	X							
MW-45	X							
MW-48	X							
MW-22	X							
MW-31	X							
MW-32	X							
MW-33	X							
MW-18	X							
MW-34	X							
MW-29	X							
EW-1	X							
MW-50	X							

NOTES:

WELLHEAD INSPECTION CHECKLIST

Client Parsons @ Titan 1-A Date 10/21/24

Site Address Lincoln, CA

Job Number 241021BD-1 Technician SM

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-11	X							
MW-16	X							
MW-58	X							
MW-60	X							
MW-17							X	
MW-32							X	

NOTES: MW-17, MW-32: WELLS BURIED
- CONFIRMED LOCATION WITH CLIENT,
- ON-SITE CONSTRUCTION ACTIVITY,
- UNABLE TO ACCESS

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	PARSONS @ TITAN A-1 MISSILE	PROJECT NUMBER	241024BD-1

EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI PRO DSS	19J101117	10/24/24 0815	DO 100% COND 3900	100% 3900	✓ ✓	17.4	SM
			PH 4 7 10	4.01 7.03 10.11	✓ ✓ ✓		
			ORP 240	240.2	✓		
YSI PRO DSS	19J101117	10/24/24 0900	DO 100% COND 3900	100% 3900	✓ ✓	19.1	SM
			PH 4 7 10	4.02 6.98 9.99	✓ ✓ ✓		
			ORP 238	239.6	✓		

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	Parsons @ Titan 1-A missle			PROJECT NUMBER	241024BD-1		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP. °C	INITIALS
YSI ProDSS	17M100629	10/23/24 0640	PH 6.0, 7.0 10.0 Cond. 3900	6.0, 7.0 10.0 3827	✓ ✓ ✓	25	JC
			ORP. 237 DO 100%	237 100%	✓ ✓		
YSI ProDSS	17M100629	10/23/24 0630	PH 6.0, 7.0 10.0 Cond. 3900	6.0, 7.0, 10.0 3875	✓ ✓ ✓ ✓	25	JC
			D.O% 100%	100%	✓		

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	Former Titan 1A Missile			PROJECT NUMBER	24/0215M-1		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
MultiRAE	MBB3Z120R1	10/23/24 0610	CO 50ppm H_2S 25ppm O_2 20.9% CH_4 50% VOC 100ppm	Pass	✓	—	BD
MultiRAE	MBB3Z120R1	10/24/24 0600	CO 50ppm H_2S 25ppm O_2 20.9% CH_4 50% VOC 100ppm	Pass	✓	—	BD
MultiRAE	MBB3Z120R1	10/25/24 0615	CO 50ppm H_2S 25ppm O_2 20.9% CH_4 50% VOC 100ppm	Pass	✓	—	JP
MultiRAE	MBB3Z120R1	10/28/24 0615	CO 50ppm H_2S 25ppm O_2 20.9% CH_4 50% VOC 100ppm	Pass	✓	—	JP
MultiRAE	MBB3Z120R1	10/29/24 0615	CO 50ppm H_2S 25ppm O_2 20.9% CH_4 50% VOC 100ppm	Pass	✓	—	JP

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021SM-1	Client: Parsons
Sampler: BD, JP	Site: Titan A-1
ID: SV1	Sampling Date: 10/24/24
Ambient Temp (°F): 66	Ambient Barometric Pressure (inHg): 30.02
Monitoring Equipment: ☒ Multi Rae (PID) ☒ MGD 2002 (Helium Detector)	
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: ☒ PASS ☐ FAIL Start inHg: -15.5 End inHg: -15.5
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4400 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 35.8 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: T1AMF-SV001_OCT24		Sampling Date: 10/24/24	
Vacuum Shut In Test: ☒ PASS ☐ FAIL		Start inHg: -30	End inHg: -30
Canister Serial/ID #: 1L2125	Critical Orifice Assembly (COA) #: 25336		Flow Rate: 200 ml/min
Sample Time: Start: 1222	End: 1228	Duration: 6	min / hour
Canister Volume: Initial: -30 inHg		Final: -5	inHg

~~Duplicate~~ Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: ☐ PASS ☐ FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	Critical Orifice Assembly (COA) #:		Flow Rate: ml/min
Sample Time: Start:	End:	Duration:	min / hour
Canister Volume: Initial: inHg		Final:	inHg

Laboratory: Air Toxics
Analyzed For: See COC

No Lock

Pre Purge	Post Purge
OXY % - 20.9	OXY % - 20.9
LEL % - 0.0	LEL % - 0.0
CO ppm - 0.0	CO ppm - 0.0
H_2S ppm - 0.0	H_2S ppm - 0.0
VOC ppm - 0.0	VOC ppm - 0.1

Sampler's Signature:

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021SM-1	Client: Parsons
Sampler: JP	Site: Titan A-1
ID: SV-2	Sampling Date: 10/25/24
Ambient Temp (°F): 60	Ambient Barometric Pressure (inHg): 29.98
Monitoring Equipment: [X] Multi Rae (PID)	[X] MGD 2002 (Helium Detector)
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -15.5 End inHg: -15.5
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4564 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 31.1 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: T1AMF-SV002_OCT24		Sampling Date: 10/25/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: -30	End inHg: -30
Canister Serial/ID #: 1L4234	Critical Orifice Assembly (COA) #: 25600		Flow Rate: 200 ml/min
Sample Time: Start: 1030	End: 1036	Duration: 6	min / hour
Canister Volume: Initial: -30 inHg		Final: -5	inHg

Duplicate Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: [ ] PASS [ ] FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	Critical Orifice Assembly (COA) #:		Flow Rate: ml/min
Sample Time: Start:	End:	Duration:	min / hour
Canister Volume: Initial: inHg		Final:	inHg

Laboratory: Air Toxics	
Analyzed For: See COC	

Sampler's Signature:

Pre Purge
oxy %. – 20.9
LEL %. – 0.0
CO – 0.0
H_2S – 0.0
VOC – 0.0

Post Purge
OXY %. – 20.9
LEL %. – 0.0
CO – 0.0
H_2S – 0.0
VOC – 0.0

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021SM-1	Client: Parsons
Sampler: BD	Site: Tifan A.1
ID: SV-3	Sampling Date: 10/23/24
Ambient Temp (°F): 72	Ambient Barometric Pressure (inHg): 30.10
Monitoring Equipment: ☒ Multi Rae (PID)	☒ MGD 2002 (Helium Detector)
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: ☒ PASS ☐ FAIL Start inHg: -16 End inHg: -16
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4545 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 24.3 %
5. Post Purge leak check using Helium Detector: 500 PPM %

Sample I.D.: TIAMF-SV003_0T24		Sampling Date: 10/23/24	
Vacuum Shut In Test: ☒ PASS ☐ FAIL		Start inHg: -25.5	End inHg: -25.5
Canister Serial/ID #: 1L1957	Critical Orifice Assembly (COA) #: 22438		Flow Rate: 200 ml/min
Sample Time: Start: 1257	End: 1303	Duration: 6	(min) / hour
Canister Volume: Initial: -25.5 inHg		Final: -5	inHg

~~Duplicate~~ Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: ☐ PASS ☐ FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	Critical Orifice Assembly (COA) #:		Flow Rate: ml/min
Sample Time: Start:	End:	Duration:	min / hour
Canister Volume: Initial: inHg		Final:	inHg

Laboratory: Air Toxics	
Analyzed For: See COC	

Sampler's Signature:

Pre Purge
OXY% - 20.9
LEL% - 0.0
CO PPM - 0.0
H_2S PPM - 0.0
VOC PPM - 0.0

Post Purge
OXY% - 20.9
LEL% - 0.0
CO PPM - 0.0
H_2S PPM - 0.0
VOC PPM - 0.1

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021 SM-1	Client: Parsons
Sampler: SI	Site: Titan A-1
ID: SV-4	Sampling Date: 10/28/24
Ambient Temp (°F): 55	Ambient Barometric Pressure (inHg): 30.04
Monitoring Equipment: [X] Multi Rae (PID) [X] MGD 2002 (Helium Detector)	
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -5.5 End inHg: -5.5
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 1477 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 26.0 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: TIAMF-SV004_OCT24		Sampling Date: 10/28/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: -26	End inHg: -26
Canister Serial/ID #: 1L2047	Critical Orifice Assembly (COA) #: 30679		Flow Rate: 200 ml/min
Sample Time: Start: 0934	End: 0940	Duration: 6	min / hour
Canister Volume: Initial: -26 inHg		Final: -5 inHg	

~~Duplicate~~ Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: [ ] PASS [ ] FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	Critical Orifice Assembly (COA) #:		Flow Rate: ml/min
Sample Time: Start:	End:	~~Duration~~:	min / hour
Canister Volume: Initial: inHg		Final: inHg	

Laboratory: Air Toxics
Analyzed For: See COC

Sampler's Signature:

Pre Purge	Post Purge
Oxy. % - 20.9	Oxy. % - 20.9
LEL % - 0.0	LEL % - 0.0
CO - 0.0	CO - 0.0
H_2S - 0.0	H_2S - 0.0
VOC - 0.0	

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 2410215M-1	Client: Parsons
Sampler: JP	Site: Titan A-1
ID: SV-5B	Sampling Date: 10/29/24
Ambient Temp (°F): 41	Ambient Barometric Pressure (inHg): 29.99
Monitoring Equipment: [X] Multi Rae (PID)	[X] MGD 2002 (Helium Detector)
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -14.5 End inHg: -14.5
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4477 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 32.1 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: T1AMF-SV05B_OCT24		Sampling Date: 10/29/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: -26	End inHg: -26
Canister Serial/ID #: 1L4477	Critical Orifice Assembly (COA) #: 25034		Flow Rate: 200 ml/min
Sample Time: Start: 0815	End: 0822	Duration: 7	min / hour
Canister Volume: Initial: -26 inHg		Final: -5 inHg	

~~Duplicate Sample I.D.:~~		Sampling Date:	
~~Vacuum Shut In Test:~~ [ ] PASS [ ] FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	~~Critical Orifice Assembly (COA) #:~~		Flow Rate: ml/min
Sample Time: ~~Start:~~	End:	~~Duration:~~	min / hour
~~**Canister Volume:**~~ Initial: inHg		Final: inHg	

Laboratory: Air Toxics

Analyzed For: See COC

Pre Purge
Oxy. 1. – 20.9
Lel. 1. – 0.0
CO – 0.0
H_2S – 0.0
VOC – 0.0

Post Purge
Oxy. 1. – 20.9
Lel. 1. – 0.0
CO – 0.0
H_2S – 0.0
VOC – 0.0

Sampler's Signature:

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021 SM-1	Client: Parsons
Sampler: JP	Site: Titan A-1
ID: SV-6	Sampling Date: 10/29/24
Ambient Temp (°F): 44	Ambient Barometric Pressure (inHg): 30.01
Monitoring Equipment: [X] Multi Rae (PID) [X] MGD 2002 (Helium Detector)	
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -15.5 End inHg: -15.5
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4477 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 28.6 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: T1AMF-SV006_OCT24		Sampling Date: 10/29/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: -27	End inHg: -27
Canister Serial/ID #: 1L2582	Critical Orifice Assembly (COA) #: 25552		Flow Rate: 200 ml/min
Sample Time: Start: 0919	End: 0924	Duration: 5	~~min~~ / hour
Canister Volume: Initial: -27 inHg		Final: -5 inHg	

~~Duplicate~~ Sample I.D.:		Sampling Date:	
Vacuum ~~Shut In Test~~: [ ] PASS [ ] FAIL		~~Start inHg~~:	End inHg:
Canister Serial/ID #:	~~Critical Orifice Assembly (COA) #~~:		Flow Rate: ml/min
Sample Time: ~~Start~~:	End:	~~Duration~~:	min / hour
~~Canister Volume~~: Initial: inHg		Final: inHg	

Laboratory:	Air Toxics
Analyzed For:	See COC

Sampler's Signature:

Pre Purge	Post Purge
Oxy %: 20.9	Oxy %: 20.9
LEL %: 0.0	LEL %: 0.0
CO: 0.0	CO: 0.0
H_2S: 0.0	H_2S: 0.0
VOC: 0.0	VOC: 0.0

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021SM-1	Client: Parsons
Sampler: JP	Site: Titan A-1
ID: SV-7	Sampling Date: 10/29/24
Ambient Temp (°F): ~~66~~ 56	Ambient Barometric Pressure (inHg): 30.02
Monitoring Equipment: [X] Multi Rae (PID)	[X] MGD 2002 (Helium Detector)
PID Reading (ppm):	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: ☐ PASS ☐ FAIL Start inHg: _____ End inHg: _____
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4477 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: _____ %
5. Post Purge leak check using Helium Detector: _____ %

Tubing was ripped out, couldn't sample.

Sample I.D.: T1AMF-SV007_OCT24		Sampling Date: 10/29/24	
Vacuum Shut In Test: ☐ PASS ☐ FAIL		Start inHg: _____	End inHg: _____
Canister Serial/ID #:	Critical Orifice Assembly (COA) #:		Flow Rate: 200 ml/min
Sample Time: Start:	End:	Duration: _____ min / hour	
Canister Volume: Initial: _____ inHg		Final: _____ inHg	

~~Duplicate~~ Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: ☐ PASS ☐ FAIL		Start inHg: _____	End inHg: _____
Canister Serial/ID #:	~~Critical Orifice Assembly (COA)~~ #:		Flow Rate: _____ ml/min
Sample Time: Start:	End:	~~Duration:~~ _____ min / hour	
~~**Canister Volume:**~~ Initial: _____ inHg		Final: _____ inHg	

Laboratory: Air Toxics
Analyzed For: See COC

Sampler's Signature: _____

Pre Purge	Post Purge
Oxy. -.-	Oxy. -.-
LEL -.-	LEL -.-
CO -	CO -
H_2S -	H_2S -
VOC -	VOC -

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 2410215M-1	Client: Parsons
Sampler: JR	Site: Titan A-1
ID: SV-8	Sampling Date: 10/29/24
Ambient Temp (°F): 57	Ambient Barometric Pressure (inHg): 30.02
Monitoring Equipment: ☒ Multi Rae (PID)	☒ MGD 2002 (Helium Detector)
PID Reading (ppm):	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: ☐ PASS ☐ FAIL Start inHg: _____ End inHg: _____
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4477 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: _____ %
5. Post Purge leak check using Helium Detector: _____ %

Tubing was gone, couldn't sample

Sample I.D.: T1AMF-SV008_OCT24			Sampling Date: 10/29/24
Vacuum Shut In Test: ☐ PASS ☐ FAIL		Start inHg: _____	End inHg: _____
Canister Serial/ID #:	Critical Orifice Assembly (COA) #:		Flow Rate: _____ ml/min
Sample Time: Start:	End:	Duration: _____ min / hour	
Canister Volume: Initial: _____ inHg		Final: _____ inHg	

Duplicate Sample I.D.:			Sampling Date:
Vacuum Shut In Test: ☐ PASS ☐ FAIL		Start inHg: _____	End inHg: _____
Canister Serial/ID #:	Critical Orifice Assembly (COA) #:		Flow Rate: _____ ml/min
Sample Time: Start:	End:	Duration: _____ min / hour	
Canister Volume: Initial: _____ inHg		Final: _____ inHg	

Laboratory: Air Toxics
Analyzed For: TO-15

Sampler's Signature: _____

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021 SM-1	Client: Parsons
Sampler: SP	Site: Titan A-1
ID: SV-9B	Sampling Date: 10/28/24
Ambient Temp (°F): 55	Ambient Barometric Pressure (inHg): 30.03
Monitoring Equipment: [X] Multi Rae (PID) [X] MGD 2002 (Helium Detector)	
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -11.5 End inHg: -11.5
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4495 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 24.7 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: T1AMF-SV09B_OCT24		Sampling Date: 10/28/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: -28	End inHg: -28
Canister Serial/ID #: 1L2909	Critical Orifice Assembly (COA) #: 30982		Flow Rate: 200 ml/min
Sample Time: Start: 1039	End: 1047	Duration: 8 (min) / hour	
Canister Volume: Initial: -28 inHg		Final: -5 inHg	

~~Duplicate Sample I.D.:~~		Sampling Date:	
Vacuum Shut In Test: [ ] PASS [ ] FAIL		Start inHg:	~~End inHg:~~
Canister Serial/ID #:	Critical Orifice ~~Assembly~~ (COA) #:		Flow Rate: ml/min
Sample Time: ~~Start:~~	End:	~~Duration:~~	min / hour
~~Canister~~ Volume:	Initial: inHg	Final: inHg	

Laboratory:	Air Toxics
Analyzed For:	See COC

Sampler's Signature:

Pre Purge	Post Purge
Oxy. l. – 20.9	Oxy. l. – 20.9
LEL l. – 0.0	LEL l. – 0.0
CO ppm – 0.0	CO ppm – 0.0
H_2S – 0.0	H_2S – 0.0
VOC – 0.0	VOC – 0.0

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 24 1021SM - 1	Client: Parsons
Sampler: BD	Site: Titan A1
ID: ~~TIAMF-SV010~~ SV-10	Sampling Date: 10/23/24
Ambient Temp (°F): 57	Ambient Barometric Pressure (inHg): 30.11
Monitoring Equipment: ☒ Multi Rae (PID)	☒ MGD 2002 (Helium Detector)
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: ☒ PASS ☐ FAIL Start inHg: -20 End inHg: -20
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4564 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 25.1 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: TIAMF-SV010_OCT24		Sampling Date: 10/23/24	
Vacuum Shut In Test: ☒ PASS ☐ FAIL		Start inHg: -26.5	End inHg: -26.5
Canister Serial/ID #: 1L1519	Critical Orifice Assembly (COA) #: 22578		Flow Rate: 200 ml/min
Sample Time: Start: 0944	End: 0949	Duration: ~~200~~ 5 (min) / hour	
Canister Volume: Initial: -26.5 inHg		Final: -5 inHg	

Duplicate Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: ☐ PASS ☐ FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	Critical Orifice Assembly (COA) #:		Flow Rate: ml/min
Sample Time: Start:	End:	Duration: min / hour	
Canister Volume: Initial: inHg		Final: inHg	

Laboratory:	Air Toxins
Analyzed For:	See COC

well needs labeled

Sampler's Signature:

Pre Purge	Post Purge
OXY% - 20.9	OXY% - 20.9
LEL% - 0.0	LEL% - 0.0
CO PPM - 0.0	CO PPM - 0.0
H2S PPM - 0.0	H2S PPM - 0.0
VOC PPM - 0.0	VOC PPM - 0.0

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021SM-1	Client: Parsons
Sampler: BD	Site: Titan A-1
ID: ~~TIAMF-SV011~~ SV-11	Sampling Date: 10/23/24
Ambient Temp (°F): 48	Ambient Barometric Pressure (inHg): 30.10
Monitoring Equipment: ☒ Multi Rae (PID)	☒ MGD 2002 (Helium Detector)
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: ☒ PASS ☐ FAIL Start inHg: -20 End inHg: -20
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4622 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: ~~213~~ % 36.5 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: TIAMF-SV011_OCT24		Sampling Date: 10/23/24	
Vacuum Shut In Test: ☒ PASS ☐ FAIL		Start inHg: -28.5	End inHg: -28.5
Canister Serial/ID #: 1L4288	Critical Orifice Assembly (COA) #: 25050		Flow Rate: 200 ml/min
Sample Time: Start: 0826	End: 0831	Duration: ~~208~~ 5 min	/ hour
Canister Volume: Initial: -28.5 inHg		Final: -5 inHg	

Duplicate Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: ☐ PASS ☐ FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	Critical Orifice Assembly (COA) #:		Flow Rate: ml/min
Sample Time: Start:	End:	Duration: min	/ hour
Canister Volume: Initial: inHg		Final: inHg	

Laboratory: Air Toxins

Analyzed For: See COC

Sampler's Signature:

Pre Purge	Post Purge
O2% - 20.9	O2% - 20.9
LEL% - 0.0	LEL% - 0.0
CO PPM - 0.0	CO PPM - 0.0
H2S PPM - 0.0	H2S PPM - 0.0
VOC PPM - 0.0	VOC PPM - 0.0

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 2410215M-1	Client: Parsons
Sampler: SP	Site: Titan A-1
ID: SV-12	Sampling Date: 10/28/24
Ambient Temp (°F): 61	Ambient Barometric Pressure (inHg): 30.02
Monitoring Equipment: [X] Multi Rae (PID)	[X] MGD 2002 (Helium Detector)
PID Reading (ppm): 0.9	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -6.5 End inHg: -6.5
2. ~~Purged 3 volumes prior to sample collection.~~ **Total Volume Purged:** 4500 ml
3. Leak Testing Compound: Helium
4. ~~Helium Gas Concentration in Shroud:~~ _____ %
5. Post Purge leak check using ~~Helium Detector:~~ _____ %

Water in the line. Did not sample.

~~Sample I.D.:~~ T1AMF-SV012_OCT24		Sampling Date: 10/28/24	
Vacuum Shut In Test: SP [ ] PASS	[ ] FAIL	Start inHg: _____	End inHg: _____
Canister Serial/ID #: 21398	~~Critical Orifice Assembly (COA) #:~~ 25101 SP		Flow Rate: 200 ml/min
Sample Time: Start:	End:	Duration: _____	min / hour
Canister Volume: Initial: _____ inHg		Final: _____ inHg	

~~Duplicate Sample I.D.:~~		Sampling Date:	
Vacuum Shut In Test: [ ] PASS	[ ] FAIL	Start inHg: _____	End inHg: _____
Canister Serial/ID #:	~~Critical Orifice Assembly (COA) #:~~		Flow Rate: _____ ml/min
Sample Time: Start:	End:	Duration: _____	min / hour
Canister Volume: Initial: _____ inHg		Final: _____ inHg	

Laboratory: Air Toxics
Analyzed For: see COC

Sampler's Signature: _____

Pre Purge	Post Purge
Oxy-1.- 20.9	Oxy.1.-
LEL % - 0.0	LEL.1.-
CO ppm 0.0	CO -
H_2S - 0.0	H_2S -
VOC - 0.9	VOC -

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 2410215M-1	Client: Parsons
Sampler: SP	Site: Titan A-1
ID: SV-15B	Sampling Date: 10/28/24
Ambient Temp (°F): 61	Ambient Barometric Pressure (inHg): 30.01
Monitoring Equipment: [X] Multi Rae (PID)	[X] MGD 2002 (Helium Detector)
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -14 End inHg: -14
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4452 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 20.1 %
5. Post Purge leak check using Helium Detector: 0.0 %

1L4483 — 25436

Sample I.D.: T1AMF-SV015B_OCT24		Sampling Date: 10/28/24
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: -26 End inHg: -26
Canister Serial/ID #: 01463	Critical Orifice Assembly (COA) #: 25436 OP	Flow Rate: 200 ml/min
Sample Time: Start: 1233	End: 1238	Duration: 5 ~~min~~ / hour
Canister Volume: Initial: -26 inHg		Final: -5 inHg

~~Duplicate Sample I.D.:~~		Sampling Date:
Vacuum Shut In Test: [ ] PASS [ ] FAIL		Start inHg: End inHg:
Canister Serial/ID #:	Critical Orifice Assembly (COA) #:	Flow Rate: ml/min
Sample Time: Start:	End:	Duration: min / hour
Canister Volume: Initial: inHg		Final: inHg

Laboratory: Air Toxics	
Analyzed For: See COC	

Sampler's Signature:

Pre Purge	Post Purge
Oxy-% – 20.9	Oxy-% – 20.9
LEL-% – 0.0	LEL-% – 0.0
CO – 0.0	CO – 0.0
H2S – 0.0	H2S – 0.0
VOC – 0.0	VOC – 0.0

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021 SM-1	Client: Parsons
Sampler: JP	Site: Titan A-1
ID: SV-16	Sampling Date: 10/29/24
Ambient Temp (°F): 50	Ambient Barometric Pressure (inHg): 30.02
Monitoring Equipment: [X] Multi Rae (PID) [X] MGD 2002 (Helium Detector)	
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -14 End inHg: -14
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4550 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 21.7 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: T1AMF-SV016_OCT24		Sampling Date: 10/29/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: -28	End inHg: -28
Canister Serial/ID #: 1L2852	Critical Orifice Assembly (COA) #: 25358		Flow Rate: 200 ml/min
Sample Time: Start: 1031	End: 1037	Duration: 6	min / hour
Canister Volume: Initial: -28 inHg		Final: -5 inHg	

~~Duplicate~~ Sample I.D.:		Sampling Date:	
Vacuum ~~Shut In~~ Test: [ ] PASS [ ] FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	~~Critical Orifice Assembly (COA) #:~~		Flow Rate: ml/min
Sample Time: Start:	End:	Duration:	min / hour
~~Canister~~ Volume: Initial: inHg		Final: inHg	

Laboratory: Air Toxics

Analyzed For: See COC

Pre Purge	Post Purge
Oxy. % — 20.9	Oxy. % — 20.9
LEL % — 0.0	LEL % — 0.0
CO — 0.0	CO — 0.0
H_2S — 0.0	H_2S — 0.0
VOC — 0.0	VOC — 0.0

Sampler's Signature:

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021SM-1	Client: Parsons
Sampler: BD	Site: Titan A-1
ID: SV-17B	Sampling Date: 10/23/24
Ambient Temp (°F): 77	Ambient Barometric Pressure (inHg): 30.08
Monitoring Equipment: ☒ Multi Rae (PID)	☒ MGD 2002 (Helium Detector)
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: ☒ PASS ☐ FAIL Start inHg: -15 End inHg: -15
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4477 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 28.7 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: TIAMF-SV017B_OCT24		Sampling Date: 10/23/24	
Vacuum Shut In Test: ☒ PASS ☐ FAIL		Start inHg: -28.5	End inHg: -28.5
Canister Serial/ID #: L1635	Critical Orifice Assembly (COA) #: 25539		Flow Rate: 200 ml/min
Sample Time: Start: 1400	End: 1405	Duration: 5	~~min~~ / hour
Canister Volume: Initial: -28.5 inHg		Final: -5 inHg	

Duplicate Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: ☐ PASS ☐ FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	Critical Orifice Assembly (COA) #:		Flow Rate: ml/min
Sample Time: Start:	End:	Duration:	min / hour
Canister Volume: Initial: inHg		Final: inHg	

Laboratory:	Air Toxics
Analyzed For:	See COC

Pre Purge
OXY% - 20.9
LEL% - 0.0
CO PPM - 0.0
H_2S PPM - 0.0
VOC PPM - 0.0

Post Purge
OXY% - 20.9
LEL% - 0.0
CO PPM - 0.0
H_2S PPM - 0.0
VOC PPM - 0.0

Sampler's Signature:

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021SM-1	Client: Parsons
Sampler: SP	Site: Titan A-1
ID: SV-18	Sampling Date: 10/29/24
Ambient Temp (°F): 60	Ambient Barometric Pressure (inHg): 30.01
Monitoring Equipment: [X] Multi Rae (PID)	[X] MGD 2002 (Helium Detector)
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -13.5 End inHg: -13.5
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4400 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 21.2 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: T1AMF-SV018_OCT24		Sampling Date: 10/29/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: -28	End inHg: -28
Canister Serial/ID #: 2L960	Critical Orifice Assembly (COA) #: 25506		Flow Rate: 200 ml/min
Sample Time: Start: 1250	End: 1255	Duration: 5	min / hour
Canister Volume: Initial: -28 inHg		Final: -5 inHg	

~~Duplicate~~ Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: [ ] PASS [ ] FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	Critical ~~Orifice Assembly (COA)~~ #:		Flow Rate: ml/min
Sample Time: ~~Start:~~	End:	Duration:	min / hour
~~Canister~~ Volume: Initial: inHg		Final:	inHg

Laboratory: Air Toxics
Analyzed For: See COC

Sampler's Signature:

Pre Purge	Post Purge
OXY - 1. - 20.9	OXY - 1. - 20.9
LEL - 1. - 0.0	LEL - 1. - 0.0
CO - 0.0	CO - 0.0
H_2S - 0.0	H_2S - 0.0
VOC - 0.0	VOC - 0.0

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021SM-1	Client: Parsons
Sampler: JP	Site: Titan A-1
ID: SV-19	Sampling Date: 10/28/24
Ambient Temp (°F): 48	Ambient Barometric Pressure (inHg): 30.02
Monitoring Equipment: [X] Multi Rae (PID)	[X] MGD 2002 (Helium Detector)
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -14.5 End inHg: -14.5
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4550 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 25.3 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: T1AMF-SV019_OCT24		Sampling Date: 10/28/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: -29	End inHg: -29
Canister Serial/ID #: 1L207	Critical Orifice Assembly (COA) #: 2468		Flow Rate: 200 ml/min
Sample Time: Start: 0824	End: 0830	Duration: 6	(min) / hour
Canister Volume: Initial: -29 inHg		Final: -5	inHg

~~Duplicate~~ Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: [ ] PASS [ ] FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	~~Critical Orifice Assembly~~ (COA) #:		Flow Rate: ml/min
Sample Time: ~~Start:~~	End:	~~Duration:~~	min / hour
~~**Canister Volume:**~~ Initial: inHg		Final:	inHg

Laboratory: Air Toxics

Analyzed For: See COC

Sampler's Signature:

Pre Purge	Post Purge
oxy.% - 20.9	oxy.% - 20.9
LEL.% - 0.0	LEL.% - 0.0
CO ppm - 0.0	CO ppm - 0.0
H_2S ppm - 0.0	H_2S - 0.0
VOC ppm - 0.0	VOC 0.0

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021SM-1	Client: Parsons
Sampler: JP	Site: Titan A-1
ID: SV-20	Sampling Date: 10/25/24
Ambient Temp (°F): 69	Ambient Barometric Pressure (inHg): 29.98
Monitoring Equipment: [X] Multi Rae (PID)	[X] MGD 2002 (Helium Detector)
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -12 End inHg: -12
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4550 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 22.5 %
5. Post Purge leak check using Helium Detector: _____ %

1L3087 30521

Sample I.D.: T1AMF-SV020_OCT24		Sampling Date: 10/25/24	
Vacuum Shut In Test: 60 [X] PASS [ ] FAIL	Start inHg: -27	End inHg: -27	
Canister Serial/ID #: 1L3087	Critical Orifice Assembly (COA) #: 30521 / 60	Flow Rate: 200	ml/min
Sample Time: Start: 1240	End: 1250	Duration: 10	(min) / hour
Canister Volume: Initial: -27 inHg		Final: -5	inHg

Duplicate Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: [ ] PASS [ ] FAIL	Start inHg:	End inHg:	
Canister Serial/ID #:	Critical Orifice Assembly (COA) #:	Flow Rate:	ml/min
Sample Time: Start:	End:	Duration:	min / hour
Canister Volume: Initial:	inHg	Final:	inHg

Laboratory: Air Toxics	
Analyzed For: See COC	

Pre Purge	Post Purge
Oxy. % - 20.9	Oxy. % - 20.9
LEL % - 0.0	LEL % - 0
CO - 0.0	CO - 7
H_2S - 0.0	H_2S - 0
VOC - 0.0	VOC - 0.1

Sampler's Signature: _____

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021 SM-1	Client: Parsons
Sampler: JP	Site: Triton A-1
ID: SV-21	Sampling Date: 10/25/24
Ambient Temp (°F): 51	Ambient Barometric Pressure (inHg): 29.97
Monitoring Equipment: [X] Multi Rae (PID)	[X] MGD 2002 (Helium Detector)
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -17 End inHg: -17
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4400 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 32.8 %
5. Post Purge leak check using Helium Detector: 0.0 %

Tried using two different canisters, too much back pressure, never dropped.

1L2636 25588

Sample I.D.: T1AMF-SV021-OCT24		Sampling Date: 10/25/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: -28.5	End inHg: -28.5
Canister Serial/ID #: 1L2636	Critical Orifice Assembly (COA) #: 25588		Flow Rate: 200 ml/min
Sample Time: Start: 0938	End: 0948	Duration: 20	min / hour
Canister Volume: Initial: -28.5 inHg		Final: -28.5 inHg	

~~Duplicate~~ Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: [ ] PASS [ ] FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	Critical ~~Orifice~~ Assembly (COA) #:		Flow Rate: ml/min
Sample Time: Start:	End:	Duration:	min / hour
Canister Volume: Initial: inHg		Final: inHg	

Laboratory: Air Toxics	
Analyzed For: See COC	

Sampler's Signature:

Pre Purge	Post Purge
Oxy %. – 20.9	Oxy %. – 20.9
LEL %. – 0.0	LEL %. – 0.0
CO ppm – 0.0	CO ppm – 0.0
H2S ppm – 0.0	H2S ppm – 0.0
VOC ppm – 0.0	VOC ppm – 0.0

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021 SM-1	Client: Parsons
Sampler: JP	Site: Titan A-1
ID: SV-22	Sampling Date: 10/25/24
Ambient Temp (°F): 72	Ambient Barometric Pressure (inHg): 29.98
Monitoring Equipment: [X] Multi Rae (PID)	[X] MGD 2002 (Helium Detector)
PID Reading (ppm): 0.2	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -13 End inHg: -13
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4550 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 228 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: TA AMF - SV022 - OCT 24		Sampling Date: 10/25/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: -28	End inHg: -28
Canister Serial/ID #: 113909	Critical Orifice Assembly (COA) #: 25035	Flow Rate: 200	ml/min
Sample Time: Start: 1341	End: 1348	Duration: 7	(min) / hour
Canister Volume: Initial: -28 inHg		Final: -5	inHg

~~Duplicate~~ Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: [ ] PASS [ ] FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	Critical ~~Orifice~~ Assembly (~~COA~~) #:	Flow Rate:	ml/min
Sample Time: Start:	End:	Duration:	min / hour
~~Canister~~ Volume: Initial:	inHg	Final:	inHg

Laboratory: Air Toxics
Analyzed For: See COC

Sampler's Signature:

Pre Purge
ORY %. - 20.9
LEL %. - 0.0
CO - 0.0
H_2S - 0.0
VOC - 0.2

Post Purge
ORY %. - 20.9
LEL %. - 0.0
CO - 21 ppm
H_2S - 0.0
VOC - 0.1

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021 SM-1	Client: Parsons
Sampler: JP	Site: Titan A-1
ID: SV-23	Sampling Date: 10/25/24
Ambient Temp (°F): 49	Ambient Barometric Pressure (inHg): 29.95
Monitoring Equipment: [X] Multi Rae (PID)	[X] MGD 2002 (Helium Detector)
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -14.5 End inHg: -14.5
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4400 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 22.4 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: TLAMF-SV023_OCT24		Sampling Date: 10/25/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: -27	End inHg: -27
Canister Serial/ID #: 1L4686	Critical Orifice Assembly (COA) #: 22514		Flow Rate: 200 ml/min
Sample Time: Start: 0806	End: 0811	Duration: 5	min / hour
Canister Volume: Initial: -27 inHg		Final: -5	inHg

Duplicate Sample I.D.: TLAMF-SV023_OCT24-FD		Sampling Date: 10/25/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: -27	End inHg: -27
Canister Serial/ID #: 1L2495	Critical Orifice Assembly (COA) #: 22622		Flow Rate: 200 ml/min
Sample Time: Start: 0806	End: 0811	Duration: 5	min / hour
Canister Volume: Initial: -27 inHg		Final: -5	inHg

Laboratory:	Air Toxics
Analyzed For:	See COC

Sampler's Signature:

Pre Purge	Post Purge
Oxy. % - 20.9	Oxy. % - 20.9
LEL % - 0.0	LEL % - 0.0
CO ppm - 0.0	CO ppm - 0.0
Hyd ppm - 0.0	Hyd ppm - 0.0
VOC - 0.0	VOC - 0.0

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021SM-1	Client: Parsons
Sampler: BD, JP	Site: Titan A-1
ID: SV-24	Sampling Date: 10/24/24
Ambient Temp (°F): 59	Ambient Barometric Pressure (inHg): 30.03
Monitoring Equipment: ☒ Multi Rae (PID)	☒ MGD 2002 (Helium Detector)
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: ☒ PASS ☐ FAIL Start inHg: -26 End inHg: -26
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 5809 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 21.1 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: TIAMF-SV024_OCT24		Sampling Date: 10/24/24	
Vacuum Shut In Test: ☒ PASS ☐ FAIL		Start inHg: -26.5	End inHg: -26.5
Canister Serial/ID #: IL4577	Critical Orifice Assembly (COA) #: 22380		Flow Rate: 200 ml/min
Sample Time: Start: 1109	End: 1115	Duration: 6	(min) / hour
Canister Volume: Initial: -26.5 inHg		Final: -5 inHg	

~~Duplicate Sample I.D.:~~		~~Sampling Date:~~	
~~Vacuum Shut In Test:~~ ☐ PASS ☐ FAIL		~~Start inHg:~~ _____	~~End inHg:~~ _____
~~Canister Serial/ID #:~~	~~Critical Orifice Assembly (COA) #:~~		~~Flow Rate:~~ _____ ml/min
~~**Sample Time:** Start:~~	~~End:~~	~~Duration:~~ _____	~~min / hour~~
~~**Canister Volume:** Initial:~~ _____ inHg		~~Final:~~ _____ inHg	

Laboratory: AirToxics

Analyzed For: See COC

Pre Purge
OXY% - 20.9
LEL% - 0.0
CO PPM - 0.0
H_2S PPM - 0.0
VOC PPM - 0.0

Post Purge
OXY% - 20.9
LEL% - 0.0
CO PPM - 0.0
H_2S PPM - 0.0
VOC PPM - 1.2

Sampler's Signature: _____

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021 SM-1	Client: Parsons
Sampler: JP	Site: Titan A-1
ID: SV-25	Sampling Date: 10/25/24
Ambient Temp (°F): 74	Ambient Barometric Pressure (inHg): 29.97
Monitoring Equipment: ☒ Multi Rae (PID)	☒ MGD 2002 (Helium Detector)
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: ☒ PASS ☐ FAIL Start inHg: -15 End inHg: -15
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4550 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 20.1 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: T1AMF-SV025-OCT24			Sampling Date: 10/25/24	
Vacuum Shut In Test: ☒ PASS ☐ FAIL		Start inHg: -28	End inHg: -28	
Canister Serial/ID #: 1L2348	Critical Orifice Assembly (COA) #: 25509		Flow Rate: 200	ml/min
Sample Time: Start: 1432	End: 1439	Duration: 7	~~min~~ / hour	
Canister Volume: Initial: -28 inHg		Final: -5 inHg		

~~Duplicate~~ Sample I.D.:			Sampling Date:	
Vacuum Shut In Test: ☐ PASS ☐ FAIL		~~Start inHg:~~	End inHg:	
Canister Serial/ID #:	~~Critical Orifice Assembly (COA) #:~~		Flow Rate:	ml/min
Sample Time: ~~Start:~~	End:	Duration:	min / hour	
Canister Volume: Initial: inHg		Final: inHg		

Laboratory: Air Toxics	
Analyzed For: See COC	

Sampler's Signature:

Pre Purge
OXY % - 20.9
LEL % - 0.0
CO ppm - 0.0
H2S ppm - 0.0
VOC - 0.0

Post Purge
OXY % - 20.9
LEL % - 0.0
CO ppm - 0.0
H2S ppm - 0.0
VOC - 0.0

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021SM-1	Client: Parsons
Sampler: BD, JP	Site: Titan A-1
ID: ~~T1AMF-SV026_OCT24~~ BD	Sampling Date: 10/24/24
Ambient Temp (°F): 71	Ambient Barometric Pressure (inHg): 29.99
Monitoring Equipment: [X] Multi Rae (PID)	[X] MGD 2002 (Helium Detector)
PID Reading (ppm): 0.1	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -17 End inHg: -17
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4492 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 26.3 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: T1AMF-SV026_OCT24		Sampling Date: 10/24/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: -27	End inHg: -27
Canister Serial/ID #: 12806	Critical Orifice Assembly (COA) #: 25409		Flow Rate: 200 ml/min
Sample Time: Start: 1336	End: 1341	Duration: 5	~~min~~ / hour
Canister Volume: Initial: -27 inHg		Final: -5 inHg	

Duplicate Sample I.D.: T1AMF-SV026_OCT24-FD		Sampling Date: 10/24/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: -27	End inHg: -27
Canister Serial/ID #: 12080	Critical Orifice Assembly (COA) #: 24620		Flow Rate: 200 ml/min
Sample Time: Start: 1336	End: 1341	Duration: 5	min / hour
Canister Volume: Initial: -27 inHg		Final: -5 inHg	

Laboratory: AirToxics

Analyzed For: See COC

Sampler's Signature:

Pre Purge	Post Purge
Oxy.% - 20.9	Oxy.% - 20.9
LEL.% - 0.0	LEL.% - 0.0
CO ppm - 0.0	CO ppm - 0.0
H_2S ppm - 0.0	H_2S ppm - 0.0
VOC ppm - 0.1	VOC ppm - 0.2

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021sm-1	Client: Parsons
Sampler: BD	Site: Titan A-1
ID: ~~TIAMF-BD-SV027~~ SV-27	Sampling Date: 10/23/24
Ambient Temp (°F): 67	Ambient Barometric Pressure (inHg): 30.11
Monitoring Equipment: ☒ Multi Rae (PID)	☒ MGD 2002 (Helium Detector)
PID Reading (ppm): 0.1	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: ☒ PASS ☐ FAIL Start inHg: -15 End inHg: -15
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4615 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 23.3 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: TIAMF-SV027_OCT24		Sampling Date: 10/23/24	
Vacuum Shut In Test: ☒ PASS ☐ FAIL		Start inHg: -28	End inHg: -28
Canister Serial/ID #: 12239	Critical Orifice Assembly (COA) #: 25488		Flow Rate: 200 ml/min
Sample Time: Start: 1145	End: 1150	Duration: 5 (min) / hour	
Canister Volume: Initial: -28 inHg		Final: -5 inHg	

~~Duplicate Sample I.D.:~~		Sampling Date:	
Vacuum Shut In Test: ☐ PASS ☐ FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	~~Critical Orifice Assembly (COA) #:~~		Flow Rate: ml/min
Sample Time: ~~Start:~~	End:	~~Duration:~~	min / hour
~~Canister Volume:~~ Initial:	inHg	Final:	inHg

Laboratory: Air Toxics	
Analyzed For: See COC	

Pre Purge
OXY % - 20.9
LEL % - 0.0
CO PPM - 0.0
H_2S PPM - 0.0
VOC PPM - 0.1

Post Purge
OXY % - 20.9
LEL % - 4.0
CO PPM - 0.0
H_2S PPM - 0.0
VOC PPM - 0.2

Sampler's Signature: [signature]

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021SM-1	Client: Parsons
Sampler: BD	Site: Titan A-1
ID: ~~TIAMF-SV028~~ SV-28	Sampling Date: 10/23/24
Ambient Temp (°F): 66	Ambient Barometric Pressure (inHg): 30.11
Monitoring Equipment: ☒ Multi Rae (PID)	☒ MGD 2002 (Helium Detector)
PID Reading (ppm): 1.4	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: ☒ PASS ☐ FAIL Start inHg: -19 End inHg: -19
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4615 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 29.7 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: TIAMF-SV028 OCT 24		Sampling Date: 10/23/24	
Vacuum Shut In Test: ☒ PASS ☐ FAIL		Start inHg: -26.5	End inHg: -26.5
Canister Serial/ID #: L4099	Critical Orifice Assembly (COA) #: 22359	Flow Rate: 200	ml/min
Sample Time: Start: 1044	End: 1049	Duration: 5	min / hour
Canister Volume: Initial: -26.5 inHg		Final: -5	inHg

Duplicate Sample I.D.: TIAMF-SV028_OCT24_FD		Sampling Date: 10/23/24	
Vacuum Shut In Test: ☒ PASS ☐ FAIL		Start inHg: -26.5	End inHg: -26.5
Canister Serial/ID #: L3975	Critical Orifice Assembly (COA) #: 22580	Flow Rate: 200	ml/min
Sample Time: Start: 1044	End: 1049	Duration: 5	min / hour
Canister Volume: Initial: -26.5 inHg		Final: -5	inHg

Laboratory:	Air Toxics
Analyzed For:	See COC

Pre Purge
Oxy% - 20.9%
LEL% - 71%
CO PPM - 0.0
H2S PPM - 0.0
VOC PPM - 1.4

Post Purge
Oxy% - 20.9%
LEL% - 73%
CO PPM - 0.0
H2S PPM - 0.0
VOC PPM - 0.5

Sampler's Signature: [signature]

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021SM-1	Client: Parsons
Sampler: JP	Site: Titan A-1
ID: SV-29	Sampling Date: 10/28/24
Ambient Temp (°F): 66	Ambient Barometric Pressure (inHg): 29.95
Monitoring Equipment: ☒ Multi Rae (PID)	☒ MGD 2002 (Helium Detector)
PID Reading (ppm): 0.5	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: ☒ PASS ☐ FAIL Start inHg: -13.5 End inHg: -13.5
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 457 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 24.5 %
5. Post Purge leak check using Helium Detector: 0.0 %

A lot of back pressure, did not drop below -20.

Sample I.D.: T1AMF-SV029_OCT24		Sampling Date: 10/28/24	
Vacuum Shut In Test: ☒ PASS ☐ FAIL		Start inHg: -29	End inHg: -29
Canister Serial/ID #: 12055	Critical Orifice Assembly (COA) #: 21483		Flow Rate: 200 ml/min
Sample Time: Start: 1445 (DP)	End: 1459	Duration: 14	min / hour
Canister Volume: Initial: -29 inHg		Final: -20 inHg	

~~Duplicate~~ Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: ☐ PASS ☐ FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	Critical Orifice Assembly (COA) #:		Flow Rate: ml/min
Sample Time: Start:	End:	Duration:	min / hour
Canister Volume: Initial: inHg		Final: inHg	

Laboratory: Artaig	
Analyzed For: See COC	

Sampler's Signature:

Pre Purge	Post Purge
Oxy. % - 20.9	Oxy. % - 20.9
LEL % - 0.0	LEL % - 0.0
CO - 0.0	CO - 0.0
H_2S - 0.0	H_2S - 0.0
VOC - 0.5	VOC - 0.0

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 2410215M-1	Client: Parsons
Sampler: JP	Site: Titan A-1
ID: SV-30	Sampling Date: 10/28/24
Ambient Temp (°F): 65	Ambient Barometric Pressure (inHg): 29.98
Monitoring Equipment: [X] Multi Rae (PID)	[X] MGD 2002 (Helium Detector)
PID Reading (ppm): 1.3	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -5.5 End inHg: -5.5
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4564 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 21.7 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: T1AMF-SV030-OCT24		Sampling Date: 10/28/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: -29	End inHg: -29
Canister Serial/ID #: 2L1983	Critical Orifice Assembly (COA) #: 30716		Flow Rate: 200 ml/min
Sample Time: Start: 1335	End: 1341	Duration: 6	(min) / hour
Canister Volume: Initial: -29 inHg		Final: -5 inHg	

~~Duplicate~~ Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: [ ] PASS [ ] FAIL		Start inHg:	~~End inHg:~~
Canister Serial/ID #:	~~Critical Orifice Assembly (COA) #:~~		Flow Rate: ml/min
~~Sample Time:~~ Start:	End:	Duration: min	/ hour
~~Canister Volume:~~ Initial: inHg		Final: inHg	

Laboratory: Air Toxics
Analyzed For: See COC

Sampler's Signature:

Pre Purge
Oxy. % - 20.9
LEL % - 12
CO - 0.0
H_2S - 0.0
VR ~ 1.3

Post Purge
Oxy. % - 20.9
LEL % - 8.5
CO - 0.0
H_2S - 0.0
VR ~ 1.3

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 24 10215m-1	Client: Parsons
Sampler: BD	Site: Titan A-1
ID: SV-31	Sampling Date: 10/23/04
Ambient Temp (°F): 79	Ambient Barometric Pressure (inHg): 30.06
Monitoring Equipment: ☒ Multi Rae (PID)	☒ MGD 2002 (Helium Detector)
PID Reading (ppm): 0.0	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: ☒ PASS ☐ FAIL Start inHg: -12 End inHg: -12
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4593 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 36.7 %
5. Post Purge leak check using Helium Detector: 0.0 %

(droplets) water in line at -9 inHg & sampling was stopped before water reached COA

Sample I.D.: T1AMF-SV031_OCT24		Sampling Date: 10/31/04	
Vacuum Shut In Test: ☒ PASS ☐ FAIL		Start inHg: -28	End inHg: -28
Canister Serial/ID #: 1L4756	Critical Orifice Assembly (COA) #: 25282		Flow Rate: 200 ml/min
Sample Time: Start: 1500	End: 1523	Duration: 23 (min) / hour	
Canister Volume: Initial: -28 inHg		Final: -9 inHg	

Duplicate Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: ☐ PASS ☐ FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	Critical Orifice Assembly (COA) #:		Flow Rate: ml/min
Sample Time: Start:	End:	Duration: min / hour	
Canister Volume: Initial: inHg		Final: inHg	

Laboratory: Air Toxics	
Analyzed For: See COC	

Pre Purge
OXY% - 20.9
LEL% - 0.0
CO PPM - 0.0
H_2S PPM - 0.0
VOC PPM - 0.0

Post Purge
OXY% - 20.9
LEL% - 0.0
CO PPM - 0.0
H_2S PPM - 0.0
VOC PPM - 0.0

Sampler's Signature:

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 24 10 215M-1	Client: Parsons
Sampler: BD	Site: Titan A-1
ID: SV-35a	Sampling Date: 10/24/24
Ambient Temp (°F): 48	Ambient Barometric Pressure (inHg): 30.03
Monitoring Equipment: ☒ Multi Rae (PID)	☒ MGD 2002 (Helium Detector)
PID Reading (ppm): 0.2	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: ☒ PASS ☐ FAIL Start inHg: -14.5 End inHg: -14.5
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4608 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 29.7 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: TIAMF-SV035a_OCT24		Sampling Date: 10/24/24	
Vacuum Shut In Test: ☒ PASS ☐ FAIL		Start inHg: -27	End inHg: -27
Canister Serial/ID #: 12241	Critical Orifice Assembly (COA) #: 24633		Flow Rate: 200 ml/min
Sample Time: Start: 0845	End: ~~0900~~ 0852	Duration: 7	(min) / hour
Canister Volume: Initial: -27 inHg		Final: -5 inHg	

~~Duplicate~~ Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: ☐ PASS ☐ FAIL		Start inHg:	~~End inHg:~~
Canister Serial/ID #:	Critical ~~Orifice Assembly (COA)~~ #:		Flow Rate: ml/min
Sample Time: Start:	End:	Duration: min	/ hour
Canister Volume: Initial: inHg		Final: inHg	

Laboratory: Air Toxics

Analyzed For: See COC

Pre Purge
O2% - 20.9
LEL% - 0.0
CO PPM - 0.0
H2S PPM - 0.0
VOC PPM 0.2

Post Purge
O2% - 20.9
LEL% - 0.0
CO PPM - 0.0
H2S PPM - 0.0
VOC PPM - 0.3

Sampler's Signature:

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021sm-1	Client: Parsons
Sampler: BD	Site: Titan A-1
ID: SV-326	Sampling Date: 10/24/24
Ambient Temp (°F): 53	Ambient Barometric Pressure (inHg): 30.03
Monitoring Equipment: ☒ Multi Rae (PID)	☒ MGD 2002 (Helium Detector)
PID Reading (ppm): 0.1	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: ☒ PASS ☐ FAIL Start inHg: -12.5 End inHg: -12.5
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4535 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 27.8 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: T1AMF-SV0326_OCT24		Sampling Date: 10/24/24	
Vacuum Shut In Test: ☒ PASS ☐ FAIL		Start inHg: -29.5	End inHg: -29.5
Canister Serial/ID #: 12377	Critical Orifice Assembly (COA) #: 24616		Flow Rate: 200 ml/min
Sample Time: Start: 0950	End: 0956	Duration: 6 (min) / hour	
Canister Volume: Initial: -29.5 inHg		Final: -5 inHg	

Duplicate Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: ☐ PASS ☐ FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	Critical Orifice Assembly (COA) #:		Flow Rate: ml/min
Sample Time: Start:	End:	Duration: min / hour	
Canister Volume: Initial: inHg		Final: inHg	

Laboratory: Air Toxics

Analyzed For: See COC

Pre Purge
O2% - 20.9
LEL% - 0.0
CO PPM - 0.0
H2S PPM - 0.0
VOC PPM - 0.1

Post Purge
O2% - 20.9
LEL% - 0.0
CO PPM - 0.0
H2S PPM - 0.0
VOC PPM - 0.1

Sampler's Signature:

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021SM-1	Client: Parsons
Sampler: BD, JP	Site: Titan A-1
ID: ~~T1AMF~~-SV033_OCT24	Sampling Date: 10/24/24
Ambient Temp (°F): 77	Ambient Barometric Pressure (inHg): 29.93
Monitoring Equipment: [X] Multi Rae (PID)	[X] MGD 2002 (Helium Detector)
PID Reading (ppm): 0.2	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -14 End inHg: -14
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4400 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 24.1 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: T1AMF-SV033_OCT24		Sampling Date: 10/24/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: -29	End inHg: -29
Canister Serial/ID #: 1L1724	Critical Orifice Assembly (COA) #: 25349	Flow Rate: 200	ml/min
Sample Time: Start: 1538	End: 1556	Duration: 18	~~min~~ / hour
Canister Volume: Initial: -29 inHg		Final: -5 inHg	

~~Duplicate~~ Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: [ ] PASS [ ] FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	Critical Orifice Assembly ~~(COA)~~ #:	Flow Rate:	ml/min
Sample Time: Start:	End:	Duration:	min / hour
Canister Volume: Initial:	inHg	Final:	inHg

Laboratory: Air Toxics	
Analyzed For: See COC	

Sampler's Signature:

Pre Purge	Post Purge
Oxy.% - 20.9	Oxy.% - 20.9
LEL.% - 0.0	LEL.% - 0.0
CO ppm - 0.0	CO ppm - 0.0
H_2S ppm - 0.0	H_2S ppm - 0.0
VOC ppm - 0.2	VOC ppm - 0.1

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021 SM-1	Client: Parsons
Sampler: JP	Site: Titan A-1
ID: SV-34	Sampling Date: 10/25/24
Ambient Temp (°F): 65	Ambient Barometric Pressure (inHg): 29.98
Monitoring Equipment: [X] Multi Rae (PID) [X] MGD 2002 (Helium Detector)	
PID Reading (ppm): 0.4	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -17 End inHg: -17
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4615 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 21.3 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: T1AMF-SV034-OCT24		Sampling Date: 10/25/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: ~~-30~~	End inHg: ~~-30~~
Canister Serial/ID #: 1L4206	Critical Orifice Assembly (COA) #: 25523		Flow Rate: 200 ml/min
Sample Time: Start: 1134	End: 1145	Duration: 11	min / hour
Canister Volume: Initial: -30 inHg		Final: -5	inHg

~~Duplicate~~ Sample I.D.:		Sampling Date:	
Vacuum Shut In Test: [ ] PASS [ ] FAIL		Start inHg:	End inHg:
Canister Serial/ID #:	Critical Orifice Assembly (COA) #:		Flow Rate: ml/min
Sample Time: Start:	End:	~~Duration:~~	min / hour
~~**Canister Volume:**~~ Initial: inHg		Final:	inHg

Laboratory: 4N Tonics
Analyzed For: See COC

Sampler's Signature:

Pre Purge	Post Purge
oxy. % - 20.9	oxy. % - 20.9
LEL % - 0.0	LEL % - 0.0
CO - 0.0	CO - 0.0
H_2S - 0.0	H_2S - 0.0
VOC - 0.4	VOC - 0.0

SOIL VAPOR AND AIR MONITORING DATA SHEET

Project #: 241021SM-1	Client: Parsons
Sampler: BD, JP	Site: Titan A-1
ID: ~~T1AMF~~ SV035 ~~-OCT24~~ BD	Sampling Date: 10/24/24
Ambient Temp (°F): 73	Ambient Barometric Pressure (inHg): 29.95
Monitoring Equipment: [X] Multi Rae (PID) [X] MGD 2002 (Helium Detector)	
PID Reading (ppm): 0.6	

SAMPLE PURGE INFORMATION

1. Vacuum Shut In Test: [X] PASS [ ] FAIL Start inHg: -9 End inHg: -9
2. Purged 3 volumes prior to sample collection. **Total Volume Purged:** 4615 ml
3. Leak Testing Compound: Helium
4. Helium Gas Concentration in Shroud: 22.5 %
5. Post Purge leak check using Helium Detector: 0.0 %

Sample I.D.: T1AMF-SV035-OCT24		Sampling Date: 10/24/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: ~~-9~~ -27	End inHg: ~~-9~~ -27
Canister Serial/ID #: 2L4246	Critical Orifice Assembly (COA) #: 25045		Flow Rate: 200 ml/min
Sample Time: Start: 1454	End: 1459	Duration: 5 min / hour	
Canister Volume: Initial: -27 inHg		Final: -5 inHg	

Duplicate Sample I.D.: T1AMF-SV035-OCT24-FD		Sampling Date: 10/24/24	
Vacuum Shut In Test: [X] PASS [ ] FAIL		Start inHg: ~~-9~~ -27	End inHg: ~~-9~~ -27
Canister Serial/ID #: 2L2042	Critical Orifice Assembly (COA) #: 25359		Flow Rate: 200 ml/min
Sample Time: Start: 1454	End: 1500	Duration: 6 min / hour	
Canister Volume: Initial: -27 inHg		Final: -5 inHg	

Laboratory: AirToxics
Analyzed For: See COC

Sampler's Signature: _____

Pre Purge	Post Purge
Oxy. l. - 20.9	Oxy. l. - 20.9
LEL l. - 0.0	LEL l. - 0.0
CO ppm - 0.0	CO ppm - 0.0
H_2S ppm - 0.0	H_2S - 0.0
VOC ppm - 0.0	VOC ppm - 0.3

Appendix B – Field Notes

PARSONS

DAILY PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Contract NO	Title and Location	Date
W91238-21-D-0008	**Former Titan 1-A Missile Facility, Lincoln, California**	10/21/2024

Contractor	Superintendent
Parsons	Justin Steere

AM Weather	PM Weather	MAX TEMP (F)	MIN TEMP (F)
Sunny	Sunny	79	52

Description of tasks	EMPLOYER
Work Performed Today	
Collected groundwater levels (ND wells from last event gauged and sampled first) and total depth measurements at MWs (36 total)*	Blaine Tech
Monitoring wells sampled: MW-53 and MW-66 – samples will be shipped Tuesday (10/22/24)	
Soil Vapor Probes Sampled:SV-15B**	
*MW-17 and MW-35 likely buried or destroyed (active construction/trenching in area/unable to locate; see photo 3)	
**USACE noted helium shroud was not placed over soil vapor probe (shroud placed on ground over sampling apparatus due to	
standpipe monument) – discussed solutions with Blaine Tech (Ben Dieffenbacher/David Webb) and USACE rep (Kyle Bayliff).	
Blaine Tech scheduled to resume SV sampling with corrected helium shroud on Wednesday (10/23/24).	
Work Planned for Tomorrow	
Continue groundwater sampling (Blaine Tech sending out 2 technicians to sample GW)	

Staff Onsite

EMPLOYER	NAME	Time Onsite	Time Offsite	Time Onsite	Time Offsite
Parsons	Justin Steere	0800	1630		
USACE	Kyle Bayliff	0800	1200	1300	1545
Blaine Tech	Jack Patton	0800	1130	1330	1630
Blaine Tech	Ben Dieffenbacher	0800	1130		
Blaine Tech	Sean Moore	0800	1630		

Visitors

AFFILIATION	NAME	Time Onsite	Time Offsite	Notes:

JOB SAFETY	WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☒ YES	☐ NO
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO

Responsible Party	Stop Work/Safety Inspections Conducted	☒ Safety Requirements Met
Parsons	Busy construction - Use excess caution in construction area/walk in when possible, to minimize impact	

Equipment and/or Material Received or Leaving Jobsite Today

Responsible Party	Quantity	Definable Feature of Work and Description of Equipment Received
Blaine Tech	2	Sampling trucks (1 full day, 1 half day)
Blaine Tech	1	Pickup

IDW Generated/Removed

Responsible Party	Quantity	Description of IDW
USACE	5 gal	Decon/purge water (groundwater sampling)

PARSONS

DAILY PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Contract NO	Title and Location	Date
W91238-21-D-0008	**Former Titan 1-A Missile Facility, Lincoln, California**	10/21/2024

Contractor	Superintendent
Parsons	Justin Steere

Samples Shipped Today

Sample ID	Media	Destination	COC

Well Installation/Development Dates/ Soil Vapor Probe Installation Dates

ID	Drilled	Installed	Developed	Well box installed



10/21/2024

PARSONS PROJECT MANAGER — DATE

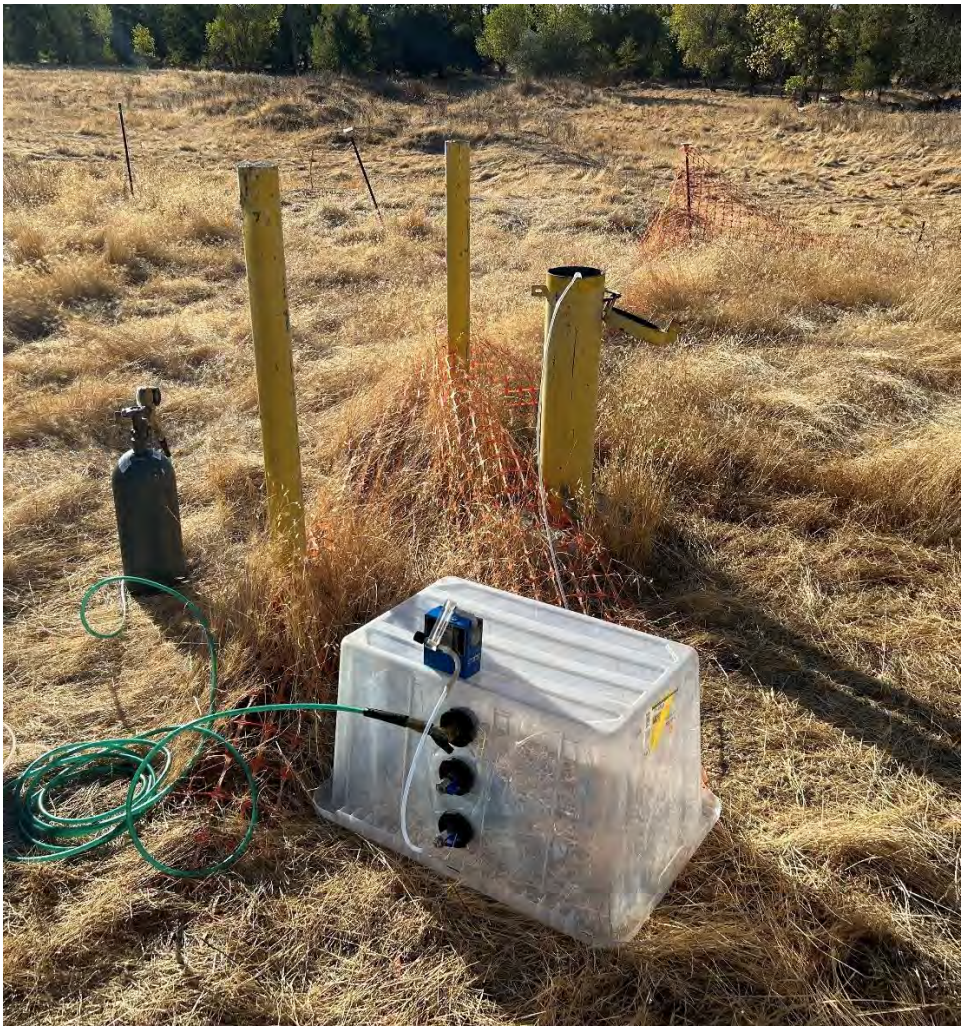


Photo 1: Soil Vapor Sampling (N)



Photo 2: Groundwater level measurement



Photo 3: View from MW-11 facing south (unable to locate MW-17 and MW-35 due to construction in vicinity)

DAILY SAFETY TAILGATE

Safety Meeting Presenter: Justin Gassaway-Steele Date: 10/21/24 Time: 0800
Site Safety Officer: Justin Gassaway-Steele

Current Weather Conditions (AM/PM):
Temperature (°F) = 52 / 79 Wind Direction = SE / S Wind Speed = 5 / 13
(Clear) – Sunny – Cloudy – Rain – Snow Forecast = Sunny

Current Site Conditions (circle as appropriate):
(Dry) - Wet - Muddy - Frozen - Snow Covered - Other (describe) _____

1. Safe and/or At-Risk Observations: Heavy equipment operating in portion of worksite / use caution and minimize ingress/egress from construction zone, tall grass - keep vehicles on path and use caution walking through, slips, trips, falls Pinch points on sampling rig.
2. Activities Taking Place Today: Soil vapor probe sampling and ground water monitoring and sampling

3. Anticipated Hazards: Contact with contaminated media (soil, vapor, groundwater), heat (drink water, shade breaks as necessary). Uneven terrain - use caution/ankle high boots

4. Engineering Controls-Work Practices-PPE to Protect Against Hazards: Wear modified level D PPE (hard hat in construction area or where overhead hazards are present), long pants, steel toe boots, hi-vis safety vest, eye protection, nitrile gloves or work gloves (unless sampling), Monitor breathing zone while sampling
5. Additional Safety Topic or Comments: Stop work authority, route to hospital

PRINTED NAME	SIGNATURE	COMPANY
Justin Gassaway-Steele		Parsons
Kyle Bayliff	Kyle Bayliff	USACE
Jack Patton		Blaine Tech Services
Ben Dieffenbacher		BTS
SEAN MOORE		BTS

DAILY PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Contract NO	Title and Location	Date
W91238-21-D-0008	**Former Titan 1-A Missile Facility, Lincoln, California**	10/22/2024

Contractor	Superintendent
Parsons	Justin Steere

AM Weather	PM Weather	MAX TEMP (F)	MIN TEMP (F)
Cloudy	Mostly Sunny	79	51

Description of tasks	EMPLOYER
Work Performed Today	
Monitoring wells sampled: MW-62, MW-61, MW-30, MW-57, MW-48, MW-60, MW-59	Blaine Tech
Work Planned for Tomorrow	
Continue groundwater sampling and resume soil vapor sampling.	

Staff Onsite

EMPLOYER	NAME	Time Onsite	Time Offsite	Time Onsite	Time Offsite
Parsons	Justin Steere	0700	1640		
Blaine Tech	Jose Lopez	0700	0800	0930	1640

Visitors

AFFILIATION	NAME	Time Onsite	Time Offsite	Notes:

JOB SAFETY	WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☒ YES	☐ NO
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO

Responsible Party	Stop Work/Safety Inspections Conducted	☒ Safety Requirements Met
Parsons	Don hard hat in construction zone (MW-48)	

Equipment and/or Material Received or Leaving Jobsite Today

Responsible Party	Quantity	Definable Feature of Work and Description of Equipment Received
Blaine Tech	1	Sampling truck

IDW Generated/Removed

Responsible Party	Quantity	Description of IDW
USACE	10 gal	Decon/purge water (groundwater sampling)

PARSONS

DAILY PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Contract NO	Title and Location	Date
W91238-21-D-0008	**Former Titan 1-A Missile Facility, Lincoln, California**	10/22/2024

Contractor	Superintendent
Parsons	Justin Steere

Samples Shipped Today

Sample ID	Media	Destination	COC
T1AMF-TB001_OCT24	DI Water	EMAX	COC-01
T1AMF-MW053_OCT24	Groundwater	EMAX	COC-01
T1AMF-MW066_OCT24	Groundwater	EMAX	COC-01
T1AMF-MW062_OCT24	Groundwater	EMAX	COC-01
T1AMF-MW061_OCT24	Groundwater	EMAX	COC-01
T1AMF-MW030_OCT24	Groundwater	EMAX	COC-01
T1AMF-MW030_OCT24_FD	Groundwater	EMAX	COC-01
T1AMF-MW057_OCT24	Groundwater	EMAX	COC-01
T1AMF-MW048_OCT24	Groundwater	EMAX	COC-01
T1AMF-MW060_OCT24	Groundwater	EMAX	COC-01
T1AMF-MW059_OCT24	Groundwater	EMAX	COC-01
T1AMF-MW059_OCT24_MS	Groundwater	EMAX	COC-01
T1AMF-MW059_OCT24_MSD	Groundwater	EMAX	COC-01

Well Installation/Development Dates/ Soil Vapor Probe Installation Dates

ID	Drilled	Installed	Developed	Well box installed



10/22/2024

PARSONS PROJECT MANAGER | DATE



Photo 1: Groundwater sampling at MW-48



Photo 2: Pre-filled trip blanks

DAILY SAFETY TAILGATE

Safety Meeting Presenter: Justin Gassaway-Steere Date: 10/22/24 Time: 0730
Site Safety Officer: Justin Gassaway-Steere

Current Weather Conditions (AM/PM):
Temperature (°F) = 51 / 79 Wind Direction = ESE / SE Wind Speed = 4 / 11
Clear – Sunny – (Cloudy) – Rain – Snow Forecast = Mostly cloudy

Current Site Conditions (circle as appropriate):
(Dry) Wet - Muddy - Frozen - Snow Covered - Other (describe) _____

1. Safe and/or At-Risk Observations: Slips, trips, falls/uneven surfaces, pinch points - locks, well/standpipe lids, sampling trucks. Heavy equipment operation in construction zone. Long grass - no driving over long grass, use caution walking

2. Activities Taking Place Today: Groundwater sampling

3. Anticipated Hazards: Contact with contaminated groundwater - don nitrile gloves during sampling, wash hands before eating

4. Engineering Controls-Work Practices-PPE to Protect Against Hazards: Good housekeeping while sampling - reduce trip hazards. ~~tee~~ Modified level D PPE

5. Additional Safety Topic or Comments: Stay hydrated - take shade breaks as necessary

PRINTED NAME	SIGNATURE	COMPANY
Justin Steere		Parsons
Jose Lopez		Blaine Tech.

DAILY PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Contract NO	Title and Location	Date
W91238-21-D-0008	**Former Titan 1-A Missile Facility, Lincoln, California**	10/23/2024

Contractor	Superintendent
Parsons	Justin Steere

AM Weather	PM Weather	MAX TEMP (F)	MIN TEMP (F)
Mostly sunny	Mostly sunny	80	40

Description of tasks	EMPLOYER
Work Performed Today	
Soil vapor probes sampled: SV-11, SV-10, SV-28 (DUP), SV-27, SV-3, SV-17B, and SV-31	Blaine Tech
Monitoring wells sampled: MW-63, MW-64, MW-55, MW-54, MW-19, MW-16 (DUP), MW-11, MW-52	Blaine Tech
Work Planned for Tomorrow	
Continue groundwater and soil vapor sampling	
Ship GW samples	

Staff Onsite

EMPLOYER	NAME	Time Onsite	Time Offsite	Time Onsite	Time Offsite
Parsons	Justin Steere	0700	1540		
USACE	Kyle Bayliff	0800	1000		
Blaine Tech	Jose Lopez	0720	1505		
Blaine Tech	Ben Dieffenbacher	0720	1540		

Visitors

AFFILIATION	NAME	Time Onsite	Time Offsite	Notes:

JOB SAFETY	WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☒ YES	☐ NO
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO

Responsible Party	Stop Work/Safety Inspections Conducted	☒ Safety Requirements Met
Parsons	Hot in the afternoon – drink plenty of water to stay hydrated and use shade when possible	

Equipment and/or Material Received or Leaving Jobsite Today

Responsible Party	Quantity	Definable Feature of Work and Description of Equipment Received
Blaine Tech	1	Sampling truck
Blaine Tech	1	Pickup

IDW Generated/Removed

Responsible Party	Quantity	Description of IDW
USACE	8 gal	Decon/purge water (groundwater sampling)

PARSONS

DAILY PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Contract NO	Title and Location	Date
W91238-21-D-0008	**Former Titan 1-A Missile Facility, Lincoln, California**	10/23/2024

Contractor	Superintendent
Parsons	Justin Steere

Samples Shipped Today

Sample ID	Media	Destination	COC

Well Installation/Development Dates/ Soil Vapor Probe Installation Dates

ID	Drilled	Installed	Developed	Well box installed



10/23/2024

PARSONS PROJECT MANAGER — DATE



Photo 1: Soil Vapor Sampling (N)



Photo 2: Groundwater sampling

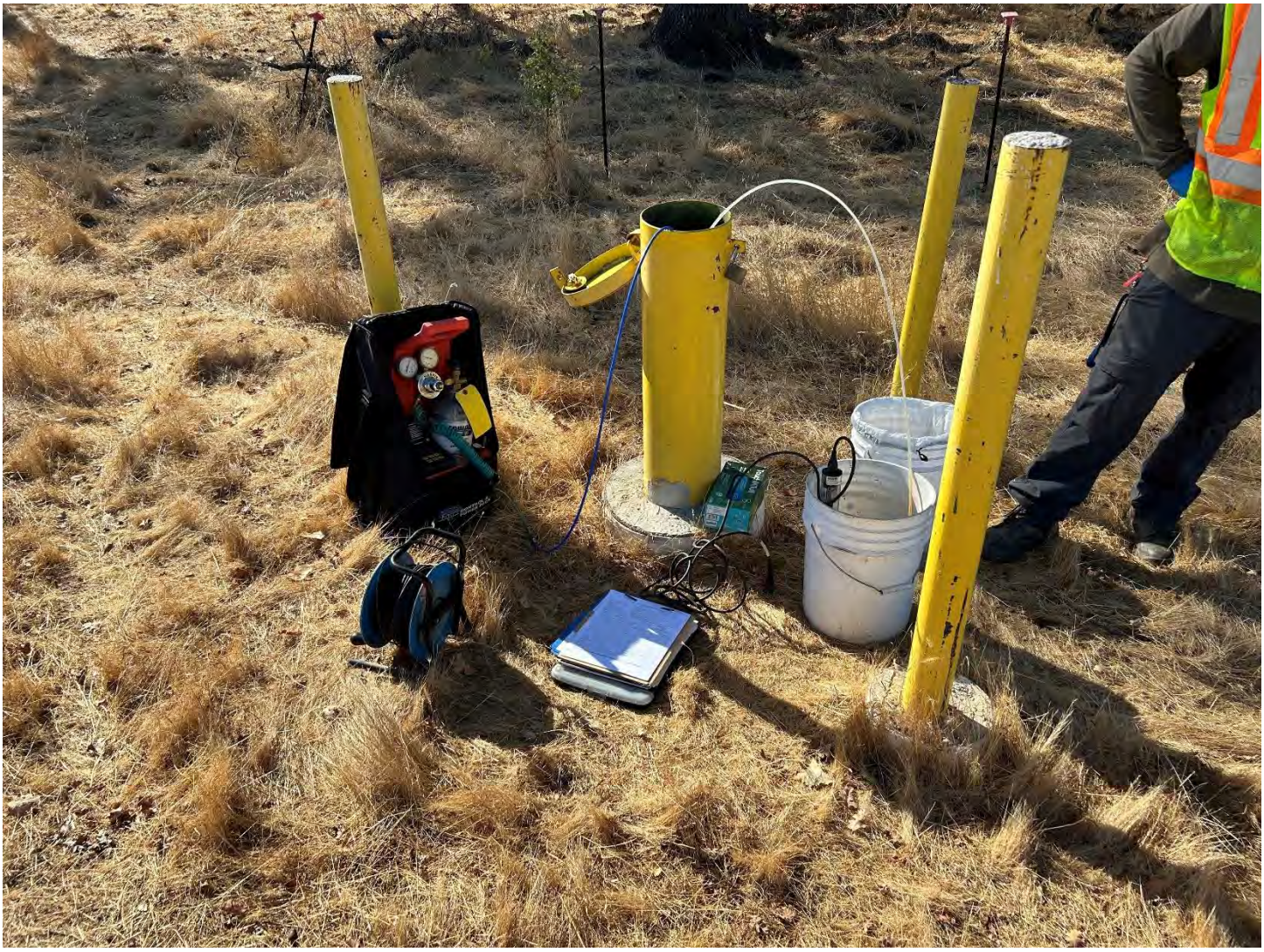


Photo 3: Portable groundwater sampling set up

DAILY SAFETY TAILGATE

Safety Meeting Presenter: Justin Gassaway-Steere Date: 10/23/24 Time: 0730
Site Safety Officer: Justin Gassaway-Steere

Current Weather Conditions (AM/PM):
Temperature (°F) = 48 / 80 Wind Direction = NE / W Wind Speed = 4 / 5
Clear – (Sunny) – Cloudy – Rain – Snow Forecast = Mostly sunny

Current Site Conditions (circle as appropriate):
(Dry) - Wet - Muddy - Frozen - Snow Covered - Other (describe) _____

1. Safe and/or At-Risk Observations: Uneven terrain, splashing (gw) — ~~wh~~ (JGS), pinch points on sampling rigs, long grass – drive on path, keep vehicles parked in areas where grass is low

2. Activities Taking Place Today: Groundwater sampling and soil vapor probe sampling

3. Anticipated Hazards: Contact with contaminated media, biological hazards – snakes, ticks spiders, wasps, Heavy equipment operation on eastern side of site

4. Engineering Controls-Work Practices-PPE to Protect Against Hazards: Safety vest, steel toes, nitrile gloves (while sampling/ handling equipment), hard hat where overhead hazards are present/ in active construction zone, good house keeping to minimize trip hazards

5. Additional Safety Topic or Comments: Stop work authority, cool in mornings/hot in afternoon – stay hydrated/ take shade breaks as necessary

PRINTED NAME	SIGNATURE	COMPANY
Justin Gassaway-Steere		Parsons
Ben Diefenbacher		BTS
Jose Lopez		BTS
Kile Bayliff	Kyle Bayliff	USACE

DAILY PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Contract NO	Title and Location	Date
W91238-21-D-0008	**Former Titan 1-A Missile Facility, Lincoln, California**	10/24/2024

Contractor	Superintendent
Parsons	Justin Steere

AM Weather	PM Weather	MAX TEMP (F)	MIN TEMP (F)
Mostly sunny	Mostly sunny	79	47

Description of tasks	EMPLOYER
Work Performed Today	
Soil vapor probes sampled: SV-35, SV-26, SV-1, SV-24, SV-32b, SV-32a, SV-33	Blaine Tech
Monitoring wells sampled: MW-50,MW-22, MW-47, MW-43, MW-44, MW-42, MW-46, MW-56, MW-49, MW-51, MW-29, EW-1,MW-45	Blaine Tech
Groundwater sampling completed – source and equipment blanks completed (two equipment blanks – one for each sampler/pump)	
Wells not sampled – MW-58 (Dry), MW-17 (buried or destroyed), MW-35 (buried or destroyed)	
Work Planned for Tomorrow	
Continue soil vapor sampling	

Staff Onsite

EMPLOYER	NAME	Time Onsite	Time Offsite	Time Onsite	Time Offsite
Parsons	Justin Steere	0720	1615		
Blaine Tech	Jack Patton	0720	1605		
Blaine Tech	Jose Lopez	0720	1530		
Blaine Tech	Ben Dieffenbacher	0720	1605		
Blaine Tech	Sean Moore	0720	1530		
Parsons	Carrie Ross	1130	1400		

Visitors

AFFILIATION	NAME	Time Onsite	Time Offsite	Notes:

JOB SAFETY	WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☒ YES	☐ NO
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO

Responsible Party	Stop Work/Safety Inspections Conducted	☒ Safety Requirements Met
Parsons	Pinch points – use caution opening/closing doors on sampling rigs	

Equipment and/or Material Received or Leaving Jobsite Today

Responsible Party	Quantity	Definable Feature of Work and Description of Equipment Received
Blaine Tech	2	Sampling trucks
Blaine Tech	1	Pickup

IDW Generated/Removed

Responsible Party	Quantity	Description of IDW
USACE	13 gal	Decon/purge water (groundwater sampling)

PARSONS

DAILY PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Contract NO	Title and Location	Date
W91238-21-D-0008	**Former Titan 1-A Missile Facility, Lincoln, California**	10/24/2024

Contractor	Superintendent
Parsons	Justin Steere

Samples Shipped Today

Sample ID	Media	Destination	COC
T1AMF-TB002_OCT24	DI Water	EMAX	COC-2
T1AMF-MW063_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW064_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW055_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW054_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW019_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW016_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW016_OCT24_FD	Groundwater	EMAX	COC-2
T1AMF-MW011_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW052_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW050_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW050_OCT24_FD	Groundwater	EMAX	COC-2
T1AMF-MW022_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW047_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW043_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW044_OCT24 (MS/MSD)	Groundwater	EMAX	COC-2
T1AMF-MW042_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW046_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW056_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW056_OCT24_FD	Groundwater	EMAX	COC-2
T1AMF-MW049_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW051_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW029_OCT24	Groundwater	EMAX	COC-2
T1AMF-EW01_OCT24	Groundwater	EMAX	COC-2
T1AMF-MW045_OCT24	Groundwater	EMAX	COC-2
T1AMF-EB001_OCT24	DI Water	EMAX	COC-2
T1AMF-EB002_OCT24	DI Water	EMAX	COC-2
T1AMF-SB001_OCT24	DI Water	EMAX	COC-2



10/24/2024

PARSONS PROJECT MANAGER — DATE

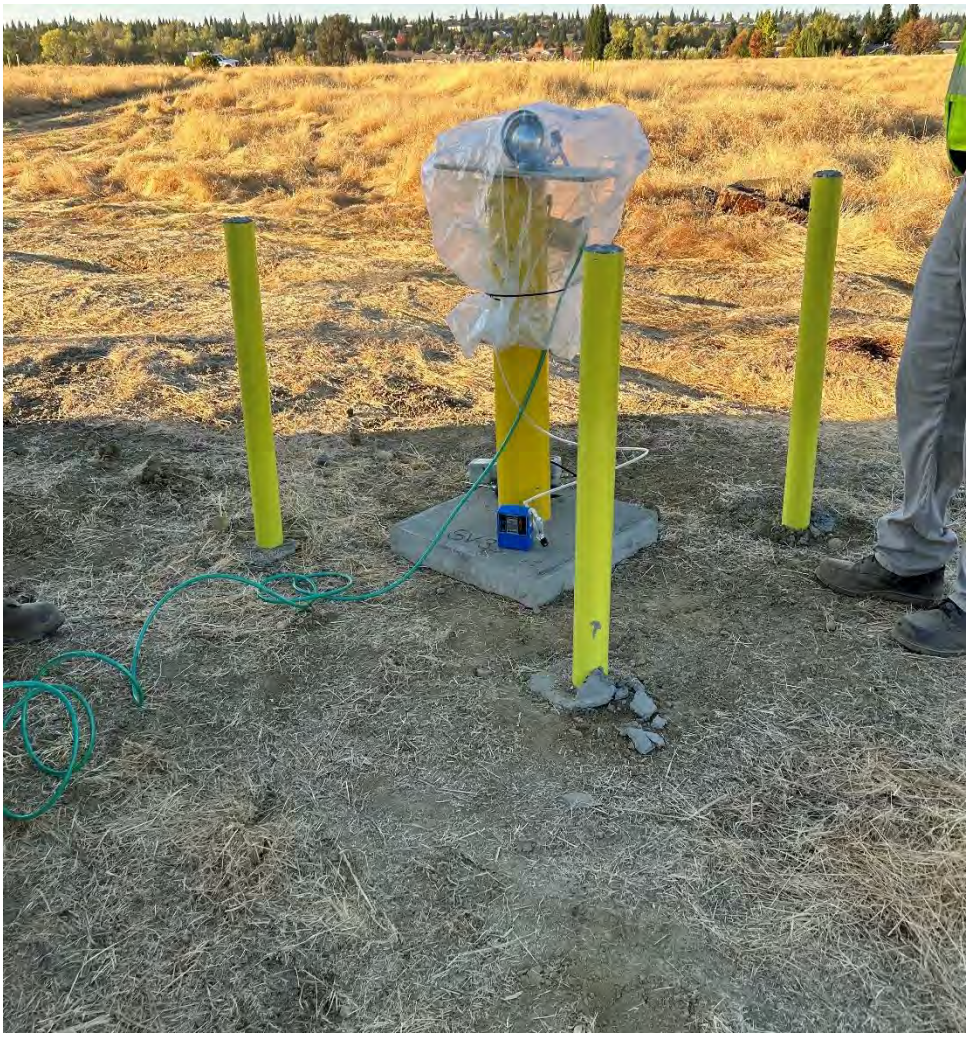


Photo 1: Soil Vapor Sampling (N)



Photo 2: Groundwater sampling



Photo 3: MS/MSD sample collection at MW-44

DAILY SAFETY TAILGATE

Safety Meeting Presenter: Justin Gassaway-Steese Date: 10/24/24 Time: 0730
Site Safety Officer: Justin Gassaway-Steese

Current Weather Conditions (AM/PM):
Temperature (°F) = 47 / ____ Wind Direction = N / ____ Wind Speed = 3 / ____
Clear – (Sunny) – Cloudy – Rain – Snow Forecast = Sunny

Current Site Conditions (circle as appropriate):
(Dry) - Wet - Muddy - Frozen - Snow Covered - Other (describe) ____

1. Safe and/or At-Risk Observations: Uneven terrain, long grass – keep vehicles on designated paths, active construction in eastern portion of site, heavy equipment/semi-truck traffic on road

2. Activities Taking Place Today: Groundwater and soil vapor sampling

3. Anticipated Hazards: Contact w/ contaminated media, biological – snakes, ticks, spiders, wasps

4. Engineering Controls-Work Practices-PPE to Protect Against Hazards: Modified Level D PPE – steel toes, safety vest, nitriles during sampling/handling equipment, hard hats in active construction area or where overhead hazards persist

5. Additional Safety Topic or Comments: Stop work authority, hot in the afternoon – drink plenty of water/shade when possible

PRINTED NAME	SIGNATURE	COMPANY
Justin Gassaway-Steese		Parsons
Jose Lopez		BTS
Ben Diffenbacher		BTS
Jack Patton		BTS
SEAN HOPPE		BTS
Carrie Ross	Carrie Ross	Parsons

DAILY PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Contract NO	Title and Location	Date
W91238-21-D-0008	**Former Titan 1-A Missile Facility, Lincoln, California**	10/25/2024

Contractor	Superintendent
Parsons	Justin Steere

AM Weather	PM Weather	MAX TEMP (F)	MIN TEMP (F)
Mostly cloudy	Mostly cloudy	78	48

Description of tasks	EMPLOYER
Work Performed Today	
Soil vapor probes sampled: SV-23, SV-21, SV-2, SV-34, SV-20, SV-22, SV-25	Blaine Tech
Work Planned for Monday 10/28	
Continue soil vapor sampling	

Staff Onsite

EMPLOYER	NAME	Time Onsite	Time Offsite	Time Onsite	Time Offsite
Parsons	Justin Steere	0700	1500		
Blaine Tech	Jack Patton	0700	1500		

Visitors

AFFILIATION	NAME	Time Onsite	Time Offsite	Notes:

JOB SAFETY	WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☒ YES	☐ NO
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO

Responsible Party	Stop Work/Safety Inspections Conducted	☒ Safety Requirements Met
Parsons	Pinch points – use caution opening/closing well lids/locks and setting up sampling equipment	

Equipment and/or Material Received or Leaving Jobsite Today

Responsible Party	Quantity	Definable Feature of Work and Description of Equipment Received
Blaine Tech	1	Pickup

IDW Generated/Removed

Responsible Party	Quantity	Description of IDW

PARSONS

DAILY PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Contract NO	Title and Location	Date
W91238-21-D-0008	**Former Titan 1-A Missile Facility, Lincoln, California**	10/25/2024

Contractor	Superintendent
Parsons	Justin Steere

Samples Shipped Today

Sample ID	Media	Destination	COC

10/25/2024

PARSONS PROJECT MANAGER — DATE



Photo 1: Soil Vapor Sampling Purge Pump



Photo 2: Soil Vapor Probe Sampling

PARSONS

DAILY SAFETY TAILGATE

Safety Meeting Presenter: Justin Steere Date: 10/25/24 Time: 0700
Site Safety Officer: Justin Steere

Current Weather Conditions (AM/PM):
Temperature (°F) = 48 / 78 Wind Direction = WSW/ WSW Wind Speed = 3 / 4
Clear – Sunny – Cloudy – Rain – Snow Forecast = Mostly cloudy

Current Site Conditions (circle as appropriate):
Dry - Wet - Muddy - Frozen - Snow Covered - Other (describe) _____

1. Safe and/or At-Risk Observations: Uneven terrain - slips, trips, falls; pinch points - opening well lids, sampling equipment, etc.; long grass/dry conditions - stay on designated paths

2. Activities Taking Place Today: Soil vapor probe sampling

3. Anticipated Hazards: Contact with contaminated media; biological hazards - snakes, spiders, wasps, ticks, etc.

4. Engineering Controls-Work Practices-PPE to Protect Against Hazards: Modified level D PPE; Good housekeeping - keep work area clear of trip hazards

5. Additional Safety Topic or Comments: Stop work authority - see something, say something

PRINTED NAME	SIGNATURE	COMPANY
Justin Steere		Parsons
Jack Patton		Blaine Tech

DAILY PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Contract NO	Title and Location	Date
W91238-21-D-0008	**Former Titan 1-A Missile Facility, Lincoln, California**	10/28/2024

Contractor	Superintendent
Parsons	Justin Steere

AM Weather	PM Weather	MAX TEMP (F)	MIN TEMP (F)
Clear	Partly cloudy	69	49

Description of tasks	EMPLOYER
Work Performed Today	
Soil vapor probes sampled: SV-29, SV-30, SV-15B, SV-9B, SV-4, SV-19	Blaine Tech
Attempted to sample SV-12 - water in probe, no sample	Blaine Tech
Surveilled construction area for remaining soil vapor probes – SV-8 within pit (see pictures 2 and 3)	Parsons
Work Planned for Tuesday 10/29	
Continue soil vapor sampling	

Staff Onsite

EMPLOYER	NAME	Time Onsite	Time Offsite	Time Onsite	Time Offsite
Parsons	Justin Steere	0700	1535		
Blaine Tech	Jack Patton	0700	1535		

Visitors

AFFILIATION	NAME	Time Onsite	Time Offsite	Notes:

JOB SAFETY	WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☒ YES	☐ NO
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO

Responsible Party	Stop Work/Safety Inspections Conducted	☒ Safety Requirements Met
Parsons	Cold in morning/warm in afternoon – layer up as needed and stay hydrated	

Equipment and/or Material Received or Leaving Jobsite Today

Responsible Party	Quantity	Definable Feature of Work and Description of Equipment Received
Blaine Tech	1	Pickup

IDW Generated/Removed

Responsible Party	Quantity	Description of IDW

PARSONS

DAILY PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Contract NO	Title and Location	Date
W91238-21-D-0008	**Former Titan 1-A Missile Facility, Lincoln, California**	10/28/2024

Contractor	Superintendent
Parsons	Justin Steere

Samples Shipped Today

Sample ID	Media	Destination	COC



10/28/2024

PARSONS PROJECT MANAGER — DATE



Photo 1: Soil Vapor Probe Sampling



Photo 2: SV-8



Photo 3: SV-8

DAILY SAFETY TAILGATE

Safety Meeting Presenter: Justin Steere Date: 10/28/24 Time: 0700
Site Safety Officer: Justin Steere

Current Weather Conditions (AM/PM):
Temperature (°F) = 49 / 69 Wind Direction = SW / N Wind Speed = 3 / 8
Clear – Sunny – Cloudy – Rain – Snow Forecast = Partly cloudy

Current Site Conditions (circle as appropriate):
Dry - Wet - Muddy - Frozen - Snow Covered - Other (describe) _____

1. Safe and/or At-Risk Observations: Uneven terrain - slips, trips, falls; pinch points - opening well lids, sampling equipment, etc.; long grass/dry conditions - stay on designated paths

2. Activities Taking Place Today: Soil vapor probe sampling

3. Anticipated Hazards: Contact with contaminated media; biological hazards - snakes, spiders, wasps, ticks, etc.

4. Engineering Controls-Work Practices-PPE to Protect Against Hazards: Modified level D PPE; Good housekeeping - keep work area clear of trip hazards

5. Additional Safety Topic or Comments: Stop work authority - see something, say something
Cold weather in morning - wear layers as appropriate

PRINTED NAME	SIGNATURE	COMPANY
Justin Steere		Parsons
Jack Patton		Blaine Tech

DAILY PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Contract NO	Title and Location	Date
W91238-21-D-0008	**Former Titan 1-A Missile Facility, Lincoln, California**	10/29/2024

Contractor	Superintendent
Parsons	Justin Steere

AM Weather	PM Weather	MAX TEMP (F)	MIN TEMP (F)
Clear	Partly cloudy	69	46

Description of tasks	EMPLOYER
Work Performed Today	
Soil vapor probes sampled: SV-5B, SV-6, SV-16, SV-18	Blaine Tech
SV-7 and SV-8 were not sampled – monuments present, but tubing has been pulled from the probes (See photos 2 and 3)	
Work Planned for Tomorrow	
None – sampling event complete	

Staff Onsite

EMPLOYER	NAME	Time Onsite	Time Offsite	Time Onsite	Time Offsite
Parsons	Justin Steere	0700	1335		
Blaine Tech	Jack Patton	0700	1335		

Visitors

AFFILIATION	NAME	Time Onsite	Time Offsite	Notes:

JOB SAFETY	WAS A JOB SAFETY MEETING HELD THIS DATE? (If YES attach copy of the meeting minutes)	☒ YES	☐ NO
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)	☐ YES	☒ NO

Responsible Party	Stop Work/Safety Inspections Conducted	☒ Safety Requirements Met
Parsons	Use caution when working in construction zone – heavy equipment traffic; yield to heavy equipment and make eye contact with	
	operators before proceeding into swing radius/path of travel	

Equipment and/or Material Received or Leaving Jobsite Today

Responsible Party	Quantity	Definable Feature of Work and Description of Equipment Received
Blaine Tech	1	Pickup

IDW Generated/Removed

Responsible Party	Quantity	Description of IDW
USACE	13 gal	Decon/purge water (groundwater sampling)

PARSONS

DAILY PRODUCTION REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Contract NO	Title and Location	Date
W91238-21-D-0008	**Former Titan 1-A Missile Facility, Lincoln, California**	10/29/2024

Contractor	Superintendent
Parsons	Justin Steere

Samples Shipped Today

Sample ID	Media	Destination	COC
T1AMF-SV011_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV010_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV028_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV028_OCT24_FD	Soil Vapor	EMAX	COC-3
T1AMF-SV027_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV003_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV017B_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV031_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV032a_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV032b_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV024_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV001_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV026_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV026_OCT24_FD	Soil Vapor	EMAX	COC-3
T1AMF-SV035_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV035_OCT24_FD	Soil Vapor	EMAX	COC-3
T1AMF-SV033_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV023_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV023_OCT24_FD	Soil Vapor	EMAX	COC-3
T1AMF-SV021_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV002_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV034_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV020_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV022_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV025_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV019_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV004_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV009B_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV015B_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV030_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV029_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV005B_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV006_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV016_OCT24	Soil Vapor	EMAX	COC-3
T1AMF-SV018_OCT24	Soil Vapor	EMAX	COC-3



10/29/2024

PARSONS PROJECT MANAGER — DATE



Photo 1: Soil Vapor Sample Label



Photo 2: SV-7



Photo 3: SV-8



Photo 4: Shroud set up for SV-18 (flush mounted)

DAILY SAFETY TAILGATE

Safety Meeting Presenter: Justin Steere Date: 10/29/24 Time: 0700
Site Safety Officer: Justin Steere

Current Weather Conditions (AM/PM):
Temperature (°F) = 46 / 69 Wind Direction = Calm / N Wind Speed = 0 / 9
Clear – Sunny – Cloudy – Rain – Snow Forecast = Partly cloudy

Current Site Conditions (circle as appropriate):
Dry - Wet - Muddy - Frozen - Snow Covered - Other (describe) _____

1. Safe and/or At-Risk Observations: Uneven terrain - slips, trips, falls; pinch points - opening well lids, sampling equipment, etc.; long grass/dry conditions - stay on designated paths

2. Activities Taking Place Today: Soil vapor probe sampling

3. Anticipated Hazards: Contact with contaminated media; biological hazards - snakes, spiders, wasps, ticks, etc.

4. Engineering Controls-Work Practices-PPE to Protect Against Hazards: Modified level D PPE; Good housekeeping - keep work area clear of trip hazards

5. Additional Safety Topic or Comments: Stop work authority - see something, say something
Cold weather in morning - wear layers as appropriate
Working in construction zone - use caution and yield to heavy equipment

PRINTED NAME	SIGNATURE	COMPANY
Justin Steere		Parsons
Jack Patton		Blaine Tech

Appendix C – Analytical Laboratory Reports

CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Road, Suite B
Folsom, CA 95630

Fulfills the requirements of

ISO/IEC 17025:2017

and

U.S. Department of Defense (DoD) Quality Systems Manual for Environmental Laboratories (DoD QSM V5.4)

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

Jason Stine, Vice President

Expiry Date: 27 April 2026

Certificate Number: ADE-1451

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

and

U.S. Department of Defense (DoD) Quality Systems Manual for Environmental Laboratories (DoD QSM V5.4)

Eurofins Environment Testing Northern California, LLC

180 Blue Ravine Road, Suite B
Folsom, CA 95630
Gretchen Hehir
(916) 985-1000

TESTING

Valid to: **April 27, 2026** Certificate Number: **ADE-1451**

Environmental

Air and Emissions		
Technology	**Method**	**Analyte**
GC/FID/dual TCD	ASTM D1945 Mod	Acetylene
GC/FID/dual TCD	ASTM D1945 Mod	Carbon Dioxide
GC/FID/dual TCD	ASTM D1945 Mod	Carbon Monoxide
GC/FID/dual TCD	ASTM D1945 Mod	Ethane
GC/FID/dual TCD	ASTM D1945 Mod	Ethylene
GC/FID/dual TCD	ASTM D1945 Mod	Helium
GC/FID/dual TCD	ASTM D1945 Mod	Hydrogen
GC/FID/dual TCD	ASTM D1945 Mod	Isobutane
GC/FID/dual TCD	ASTM D1945 Mod	Isopentane
GC/FID/dual TCD	ASTM D1945 Mod	Methane

Air and Emissions		
Technology	**Method**	**Analyte**
GC/FID/dual TCD	ASTM D1945 Mod	n-Butane
GC/FID/dual TCD	ASTM D1945 Mod	Neopentane
GC/FID/dual TCD	ASTM D1945 Mod	Nitrogen
GC/FID/dual TCD	ASTM D1945 Mod	n-Pentane
GC/FID/dual TCD	ASTM D1945 Mod	Oxygen
GC/FID/dual TCD	ASTM D1945 Mod	Propane
GC/FID/dual TCD	ASTM D1946 Mod	Carbon Dioxide
GC/FID/dual TCD	ASTM D1946 Mod	Carbon Monoxide
GC/FID/dual TCD	ASTM D1946 Mod	Ethane
GC/FID/dual TCD	ASTM D1946 Mod	Ethylene
GC/FID/dual TCD	ASTM D1946 Mod	Helium
GC/FID/dual TCD	ASTM D1946 Mod	Hydrogen
GC/FID/dual TCD	ASTM D1946 Mod	Methane
GC/FID/dual TCD	ASTM D1946 Mod	Nitrogen
GC/FID/dual TCD	ASTM D1946 Mod	Oxygen
GC/FID	TO-3 Mod	TPH(GRO)
GC/FID	TO-3 Mod	TPH(JP4)
GC/MS	TO-15 (Full Scan/SIM)	1,1,1-Trichloroethane
GC/MS	TO-15 (Full Scan/SIM)	1,1,2,2-Tetrachloroethane
GC/MS	TO-15 (Full Scan/SIM)	1,1,2-Trichloroethane
GC/MS	TO-15 (Full Scan/SIM)	1,1-Dichloroethane
GC/MS	TO-15 (Full Scan/SIM)	1,1-Dichloroethene
GC/MS	TO-15 (Full Scan)	1,2,4-Trichlorobenzene

Air and Emissions		
Technology	**Method**	**Analyte**
GC/MS	TO-15 (Full Scan)	1,2,4-Trimethylbenzene
GC/MS	TO-15 (Full Scan/SIM)	1,2-Dibromoethane (EDB)
GC/MS	TO-15 (Full Scan/SIM)	1,2-Dichlorobenzene
GC/MS	TO-15 (Full Scan/SIM)	1,2-Dichloroethane
GC/MS	TO-15 (Full Scan)	1,2-Dichloropropane
GC/MS	TO-15 (Full Scan/SIM)	1,2-Dichlorotetrafluoroethane (Freon 114)
GC/MS	TO-15 (Full Scan)	1,3,5-Trimethylbenzene
GC/MS	TO-15 (Full Scan)	1,3-Butadiene
GC/MS	TO-15 (Full Scan/SIM)	1,3-Dichlorobenzene
GC/MS	TO-15 (Full Scan/SIM)	1,4-Dichlorobenzene
GC/MS	TO-15 (Full Scan)	1,4-Dioxane
GC/MS	TO-15 (Full Scan)	2,2,4-Trimethylpentane
GC/MS	TO-15 (Full Scan)	2-Butanone (MEK)
GC/MS	TO-15 (Full Scan)	2-Chlorotoluene
GC/MS	TO-15 (Full Scan)	2-Hexanone
GC/MS	TO-15 (Full Scan)	2-Propanol
GC/MS	TO-15 (Full Scan)	3-Chloropropene
GC/MS	TO-15 (Full Scan)	4-Methyl-2-pentanone (MIBK)
GC/MS	TO-15 (Full Scan)	Acetone
GC/MS	TO-15 (Full Scan)	alpha-Chlorotoluene
GC/MS	TO-15 (Full Scan/SIM)	Benzene
GC/MS	TO-15 (Full Scan)	Bromodichloromethane
GC/MS	TO-15 (Full Scan)	Bromoform

Air and Emissions		
Technology	**Method**	**Analyte**
GC/MS	TO-15 (Full Scan)	Bromomethane
GC/MS	TO-15 (Full Scan)	Butane
GC/MS	TO-15 (Full Scan)	Butyl Benzene
GC/MS	TO-15 (Full Scan)	Carbon disulfide
GC/MS	TO-15 (Full Scan/SIM)	Carbon tetrachloride
GC/MS	TO-15 (Full Scan/SIM)	Chlorobenzene
GC/MS	TO-15 (Full Scan)	Chlorodibromomethane
GC/MS	TO-15 (Full Scan/SIM)	Chloroethane
GC/MS	TO-15 (Full Scan/SIM)	Chloroform
GC/MS	TO-15 (Full Scan/SIM)	Chloromethane
GC/MS	TO-15 (Full Scan/SIM)	cis-1,2-Dichloroethene
GC/MS	TO-15 (Full Scan)	cis-1,3-Dichloropropene
GC/MS	TO-15 (Full Scan)	Cyclohexane
GC/MS	TO-15 (Full Scan)	Cumene
GC/MS	TO-15 (Full Scan/SIM)	Dichlorodifluoromethane (Freon 12)
GC/MS	TO-15 (Full Scan)	Ethanol
GC/MS	TO-15 (Full Scan/SIM)	Ethylbenzene
GC/MS	TO-15 (Full Scan)	Hexachlorobutadiene
GC/MS	TO-15 (Full Scan)	Methylene Chloride
GC/MS	TO-15 (Full Scan/SIM)	m,p-Xylene
GC/MS	TO-15 (Full Scan/SIM)	Naphthalene
GC/MS	TO-15 (Full Scan)	n-Heptane
GC/MS	TO-15 (Full Scan)	n-Hexane

Air and Emissions		
Technology	**Method**	**Analyte**
GC/MS	TO-15 (Full Scan)	Nonane
GC/MS	TO-15 (Full Scan)	n-Pentane
GC/MS	TO-15 (Full Scan)	n-Propylbenzene
GC/MS	TO-15 (Full Scan)	Octane
GC/MS	TO-15 (Full Scan/SIM)	o-Xylene
GC/MS	TO-15 (Full Scan)	p-Ethyltoluene
GC/MS	TO-15 (Full Scan)	Propylene
GC/MS	TO-15 (Full Scan)	sec-Butylbenzene
GC/MS	TO-15 (Full Scan)	Styrene
GC/MS	TO-15 (Full Scan)	tert-Butyl Alcohol
GC/MS	TO-15 (Full Scan)	tert-Butyl Benzene
GC/MS	TO-15 (Full Scan/SIM)	tert-Butyl methyl ether (MTBE)
GC/MS	TO-15 (Full Scan/SIM)	Tetrachloroethylene
GC/MS	TO-15 (Full Scan)	Tetrahydrofuran
GC/MS	TO-15 (Full Scan/SIM)	Toluene
GC/MS	TO-15 (Full Scan/SIM)	trans-1,2-Dichloroethene
GC/MS	TO-15 (Full Scan/SIM)	trans-1,3-Dichloropropene
GC/MS	TO-15 (Full Scan/SIM)	Trichloroethene
GC/MS	TO-15 (Full Scan/SIM)	Trichlorofluoromethane (Freon 11)
GC/MS	TO-15 (Full Scan/SIM)	Trichlorotrifluoroethane (Freon 113)
GC/MS	TO-15 (Full Scan)	Vinyl Acetate
GC/MS	TO-15 (Full Scan/SIM)	Vinyl chloride
GC/MS	TO-17 (WMS/RAD130) Mod	1,1,1-Trichloroethane

Air and Emissions		
Technology	**Method**	**Analyte**
GC/MS	TO-17 (WMS/RAD130) Mod	1,1,2,2-Tetrachloroethane
GC/MS	TO-17 (WMS/RAD130) Mod	1,1,2-Trichloroethane
GC/MS	TO-17 (WMS/RAD130) Mod	1,1-Dichloroethane
GC/MS	TO-17 (WMS/RAD130) Mod	1,1-Dichloroethene
GC/MS	TO-17 (WMS/RAD130) Mod	1,2,4-Trimethylbenzene
GC/MS	TO-17 (WMS/RAD130) Mod	1,2-Dichlorobenzene
GC/MS	TO-17 (WMS/RAD130) Mod	1,2-Dichloroethane
GC/MS	TO-17 (WMS/RAD130) Mod	1,3,5-Trimethylbenzene
GC/MS	TO-17 (WMS/RAD130) Mod	1,3-Dichlorobenzene
GC/MS	TO-17 (WMS/RAD130) Mod	1,4-Dichlorobenzene
GC/MS	TO-17 (WMS/RAD130) Mod	2-Butanone (MEK)
GC/MS	TO-17 (WMS/RAD130) Mod	4-Methyl-2-pentanone (MIBK)
GC/MS	TO-17 (WMS/RAD130) Mod	Benzene
GC/MS	TO-17 (WMS/RAD130) Mod	Carbon tetrachloride
GC/MS	TO-17 (WMS/RAD130) Mod	Chlorobenzene
GC/MS	TO-17 (WMS/RAD130) Mod	Chloroform
GC/MS	TO-17 (WMS/RAD130) Mod	cis-1,2-Dichloroethene
GC/MS	TO-17 (WMS/RAD130) Mod	Cyclohexane
GC/MS	TO-17 (WMS/RAD130) Mod	Ethyl Acetate
GC/MS	TO-17 (WMS/RAD130) Mod	Ethylbenzene
GC/MS	TO-17 (WMS/RAD130) Mod	m,p-Xylene
GC/MS	TO-17 (WMS/RAD130) Mod	n-Heptane
GC/MS	TO-17 (WMS/RAD130) Mod	n-Hexane
GC/MS	TO-17 (WMS/RAD130) Mod	o-Xylene

Air and Emissions		
Technology	**Method**	**Analyte**
GC/MS	TO-17 (WMS/RAD130) Mod	Propylbenzene
GC/MS	TO-17 (WMS/RAD130) Mod	tert-Butyl methyl ether (MTBE)
GC/MS	TO-17 (WMS/RAD130) Mod	Tetrachloroethylene
GC/MS	TO-17 (WMS/RAD130) Mod	Toluene
GC/MS	TO-17 (WMS/RAD130) Mod	trans-1,2-Dichloroethene
GC/MS	TO-17 (WMS/RAD130) Mod	Trichloroethene
GC/MS	TO-17 (WMS) Mod	Vinyl chloride
Preparation	**Method**	**Type**
Extraction of sorbent media	Eurofins Air Toxics SOP # 100	Solvent Extraction

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. ADE-1451.



Jason Stine, Vice President

EMAX
LABORATORIES, INC.
3051 Fujita Street
Torrance, CA 90505
Tel: (310)-618-8889

Date: 12-24-2024
EMAX Batch No.: 24J145

Attn: Mark Rigby

Parsons
75 W Towne Ridge Pkway # 200
Sandy UT 84070

Subject: Laboratory Report
Project: TITAN 1-A

Enclosed is the Laboratory report for samples received on 10/23/24.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
T1AMF-TB001_OCT24	J145-01	10/21/24	WATER	VOCS BY 8260C
T1AMF-MW053_OCT24	J145-02	10/21/24	WATER	VOCS BY 8260C
T1AMF-MW066_OCT24	J145-03	10/21/24	WATER	VOCS BY 8260C
T1AMF-MW062_OCT24	J145-04	10/22/24	WATER	VOCS BY 8260C
T1AMF-MW061_OCT24	J145-05	10/22/24	WATER	VOCS BY 8260C
T1AMF-MW030_OCT24	J145-06	10/22/24	WATER	VOCS BY 8260C
T1AMF-MW030_OCT24_FD	J145-07	10/22/24	WATER	VOCS BY 8260C
T1AMF-MW057_OCT24	J145-08	10/22/24	WATER	VOCS BY 8260C
T1AMF-MW048_OCT24	J145-09	10/22/24	WATER	VOCS BY 8260C
T1AMF-MW060_OCT24	J145-10	10/22/24	WATER	VOCS BY 8260C
T1AMF-MW059_OCT24	J145-11	10/22/24	WATER	VOCS BY 8260C
T1AMF-MW059_OCT24MS	J145-11M	10/22/24	WATER	VOCS BY 8260C
T1AMF-MW059_OCT24MSD	J145-11S	10/22/24	WATER	VOCS BY 8260C

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that results included in this report meets all TNI & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912024-26
ANAB Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672

CHAIN OF CUSTODY

EMAX LABORATORIES, INC.
3051 Fujita St., Torrance, CA 90505
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: 0015461
SAMPLE STORAGE

EMAX CONTROL NO. 24J145
PROJECT CODE:

CLIENT PARSONS
PROJECT TITAN 1-A
COORDINATOR Katherine LaPierre
TEL 360-529-9351 EMAIL Katherine.LaPierre@Parsons.us
SEND REPORT TO Katherine LaPierre at email above
COMPANY PARSONS
ADDRESS NA - Electronic Communication Only
EMAX PM: Richard Beauvil, RBeauvil@emaxlabs.com

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☑ 7 days
- ☐ 14 days
- ☐ 21 days

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	SAMPLING DATE	SAMPLING TIME	CONTAINER NO.	CONTAINER SIZE	CONTAINER TYPE	MATRIX CODE	QC	VOCs (SW8260C) PRESERVATIVE CODE IC/HC	COMMENTS
* 1	T1AMF-TB001_OCT24	Trip Blank	10/21/2024	--	3	40 mL	VOA	W	TB	X	
* 2	T1AMF-MW053_OCT24	MW-53	10/21/2024	1525	3	40 mL	VOA	GW		X	
* 3	T1AMF-MW066_OCT24	MW-66	10/21/2024	1610	3	40 mL	VOA	GW		X	
* 4	T1AMF-MW062_OCT24	MW-62	10/22/2024	1015	3	40 mL	VOA	GW		X	
* 5	T1AMF-MW061_OCT24	MW-61	10/22/2024	1120	3	40 mL	VOA	GW		X	
* 6	T1AMF-MW030_OCT24	MW-30	10/22/2024	1225	3	40 mL	VOA	GW		X	
* 7	T1AMF-MW030_OCT24_FD	MW-30	10/22/2024	1230	3	40 mL	VOA	GW	FD	X	
* 8	T1AMF-MW057_OCT24	MW-57	10/22/2024	1319	3	40 mL	VOA	GW		X	
* 9	T1AMF-MW048_OCT24	MW-48	10/22/2024	1419	3	40 mL	VOA	GW		X	
10	T1AMF-MW060_OCT24	MW-60	10/22/2024	1510	3	40 mL	VOA	GW		X	

Instructions

Cooler #	Temp. (°C)	Sample #s
1	4.6	

SAMPLER Sean Moore/Jose Lopez (BTS)
COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
Justin Grassaway-Steele /Parsons	10/22/24	1730	
	10/23/24	9:45	

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associated with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.

CHAIN OF CUSTODY

EMAX Laboratories, Inc.
3051 Fujita St., Torrance, CA 90505
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: 0015461
SAMPLE STORAGE

EMAX CONTROL NO. 24J145
PROJECT CODE:

CLIENT PARSONS
PROJECT TITAN 1-A
COORDINATOR Katherine LaPierre
TEL 360-529-9351 EMAIL Katherine.LaPierre@Parsons.us
SEND REPORT TO Katherine LaPierre at email above
COMPANY PARSONS
ADDRESS NA - Electronic Communication Only
EMAX PM: Richard Beauvil, RBeauvil@emaxlabs.com

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

ANALYSIS REQUIRED: VOCs (SW8260C)

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☑ 7 days
- ☐ 14 days
- ☐ 21 days

LAB	SAMPLE ID: CLIENT	SAMPLING: LOCATION	DATE	TIME	CONTAINER: NO.	SIZE	TYPE	MATRIX CODE	QC	PRESERVATIVE CODE: IC/HC	COMMENTS
* 1	T1AMF-MW059_OCT24	MW-59	10/22/2024	1609	3	40 mL	VOA	GW		X	
* 2	T1AMF-MW059_OCT24_MS	MW-59	10/22/2024	1609	3	40 mL	VOA	GW	MS	X	
3	T1AMF-MW059_OCT24_MSD	MW-59	10/22/2024	1609	3	40 mL	VOA	GW	MSD	X	
* 4											
* 5											
* 6											
* 7											
* 8											
* 9											
10											

11

Instructions

Cooler #	Temp. (°C)	Sample #s

SAMPLER Sean Moore/Jose Lopez (BTS)
COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
Justin Gassaway-Steere / Parsons	10/22/24	1730	
	10/23/24	9:45	

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associ practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX wil directed in writing otherwise.

SAMPLE RECEIPT FORM 1

EMAX LABORATORIES, INC.

Type of Delivery	Airbill / Tracking Number	ECN 24J145
☒ Fedex ☐ UPS ☐ GSO ☐ Others	7794 4742 9723	Recipient Maria Rivera
☐ EMAX Courier ☐ Client Delivery		Date 10/23/24 Time 9:45

COC INSPECTION

☒ Client Name	☒ Client PM/FC	☒ Sampler Name	☒ Sampling Date/Time	☒ Sample ID	☒ Matrix
☐ Address	☒ Tel # / Fax #	☐ Courier Signature	☒ Analysis Required	☒ Preservative (if any)	☒ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required		

Note:

PACKAGING INSPECTION

Container	☒ Cooler	☐ Box	☐ Other		
Condition	☒ Custody Seal	☐ Intact	☐ Damaged		
Packaging	☒ Bubble Pack	☐ Styrofoam	☐ Popcorn	☐ Sufficient	☐ _____
Temperatures (Cool, ≤6 °C but not frozen)	☒ Cooler 1 4.6 °C	☐ Cooler 2 _____ °C	☐ Cooler 3 _____ °C	☐ Cooler 4 _____ °C	☐ Cooler 5 _____ °C
	☐ Cooler 6 _____ °C	☐ Cooler 7 _____ °C	☐ Cooler 8 _____ °C	☐ Cooler 9 _____ °C	☐ Cooler 10 _____ °C
Thermometer:	A - S/N 240412221	B - S/N _____	C - S/N _____	D - S/N 230044057	

Comments: ☐ Temperature is out of range. PM was informed IMMEDIATELY.

Note:

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
5	14	D7	Label reads: 10:15	R1
1	1-3	D6		R9
1-11	1-39	01/016		R1/R8

JSR 10/23

NB 10/23/24

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

NOTES/OBSERVATIONS:

SAMPLE MATRIX IS DRINKING WATER? ☐ YES ☒ NO

LEGEND:

☐ Continue to next page.

Code	Description- Sample Management
D1	Analysis is not indicated in label
D2	Analysis mismatch COC vs label
D3	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in _____
D5	Container -[improper] [leaking] [broken]
D6	Date/Time is not indicated in COC & label
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
D10	No initial/date on corrections in COC/label
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
D14	Bubble is >6mm
D15	No trip blank in cooler
D16	Preservation not indicated in label
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
D22	
D23	
D24	

Code	Description-Sample Management
R1	Proceed as indicated in ☒ COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
R4	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time + 1 min
R6	Adjust pH as necessary
R7	Filter and preserved as necessary
R8	Informed Client
R9	Use 12:00
R10	
R11	
R12	

REVIEWS:

Sample Labeling	Maria Rivera	Jocelyne Solis-Ramos
Date	10/23/24	10/23/24

SRF Jocelyne Solis-Ramos
Date 10/23/24

PM NB
Date 10/23/24

Outlook

RE: Titan 1-A request for sampling supplies

From Katherine.LaPierre@parsons.us <Katherine.LaPierre@parsons.us>
Date Wed 10/23/2024 3:12 PM
To Richard Beauvil <RBeauvil@emaxlabs.com>; Dilukshi Fernando <DFernando@emaxlabs.com>
Cc Jim Carter <JCarter@emaxlabs.com>

From the field team:

I double checked Blaine Tech's sampling sheets, and the COC is correct.

T1AMF-MW061_OCT24 was sampled at **1120**

T1AMF-MW062_OCT24 was sampled at **1015**

Based on what I gathered from the tech, his 1 in "61" may have looked like a 2, but the lab should be able to differentiate the samples based on sample time (there should NOT be two samples with a sample time of 1015).

Let me know if you need anything else!

Katherine LaPierre
Project Chemist / Technical Staff Manager
Austin, Texas
katherine.lapierre@parsons.us
Direct: +1 360-529-9351 / Mobile: +1 512-574-3105



From: Richard Beauvil <RBeauvil@emaxlabs.com>
Sent: Wednesday, October 23, 2024 4:34 PM
To: LaPierre, Katherine [US-US] <Katherine.LaPierre@parsons.us>; Dilukshi Fernando <DFernando@emaxlabs.com>
Cc: Jim Carter <JCarter@emaxlabs.com>
Subject: [EXTERNAL] Re: Titan 1-A request for sampling supplies

Hi Katherine,

Thank you. For sample #1, there is no time on the COC or label. For #5, COC reads 11:20 vs label 10:15. Please let me know which times are correct.

Outlook

RE: Titan 1-A request for sampling supplies

From Katherine.LaPierre@parsons.us <Katherine.LaPierre@parsons.us>
Date Wed 10/23/2024 2:53 PM
To Richard Beauvil <RBeauvil@emaxlabs.com>; Dilukshi Fernando <DFernando@emaxlabs.com>
Cc Jim Carter <JCarter@emaxlabs.com>

Please use a time of 12:00 for the trip blank.

I'm checking with the sampling team on the discrepancy for Sample 5 and will provide the correct collection time as soon as I hear back!

Katherine LaPierre
Project Chemist / Technical Staff Manager
Austin, Texas
katherine.lapierre@parsons.us
Direct: +1 360-529-9351 / Mobile: +1 512-574-3105

PARSONS

From: Richard Beauvil <RBeauvil@emaxlabs.com>
Sent: Wednesday, October 23, 2024 4:34 PM
To: LaPierre, Katherine [US-US] <Katherine.LaPierre@parsons.us>; Dilukshi Fernando <DFernando@emaxlabs.com>
Cc: Jim Carter <JCarter@emaxlabs.com>
Subject: [EXTERNAL] Re: Titan 1-A request for sampling supplies

Hi Katherine,

Thank you. For sample #1, there is no time on the COC or label. For #5, COC reads 11:20 vs label 10:15. Please let me know which times are correct.

Richard M. Beauvil

Project Manager/Safety Officer
3051 Fujita Street
Torrance, CA 90505
Tel: 310-618-8889 X118
rbeauvil@emaxlabs.com

EMAX is interested in your feedback; please provide your comments to:
customerservice@emaxlabs.com

Dilukshi Fernando

From: Katherine.LaPierre@parsons.us
Sent: Friday, October 25, 2024 8:16 AM
To: Richard Beauvil; Dilukshi Fernando
Cc: Jim Carter
Subject: RE: 24J145 login for your review.

Login looks good but I noticed the TAT is set to 7 days. We only need standard 21-day TAT for this SDG.

Thanks!

Katherine LaPierre
Project Chemist / Technical Staff Manager
Austin, Texas
katherine.lapierre@parsons.us
Direct: +1 360-529-9351 / Mobile: +1 512-574-3105

PARSONS

From: Richard Beauvil <RBeauvil@emaxlabs.com>
Sent: Thursday, October 24, 2024 6:12 PM
To: LaPierre, Katherine [US-US] <Katherine.LaPierre@parsons.us>; Dilukshi Fernando <DFernando@emaxlabs.com>
Cc: Jim Carter <JCarter@emaxlabs.com>
Subject: [EXTERNAL] 24J145 login for your review.

Richard M. Beauvil

Project Manager/Safety Officer
3051 Fujita Street
Torrance, CA 90505
Tel: 310-618-8889 X118
rbeauvil@emaxlabs.com

EMAX is interested in your feedback; please provide your comments to:
customerservice@emaxlabs.com

EMAX Holidays Schedule Update:

Veterans' Day (Monday 11/11/2024)

Thanksgiving (Thursday/Friday 11/28-11/29/2024)



ORIGIN ID:AUNA (619) 515-5130
APHRILL ESQUELL
PARSONS
100 PRINGLE AVE STE 525

WALNUT CREEK, CA 94596
UNITED STATES US

SHIP DATE: 22OCT24
ACTWGT: 37.95 LB
CAD: 6571674/ROSA2570
DIMS: 26x14x13 IN

BILL THIRD PARTY

Part # 156297-435 RRDB EXP 08/25

TO EMAX LABS

3051 FUJITA ST

TORRANCE CA 90505

(310) 618-8889 REF:

INV:

PO: DEPT:

945
A
sealed

FedEx
Express

WED - 23 OCT 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7794 4742 9723

92 HHRA

AHS
90505
CA-US LAX

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than LOQ/RL but greater than LOD/MDL/DL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

SUMMARY PACKAGE
VOLATILE ORGANICS

CASE NARRATIVE

Client : PARSONS

Project: TITAN 1-A

SDG : 24J145

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

A total of eleven(11) water samples were received on 10/23/24 to be analyzed for Volatile Organics by GC/MS in accordance with Method SW5030C/8260C and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. For this SDG, the following were noted: Target analytes in CCV(Data File ID: RIW478) were within calibration acceptance criteria. Target analytes in CCV(Data File ID: RIW489) were within calibration acceptance criteria. Target analytes in CCV(Data File ID: RIW493) were within calibration acceptance criteria.1,1-Dichloroethene was detected biased high(%D=21.1) in CCV(Data File ID: RIW494A). However, note that 1,1-Dichloroethene was not detected in the associated field sample(s). Target analytes in CCV(Data File ID: RIW511) were within calibration acceptance criteria. Target analytes in CCV(Data File ID: RIW515A) were within calibration acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, three(3) method blanks were analyzed. VO06J22B, VO06J23B and VO06J24B were compliant to project requirement. Refer to sample result summary forms for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, three(3) sets of LCS/LCD were analyzed. Lab control sample was prepared and analyzed at a frequency required by the project. All analytes were within LCS limits. RPD for some pairs were slightly above 20% QC limit. Refer to LCS summary forms for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. 24J145-11M/24J145-11S - all analytes were within MS QC limits. Refer to Matrix QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. For this SDG, all surrogate recoveries were within QC limits except for 1,2-Dichloroethane-D4 in J145-02, J145-07, J145-10 and Toluene-D8 in J145-11 were slightly outside the QC limit. All other surrogates in sample were within limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : TITAN 1-A

SDG NO. : 24J145
Instrument ID : 06

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1W	VO06J22L	1	NA	10/24/2419:32	10/24/2419:32	RIW479	RIW364	VO06J22	Lab Control Sample (LCS)
LCD1W	VO06J22C	1	NA	10/24/2419:58	10/24/2419:58	RIW480	RIW364	VO06J22	LCS Duplicate
MBLK1W	VO06J22B	1	NA	10/24/2420:50	10/24/2420:50	RIW482	RIW364	VO06J22	Method Blank
T1AMF-MW053_OCT24	24J145-02	1	NA	10/24/2423:02	10/24/2423:02	RIW487	RIW364	VO06J22	Field Sample
T1AMF-MW066_OCT24	24J145-03	1	NA	10/25/2408:13	10/25/2408:13	RIW488	RIW364	VO06J22	Field Sample
LCS2W	VO06J23L	1	NA	10/26/2415:08	10/26/2415:08	RIW494	RIW364	VO06J23	Lab Control Sample (LCS)
LCD2W	VO06J23C	1	NA	10/26/2415:34	10/26/2415:34	RIW495	RIW364	VO06J23	LCS Duplicate
MBLK2W	VO06J23B	1	NA	10/26/2416:27	10/26/2416:27	RIW497	RIW364	VO06J23	Method Blank
T1AMF-MW059_OCT24	24J145-11	1	NA	10/26/2416:53	10/26/2416:53	RIW498	RIW364	VO06J23	Field Sample
T1AMF-MW062_OCT24	24J145-04	1	NA	10/26/2417:19	10/26/2417:19	RIW499	RIW364	VO06J23	Field Sample
T1AMF-MW061_OCT24	24J145-05	1	NA	10/26/2417:45	10/26/2417:45	RIW500	RIW364	VO06J23	Field Sample
T1AMF-MW030_OCT24	24J145-06	1	NA	10/26/2418:11	10/26/2418:11	RIW501	RIW364	VO06J23	Field Sample
T1AMF-MW030_OCT24_FD	24J145-07	1	NA	10/26/2418:38	10/26/2418:38	RIW502	RIW364	VO06J23	Field Sample
T1AMF-MW057_OCT24	24J145-08	1	NA	10/26/2419:04	10/26/2419:04	RIW503	RIW364	VO06J23	Field Sample
T1AMF-MW048_OCT24	24J145-09	1	NA	10/26/2419:30	10/26/2419:30	RIW504	RIW364	VO06J23	Field Sample
T1AMF-MW060_OCT24	24J145-10	1	NA	10/26/2419:57	10/26/2419:57	RIW505	RIW364	VO06J23	Field Sample
T1AMF-MW059_OCT24MS	24J145-11M	1	NA	10/26/2421:42	10/26/2421:42	RIW509	RIW364	VO06J23	Matrix Spike Sample (MS)
T1AMF-MW059_OCT24MSD	24J145-11S	1	NA	10/26/2422:08	10/26/2422:08	RIW510	RIW364	VO06J23	MS Duplicate (MSD)
LCS3W	VO06J24L	1	NA	10/28/2412:04	10/28/2412:04	RIW493A	RIW364	VO06J24	Lab Control Sample (LCS)
LCD3W	VO06J24C	1	NA	10/28/2411:38	10/28/2411:38	RIW495A	RIW364	VO06J24	LCS Duplicate
MBLK3W	VO06J24B	1	NA	10/28/2414:41	10/28/2414:41	RIW497A	RIW364	VO06J24	Method Blank
T1AMF-TB001_OCT24	24J145-01	1	NA	10/28/2417:45	10/28/2417:45	RIW504A	RIW364	VO06J24	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/21/24 12:00
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/28/24 17:45
Sample ID	: T1AMF-TB001_OCT24	Date Analyzed:	10/28/24 17:45
Lab Samp ID:	24J145-01	Dilution Factor:	1
Lab File ID:	RIW504A	Matrix:	WATER
Ext Btch ID:	VO06J24	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.9	10.0	109	81-118
4-Bromofluorobenzene	10.2	10.0	102	85-114
Toluene-d8	9.23	10.0	92	89-112
Dibromofluoromethane	8.88	10.0	89	80-119

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: PMai	Analyzed by	: PMai

Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/21/24 15:25
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/24/24 23:02
Sample ID	: T1AMF-MW053_OCT24	Date Analyzed:	10/24/24 23:02
Lab Samp ID:	24J145-02	Dilution Factor:	1
Lab File ID:	RIW487	Matrix:	WATER
Ext Btch ID:	VO06J22	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	12.3	10.0	123*	81-118
4-Bromofluorobenzene	10.3	10.0	103	85-114
Toluene-d8	10.0	10.0	100	89-112
Dibromofluoromethane	11.3	10.0	113	80-119

Notes:

Sample Amount	: 25ml	Final Volume :	25ml
Prepared by	: PMai	Analyzed by :	PMai

Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/21/24 16:10
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/25/24 08:13
Sample ID	: T1AMF-MW066_OCT24	Date Analyzed:	10/25/24 08:13
Lab Samp ID:	24J145-03	Dilution Factor:	1
Lab File ID:	RIW488	Matrix:	WATER
Ext Btch ID:	VO06J22	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.7	10.0	117	81-118
4-Bromofluorobenzene	9.43	10.0	94	85-114
Toluene-d8	10.7	10.0	107	89-112
Dibromofluoromethane	11.2	10.0	112	80-119

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: PMai	Analyzed by	: PMai

Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/22/24 10:15
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/26/24 17:19
Sample ID	: T1AMF-MW062_OCT24	Date Analyzed:	10/26/24 17:19
Lab Samp ID:	24J145-04	Dilution Factor:	1
Lab File ID:	RIW499	Matrix:	WATER
Ext Btch ID:	VO06J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.4	10.0	114	81-118
4-Bromofluorobenzene	9.84	10.0	98	85-114
Toluene-d8	8.94	10.0	89	89-112
Dibromofluoromethane	9.05	10.0	90	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/22/24 11:20
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/26/24 17:45
Sample ID	: T1AMF-MW061_OCT24	Date Analyzed:	10/26/24 17:45
Lab Samp ID:	24J145-05	Dilution Factor:	1
Lab File ID:	RIW500	Matrix:	WATER
Ext Btch ID:	VO06J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.9	10.0	109	81-118
4-Bromofluorobenzene	10.5	10.0	105	85-114
Toluene-d8	9.06	10.0	91	89-112
Dibromofluoromethane	9.18	10.0	92	80-119

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: DNguye	Analyzed by	: DNguye

Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/22/24 12:25
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/26/24 18:11
Sample ID	: T1AMF-MW030_OCT24	Date Analyzed:	10/26/24 18:11
Lab Samp ID:	24J145-06	Dilution Factor:	1
Lab File ID:	RIW501	Matrix:	WATER
Ext Btch ID:	VQ06J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.6	10.0	116	81-118
4-Bromofluorobenzene	9.65	10.0	97	85-114
Toluene-d8	8.97	10.0	90	89-112
Dibromofluoromethane	9.44	10.0	94	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/22/24 12:30
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/26/24 18:38
Sample ID	: T1AMF-MW030_OCT24_FD	Date Analyzed:	10/26/24 18:38
Lab Samp ID:	24J145-07	Dilution Factor:	1
Lab File ID:	RIW502	Matrix:	WATER
Ext Btch ID:	VO06J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	12.8	10.0	128*	81-118
4-Bromofluorobenzene	9.68	10.0	97	85-114
Toluene-d8	9.09	10.0	91	89-112
Dibromofluoromethane	9.73	10.0	97	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/22/24 13:19
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/26/24 19:04
Sample ID	: T1AMF-MW057_OCT24	Date Analyzed:	10/26/24 19:04
Lab Samp ID:	24J145-08	Dilution Factor:	1
Lab File ID:	RIW503	Matrix:	WATER
Ext Btch ID:	VO06J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	0.21J	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.8	10.0	118	81-118
4-Bromofluorobenzene	9.59	10.0	96	85-114
Toluene-d8	8.97	10.0	90	89-112
Dibromofluoromethane	9.25	10.0	93	80-119

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: DNguye	Analyzed by	: DNguye

Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/22/24 14:19
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/26/24 19:30
Sample ID	: T1AMF-MW048_OCT24	Date Analyzed:	10/26/24 19:30
Lab Samp ID:	24J145-09	Dilution Factor:	1
Lab File ID:	RIW504	Matrix:	WATER
Ext Btch ID:	VO06J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.4	10.0	114	81-118
4-Bromofluorobenzene	10.4	10.0	104	85-114
Toluene-d8	9.09	10.0	91	89-112
Dibromofluoromethane	9.02	10.0	90	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/22/24 15:10
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/26/24 19:57
Sample ID	: T1AMF-MW060_OCT24	Date Analyzed:	10/26/24 19:57
Lab Samp ID:	24J145-10	Dilution Factor:	1
Lab File ID:	RIW505	Matrix:	WATER
Ext Btch ID:	VO06J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	1.4	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	12.4	10.0	124*	81-118
4-Bromofluorobenzene	9.87	10.0	99	85-114
Toluene-d8	9.08	10.0	91	89-112
Dibromofluoromethane	9.42	10.0	94	80-119

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: DNguye	Analyzed by	: DNguye

Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/22/24 16:09
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/26/24 16:53
Sample ID	: T1AMF-MW059_OCT24	Date Analyzed:	10/26/24 16:53
Lab Samp ID:	24J145-11	Dilution Factor:	1
Lab File ID:	RIW498	Matrix:	WATER
Ext Btch ID:	VOO6J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	0.31J	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	6.8	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.4	10.0	114	81-118
4-Bromofluorobenzene	9.52	10.0	95	85-114
Toluene-d8	8.63	10.0	86*	89-112
Dibromofluoromethane	9.03	10.0	90	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

QC SUMMARIES

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 20:50
Project	: TITAN 1-A	Date Received:	10/24/24
Batch No.	: 24J145	Date Extracted:	10/24/24 20:50
Sample ID	: MBLK1W	Date Analyzed:	10/24/24 20:50
Lab Samp ID:	VO06J22B	Dilution Factor:	1
Lab File ID:	RIW482	Matrix:	WATER
Ext Btch ID:	VO06J22	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.5	10.0	115	81-118
4-Bromofluorobenzene	10.3	10.0	103	85-114
Toluene-d8	10.1	10.0	101	89-112
Dibromofluoromethane	10.9	10.0	109	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : PMai Analyzed by : PMai
Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J145
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: VO06J22B	VO06J22L	VO06J22C
LAB FILE ID	: RIW482	RIW479	RIW480
DATE PREPARED	: 10/24/24 20:50	10/24/24 19:32	10/24/24 19:58
DATE ANALYZED	: 10/24/24 20:50	10/24/24 19:32	10/24/24 19:58
PREP BATCH	: VO06J22	VO06J22	VO06J22
CALIBRATION REF	: RIW364	RIW364	RIW364

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichloroethene	ND	10.0	9.94	99	10.0	9.65	97	3	71-131	20
1,4-Dichlorobenzene	ND	10.0	10.6	106	10.0	10.4	104	2	79-118	20
Benzene	ND	10.0	10.4	104	10.0	9.94	99	5	79-120	20
cis-1,2-Dichloroethene	ND	10.0	10.2	102	10.0	9.74	97	5	78-123	20
Ethylbenzene	ND	10.0	10.1	101	10.0	9.99	100	1	79-121	20
m,p-Xylene	ND	20.0	20.2	101	20.0	19.7	99	3	80-121	20
o-Xylene	ND	10.0	9.96	100	10.0	9.73	97	2	78-122	20
Toluene	ND	10.0	10.0	100	10.0	9.94	99	1	80-121	20
Trans-1,2-Dichloroethene	ND	10.0	9.58	96	10.0	9.02	90	6	75-124	20
Trichloroethene	ND	10.0	9.99	100	10.0	9.82	98	2	79-123	20
Vinyl Chloride	ND	10.0	10.2	102	10.0	8.47	85	19	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	11.5	115	10.0	10.8	108	81-118
4-Bromofluorobenzene	10.0	10.7	107	10.0	10.7	107	85-114
Toluene-d8	10.0	10.1	101	10.0	10.4	104	89-112
Dibromofluoromethane	10.0	10.9	109	10.0	10.8	108	80-119

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/26/24 16:27
Project	: TITAN 1-A	Date Received:	10/26/24
Batch No.	: 24J145	Date Extracted:	10/26/24 16:27
Sample ID	: MBLK2W	Date Analyzed:	10/26/24 16:27
Lab Samp ID:	VO06J23B	Dilution Factor:	1
Lab File ID:	RIW497	Matrix:	WATER
Ext Btch ID:	VO06J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.8	10.0	108	81-118
4-Bromofluorobenzene	9.90	10.0	99	85-114
Toluene-d8	9.21	10.0	92	89-112
Dibromofluoromethane	9.10	10.0	91	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J145
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK2W	LCS3W	LCD2W
LAB SAMPLE ID	: VO06J23B	VO06J23L	VO06J23C
LAB FILE ID	: RIW497	RIW494	RIW495
DATE PREPARED	: 10/26/24 16:27	10/26/24 15:08	10/26/24 15:34
DATE ANALYZED	: 10/26/24 16:27	10/26/24 15:08	10/26/24 15:34
PREP BATCH	: VO06J23	VO06J23	VO06J23
CALIBRATION REF	: RIW364	RIW364	RIW364

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichloroethene	ND	10.0	12.5	125	10.0	10.1	101	21*	71-131	20
1,4-Dichlorobenzene	ND	10.0	9.44	94	10.0	10.6	106	12	79-118	20
Benzene	ND	10.0	10.8	108	10.0	10.4	104	4	79-120	20
cis-1,2-Dichloroethene	ND	10.0	10.5	105	10.0	9.39	94	11	78-123	20
Ethylbenzene	ND	10.0	10.6	106	10.0	10.2	102	4	79-121	20
m,p-Xylene	ND	20.0	20.8	104	20.0	20.3	102	2	80-121	20
o-Xylene	ND	10.0	11.0	110	10.0	10.0	100	10	78-122	20
Toluene	ND	10.0	10.9	109	10.0	10.3	103	6	80-121	20
Trans-1,2-Dichloroethene	ND	10.0	10.7	107	10.0	9.11	91	16	75-124	20
Trichloroethene	ND	10.0	9.62	96	10.0	9.26	93	4	79-123	20
Vinyl Chloride	ND	10.0	9.45	95	10.0	7.64	76	21*	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	10.9	109	10.0	9.56	96	81-118
4-Bromofluorobenzene	10.0	8.73	87	10.0	10.0	100	85-114
Toluene-d8	10.0	9.95	100	10.0	9.31	93	89-112
Dibromofluoromethane	10.0	9.41	94	10.0	8.46	85	80-119

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate
* Out of QC Limit

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/28/24 14:41
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J145	Date Extracted:	10/28/24 14:41
Sample ID	: MBLK3W	Date Analyzed:	10/28/24 14:41
Lab Samp ID:	VO06J24B	Dilution Factor:	1
Lab File ID:	RIW497A	Matrix:	WATER
Ext Btch ID:	VO06J24	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.9	10.0	109	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	9.20	10.0	92	89-112
Dibromofluoromethane	8.98	10.0	90	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : PMai Analyzed by : PMai
Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J145
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK3W	LCS2W	LCD3W
LAB SAMPLE ID	: VO06J24B	VO06J24L	VO06J24C
LAB FILE ID	: RIW497A	RIW493A	RIW495A
DATE PREPARED	: 10/28/24 14:41	10/28/24 12:04	10/28/24 11:38
DATE ANALYZED	: 10/28/24 14:41	10/28/24 12:04	10/28/24 11:38
PREP BATCH	: VO06J24	VO06J24	VO06J24
CALIBRATION REF	: RIW364	RIW364	RIW364

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichloroethene	ND	10.0	8.69	87	10.0	11.0	110	23*	71-131	20
1,4-Dichlorobenzene	ND	10.0	9.57	96	10.0	11.0	110	14	79-118	20
Benzene	ND	10.0	8.91	89	10.0	11.2	112	23*	79-120	20
cis-1,2-Dichloroethene	ND	10.0	7.94	79	10.0	9.88	99	22*	78-123	20
Ethylbenzene	ND	10.0	9.10	91	10.0	11.0	110	19	79-121	20
m,p-Xylene	ND	20.0	17.9	90	20.0	21.7	109	19	80-121	20
o-Xylene	ND	10.0	8.90	89	10.0	10.8	108	19	78-122	20
Toluene	ND	10.0	8.94	89	10.0	10.8	108	19	80-121	20
Trans-1,2-Dichloroethene	ND	10.0	7.67	77	10.0	9.68	97	23*	75-124	20
Trichloroethene	ND	10.0	8.05	81	10.0	9.68	97	18	79-123	20
Vinyl Chloride	ND	10.0	9.08	91	10.0	8.67	87	5	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	10.0	100	10.0	10.4	104	81-118
4-Bromofluorobenzene	10.0	10.5	105	10.0	10.0	100	85-114
Toluene-d8	10.0	9.44	94	10.0	9.16	92	89-112
Dibromofluoromethane	10.0	8.47	85	10.0	8.69	87	80-119

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate
* Out of QC Limit

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J145
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: T1AMF-MW059_OCT24	T1AMF-MW059_OCT24MS	T1AMF-MW059_OCT24MSD
LAB SAMPLE ID	: 24J145-11	24J145-11M	24J145-11S
LAB FILE ID	: RIW498	RIW509	RIW510
DATE PREPARED	: 10/26/24 16:53	10/26/24 21:42	10/26/24 22:08
DATE ANALYZED	: 10/26/24 16:53	10/26/24 21:42	10/26/24 22:08
PREP BATCH	: VO06J23	VO06J23	VO06J23
CALIBRATION REF:	RIW364	RIW364	RIW364

ACCESSION:

PARAMETERS	PSResult (ug/L)	SpikeAmt (ug/L)	MSResult (ug/L)	MSRec (%)	SpikeAmt (ug/L)	MSDResult (ug/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichloroethene	ND	10.0	10.1	101	10.0	9.92	99	2	71-131	20
1,4-Dichlorobenzene	ND	10.0	10.5	105	10.0	9.89	99	6	79-118	20
Benzene	ND	10.0	10.3	103	10.0	10.4	104	1	79-120	20
cis-1,2-Dichloroethene	0.314J	10.0	9.57	93	10.0	9.71	94	1	78-123	20
Ethylbenzene	ND	10.0	10.4	104	10.0	10.1	101	3	79-121	20
m,p-Xylene	ND	20.0	20.8	104	20.0	20.1	101	3	80-121	20
o-Xylene	ND	10.0	10.5	105	10.0	10.3	103	2	78-122	20
Toluene	ND	10.0	10.3	103	10.0	10.1	101	2	80-121	20
trans-1,2-Dichloroethene	ND	10.0	8.86	89	10.0	8.40	84	5	75-124	20
Trichloroethene	6.77	10.0	15.0	82	10.0	15.1	83	1	79-123	20
Vinyl chloride	ND	10.0	6.58	66	10.0	7.06	71	7	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	MSResult (ug/L)	MSRec (%)	SpikeAmt (ug/L)	MSDResult (ug/L)	MSDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	11.3	113	10.0	11.4	114	81-118
4-Bromofluorobenzene	10.0	9.72	97	10.0	9.68	97	85-114
Toluene-d8	10.0	9.07	91	10.0	9.43	94	89-112
Dibromofluoromethane	10.0	8.84	88	10.0	9.11	91	80-119

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

INITIAL CALIBRATIONS

FORM 5

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : ICAL

Lab Code : EMAX SDG No : ICAL

Lab File ID: RIW358 BFB Injection Date: 10/19/24

Instrument ID: 06 BFB Injection Time: 15:14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	15.276
75	30 - 60% of mass 95	42.848
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	5.201
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	75.566
175	5 - 9% of mass 174	5.084(6.73)1
176	95 - 101% % of mass 174	74.029(97.97)1
177	5 - 9% % of mass 176	4.277(5.78)2

1 Value is % mass 174 2 value is % mass 176

This check applies to the following Calibration Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	VO06J191	RIW359	10/19/24	15:59
2	VSTD0.5	VO06J192	RIW360	10/19/24	16:26
3	VSTD1	VO06J193	RIW361	10/19/24	16:53
4	VSTD2	VO06J194	RIW362	10/19/24	17:19
5	VSTD5	VO06J195	RIW363	10/19/24	17:45
6	VSTD10	VO06J196	RIW364	10/19/24	18:11
7	VSTD20	VO06J197	RIW365	10/19/24	18:38
8	VSTD30	VO06J198	RIW366	10/19/24	19:04
9	VSTD50	VO06J199	RIW367	10/19/24	19:30
10	VSTD100	VO06J1910	RIW368	10/19/24	19:57
11	VSTD10	IVO06J191	RIW371	10/19/24	21:15

11/15/24

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :06
Beginning DateTime :10/19/24 15:59
Spike Units :PPB
IC File :RIW364

Column Spec :RTX502.2 ID :0.25MM
Ending DateTime :10/19/24 19:57
APChem Method :V006J19

M	IDX	Parameters	3 15:59 RIW359	5 16:26 RIW360	1 16:53 RIW361	2 17:19 RIW362	5 17:45 RIW363	10 18:11 RIW364	20 18:38 RIW365	30 19:04 RIW366	50 19:30 RIW367	100 19:57 RIW368	Av_RRF	% RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	9.8425
	2	Dichlorodifluoromethane	0.443	0.330	0.318	0.353	0.360	0.425	0.352	0.325	0.330	0.322	0.356	12.33	1.5731
	3	Chloromethane	0.264	0.308	0.318	0.352	0.369	0.427	0.386	0.342	0.359	0.349	0.346	12.43	1.7923
	4	Vinyl chloride	------	0.269	0.258	0.276	0.298	0.361	0.294	0.254	0.251	------	0.277	14.95	1.8999
	5	Bromomethane	0.302	0.177	0.218	0.230	0.257	0.302	0.260	0.240	0.247	0.259	0.252	13.23	2.3335
	6	Chloroethane	0.157	0.161	0.182	0.185	0.198	0.234	0.201	0.186	0.196	0.199	0.191	11.28	2.4204
	7	Dichlorofluoromethane	0.438	0.469	0.462	0.412	0.472	0.554	0.446	0.434	0.441	0.429	0.468	10.00	2.4599
	8	Trichlorofluoromethane	0.394	0.300	0.317	0.347	0.380	0.452	0.394	0.371	0.385	0.371	0.371	11.49	2.6810
5	8	Acrolein	------	0.010	0.011	0.010	0.010	0.012	0.009	0.010	0.010	0.011	0.010	5.97	3.2040
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	0.263	0.196	0.204	0.165	0.211	0.260	0.205	0.206	0.212	0.206	0.213	13.21	3.2555
5	11	Acetone	------	0.030	0.035	0.031	0.030	0.033	0.030	0.029	0.030	0.031	0.031	8.01	3.2603
	12	1,1-Dichloroethene	0.531	0.435	0.445	0.372	0.458	0.539	0.439	0.440	0.435	0.433	0.453	10.84	3.4386
25	13	tert-Butyl alcohol	------	------	0.008	0.006	0.009	0.010	0.009	0.009	------	------	0.008	12.67	3.5860
	14	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	15	Methyl acetate	0.022	0.022	0.022	0.021	0.020	0.021	0.021	0.019	0.020	0.022	0.021	4.26	3.6643
	16	Iodomethane	0.483	0.435	0.450	0.403	0.482	0.556	0.460	0.455	0.455	0.461	0.464	8.54	3.8637
	17	Allyl chloride	0.180	0.176	0.172	0.153	0.179	0.212	0.178	0.182	0.187	0.182	0.181	8.24	3.9874
	18	Methylene chloride	0.365	0.321	0.320	0.285	0.335	0.388	0.324	0.325	0.325	0.332	0.332	8.33	4.1573
	19	Carbon disulfide	------	------	0.517	0.535	0.562	0.715	0.563	0.512	------	------	0.567	13.30	4.1313
5	20	Acrylonitrile	0.038	0.035	0.038	0.040	0.043	0.048	0.042	0.042	0.043	0.044	0.041	8.82	4.3984
	21	tert-Butyl methyl ether (MTBE)	0.485	0.458	0.469	0.405	0.495	0.578	0.476	0.480	0.470	0.501	0.482	9.00	4.4425
	22	trans-1,2-Dichloroethene	0.318	0.333	0.324	0.274	0.338	0.397	0.324	0.329	0.330	0.328	0.329	8.57	4.6564
	23	Isopropyl ether (DIPE)	0.805	0.822	0.854	0.763	0.933	1.095	0.911	0.913	0.899	0.889	0.895	9.09	5.3253
	24	Vinyl acetate	------	0.256	0.260	0.288	0.316	0.379	0.335	0.328	0.332	0.332	0.311	14.53	5.5574
	25	1,1-Dichloroethane	0.526	0.491	0.511	0.421	0.510	0.591	0.492	0.500	0.498	0.501	0.504	8.18	5.4784
25	26	2-Butanol	------	------	------	0.007	0.008	0.009	0.009	0.009	0.009	0.009	0.009	10.55	6.0378
	27	tert-Butyl ethyl ether (ETBE)	0.591	0.642	0.677	0.604	0.672	0.764	0.645	0.650	0.642	0.729	0.662	7.94	6.2250
5	28	2-Butanone	------	0.034	0.051	0.048	0.054	0.061	0.054	0.054	0.055	0.057	0.052	14.55	6.5010
	29	2,2-Dichloropropane	------	0.317	0.309	0.280	0.317	0.377	0.301	0.291	0.282	0.245	0.302	11.80	6.7504
	30	cis-1,2-Dichloroethene	0.343	0.310	0.328	0.274	0.328	0.381	0.320	0.326	0.327	0.336	0.327	8.13	6.6773
	31	Chloroform	0.581	0.531	0.502	0.418	0.493	0.571	0.481	0.484	0.481	0.492	0.503	8.43	6.9840
	32	Bromochloromethane	0.124	0.134	0.133	0.119	0.142	0.166	0.139	0.143	0.142	0.151	0.139	8.48	7.2819
	33	Tetrahydrofuran	------	0.030	0.038	0.028	0.030	0.029	0.027	0.028	0.028	0.032	0.030	10.62	7.0813
5	34	tert-Amyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	10.86	7.7845
	35	Dibromofluoromethane	------	0.221	0.205	0.237	0.229	0.314	0.257	0.251	------	------	0.245	0.00	0.0000
	36	1,1,1-Trichloroethane	0.468	0.401	0.394	0.330	0.402	0.471	0.391	0.392	0.390	0.378	0.402	10.25	7.8082
	37	Cyclohexane	0.613	0.462	0.473	0.467	0.497	0.592	0.513	0.467	0.472	0.462	0.502	11.11	8.2088
	38	2,2,4-Trimethylpentane	------	------	------	------	------	------	------	------	------	------	0.502	11.11	8.1900
	39	1,1-Dichloropropene	0.165	0.141	0.152	0.119	0.142	0.168	0.145	0.147	0.149	0.151	0.148	9.27	8.5821
	40	Carbon tetrachloride	0.342	0.314	0.319	0.273	0.336	0.397	0.333	0.331	0.343	0.319	0.327	9.00	8.7562
	41	tert-Amyl methyl ether (TAME)	0.534	0.538	0.559	0.497	0.577	0.693	0.558	0.558	0.563	0.547	0.560	7.54	8.9323
	42	1,2-Dichloroethane-d4	0.151	0.154	0.145	0.125	0.163	0.203	0.177	0.177	------	------	0.176	14.3	8.9590
	43	1,2-Dichloroethane	0.121	0.135	0.139	0.103	0.133	0.226	0.177	0.216	0.208	0.215	0.204	11.62	9.1546
	44	Benzene	1.122	1.182	1.217	1.068	1.241	1.407	1.159	1.175	1.140	1.152	1.159	12.05	9.1378
	45	Trichloroethene	0.286	0.302	0.301	0.235	0.316	0.366	0.309	0.310	0.308	0.306	0.306	9.05	10.4317
	46	Methylcyclohexane	0.593	0.621	0.591	0.525	0.603	0.689	0.618	0.569	0.565	0.544	0.624	14.68	10.5135
	47	1,2-Dichloropropane	0.226	0.238	0.249	0.221	0.257	0.296	0.255	0.260	0.255	0.264	0.252	8.38	10.7924
20	48	1,4-Dioxane	------	------	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	11.50	11.3366
	49	Bromodichloromethane	0.324	0.329	0.327	0.285	0.330	0.379	0.322	0.324	0.315	0.324	0.326	7.01	11.3328
	50	Dibromomethane	0.105	0.131	0.123	0.106	0.121	0.142	0.120	0.123	0.121	0.127	0.122	6.82	11.3104
	51	2-Chloroethyl vinyl ether	------	0.086	0.082	0.067	0.078	0.093	0.081	0.084	0.083	0.088	0.083	8.53	11.8385
5	52	4-Methyl-2-pentanone	0.100	0.119	0.140	0.155	0.152	0.173	0.146	0.142	0.140	0.125	0.139	14.61	11.9878
	53	cis-1,3-Dichloropropene	0.304	0.382	0.381	0.344	0.412	0.484	0.403	0.403	0.393	0.401	0.391	11.87	12.3042
	54	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	15.3387
	55	Toluene-d8	------	1.256	1.214	1.396	1.339	1.795	1.352	1.323	------	------	1.382	13.88	12.7034
	56	Toluene	1.590	1.707	1.754	1.517	1.759	1.984	1.602	1.595	1.431	------	1.660	8.98	12.9413
	57	Ethyl methacrylate	0.220	0.239	0.267	0.244	0.279	0.329	0.273	0.282	0.273	0.286	0.269	11.16	13.2858
	58	trans-1,3-Dichloropropene	0.286	0.369	0.393	0.353	0.406	0.484	0.398	0.405	0.402	0.407	0.380	12.61	13.2374
	59	1,1,2-Trichloroethane	0.175	0.213	0.221	0.177	0.212	0.251	0.206	0.210	0.210	0.213	0.209	8.43	13.4314
5	60	2-Hexanone	0.101	0.101	0.110	0.129	0.127	0.143	0.121	0.118	0.119	0.113	0.119	10.83	13.4830
	61	1,3-Dichloropropane	0.306	0.356	0.372	0.341	0.384	0.455	0.376	0.381	0.372	0.376	0.378	10.10	13.5848
	62	Tetrachloroethene	0.353	0.359	0.351	0.276	0.357	0.424	0.350	0.351	0.345	0.346	0.355	9.93	13.9318
	63	Dibromochloromethane	0.230	0.272	0.251	0.222	0.267	0.308	0.251	0.260	0.257	0.264	0.258	8.14	14.3323
	64	2-Ethyl-1-butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	65	1,2-Dibromoethane	0.144	0.177	0.181	0.169	0.204	0.237	0.197	0.200	0.197	0.200	0.191	12.90	14.6720
	66	Chlorohexane	0.670	0.778	0.743	0.564	0.693	0.768	0.646	0.687	0.657	0.559	0.676	11.14	15.0223
	67	Chlorobenzene	0.826	0.919	0.926	0.796	0.980	1.168	0.920	0.928	0.927	0.727	0.907	11.92	15.4037
	68	1,1,1,2-Tetrachloroethane	0.307	0.278	0.292	0.258	0.301	0.368	0.305	0.313	0.312	0.318	0.306	9.38	15.4945
	69	Ethylbenzene	1.740	1.913	1.933	1.640	1.902	2.264	1.725	1.690	1.405	------	1.791	12.23	15.5132
2	70	m-Xylene & p-Xylene	1.330	1.430	1.438	1.252	1.402	1.674	1.298	1.273	------	------	1.341	11.99	15.6470
	71	o-Xylene	1.418	1.388	1.375	1.185	1.404	1.687	1.268	1.253	------	------	1.354	9.54	15.9685
	72	Styrene	0.828	1.024	0.991	0.868	1.034	1.199	0.974	1.001	0.985	0.753	0.966	12.84	16.4382
	73	Isopropylbenzene	1.968	1.718	1.825	1.532	1.879	2.099	1.680	1.656	1.407	------	1.752	12.29	16.9858
	74	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	19.2849
	75	Bromoform	------	0.283	0.271	0.243	0.299	0.362	0.323	0.334	0.348	0.346	0.312	12.92	16.9744
	76	1,1,2,2-Tetrachloroethane	0.405	0.509	0.504	0.488	0.577	0.665	0.562	0.577	0.582	0.569	0.544	12.96	17.2729
	77	4-Bromofluorobenzene	------	------	------	1.014	0.977	1.384	1.110	1.098	------	------	1.116	14.29	17.3715
	78	1,2,3-Trichloropropane	0.101	0.141	0.150	0.121	0.138	0.159	0.139	0.145	0.151	0.148	0.139	12.14	17.4635
	79	trans-1,4-Dichloro-2-butene	0.094	0.142	0.125	0.101	0.125	0.152	0.135	0.133	0.141	0.141	0.129	14.30	17.6039
	80	n-Propylbenzene	5.131	6.111	6.055	4.669	5.841	6.732	5.433	4.652	------	------	5.578	13.24	17.5990
	81	Bromobenzene	0.634	0.916	0.905	0.707	0.916	1.101	0.909	0.911	0.958	0.949	0.891	14.69	17.6377
	82	1,3,5-Trimethylbenzene	3.143	3.708	3.682	2.923	3.675	4.260	3.457	3.382	3.064	------	3.477	11.80	17.8307
	83	2-Chlorotoluene	3.090	3.614	3.632	2.915	3.697	3.905	3.236	3.218	2.970	------	3.364	10.59	17.8160
	84	4-Chlorotoluene	2.324	2.906	2.906	2.331	2.887	3.713	3.035	3.038	2.855	------	2.888	12.32	17.8858
	85	tert-Butylbenzene	0.630	0.757	0.786	0.629	0.803	0.950	0.784	0.782	0.811	0.796	0.774	11.60	18.0958
	86	1,2,4-Trimethylbenzene	3.043	3.762	3.599	2.871	3.600	4.152	3.353	3.317	2.905	------	3.401	12.47	18.2263
	87	sec-Butylbenzene	4.871	5.112	5.085	3.997	5.048	5.881	4.618	4.116	------	------	4.841	12.46	18.3320
	88	p-Isopropyltoluene	4.019	4.040	4.202	3.202	4.130	4.700	3.655	3.530	2.990	------	3.830	13.96	18.3693
	89	1,3-Dichlorobenzene	1.474	1.880	1.741	1.477	1.863	2.161	1.769	1.738	1.773	1.453	1.733	10.70	18.7916
	90	1,2,3-Trimethylbenzene	2.874	3.070	3.115	2.665	3.211	3.683	2.992	2.908	2.606	------	3.005	10.74	18.8709
	91	1,4-Dichlorobenzene	1.527	1.700	1.690	1.461	1.770	2.115	1.755	1.705	------	1.426	1.673	12.63	18.9188
	92	n-Butylbenzene	4.237	3.888	3.857	2.950	3.958	4.515	3.513	3.253	------	------	3.769	13.67	19.1421
	93	1,2-Dichlorobenzene	1.254	1.422	1.421	1.251	1.481	1.743	1.405	1.412	1.388	1.300	1.413	10.06	19.3109
	94	1,2-Dibromo-3-chloropropane	0.110	0.087	0.091	0.078	0.079	0.087	0.071	0.077	0.075	0.080	0.082	13.87	20.0781
	95	1,2,4-Trichlorobenzene	0.865	0.970	0.941	0.647	0.835	0.966	0.848	0.791	0.836	0.913	0.820	11.66	21.9049
	96	Hexachlorobutadiene	0.642	0.478	0.498	0.367	0.543	0.600	0.459	0.389	0.423	------	0.469	16.00	21.0344
	97	Naphthalene	1.435	1.835	1.903	0.986	1.130	1.343	1.176	1.159	1.129	1.245	1.149	10.32	21.1684
	98	1,2,3-Trichlorobenzene	0.694	0.529	0.518	0.485	0.606	0.724	0.648	0.621	0.650	0.703	0.618	13.43	21.4138

Spike Amount = Nominal Amount * M
Ave_%RSD : 11.3 Max_%RSD : 19

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = x0 + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
96	Hexachlorobutadiene	0.00657	0.43601	0.9902*

SG 11/15/24

Use Quadratic Regression of inv conc w.f. for comps of linear reg of inv conc w.f. with CCF < .995
Resp_Ratio = x0 + x1 * Amt_Ratio + x2 * Amt_Ratio * Amt_Ratio

IDX	Parameter	x0	x1	x2	CCF2
96	Hexachlorobutadiene	0.00094	0.50848	-0.02062	0.9928*

PROGRAM: ICALMAX
Input: R:\CAL\8260\2024\VO06J19\RIW364.ICL Output: R:\CAL\8260\2024\VO06J19\RIW364.MAX

IDX	Parameter	x0	x1	x2	CCF2	MaxMinAmtRatio	MaxMinRespRatio	MaxMinRRF	MaxMinConc
96	Hexachlorobutadiene	0.00094	0.50848	-0.02062	0.9928*	12.32978	3.13566	0.25432	123.3

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11/15/24

Instrument_ID :06
Beginning DateTime :10/19/24 15:59
Spike_Units :PPB
IC File :RIW364

Column Spec :RTX502.2 ID :0.25MM
Ending DateTime :10/19/24 19:57
HPChem Method :V006J19

M	IDX	Parameters	3 15:59 RIW359	5 16:26 RIW360	1 16:53 RIW361	2 17:19 RIW362	5 17:45 RIW363	10 18:11 RIW364	20 18:38 RIW365	30 19:04 RIW366	50 19:30 RIW367	100 19:57 RIW368	AvDRec	% RSD	Av Rt M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	9.8425
	2	Dichlorodifluoromethane	124	93	89	99	101	119	99	91	93	90	9.1	12.33	1.5731
	3	Chloromethane	76	89	92	103	107	123	106	99	104	101	8.7	12.43	1.7923
	4	Vinyl chloride	------	81	93	100	108	130	106	92	91	------	11	14.95	1.8999
	5	Bromomethane	120	78	87	91	102	120	103	95	102	103	9.8	13.23	2.3335
	6	Chloroethane	82	84	101	97	104	123	105	97	103	104	7.8	11.28	2.4204
	7	Dichlorofluoromethane	115	100	103	88	101	118	95	93	94	92	7.5	10.00	2.4599
	8	Trichlorofluoromethane	106	81	85	94	102	122	106	100	104	100	8.1	11.49	2.6910
5	9	Acrolein	------	100	110	100	100	120	90	100	100	110	5.6	5.97	3.2040
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	123	92	96	77	99	122	96	97	100	97	9.2	13.61	3.2555
5	11	Acetone	------	97	113	100	97	106	97	94	97	100	4.3	6.01	3.2902
	12	1,1-Dichloroethene	117	96	98	82	101	119	97	97	96	96	7.5	10.84	3.4380
25	13	tert-Butyl alcohol	------	------	89	67	100	111	100	100	------	------	9.3	14.67	3.5860
	14	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	15	Methyl acetate	105	105	105	100	95	100	100	90	95	105	3.8	4.29	3.9643
	16	Iodomethane	104	94	97	87	104	120	99	98	98	99	5.6	8.54	3.8637
	17	Allyl chloride	99	97	95	85	99	117	98	101	103	106	5.4	8.24	3.9874
	18	Methylene chloride	110	97	96	86	101	117	98	98	98	100	5.5	8.33	4.1573
	19	Carbon disulfide	------	------	91	94	100	126	98	91	------	------	8.7	13.30	4.1313
5	20	Acrylonitrile	93	85	93	98	102	117	102	102	105	107	6.8	8.82	4.3984
	21	tert-Butyl methyl ether (MTBE)	101	95	97	84	104	120	99	100	98	104	5.5	9.00	4.4425
	22	trans-1,2-Dichloroethene	124	98	96	81	100	115	96	97	97	97	7.8	11.64	4.6564
	23	Isopropyl ether (DIPE)	90	97	95	89	105	121	102	102	100	99	6	9.09	5.3253
	24	Vinyl acetate	------	76	80	93	102	122	108	105	107	107	11.3	14.53	5.5574
	25	1,1-Dichloroethane	104	97	101	84	101	117	98	99	99	99	4.8	8.18	5.4784
25	26	2-Butanol	------	------	------	78	89	100	100	100	100	100	4.8	10.55	6.0378
	27	tert-Butyl ethyl ether (ETBE)	89	97	102	91	102	115	97	98	97	110	5.9	7.94	6.2250
5	28	2-Butanone	------	65	98	92	104	117	104	104	106	110	9.8	14.55	6.5010
	29	2,2-Dichloropropane	------	105	102	93	105	125	100	96	93	81	8.2	11.90	6.7504
	30	cis-1,2-Dichloroethene	105	95	100	84	100	117	98	100	100	103	4.9	8.13	6.8772
	31	Chloroform	116	106	100	83	98	114	96	96	96	98	6.8	9.43	7.2840
	32	Bromochloromethane	89	96	96	86	102	119	100	103	102	109	6.8	9.49	7.6615
	33	Tetrahydrofuran	------	100	127	93	100	97	90	93	93	107	7.4	10.62	7.7849
5	34	tert-Amyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	35	Dibromofluoromethane	------	90	84	97	93	128	105	102	------	------	10.2	14.43	7.8082
	36	1,1,1-Trichloroethane	116	100	98	82	100	117	97	98	97	94	6.8	10.25	8.2088
	37	Cyclohexane	122	92	94	93	99	118	102	93	94	92	8.5	11.11	8.1900
	38	2,2,4-Trimethylpentane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	39	1,1-Dichloropropene	111	95	103	80	96	114	98	99	101	102	6.1	9.27	8.5821
	40	Carbon tetrachloride	105	96	98	83	104	120	99	101	99	98	5.7	9.00	8.7562
	41	tert-Amyl methyl ether (TAME)	95	96	100	89	102	118	100	101	98	102	4.5	7.54	8.9323
	42	1,2-Dichloroethane-d4	89	91	85	97	96	131	105	104	------	------	10.3	14.43	8.9590
	43	1,2-Dichloroethane	79	91	98	90	104	122	103	106	102	105	8.6	11.62	9.1546
	44	Benzene	99	102	105	92	107	121	100	101	98	74	7.5	12.05	9.1378
	45	Trichloroethene	93	99	98	83	104	120	101	101	101	100	5.2	9.05	10.4317
	46	Methylcyclohexane	138	100	95	94	97	110	99	91	91	87	9.5	14.68	10.5135
	47	1,2-Dichloropropane	90	94	99	88	102	117	101	103	101	105	5.9	8.38	10.7924
20	48	1,4-Dioxane	------	------	124	94	97	104	86	95	96	104	0	11.50	11.3366
	49	Bromodichloromethane	99	101	100	87	101	116	99	99	97	99	3.8	7.01	11.2328
	50	Dibromomethane	86	107	101	87	99	116	98	101	99	104	6	8.82	11.3104
	51	2-Chloroethyl vinyl ether	------	104	99	81	94	112	98	101	100	106	5.8	8.53	11.9395
5	52	4-Methyl-2-pentanone	72	86	101	112	109	124	105	102	101	90	10.6	14.61	11.9878
	53	cis-1,3-Dichloropropene	78	98	97	88	105	124	103	103	101	103	7.7	11.87	12.3044
	54	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	15.3387
	55	Toluene-d8	------	91	88	101	97	130	98	96	------	------	8.8	13.88	12.7034
	56	Toluene	96	103	106	91	106	120	97	96	86	------	7.6	9.78	12.8413
	57	Ethyl methacrylate	82	89	99	91	104	122	101	105	101	106	8	11.16	13.2859
	58	trans-1,3-Dichloropropene	73	95	101	91	104	124	102	104	103	104	8.4	12.81	13.2314
	59	1,1,2-Trichloroethane	84	102	106	85	101	120	99	100	100	102	6.5	10.33	13.4830
5	60	2-Hexanone	86	86	93	109	108	121	103	100	101	95	8.2	10.99	13.5648
	61	1,3-Dichloropropane	82	96	100	92	103	122	101	102	100	101	6	10.10	13.9318
	62	Tetrachloroethene	100	102	100	78	101	120	99	100	101	98	4.9	9.93	13.9863
	63	Dibromochloromethane	89	105	97	86	103	119	97	101	100	102	6.2	9.14	14.3323
	64	2-Ethyl-1-butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	65	1,2-Dibromoethane	75	93	95	88	107	124	103	105	103	105	9.5	12.90	14.6720
	66	1-Chlorohexane	99	115	110	83	103	114	96	102	97	83	8.5	11.14	15.0223
	67	Chlorobenzene	91	101	102	88	108	124	101	102	102	80	8.2	11.92	15.4037
	68	1,1,1,2-Tetrachloroethane	100	91	95	85	102	121	99	102	102	104	6.1	9.38	15.4945
	69	Ethylbenzene	97	107	108	92	106	121	96	94	78	------	9.4	12.23	15.5132
2	70	m-Xylene & p-Xylene	99	107	107	89	105	118	95	80	------	------	9.3	11.99	15.6470
	71	o-Xylene	107	102	102	88	104	118	95	95	88	------	7.5	9.54	16.3685
	72	Styrene	86	106	103	90	107	124	101	104	102	78	9.3	12.84	16.4382
	73	Isopropylbenzene	112	98	104	87	107	120	96	95	80	------	9.7	12.29	16.9858
	74	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	19.2849
	75	Bromoform	------	91	87	78	96	116	104	107	112	111	10.9	12.92	16.9744
	76	1,1,2,2-Tetrachloroethane	74	94	93	90	106	122	103	106	107	105	9.9	12.96	17.2729
	77	4-Bromofluorobenzene	------	------	------	91	88	124	99	98	------	------	9.6	14.29	17.3715
	78	1,2,3-Trichloropropane	73	101	108	87	99	114	100	104	109	106	8.4	12.14	17.4935
	79	trans-1,4-Dichloro-2-butene	73	110	97	78	97	118	105	103	109	109	10.9	14.30	17.6039
	80	n-Propylbenzene	92	110	109	84	105	121	97	83	------	------	10.9	13.24	17.5990
	81	Bromobenzene	71	103	102	79	103	124	102	102	108	107	9.9	14.69	17.6377
	82	1,3,5-Trimethylbenzene	90	107	106	84	106	123	99	97	88	------	9.1	11.80	17.8180
	83	2-Chlorotoluene	92	107	108	87	110	116	96	96	88	------	9.2	10.55	17.8310
	84	4-Chlorotoluene	80	101	101	81	100	129	105	105	99	------	8.6	14.25	17.8856
	85	tert-Butylbenzene	81	98	102	81	104	123	101	102	105	103	7.9	11.90	18.2769
	86	1,2,4-Trimethylbenzene	90	111	106	84	106	122	99	98	85	------	9.9	12.47	18.3243
	87	sec-Butylbenzene	101	106	105	83	104	121	95	85	------	------	9.3	12.46	18.5320
	88	p-Isopropyltoluene	105	105	110	84	108	123	95	92	78	------	11.3	13.96	18.6993
	89	1,3-Dichlorobenzene	85	108	100	85	108	125	102	100	102	84	9.2	12.70	18.7916
	90	1,2,3-Trimethylbenzene	96	102	104	88	107	123	97	97	87	------	7.8	10.74	18.8709
	91	1,4-Dichlorobenzene	83	102	101	87	106	126	103	103	103	85	8.9	12.63	18.9188
	92	n-Butylbenzene	112	103	102	78	105	120	93	86	------	------	10.7	13.67	19.142
	93	1,2-Dichlorobenzene	89	101	103	89	106	123	99	100	98	92	6.6	10.06	19.3159
	94	1,2-Dibromo-3-chloropropane	129	114	107	92	93	102	84	91	88	99	10.7	13.87	20.0781
	95	1,2,4-Trichlorobenzene	108	94	86	79	102	118	103	96	102	111	8.9	11.66	20.9049
	96	Hexachlorobutadiene	120	90	97	72	109	124	98	85	106	------	14.9	19.00	21.0344
	97	Naphthalene	107	90	87	84	98	117	102	101	104	108	8.1	10.32	21.1684
	98	1,2,3-Trichlorobenzene	112	86	84	78	98	117	105	100	105	114	10.8	13.43	21.4138

For 8260 C
SCV
11/15/24

Compound List Report 06

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
Total Cpnds : 98

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-DIFLUOROBENZENE	114	9.84	1.000	A	1	A	B
2	T	Dichlorodifluoromethane	85	1.56	0.159	A	1	A	B
3	T	Chloromethane	50	1.80	0.183	A	1	A	B
4	T	Vinyl chloride	62	1.90	0.193	A	1	A	B
5	T	Bromomethane	94	2.33	0.237	A	1	A	B
6	T	Chloroethane	64	2.41	0.245	A	1	A	B
7	T	Dichlorofluoromethane	67	2.45	0.249	A	1	A	B
8	T	Trichlorofluoromethane	101	2.69	0.273	A	1	A	B
9	T	Acrolein	56	3.19	0.325	A	1	A	B
10	T	1,1,2-Trichloro-1,2,2-trifluor	151	3.26	0.331	A	1	A	B
11	T	Acetone	43	3.30	0.335	A	1	A	B
12	T	1,1-Dichloroethene	61	3.45	0.350	A	2	A	B
13	T	tert-Butyl alcohol	59	3.59	0.365	A	1	A	B
14	T	Acetonitrile	41	0.00	0.000	A	2	A	B
15	T	Methyl acetate	74	3.97	0.403	A	1	A	B
16	T	Iodomethane	142	3.87	0.393	A	1	A	B
17	T	Allyl chloride	76	3.99	0.406	A	1	A	B
18	T	Methylene chloride	49	4.16	0.423	A	2	A	B
19	T	Carbon disulfide	76	4.14	0.420	A	1	A	B
20	T	Acrylonitrile	53	4.39	0.446	A	2	A	B
21	T	tert-Butyl methyl ether (MTBE)	73	4.43	0.450	A	1	A	B
22	T	trans-1,2-Dichloroethene	96	4.66	0.474	A	1	A	B
23	T	Isopropyl ether (DIPE)	45	5.33	0.542	A	1	A	B
24	T	Vinyl acetate	43	5.56	0.565	A	1	A	B
25	T	1,1-Dichloroethane	63	5.48	0.557	A	2	A	B
26	T	2-Butanol	45	6.05	0.614	A	1	A	B
27	T	tert-Butyl ethyl ether (ETBE)	59	6.21	0.631	A	1	A	B
28	T	2-Butanone	43	6.51	0.661	A	1	A	B
29	T	2,2-Dichloropropane	77	6.76	0.687	A	2	A	B
30	T	cis-1,2-Dichloroethene	96	6.89	0.700	A	1	A	B
31	T	Chloroform	83	7.28	0.740	A	2	A	B
32	T	Bromochloromethane	130	7.66	0.778	A	1	A	B
33	T	Tetrahydrofuran	42	7.76	0.789	A	2	A	B
34	T	tert-Amyl alcohol	59	8.23	0.836	A	1	A	B
35	S	Dibromofluoromethane	111	7.81	0.793	A	1	A	B
36	T	1,1,1-Trichloroethane	97	8.21	0.834	A	2	A	B
37	T	Cyclohexane	84	8.19	0.832	A	1	A	B
38	T	2,2,4-Trimethylpentane	57	8.56	0.870	A	1	A	B
39	T	1,1-Dichloropropene	110	8.58	0.872	A	1	A	B
40	T	Carbon tetrachloride	119	8.75	0.889	A	1	A	B
41	T	tert-Amyl methyl ether (TAME)	73	8.94	0.908	A	2	A	B
42	S	1,2-Dichloroethane-d4	65	8.96	0.910	A	1	A	B
43	T	1,2-Dichloroethane	62	9.15	0.930	A	1	A	B
44	T	Benzene	78	9.13	0.928	A	2	A	B
45	T	Trichloroethene	130	10.43	1.060	A	3	A	B
46	T	Methylcyclohexane	83	10.51	1.068	A	2	A	B
47	T	1,2-Dichloropropane	63	10.79	1.096	A	1	A	B
48	T	1,4-Dioxane	88	11.33	1.151	A	1	A	B
49	T	Bromodichloromethane	83	11.23	1.141	A	1	A	B
50	T	Dibromomethane	93	11.31	1.149	A	2	A	B
51	T	2-Chloroethyl vinyl ether	63	11.94	1.213	A	1	A	B
52	T	4-Methyl-2-pentanone	43	11.98	1.217	A	3	A	B
53	T	cis-1,3-Dichloropropene	75	12.30	1.249	A	3	A	B
54	I	CHLOROBENZENE-D5	117	15.34	1.000	A	2	A	B
55	S	Toluene-d8	98	12.69	0.828	A	1	A	B
56	T	Toluene	91	12.84	0.837	A	1	A	B
57	T	Ethyl methacrylate	69	13.28	0.866	A	1	A	B
58	T	trans-1,3-Dichloropropene	75	13.24	0.863	A	1	A	B
59	T	1,1,2-Trichloroethane	97	13.49	0.880	A	2	A	B
60	T	2-Hexanone	43	13.55	0.884	A	1	A	B
61	T	1,3-Dichloropropane	76	13.93	0.908	A	1	A	B

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62	T	Tetrachloroethene	164	13.99	0.912	A	3	A	B
63	T	Dibromochloromethane	129	14.33	0.934	A	1	A	B
64	T	2-Ethyl-1-butanol	43	0.00	0.000	A	3	A	B
65	T	1,2-Dibromoethane	107	14.67	0.956	A	1	A	B
66	T	1-Chlorohexane	91	15.02	0.979	A	1	A	B
67	T	Chlorobenzene	112	15.40	1.004	A	1	A	B
68	T	1,1,1,2-Tetrachloroethane	131	15.49	1.010	A	1	A	B
69	T	Ethylbenzene	91	15.51	1.011	A	1	A	B
70	T	m-Xylene & p-Xylene	91	15.65	1.020	A	1	A	B
71	T	o-Xylene	91	16.36	1.067	A	1	A	B
72	T	Styrene	104	16.44	1.072	A	2	A	B
73	T	Isopropylbenzene	105	16.99	1.107	A	3	A	B
74	I	1,2-DICHLOROBENZENE-D4	152	17.28	1.000	A	1	A	B
75	T	Bromoform	173	16.97	0.880	A	2	A	B
76	T	1,1,2,2-Tetrachloroethane	83	17.27	0.896	A	1	A	B
77	S	4-Bromofluorobenzene	95	17.38	0.901	A	2	A	B
78	T	1,2,3-Trichloropropane	110	17.49	0.907	A	1	A	B
79	T	trans-1,4-Dichloro-2-butene	53	17.60	0.912	A	1	A	B
80	T	n-Propylbenzene	91	17.60	0.912	A	2	A	B
81	T	Bromobenzene	156	17.64	0.915	A	1	A	B
82	T	1,3,5-Trimethylbenzene	105	17.82	0.924	A	2	A	B
83	T	2-Chlorotoluene	91	17.83	0.925	A	1	A	B
84	T	4-Chlorotoluene	91	17.90	0.928	A	1	A	B
85	T	tert-Butylbenzene	134	18.29	0.948	A	1	A	B
86	T	1,2,4-Trimethylbenzene	105	18.32	0.950	A	1	A	B
87	T	sec-Butylbenzene	105	18.53	0.961	A	1	A	B
88	T	p-Isopropyltoluene	119	18.70	0.970	A	2	A	B
89	T	1,3-Dichlorobenzene	146	18.79	0.974	A	2	A	B
90	T	1,2,3-Trimethylbenzene	105	18.87	0.978	A	2	A	B
91	T	1,4-Dichlorobenzene	146	18.92	0.981	A	2	A	B
92	T	n-Butylbenzene	91	19.14	0.993	A	2	A	B
93	T	1,2-Dichlorobenzene	146	19.31	1.001	A	1	A	B
94	T	1,2-Dibromo-3-chloropropane	157	20.08	1.041	A	1	A	B
95	T	1,2,4-Trichlorobenzene	180	20.91	1.084	A	2	A	B
96	T	Hexachlorobutadiene	225	21.04	1.091	Q	2	A	B
97	T	Naphthalene	128	21.17	1.098	A	1	A	B
98	T	1,2,3-Trichlorobenzene	180	21.41	1.110	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

VO06J19.M Thu Nov 14 17:17:50 2024

11/15/24

SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :06
IC Beginning DateTime :10/19/24 15:59
Spike Amount :10 PPB
CC/CV File :RIW371
IC File :RIW364

Column Spec :RTX502.2 ID :0.25MM
IC Ending DateTime :10/19/24 19:57
HPChem Method :VO06J19
Date_Time :10/19/24 21:15

M	IDX	Parameters	CC_Con	CC% D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	% RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,4-DIFLUOROBENZENE	10.000	0	4162272	1	1	9.842	9.842	0				
	2	Dichlorodifluoromethane	10.015	0.2	1482386	0.356	0.356	1.578	1.573	12.33				
	3	Chloromethane	11.640	16.4	1674934	0.402	0.346	1.795	1.792	12.43				
	4	Vinyl chloride	12.009	20.1	1385719	0.333	0.277	1.894	1.900	14.95				
	5	Bromomethane	11.737	17.4	1231998	0.296	0.252	2.328	2.333	13.23				
	6	Chloroethane	11.566	15.7	918929	0.221	0.191	2.407	2.420	11.28				
	7	Dichlorofluoromethane	10.927	9.3	2127547	0.511	0.468	2.466	2.460	10.00				
	8	Trichlorofluoromethane	10.491	4.9	1621305	0.390	0.371	2.684	2.691	11.49				
5	9	Acrolein	49.453	-1.1	213086	0.010	0.010	3.194	3.204	5.97				
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	9.595	-4.0	850149	0.204	0.213	3.236	3.256	13.61				
5	11	Acetone	48.582	-2.8	625827	0.030	0.031	3.278	3.290	6.01				
	12	1,1-Dichloroethene	10.428	4.3	1964938	0.472	0.453	3.425	3.438	10.84				
25	13	tert-Butyl alcohol	242.198	-3.1	862347	0.008	0.009	3.572	3.586	14.67				
	14	Acetonitrile												
	15	Methyl acetate	9.708	-2.9	84986	0.020	0.021	3.970	3.964	4.29				
	16	Iodomethane	11.039	10.4	2132130	0.512	0.464	3.865	3.864	8.54				
	17	Allyl chloride	10.577	5.8	797865	0.192	0.181	3.991	3.987	8.24				
	18	Methylene chloride	10.841	8.4	1498306	0.360	0.332	4.159	4.157	8.33				
	19	Carbon disulfide	10.885	8.9	2568453	0.617	0.567	4.117	4.131	13.30				
5	20	Acrylonitrile	53.573	7.1	920676	0.044	0.041	4.389	4.398	8.82				
	21	tert-Butyl methyl ether (MTBE)	10.927	9.3	2194529	0.527	0.482	4.431	4.443	9.00				
	22	trans-1,2-Dichloroethene	10.707	7.1	1510803	0.363	0.339	4.662	4.656	11.64				
	23	Isopropyl ether (DIPE)	11.184	11.8	4166807	1.001	0.895	5.312	5.325	9.09				
	24	Vinyl acetate	10.758	7.6	1390779	0.334	0.311	5.543	5.557	14.53				
	25	1,1-Dichloroethane	10.885	8.9	2283914	0.549	0.504	5.480	5.478	8.18				
25	26	2-Butanol	254.663	1.9	909216	0.009	0.009	6.025	6.038	10.55				
	27	tert-Butyl ethyl ether (ETBE)	10.578	5.8	2912787	0.700	0.662	6.214	6.225	7.94				
5	28	2-Butanone	51.859	3.7	1126406	0.054	0.052	6.486	6.501	14.55				
	29	2,2-Dichloropropane	10.625	6.3	1335971	0.321	0.302	6.738	6.750	11.90				
	30	cis-1,2-Dichloroethene	10.844	8.4	1476730	0.355	0.327	6.864	6.877	8.13				
	31	Chloroform	10.465	4.7	2192925	0.527	0.503	7.262	7.284	9.43				
	32	Bromochloromethane	11.171	11.7	648018	0.156	0.139	7.661	7.661	9.49				
	33	Tetrahydrofuran	9.682	-3.2	120486	0.029	0.030	7.766	7.785	10.62				
5	34	tert-Amyl alcohol												
	35	Dibromofluoromethane	12.000	20.0	1223430	0.294	0.245	7.808	7.808	14.43				
	36	1,1,1-Trichloroethane	10.592	5.9	1771028	0.425	0.402	8.206	8.209	10.25				
	37	Cyclohexane	10.436	4.4	2180112	0.524	0.502	8.185	8.190	11.11				
	38	2,2,4-Trimethylpentane												
	39	1,1-Dichloropropene	10.270	2.7	632607	0.152	0.148	8.563	8.582	9.27				
	40	Carbon tetrachloride	10.421	4.5	1424683	0.342	0.327	8.751	8.756	9.00				
	41	tert-Amyl methyl ether (TAME)	10.813	8.1	2520660	0.606	0.560	8.919	8.932	7.54				
	42	1,2-Dichloroethane-d4	11.918	19.2	841219	0.202	0.170	8.940	8.959	14.43				
	43	1,2-Dichloroethane	11.206	12.1	950929	0.228	0.204	9.150	9.155	11.62				
	44	Benzene	11.206	12.1	5405418	1.299	1.159	9.129	9.138	12.05				
	45	Trichloroethene	11.160	11.6	1421894	0.342	0.306	10.429	10.432	9.05				
	46	Methylcyclohexane	10.125	1.3	2631829	0.632	0.624	10.492	10.514	14.68				
	47	1,2-Dichloropropane	10.983	9.8	1152775	0.277	0.252	10.785	10.792	8.38				
20	48	1,4-Dioxane	183.699	-8.2	69947	0.001	0.001	11.331	11.337	11.50				
	49	Bromodichloromethane	10.599	6.0	1438541	0.346	0.326	11.226	11.233	7.01				
	50	Dibromomethane	10.528	5.3	534221	0.128	0.122	11.310	11.310	8.82				
	51	2-Chloroethyl vinyl ether	10.501	5.0	360758	0.087	0.083	11.939	11.939	8.53				
5	52	4-Methyl-2-pentanone	56.570	13.1	3276564	0.157	0.139	11.981	11.988	14.61				
	53	cis-1,3-Dichloropropene	11.144	11.4	1812567	0.435	0.391	12.295	12.304	11.87				
	54	CHLOROBENZENE-D5	10.000	0	3018237	1	1	15.339	15.339	0				
	55	Toluene-d8	11.858	18.6	4946713	1.639	1.382	12.694	12.703	13.88				
	56	Toluene	11.090	10.9	5555774	1.841	1.660	12.841	12.841	9.78				
	57	Ethyl methacrylate	11.115	11.1	903052	0.299	0.269	13.281	13.286	11.16				
	58	trans-1,3-Dichloropropene	11.268	12.7	1327325	0.440	0.390	13.218	13.231	12.81				
	59	1,1,2-Trichloroethane	10.978	9.8	691555	0.229	0.209	13.470	13.483	10.33				
5	60	2-Hexanone	55.362	10.7	1975833	0.131	0.118	13.554	13.565	10.99				
	61	1,3-Dichloropropane	11.177	11.8	1254401	0.416	0.372	13.931	13.932	10.10				
	62	Tetrachloroethene	10.578	5.8	1125068	0.373	0.352	13.973	13.986	9.93				
	63	Dibromochloromethane	10.742	7.4	836868	0.277	0.258	14.330	14.332	9.14				
	64	2-Ethyl-1-butanol												
	65	1,2-Dibromoethane	11.338	13.4	652205	0.216	0.191	14.665	14.672	12.90				
	66	1-Chlorohexane	9.963	-0.4	2033826	0.674	0.676	15.022	15.022	11.14				
	67	Chlorobenzene	11.312	13.1	3097495	1.026	0.907	15.391	15.404	11.92				
	68	1,1,1,2-Tetrachloroethane	10.922	9.2	1009857	0.335	0.306	15.494	15.495	9.38				
	69	Ethylbenzene	10.819	8.2	5848074	1.938	1.791	15.507	15.513	12.63				
2	70	m-Xylene & p-Xylene	21.443	7.2	8677728	1.438	1.341	15.637	15.647	11.99				
	71	o-Xylene	10.810	8.1	4408402	1.461	1.351	16.364	16.368	9.54				
	72	Styrene	11.245	12.4	3277729	1.086	0.966	16.429	16.438	12.84				
	73	Isopropylbenzene	10.664	6.6	5638140	1.868	1.752	16.974	16.986	12.29				
	74	1,2-DICHLOROBENZENE-D4	10.000	0	1111743	1	1	19.285	19.285	0				
	75	Bromoform	10.910	9.1	378667	0.341	0.312	16.974	16.974	12.92				
	76	1,1,2,2-Tetrachloroethane	11.398	14.0	689074	0.620	0.544	17.273	17.273	12.96				
	77	4-Bromofluorobenzene	11.689	16.9	1450999	1.305	1.116	17.364	17.372	14.29				
	78	1,2,3-Trichloropropane	11.051	10.5	171032	0.154	0.139	17.493	17.493	12.14				
	79	trans-1,4-Dichloro-2-butene	10.772	7.7	154413	0.139	0.129	17.597	17.604	14.30				
	80	n-Propylbenzene	11.283	12.8	6997014	6.294	5.578	17.597	17.599	13.24				
	81	Bromobenzene	11.378	13.8	1126592	1.013	0.891	17.636	17.638	14.69				
	82	1,3,5-Trimethylbenzene	11.165	11.6	4315957	3.882	3.477	17.818	17.818	11.80				
	83	2-Chlorotoluene	11.033	10.3	4126516	3.712	3.364	17.831	17.831	10.55				
	84	4-Chlorotoluene	11.601	16.0	3725365	3.351	2.888	17.896	17.896	14.25				
	85	tert-Butylbenzene	11.053	10.5	950635	0.855	0.774	18.272	18.279	11.90				
	86	1,2,4-Trimethylbenzene	11.077	10.8	4187243	3.766	3.400	18.311	18.311	12.47				
	87	sec-Butylbenzene	10.516	5.2	5660075	5.091	4.841	18.532	18.532	12.46				
	88	p-Isopropyltoluene	10.771	7.7	4586332	4.125	3.830	18.688	18.699	13.96				
	89	1,3-Dichlorobenzene	11.219	12.2	2161614	1.944	1.733	18.792	18.792	12.70				
	90	1,2,3-Trimethylbenzene	10.987	9.9	3670620	3.302	3.005	18.869	18.871	10.74				
	91	1,4-Dichlorobenzene	11.426	14.3	2124602	1.911	1.673	18.908	18.919	12.63				
	92	n-Butylbenzene	10.358	3.6	4339989	3.904	3.769	19.142	19.142	13.67				
	93	1,2-Dichlorobenzene	11.130	11.3	1748399	1.573	1.413	19.311	19.311	10.06				
	94	1,2-Dibromo-3-chloropropane	8.964	-10.4	74657	0.076	0.085	20.077	20.078	13.87				
	95	1,2,4-Trichlorobenzene	10.334	3.3	941613	0.847	0.820	20.894	20.905	11.66				
	96	Hexachlorobutadiene	10.897	9.0	589859	0.531	0.489	21.024	21.034	19.00	0.0009	0.5085	-0.0206	0.9928
	97	Naphthalene	10.401	4.0	1328412	1.195	1.149	21.167	21.168	10.32				
	98	1,2,3-Trichlorobenzene	10.651	6.5	731559	0.658	0.618	21.414	21.414	13.43				

Spike Amount = Nominal Amount * M

11/15/24

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D Vial: 14
Acq On : 19 Oct 2024 9:15 pm Operator: DHguye
Sample : IVO06J191 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	109	0.00
2	T,M	Dichlorodifluoromethane	10.000	10.016	-0.2	91	0.01
3	P,T,M	Chloromethane	10.000	11.640	-16.4	102	0.00
4	C,T,M	Vinyl chloride	10.000	12.010	✓20.1#	100	0.00
5	T,M	Bromomethane	10.000	11.737	-17.4	107	0.00
6	T,M	Chloroethane	10.000	11.567	-15.7	103	0.00
7	T,M	Dichlorofluoromethane	10.000	10.928	-9.3	100	0.01
8	T,M	Trichlorofluoromethane	10.000	10.491	-4.9	94	0.00
9	T,M	Acrolein	50.000	49.454	1.1	96	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	9.595	4.0	85	-0.02
11	T,M	Acetone	50.000	48.583	2.8	98	-0.02
12	C,T,M	1,1-Dichloroethene	10.000	10.428	-4.3	95	-0.02
13	T,M	tert-Butyl alcohol	250.000	242.199	3.1	95	-0.02
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	9.709	2.9	106	0.00
16	T,M	Iodomethane	10.000	11.040	-10.4	100	0.00
17	T,M	Allyl chloride	10.000	10.578	-5.8	98	0.00
18	T,M	Methylene chloride	10.000	10.842	-8.4	101	0.00
19	T,M	Carbon disulfide	10.000	10.886	-8.9	94	-0.02
20	T,M	Acrylonitrile	50.000	53.573	-7.1	100	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	10.927	-9.3	99	0.00
22	T,M	trans-1,2-Dichloroethene	10.000	10.707	-7.1	101	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	11.184	-11.8	100	-0.02
24	T,M	Vinyl acetate	10.000	10.758	-7.6	96	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.885	-8.8	101	0.00
26	T,M	2-Butanol	250.000	254.663	-1.9	104	-0.02
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.579	-5.8	100	0.00
28	T,M	2-Butanone	50.000	51.860	-3.7	96	-0.02
29	T,M	2,2-Dichloropropane	10.000	10.625	-6.3	93	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	10.844	-8.4	101	-0.02
31	C,T,M	Chloroform	10.000	10.466	-4.7	100	-0.02
32	T,M	Bromochloromethane	10.000	11.171	-11.7	102	0.00
33	T,M	Tetrahydrofuran	10.000	9.682	3.2	109	0.00
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	-0.02
35	S	Dibromofluoromethane	10.000	12.000	-20.0	102	0.00
36	T,M	1,1,1-Trichloroethane	10.000	10.592	-5.9	98	0.00
37	T,M	Cyclohexane	10.000	10.437	-4.4	96	0.00
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	-8.56#
39	T,M	1,1-Dichloropropene	10.000	10.270	-2.7	98	-0.02
40	T,M	Carbon tetrachloride	10.000	10.451	-4.5	95	0.00
41	T,M	tert-Amyl methyl ether (TAM	10.000	10.813	-8.1	99	-0.02
42	S	1,2-Dichloroethane-d4	10.000	11.918	-19.2	99	-0.02
43	T,M	1,2-Dichloroethane	10.000	11.207	-12.1	100	0.00
44	T,M	Benzene	10.000	11.207	-12.1	100	0.00
45	T,M	Trichloroethene	10.000	11.160	-11.6	101	0.00
46	T,M	Methylcyclohexane	10.000	10.125	-1.3	100	-0.02
47	C,T,M	1,2-Dichloropropane	10.000	10.984	-9.8	102	0.00
48	T,M	1,4-Dioxane	200.000	183.699	8.2	96	0.00
49	T,M	Bromodichloromethane	10.000	10.599	-6.0	99	0.00
50	T,M	Dibromomethane	10.000	10.528	-5.3	98	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D
Acq On : 19 Oct 2024 9:15 pm
Sample : IVO06J191
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 14
Operator: DHguye
Inst : 06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	10.502	-5.0	102	0.00
52	T,M	4-Methyl-2-pentanone	50.000	56.571	-13.1	99	0.00
53	T,M	cis-1,3-Dichloropropene	10.000	11.145	-11.4	98	0.00
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	107	0.00
55	S	Toluene-d8	10.000	11.859	-18.6	98	0.00
56	C,T,M	Toluene	10.000	11.090	-10.9	100	0.00
57	T,M	Ethyl methacrylate	10.000	11.115	-11.2	98	0.00
58	T,M	trans-1,3-Dichloropropene	10.000	11.268	-12.7	98	-0.02
59	T,M	1,1,2-Trichloroethane	10.000	10.978	-9.8	98	-0.02
60	T,M	2-Hexanone	50.000	55.363	-10.7	98	0.00
61	T,M	1,3-Dichloropropane	10.000	11.178	-11.8	98	0.00
62	T,M	Tetrachloroethene	10.000	10.579	-5.8	95	-0.02
63	T,M	Dibromochloromethane	10.000	10.743	-7.4	97	0.00
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	11.338	-13.4	98	0.00
66	T,M	1-Chlorohexane	10.000	9.963	0.4	94	0.00
67	P,T,M	Chlorobenzene	10.000	11.313	-13.1	98	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	10.000	10.923	-9.2	97	0.00
69	C,T,M	Ethylbenzene	10.000	10.820	-8.2	96	0.00
70	T,M	m-Xylene & p-Xylene	20.000	21.444	-7.2	97	-0.01
71	T,M	o-Xylene	10.000	10.811	-8.1	98	0.00
72	T,M	Styrene	10.000	11.245	-12.4	97	-0.01
73	T,M	Isopropylbenzene	10.000	10.665	-6.6	96	-0.01
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	102	0.00
75	P,T,M	Bromoform	10.000	10.911	-9.1	96	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	11.399	-14.0	95	0.00
77	S	4-Bromofluorobenzene	10.000	11.690	-16.9	97	-0.01
78	T,M	1,2,3-Trichloropropane	10.000	11.051	-10.5	99	0.00
79	T,M	trans-1,4-Dichloro-2-butene	10.000	10.772	-7.7	94	0.00
80	T,M	n-Propylbenzene	10.000	11.283	-12.8	96	0.00
81	T,M	Bromobenzene	10.000	11.378	-13.8	94	0.00
82	T,M	1,3,5-Trimethylbenzene	10.000	11.166	-11.7	93	0.00
83	T,M	2-Chlorotoluene	10.000	11.033	-10.3	97	0.00
84	T,M	4-Chlorotoluene	10.000	11.601	-16.0	92	0.00
85	T,M	tert-Butylbenzene	10.000	11.054	-10.5	92	-0.01
86	T,M	1,2,4-Trimethylbenzene	10.000	11.077	-10.8	93	-0.01
87	T,M	sec-Butylbenzene	10.000	10.516	-5.2	89	0.00
88	T,M	p-Isopropyltoluene	10.000	10.772	-7.7	90	-0.01
89	T,M	1,3-Dichlorobenzene	10.000	11.219	-12.2	92	0.00
90	T,M	1,2,3-Trimethylbenzene	10.000	10.988	-9.9	92	0.00
91	T,M	1,4-Dichlorobenzene	10.000	11.426	-14.3	93	-0.01
92	T,M	n-Butylbenzene	10.000	10.359	-3.6	89	0.00
93	T,M	1,2-Dichlorobenzene	10.000	11.131	-11.3	92	0.00
94	T,M	1,2-Dibromo-3-chloropropane	10.000	8.964	10.4	89	0.00
95	T,M	1,2,4-Trichlorobenzene	10.000	10.334	-3.3	90	-0.01
96	T,M	Hexachlorobutadiene	10.000	10.897	-9.0	91	-0.01
97	T,M	Naphthalene	10.000	10.401	-4.0	91	0.00
98	T,M	1,2,3-Trichlorobenzene	10.000	10.652	-6.5	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

RIW371.D VO06J19.M Fri Nov 15 10:43:01 2024

SA 11/15/24

DAILY CALIBRATIONS

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : TITAN 1-A
Lab Code : EMAX SDG No : 24J145
Lab File ID: RIW477 BFB Injection Date: 10/24/24
Instrument ID: 06 BFB Injection Time: 17:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	16.040
75	30 - 60% of mass 95	44.164
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	6.041
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	76.266
175	5 - 9% of mass 174	5.041(6.61)1
176	95 - 101% % of mass 174	73.826(96.8)1
177	5 - 9% % of mass 176	4.318(5.85)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, Lab QCs and Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD10	CV006J195	RIW478	10/24/24	19:04
2	LCS1W	V006J22L	RIW479	10/24/24	19:32
3	LCD1W	V006J22C	RIW480	10/24/24	19:58
4	MBLK1W	V006J22B	RIW482	10/24/24	20:50
5	T1AMF-MW053_OCT24	24J145-02	RIW487	10/24/24	23:02
6	T1AMF-MW066_OCT24	24J145-03	RIW488	10/25/24	08:13
7	VSTD10	EV006J195	RIW489	10/25/24	08:39

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: EMAX Laboratories, Inc.
Lab Code: EMAX
Lab File ID: RIW364
Instrument ID: 06

Project: TITAN 1-A
SDG No: 24J145
Date Analyzed: 10/19/24
Time Analyzed: 18:11

	INTERNAL STANDARD (IS)	1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5		1,2-DICHLOROBENZENE-D4	
		Area #	RT #	Area #	RT #	Area #	RT #
	12 HOUR STD	3831558	9.84	2808641	15.34	1084745	19.28
	UPPER LIMIT	7663116	10.0	5617282	15.51	2169490	19.45
	LOWER LIMIT	1915779	9.67	1404321	15.17	542373	19.11
		Area #	RT #	Area #	RT #	Area #	RT #
1	VSTD10	4181638	9.86	2695837	15.35	1061560	19.29
2	LCS1W	4960038	9.86	3648999	15.35	1334272	19.28
3	LCD1W	4975114	9.86	3612611	15.35	1343590	19.28
4	MBLK1W	4883802	9.86	3636236	15.34	1413530	19.29
5	T1AMF-MW053_OCT24	4596043	9.86	3510018	15.34	1334985	19.28
6	T1AMF-MW066_OCT24	2857054	9.84	2194978	15.34	931558	19.28
7	VSTD10	3842434	9.84	2838286	15.34	1013026	19.28

Area Upper Limit = +100% of ICAL Midpoint IS Area
Area Lower Limit = -50% of ICAL Midpoint IS Area
Retention Time(RT) Upper Limit = +10 seconds of ICAL Midpoint IS RT
Retention Time(RT) Lower Limit = -10 seconds of ICAL Midpoint IS RT

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW478.D Vial: 21
Acq On : 24 Oct 2024 7:04 pm Operator: PMai
Sample : CVO06J195 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	109	0.02
2	T,M	Dichlorodifluoromethane	10.000	11.240	-12.4	103	0.02
3	P,T,M	Chloromethane	10.000	11.785	-17.9	104	0.00
4	C,T,M	Vinyl chloride	10.000	11.959	-19.6	100	0.02
5	T,M	Bromomethane	10.000	11.225	-12.2	102	0.02
6	T,M	Chloroethane	10.000	11.722	-17.2	104	0.02
7	T,M	Dichlorofluoromethane	10.000	11.921	-19.2	110	0.02
8	T,M	Trichlorofluoromethane	10.000	11.599	-16.0	104	0.02
9	T,M	Acrolein	50.000	46.246	7.5	90	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	11.195	-12.0	100	0.00
11	T,M	Acetone	50.000	48.827	2.3	99	0.00
12	C,T,M	1,1-Dichloroethene	10.000	11.513	-15.1	106	0.00
13	T,M	tert-Butyl alcohol	250.000	201.866	19.3	79	0.00
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	7.400	26.0#	81	0.00
16	T,M	Iodomethane	10.000	10.774	-7.7	98	0.02
17	T,M	Allyl chloride	10.000	11.114	-11.1	104	0.02
18	T,M	Methylene chloride	10.000	11.902	-19.0	111	0.02
19	T,M	Carbon disulfide	10.000	9.957	0.4	86	0.00
20	T,M	Acrylonitrile	50.000	50.285	-0.6	94	0.02
21	T,M	tert-Butyl methyl ether (MT	10.000	9.975	0.3	91	0.02
22	T,M	trans-1,2-Dichloroethene	10.000	10.811	-8.1	102	0.02
23	T,M	Isopropyl ether (DIPE)	10.000	11.028	-10.3	99	0.00
24	T,M	Vinyl acetate	10.000	8.579	14.2	77	0.02
25	P,T,M	1,1-Dichloroethane	10.000	11.207	-12.1	104	0.02
26	T,M	2-Butanol	250.000	151.543	39.4#	62	0.02
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.091	-0.9	95	0.02
28	T,M	2-Butanone	50.000	44.699	10.6	83	0.02
29	T,M	2,2-Dichloropropane	10.000	14.867	-48.7#	130	0.02
30	T,M	cis-1,2-Dichloroethene	10.000	10.605	-6.1	99	0.02
31	C,T,M	Chloroform	10.000	10.601	-6.0	102	0.02
32	T,M	Bromochloromethane	10.000	9.780	2.2	90	0.02
33	T,M	Tetrahydrofuran	10.000	6.890	31.1#	78	0.02
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	0.00
35	S	Dibromofluoromethane	10.000	11.468	-14.7	97	0.02
36	T,M	1,1,1-Trichloroethane	10.000	11.625	-16.3	108	0.02
37	T,M	Cyclohexane	10.000	10.535	-5.4	97	0.02
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	0.00
39	T,M	1,1-Dichloropropene	10.000	9.475	5.3	91	0.02
40	T,M	Carbon tetrachloride	10.000	11.505	-15.1	105	0.02
41	T,M	tert-Amyl methyl ether (TAM	10.000	9.612	3.9	89	0.00
42	S	1,2-Dichloroethane-d4	10.000	10.960	-9.6	91	0.02
43	T,M	1,2-Dichloroethane	10.000	10.297	-3.0	93	0.02
44	T,M	Benzene	10.000	10.481	-4.8	94	0.02
45	T,M	Trichloroethene	10.000	10.106	-1.1	92	0.02
46	T,M	Methylcyclohexane	10.000	9.775	2.2	97	0.02
47	C,T,M	1,2-Dichloropropane	10.000	9.613	3.9	89	0.02
48	T,M	1,4-Dioxane	200.000	122.178	38.9#	64	0.02
49	T,M	Bromodichloromethane	10.000	9.644	3.6	90	0.02
50	T,M	Dibromomethane	10.000	8.685	13.1	82	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW478.D Vial: 21
Acq On : 24 Oct 2024 7:04 pm Operator: PMai
Sample : CVO06J195 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	6.123	38.8#	60	0.02
52	T,M	4-Methyl-2-pentanone	50.000	47.575	4.8	84	0.02
53	T,M	cis-1,3-Dichloropropene	10.000	9.018	9.8	79	0.02
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	96	0.01
55	S	Toluene-d8	10.000	11.303	-13.0	84	0.02
56	C,T,M	Toluene	10.000	10.641	-6.4	85	0.02
57	T,M	Ethyl methacrylate	10.000	8.083	19.2	63	0.02
58	T,M	trans-1,3-Dichloropropene	10.000	9.689	3.1	75	0.00
59	T,M	1,1,2-Trichloroethane	10.000	8.986	10.1	72	0.00
60	T,M	2-Hexanone	50.000	47.044	5.9	74	0.02
61	T,M	1,3-Dichloropropane	10.000	9.076	9.2	71	0.02
62	T,M	Tetrachloroethene	10.000	10.385	-3.8	83	0.00
63	T,M	Dibromochloromethane	10.000	9.273	7.3	75	0.02
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	8.956	10.4	69	0.02
66	T,M	1-Chlorohexane	10.000	9.319	6.8	79	0.02
67	P,T,M	Chlorobenzene	10.000	9.915	0.9	77	0.01
68	T,M	1,1,1,2-Tetrachloroethane	10.000	11.708	-17.1	93	0.01
69	C,T,M	Ethylbenzene	10.000	10.293	-2.9	81	0.01
70	T,M	m-Xylene & p-Xylene	20.000	20.037	-0.2	81	0.00
71	T,M	o-Xylene	10.000	10.850	-8.5	88	0.01
72	T,M	Styrene	10.000	9.296	7.0	72	0.00
73	T,M	Isopropylbenzene	10.000	11.276	-12.8	90	0.01
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	98	0.00
75	P,T,M	Bromoform	10.000	7.289	27.1#	61	0.01
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	9.484	5.2	76	0.01
77	S	4-Bromofluorobenzene	10.000	9.287	7.1	73	0.00
78	T,M	1,2,3-Trichloropropane	10.000	8.500	15.0	73	0.01
79	T,M	trans-1,4-Dichloro-2-butene	10.000	7.721	22.8#	64	0.01
80	T,M	n-Propylbenzene	10.000	10.178	-1.8	83	0.01
81	T,M	Bromobenzene	10.000	8.555	14.5	68	0.01
82	T,M	1,3,5-Trimethylbenzene	10.000	10.894	-8.9	87	0.01
83	T,M	2-Chlorotoluene	10.000	10.273	-2.7	87	0.00
84	T,M	4-Chlorotoluene	10.000	9.763	2.4	74	0.01
85	T,M	tert-Butylbenzene	10.000	11.435	-14.4	91	0.00
86	T,M	1,2,4-Trimethylbenzene	10.000	10.634	-6.3	85	0.00
87	T,M	sec-Butylbenzene	10.000	10.940	-9.4	88	0.01
88	T,M	p-Isopropyltoluene	10.000	11.070	-10.7	88	0.00
89	T,M	1,3-Dichlorobenzene	10.000	9.401	6.0	74	0.01
90	T,M	1,2,3-Trimethylbenzene	10.000	10.811	-8.1	86	0.01
91	T,M	1,4-Dichlorobenzene	10.000	9.383	6.2	73	0.00
92	T,M	n-Butylbenzene	10.000	10.822	-8.2	88	0.01
93	T,M	1,2-Dichlorobenzene	10.000	10.003	-0.0	79	0.00
94	T,M	1,2-Dibromo-3-chloropropane	10.000	7.950	20.5#	76	0.01
95	T,M	1,2,4-Trichlorobenzene	10.000	10.708	-7.1	89	0.00
96	T,M	Hexachlorobutadiene	10.000	11.408	-14.1	90	0.00
97	T,M	Naphthalene	10.000	9.994	0.1	84	0.01
98	T,M	1,2,3-Trichlorobenzene	10.000	10.014	-0.1	84	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW478.D Vial: 21
Acq On : 24 Oct 2024 7:04 pm Operator: PMai
Sample : CVO06J195 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	109	0.02
2	T,M	Dichlorodifluoromethane	0.356	0.400	-12.4	103	0.02
3	P,T,M	Chloromethane	0.346	0.407	-17.6	104	0.00
4	C,T,M	Vinyl chloride	0.277	0.332	-19.9	100	0.02
5	T,M	Bromomethane	0.252	0.283	-12.3	102	0.02
6	T,M	Chloroethane	0.191	0.224	-17.3	104	0.02
7	T,M	Dichlorofluoromethane	0.468	0.558	-19.2	110	0.02
8	T,M	Trichlorofluoromethane	0.371	0.431	-16.2	104	0.02
9	T,M	Acrolein	0.010	0.010	0.0	90	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.238	-11.7	100	0.00
11	T,M	Acetone	0.031	0.030	3.2	99	0.00
12	C,T,M	1,1-Dichloroethene	0.453	0.521	-15.0	106	0.00
13	T,M	tert-Butyl alcohol	0.009	0.007	22.2#	79	0.00
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.016	23.8#	81	0.00
16	T,M	Iodomethane	0.464	0.500	-7.8	98	0.02
17	T,M	Allyl chloride	0.181	0.201	-11.0	104	0.02
18	T,M	Methylene chloride	0.332	0.395	-19.0	111	0.02
19	T,M	Carbon disulfide	0.567	0.564	0.5	86	0.00
20	T,M	Acrylonitrile	0.041	0.042	-2.4	94	0.02
21	T,M	tert-Butyl methyl ether (MT	0.482	0.481	0.2	91	0.02
22	T,M	trans-1,2-Dichloroethene	0.339	0.366	-8.0	102	0.02
23	T,M	Isopropyl ether (DIPE)	0.895	0.987	-10.3	99	0.00
24	T,M	Vinyl acetate	0.311	0.266	14.5	77	0.02
25	P,T,M	1,1-Dichloroethane	0.504	0.565	-12.1	104	0.02
26	T,M	2-Butanol	0.009	0.005	44.4#	62	0.02
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.668	-0.9	95	0.02
28	T,M	2-Butanone	0.052	0.047	9.6	83	0.02
29	T,M	2,2-Dichloropropane	0.302	0.449	-48.7#	130	0.02
30	T,M	cis-1,2-Dichloroethene	0.327	0.347	-6.1	99	0.02
31	C,T,M	Chloroform	0.503	0.534	-6.2	102	0.02
32	T,M	Bromochloromethane	0.139	0.136	2.2	90	0.02
33	T,M	Tetrahydrofuran	0.030	0.021	30.0#	78	0.02
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	0.00
35	S	Dibromofluoromethane	0.245	0.281	-14.7	97	0.02
36	T,M	1,1,1-Trichloroethane	0.402	0.467	-16.2	108	0.02
37	T,M	Cyclohexane	0.502	0.529	-5.4	97	0.02
38	T,M	2,2,4-Trimethylpentane	0.000	0.000	0.0	0#	0.00
39	T,M	1,1-Dichloropropene	0.148	0.140	5.4	91	0.02
40	T,M	Carbon tetrachloride	0.327	0.377	-15.3	105	0.02
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.538	3.9	89	0.00
42	S	1,2-Dichloroethane-d4	0.170	0.186	-9.4	91	0.02
43	T,M	1,2-Dichloroethane	0.204	0.210	-2.9	93	0.02
44	T,M	Benzene	1.159	1.215	-4.8	94	0.02
45	T,M	Trichloroethene	0.306	0.309	-1.0	92	0.02
46	T,M	Methylcyclohexane	0.624	0.610	2.2	97	0.02
47	C,T,M	1,2-Dichloropropane	0.252	0.242	4.0	89	0.02
48	T,M	1,4-Dioxane	0.001	0.001	0.0	64	0.02
49	T,M	Bromodichloromethane	0.326	0.314	3.7	90	0.02
50	T,M	Dibromomethane	0.122	0.106	13.1	82	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW478.D Vial: 21
Acq On : 24 Oct 2024 7:04 pm Operator: PMai
Sample : CVO06J195 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.083	0.051	38.6#	60	0.02
52	T,M	4-Methyl-2-pentanone	0.139	0.132	5.0	84	0.02
53	T,M	cis-1,3-Dichloropropene	0.391	0.352	10.0	79	0.02
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	96	0.01
55	S	Toluene-d8	1.382	1.562	-13.0	84	0.02
56	C,T,M	Toluene	1.660	1.766	-6.4	85	0.02
57	T,M	Ethyl methacrylate	0.269	0.218	19.0	63	0.02
58	T,M	trans-1,3-Dichloropropene	0.390	0.378	3.1	75	0.00
59	T,M	1,1,2-Trichloroethane	0.209	0.188	10.0	72	0.00
60	T,M	2-Hexanone	0.118	0.111	5.9	74	0.02
61	T,M	1,3-Dichloropropane	0.372	0.337	9.4	71	0.02
62	T,M	Tetrachloroethene	0.352	0.366	-4.0	83	0.00
63	T,M	Dibromochloromethane	0.258	0.239	7.4	75	0.02
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.171	10.5	69	0.02
66	T,M	1-Chlorohexane	0.676	0.630	6.8	79	0.02
67	P,T,M	Chlorobenzene	0.907	0.899	0.9	77	0.01
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.359	-17.3	93	0.01
69	C,T,M	Ethylbenzene	1.791	1.843	-2.9	81	0.01
70	T,M	m-Xylene & p-Xylene	1.341	1.343	-0.1	81	0.00
71	T,M	o-Xylene	1.351	1.466	-8.5	88	0.01
72	T,M	Styrene	0.966	0.898	7.0	72	0.00
73	T,M	Isopropylbenzene	1.752	1.975	-12.7	90	0.01
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	98	0.00
75	P,T,M	Bromoform	0.312	0.228	26.9#	61	0.01
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.516	5.1	76	0.01
77	S	4-Bromofluorobenzene	1.116	1.037	7.1	73	0.00
78	T,M	1,2,3-Trichloropropane	0.139	0.118	15.1	73	0.01
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.100	22.5#	64	0.01
80	T,M	n-Propylbenzene	5.578	5.677	-1.8	83	0.01
81	T,M	Bromobenzene	0.891	0.762	14.5	68	0.01
82	T,M	1,3,5-Trimethylbenzene	3.477	3.788	-8.9	87	0.01
83	T,M	2-Chlorotoluene	3.364	3.456	-2.7	87	0.00
84	T,M	4-Chlorotoluene	2.888	2.820	2.4	74	0.01
85	T,M	tert-Butylbenzene	0.774	0.885	-14.3	91	0.00
86	T,M	1,2,4-Trimethylbenzene	3.400	3.616	-6.4	85	0.00
87	T,M	sec-Butylbenzene	4.841	5.296	-9.4	88	0.01
88	T,M	p-Isopropyltoluene	3.830	4.240	-10.7	88	0.00
89	T,M	1,3-Dichlorobenzene	1.733	1.629	6.0	74	0.01
90	T,M	1,2,3-Trimethylbenzene	3.005	3.249	-8.1	86	0.01
91	T,M	1,4-Dichlorobenzene	1.673	1.569	6.2	73	0.00
92	T,M	n-Butylbenzene	3.769	4.078	-8.2	88	0.01
93	T,M	1,2-Dichlorobenzene	1.413	1.413	0.0	79	0.00
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.068	20.0	76	0.01
95	T,M	1,2,4-Trichlorobenzene	0.820	0.878	-7.1	89	0.00
96	T,M	Hexachlorobutadiene	0.489	0.554	-13.3	90	0.00
97	T,M	Naphthalene	1.149	1.148	0.1	84	0.01
98	T,M	1,2,3-Trichlorobenzene	0.618	0.619	-0.2	84	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW489.D Vial: 45
Acq On : 25 Oct 2024 8:39 am Operator: PMai
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	100	0.00
2	T,M	Dichlorodifluoromethane	10.000	7.911	20.9#	66	0.02
3	P,T,M	Chloromethane	10.000	8.892	11.1	72	0.00
4	C,T,M	Vinyl chloride	10.000	7.830	21.7#	60	0.00
5	T,M	Bromomethane	10.000	8.460	15.4	71	0.00
6	T,M	Chloroethane	10.000	8.084	19.2	66	0.02
7	T,M	Dichlorofluoromethane	10.000	10.126	-1.3	86	0.02
8	T,M	Trichlorofluoromethane	10.000	7.789	22.1#	64	0.00
9	T,M	Acrolein	50.000	27.325	45.4#	49	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	7.126	28.7#	59	0.00
11	T,M	Acetone	50.000	51.360	-2.7	96	0.00
12	C,T,M	1,1-Dichloroethene	10.000	9.866	1.3	83	0.00
13	T,M	tert-Butyl alcohol	250.000	192.848	22.9#	70	-0.02
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	6.760	32.4#	68	0.00
16	T,M	Iodomethane	10.000	9.306	6.9	78	0.00
17	T,M	Allyl chloride	10.000	8.829	11.7	76	0.00
18	T,M	Methylene chloride	10.000	11.792	-17.9	101	0.00
19	T,M	Carbon disulfide	10.000	8.531	14.7	68	0.00
20	T,M	Acrylonitrile	50.000	54.383	-8.8	94	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	9.776	2.2	82	0.00
22	T,M	trans-1,2-Dichloroethene	10.000	9.092	9.1	79	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	12.147	-21.5#	100	-0.02
24	T,M	Vinyl acetate	10.000	7.326	26.7#	60	0.00
25	P,T,M	1,1-Dichloroethane	10.000	10.567	-5.7	90	0.00
26	T,M	2-Butanol	250.000	179.790	28.1#	68	0.00
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.424	-4.2	91	0.00
28	T,M	2-Butanone	50.000	55.751	-11.5	95	-0.02
29	T,M	2,2-Dichloropropane	10.000	8.421	15.8	68	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	9.764	2.4	84	-0.02
31	C,T,M	Chloroform	10.000	9.884	1.2	87	0.00
32	T,M	Bromochloromethane	10.000	8.407	15.9	71	0.00
33	T,M	Tetrahydrofuran	10.000	6.614	33.9#	69	0.00
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	-0.04
35	S	Dibromofluoromethane	10.000	10.672	-6.7	83	0.00
36	T,M	1,1,1-Trichloroethane	10.000	10.302	-3.0	88	0.00
37	T,M	Cyclohexane	10.000	6.843	31.6#	58	0.00
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	-0.02
39	T,M	1,1-Dichloropropene	10.000	7.972	20.3#	70	0.00
40	T,M	Carbon tetrachloride	10.000	9.475	5.3	79	0.00
41	T,M	tert-Amyl methyl ether (TAM	10.000	10.147	-1.5	86	-0.02
42	S	1,2-Dichloroethane-d4	10.000	11.636	-16.4	89	0.00
43	T,M	1,2-Dichloroethane	10.000	11.258	-12.6	93	0.00
44	T,M	Benzene	10.000	10.749	-7.5	89	0.00
45	T,M	Trichloroethene	10.000	9.624	3.8	81	0.00
46	T,M	Methylcyclohexane	10.000	6.909	30.9#	63	0.00
47	C,T,M	1,2-Dichloropropane	10.000	10.532	-5.3	90	0.00
48	T,M	1,4-Dioxane	200.000	114.122	42.9#	55	0.00
49	T,M	Bromodichloromethane	10.000	10.372	-3.7	89	0.00
50	T,M	Dibromomethane	10.000	8.887	11.1	77	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW489.D Vial: 45
Acq On : 25 Oct 2024 8:39 am Operator: PMai
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	7.459	25.4#	67	0.00
52	T,M	4-Methyl-2-pentanone	50.000	65.502	-31.0#	106	0.00
53	T,M	cis-1,3-Dichloropropene	10.000	10.018	-0.2	81	0.00
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	101	0.00
55	S	Toluene-d8	10.000	10.925	-9.3	85	0.00
56	C,T,M	Toluene	10.000	10.358	-3.6	88	0.00
57	T,M	Ethyl methacrylate	10.000	9.740	2.6	80	0.00
58	T,M	trans-1,3-Dichloropropene	10.000	9.738	2.6	79	0.00
59	T,M	1,1,2-Trichloroethane	10.000	9.489	5.1	80	0.00
60	T,M	2-Hexanone	50.000	61.873	-23.7#	103	0.00
61	T,M	1,3-Dichloropropane	10.000	10.099	-1.0	83	0.00
62	T,M	Tetrachloroethene	10.000	8.593	14.1	72	0.00
63	T,M	Dibromochloromethane	10.000	8.918	10.8	76	0.00
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	9.355	6.4	76	0.00
66	T,M	1-Chlorohexane	10.000	10.602	-6.0	94	0.00
67	P,T,M	Chlorobenzene	10.000	10.595	-6.0	86	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	10.000	9.423	5.8	79	0.00
69	C,T,M	Ethylbenzene	10.000	10.483	-4.8	87	0.00
70	T,M	m-Xylene & p-Xylene	20.000	20.844	-4.2	89	-0.01
71	T,M	o-Xylene	10.000	10.368	-3.7	89	0.00
72	T,M	Styrene	10.000	10.836	-8.4	88	-0.01
73	T,M	Isopropylbenzene	10.000	10.277	-2.8	87	-0.01
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	93	0.00
75	P,T,M	Bromoform	10.000	8.508	14.9	68	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	9.837	1.6	75	0.00
77	S	4-Bromofluorobenzene	10.000	11.028	-10.3	83	-0.01
78	T,M	1,2,3-Trichloropropane	10.000	8.515	14.8	70	-0.01
79	T,M	trans-1,4-Dichloro-2-butene	10.000	8.944	10.6	71	0.00
80	T,M	n-Propylbenzene	10.000	10.984	-9.8	85	0.00
81	T,M	Bromobenzene	10.000	9.766	2.3	74	0.00
82	T,M	1,3,5-Trimethylbenzene	10.000	10.938	-9.4	83	0.00
83	T,M	2-Chlorotoluene	10.000	11.080	-10.8	89	0.00
84	T,M	4-Chlorotoluene	10.000	11.583	-15.8	84	0.00
85	T,M	tert-Butylbenzene	10.000	10.121	-1.2	77	-0.01
86	T,M	1,2,4-Trimethylbenzene	10.000	11.051	-10.5	85	0.00
87	T,M	sec-Butylbenzene	10.000	10.866	-8.7	84	0.00
88	T,M	p-Isopropyltoluene	10.000	10.566	-5.7	80	-0.01
89	T,M	1,3-Dichlorobenzene	10.000	10.292	-2.9	77	0.00
90	T,M	1,2,3-Trimethylbenzene	10.000	11.121	-11.2	85	0.00
91	T,M	1,4-Dichlorobenzene	10.000	10.207	-2.1	75	-0.01
92	T,M	n-Butylbenzene	10.000	10.555	-5.5	82	0.00
93	T,M	1,2-Dichlorobenzene	10.000	9.851	1.5	75	0.00
94	T,M	1,2-Dibromo-3-chloropropane	10.000	5.414	45.9#	49	0.00
95	T,M	1,2,4-Trichlorobenzene	10.000	8.959	10.4	71	0.00
96	T,M	Hexachlorobutadiene	10.000	8.800	12.0	67	-0.01
97	T,M	Naphthalene	10.000	8.247	17.5	66	0.00
98	T,M	1,2,3-Trichlorobenzene	10.000	7.827	21.7#	62	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW489.D Vial: 45
Acq On : 25 Oct 2024 8:39 am Operator: PMai
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	100	0.00
2	T,M	Dichlorodifluoromethane	0.356	0.281	21.1#	66	0.02
3	P,T,M	Chloromethane	0.346	0.307	11.3	72	0.00
4	C,T,M	Vinyl chloride	0.277	0.217	21.7#	60	0.00
5	T,M	Bromomethane	0.252	0.213	15.5	71	0.00
6	T,M	Chloroethane	0.191	0.154	19.4	66	0.02
7	T,M	Dichlorofluoromethane	0.468	0.474	-1.3	86	0.02
8	T,M	Trichlorofluoromethane	0.371	0.289	22.1#	64	0.00
9	T,M	Acrolein	0.010	0.006	40.0#	49#	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.152	28.6#	59	0.00
11	T,M	Acetone	0.031	0.032	-3.2	96	0.00
12	C,T,M	1,1-Dichloroethene	0.453	0.447	1.3	83	0.00
13	T,M	tert-Butyl alcohol	0.009	0.007	22.2#	70	-0.02
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.014	33.3#	68	0.00
16	T,M	Iodomethane	0.464	0.432	6.9	78	0.00
17	T,M	Allyl chloride	0.181	0.160	11.6	76	0.00
18	T,M	Methylene chloride	0.332	0.392	-18.1	101	0.00
19	T,M	Carbon disulfide	0.567	0.484	14.6	68	0.00
20	T,M	Acrylonitrile	0.041	0.045	-9.8	94	0.00
21	T,M	tert-Butyl methyl ether (MT	0.482	0.472	2.1	82	0.00
22	T,M	trans-1,2-Dichloroethene	0.339	0.308	9.1	79	0.00
23	T,M	Isopropyl ether (DIPE)	0.895	1.087	-21.5#	100	-0.02
24	T,M	Vinyl acetate	0.311	0.228	26.7#	60	0.00
25	P,T,M	1,1-Dichloroethane	0.504	0.533	-5.8	90	0.00
26	T,M	2-Butanol	0.009	0.006	33.3#	68	0.00
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.690	-4.2	91	0.00
28	T,M	2-Butanone	0.052	0.058	-11.5	95	-0.02
29	T,M	2,2-Dichloropropane	0.302	0.254	15.9	68	-0.02
30	T,M	cis-1,2-Dichloroethene	0.327	0.319	2.4	84	-0.02
31	C,T,M	Chloroform	0.503	0.498	1.0	87	0.00
32	T,M	Bromochloromethane	0.139	0.117	15.8	71	0.00
33	T,M	Tetrahydrofuran	0.030	0.020	33.3#	69	0.00
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	-0.04
35	S	Dibromofluoromethane	0.245	0.261	-6.5	83	0.00
36	T,M	1,1,1-Trichloroethane	0.402	0.414	-3.0	88	0.00
37	T,M	Cyclohexane	0.502	0.343	31.7#	58	0.00
38	T,M	2,2,4-Trimethylpentane	0.000	0.000	0.0	0#	-0.02
39	T,M	1,1-Dichloropropene	0.148	0.118	20.3#	70	0.00
40	T,M	Carbon tetrachloride	0.327	0.310	5.2	79	0.00
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.568	-1.4	86	-0.02
42	S	1,2-Dichloroethane-d4	0.170	0.197	-15.9	89	0.00
43	T,M	1,2-Dichloroethane	0.204	0.230	-12.7	93	0.00
44	T,M	Benzene	1.159	1.246	-7.5	89	0.00
45	T,M	Trichloroethene	0.306	0.295	3.6	81	0.00
46	T,M	Methylcyclohexane	0.624	0.431	30.9#	63	0.00
47	C,T,M	1,2-Dichloropropane	0.252	0.266	-5.6	90	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	55	0.00
49	T,M	Bromodichloromethane	0.326	0.338	-3.7	89	0.00
50	T,M	Dibromomethane	0.122	0.108	11.5	77	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW489.D Vial: 45
Acq On : 25 Oct 2024 8:39 am Operator: PMai
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.083	0.062	25.3#	67	0.00
52	T,M	4-Methyl-2-pentanone	0.139	0.182	-30.9#	106	0.00
53	T,M	cis-1,3-Dichloropropene	0.391	0.391	0.0	81	0.00
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	101	0.00
55	S	Toluene-d8	1.382	1.510	-9.3	85	0.00
56	C,T,M	Toluene	1.660	1.719	-3.6	88	0.00
57	T,M	Ethyl methacrylate	0.269	0.262	2.6	80	0.00
58	T,M	trans-1,3-Dichloropropene	0.390	0.380	2.6	79	0.00
59	T,M	1,1,2-Trichloroethane	0.209	0.198	5.3	80	0.00
60	T,M	2-Hexanone	0.118	0.146	-23.7#	103	0.00
61	T,M	1,3-Dichloropropane	0.372	0.375	-0.8	83	0.00
62	T,M	Tetrachloroethene	0.352	0.303	13.9	72	0.00
63	T,M	Dibromochloromethane	0.258	0.230	10.9	76	0.00
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.178	6.8	76	0.00
66	T,M	1-Chlorohexane	0.676	0.717	-6.1	94	0.00
67	P,T,M	Chlorobenzene	0.907	0.961	-6.0	86	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.289	5.6	79	0.00
69	C,T,M	Ethylbenzene	1.791	1.877	-4.8	87	0.00
70	T,M	m-Xylene & p-Xylene	1.341	1.397	-4.2	89	-0.01
71	T,M	o-Xylene	1.351	1.401	-3.7	89	0.00
72	T,M	Styrene	0.966	1.046	-8.3	88	-0.01
73	T,M	Isopropylbenzene	1.752	1.800	-2.7	87	-0.01
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	93	0.00
75	P,T,M	Bromoform	0.312	0.266	14.7	68	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.535	1.7	75	0.00
77	S	4-Bromofluorobenzene	1.116	1.231	-10.3	83	-0.01
78	T,M	1,2,3-Trichloropropane	0.139	0.119	14.4	70	-0.01
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.115	10.9	71	0.00
80	T,M	n-Propylbenzene	5.578	6.127	-9.8	85	0.00
81	T,M	Bromobenzene	0.891	0.870	2.4	74	0.00
82	T,M	1,3,5-Trimethylbenzene	3.477	3.803	-9.4	83	0.00
83	T,M	2-Chlorotoluene	3.364	3.727	-10.8	89	0.00
84	T,M	4-Chlorotoluene	2.888	3.346	-15.9	84	0.00
85	T,M	tert-Butylbenzene	0.774	0.783	-1.2	77	-0.01
86	T,M	1,2,4-Trimethylbenzene	3.400	3.757	-10.5	85	0.00
87	T,M	sec-Butylbenzene	4.841	5.261	-8.7	84	0.00
88	T,M	p-Isopropyltoluene	3.830	4.047	-5.7	80	-0.01
89	T,M	1,3-Dichlorobenzene	1.733	1.784	-2.9	77	0.00
90	T,M	1,2,3-Trimethylbenzene	3.005	3.342	-11.2	85	0.00
91	T,M	1,4-Dichlorobenzene	1.673	1.707	-2.0	75	-0.01
92	T,M	n-Butylbenzene	3.769	3.978	-5.5	82	0.00
93	T,M	1,2-Dichlorobenzene	1.413	1.392	1.5	75	0.00
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.046	45.9#	49#	0.00
95	T,M	1,2,4-Trichlorobenzene	0.820	0.734	10.5	71	0.00
96	T,M	Hexachlorobutadiene	0.489	0.432	11.7	67	-0.01
97	T,M	Naphthalene	1.149	0.947	17.6	66	0.00
98	T,M	1,2,3-Trichlorobenzene	0.618	0.484	21.7#	62	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : TITAN 1-A
Lab Code : EMAX SDG No : 24J145
Lab File ID: RIW492 BFB Injection Date: 10/26/24
Instrument ID: 06 BFB Injection Time: 13:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	17.951
75	30 - 60% of mass 95	45.718
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	5.654
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	67.133
175	5 - 9% of mass 174	4.990(7.43)1
176	95 - 101% % of mass 174	65.168(97.07)1
177	5 - 9% % of mass 176	3.432(5.27)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, Lab QCs and Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD10	CVO06J196	RIW493	10/26/24	14:09
2	LCS2W	VO06J23L	RIW494	10/26/24	15:08
3	LCD2W	VO06J23C	RIW495	10/26/24	15:34
4	MBLK2W	VO06J23B	RIW497	10/26/24	16:27
5	T1AMF-MW059_OCT24	24J145-11	RIW498	10/26/24	16:53
6	T1AMF-MW062_OCT24	24J145-04	RIW499	10/26/24	17:19
7	T1AMF-MW061_OCT24	24J145-05	RIW500	10/26/24	17:45
8	T1AMF-MW030_OCT24	24J145-06	RIW501	10/26/24	18:11
9	T1AMF-MW030_OCT24_FD	24J145-07	RIW502	10/26/24	18:38
10	T1AMF-MW057_OCT24	24J145-08	RIW503	10/26/24	19:04
11	T1AMF-MW048_OCT24	24J145-09	RIW504	10/26/24	19:30
12	T1AMF-MW060_OCT24	24J145-10	RIW505	10/26/24	19:57
13	T1AMF-MW059_OCT24MS	24J145-11M	RIW509	10/26/24	21:42
14	T1AMF-MW059_OCT24MSD	24J145-11S	RIW510	10/26/24	22:08
15	VSTD10	EVO06J196	RIW511	10/26/24	22:34

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: EMAX Laboratories, Inc.
Lab Code: EMAX
Lab File ID: RIW364
Instrument ID: 06

Project: TITAN 1-A
SDG No: 24J145
Date Analyzed: 10/19/24
Time Analyzed: 18:11

	INTERNAL STANDARD (IS)	1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5		1,2-DICHLOROBENZENE-D4	
		Area #	RT #	Area #	RT #	Area #	RT #
	12 HOUR STD	3831558	9.84	2808641	15.34	1084745	19.28
	UPPER LIMIT	7663116	10.0	5617282	15.51	2169490	19.45
	LOWER LIMIT	1915779	9.67	1404321	15.17	542373	19.11
		Area #	RT #	Area #	RT #	Area #	RT #
1	VSTD10	4329355	9.84	3201921	15.34	1059448	19.28
2	LCS2W	3344582	9.86	2227804	15.34	801767	19.28
3	LCD2W	4306769	9.84	3156215	15.34	1021343	19.28
4	MBLK2W	4008075	9.86	3002579	15.34	1031891	19.28
5	T1AMF-MW059_OCT24	3495902	9.84	2788721	15.34	999316	19.28
6	T1AMF-MW062_OCT24	3281594	9.84	2560008	15.34	886649	19.28
7	T1AMF-MW061_OCT24	3217301	9.86	2460843	15.34	821026	19.28
8	T1AMF-MW030_OCT24	2947622	9.84	2307617	15.34	808194	19.28
9	T1AMF-MW030_OCT24_FD	2929962	9.84	2285309	15.34	847260	19.28
10	T1AMF-MW057_OCT24	2997310	9.84	2332924	15.34	843934	19.28
11	T1AMF-MW048_OCT24	2859735	9.84	2172798	15.34	721734	19.28
12	T1AMF-MW060_OCT24	2741380	9.84	2129418	15.34	746929	19.28
13	T1AMF-MW059_OCT24MS	2753739	9.84	2127720	15.33	750759	19.27
14	T1AMF-MW059_OCT24MSD	2786874	9.84	2133078	15.33	752943	19.28
15	VSTD10	3124786	9.84	2361812	15.33	794339	19.27

Area Upper Limit = +100% of ICAL Midpoint IS Area
Area Lower Limit = -50% of ICAL Midpoint IS Area
Retention Time(RT) Upper Limit = +10 seconds of ICAL Midpoint IS RT
Retention Time(RT) Lower Limit = -10 seconds of ICAL Midpoint IS RT

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW493.D Vial: 2
Acq On : 26 Oct 2024 2:09 pm Operator: DNguye
Sample : CVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	113	0.00
2	T,M	Dichlorodifluoromethane	10.000	8.948	10.5	85	0.02
3	P,T,M	Chloromethane	10.000	9.734	2.7	89	0.00
4	C,T,M	Vinyl chloride	10.000	9.175	8.2	80	0.02
5	T,M	Bromomethane	10.000	7.819	21.8#	74	0.02
6	T,M	Chloroethane	10.000	8.110	18.9	75	0.02
7	T,M	Dichlorofluoromethane	10.000	9.729	2.7	93	0.02
8	T,M	Trichlorofluoromethane	10.000	8.758	12.4	81	0.02
9	T,M	Acrolein	50.000	42.689	14.6	86	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	7.459	25.4#	69	0.00
11	T,M	Acetone	50.000	55.941	-11.9	117	0.00
12	C,T,M	1,1-Dichloroethene	10.000	9.984	0.2	95	0.00
13	T,M	tert-Butyl alcohol	250.000	261.242	-4.5	106	0.00
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	8.921	10.8	102	0.00
16	T,M	Iodomethane	10.000	8.230	17.7	78	0.00
17	T,M	Allyl chloride	10.000	8.953	10.5	86	0.00
18	T,M	Methylene chloride	10.000	11.766	-17.7	114	0.00
19	T,M	Carbon disulfide	10.000	7.655	23.4#	69	0.00
20	T,M	Acrylonitrile	50.000	52.434	-4.9	102	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	10.314	-3.1	97	0.02
22	T,M	trans-1,2-Dichloroethene	10.000	8.987	10.1	88	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	12.989	-29.9#	121	0.00
24	T,M	Vinyl acetate	10.000	11.636	-16.4	108	0.00
25	P,T,M	1,1-Dichloroethane	10.000	10.696	-7.0	103	0.00
26	T,M	2-Butanol	250.000	306.092	-22.4#	130	0.00
27	T,M	tert-Butyl ethyl ether (ETB	10.000	11.587	-15.9	113	0.00
28	T,M	2-Butanone	50.000	57.943	-15.9	112	0.00
29	T,M	2,2-Dichloropropane	10.000	10.928	-9.3	99	0.00
30	T,M	cis-1,2-Dichloroethene	10.000	9.492	5.1	92	0.00
31	C,T,M	Chloroform	10.000	9.723	2.8	97	0.00
32	T,M	Bromochloromethane	10.000	8.651	13.5	82	0.00
33	T,M	Tetrahydrofuran	10.000	9.566	4.3	112	0.02
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	-0.02
35	S	Dibromofluoromethane	10.000	8.742	12.6	77	0.00
36	T,M	1,1,1-Trichloroethane	10.000	10.094	-0.9	97	0.02
37	T,M	Cyclohexane	10.000	10.104	-1.0	97	0.00
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	0.12
39	T,M	1,1-Dichloropropene	10.000	8.902	11.0	88	0.00
40	T,M	Carbon tetrachloride	10.000	9.891	1.1	93	0.00
41	T,M	tert-Amyl methyl ether (TAM	10.000	10.582	-5.8	101	0.00
42	S	1,2-Dichloroethane-d4	10.000	10.427	-4.3	90	0.00
43	T,M	1,2-Dichloroethane	10.000	12.204	-22.0#	114	0.00
44	T,M	Benzene	10.000	10.286	-2.9	96	0.02
45	T,M	Trichloroethene	10.000	9.065	9.4	86	0.00
46	T,M	Methylcyclohexane	10.000	10.250	-2.5	105	0.00
47	C,T,M	1,2-Dichloropropane	10.000	11.203	-12.0	108	0.00
48	T,M	1,4-Dioxane	200.000	136.110	31.9#	74	0.02
49	T,M	Bromodichloromethane	10.000	10.171	-1.7	99	0.02
50	T,M	Dibromomethane	10.000	9.882	1.2	96	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW493.D Vial: 2
Acq On : 26 Oct 2024 2:09 pm Operator: DNguye
Sample : CVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	9.386	6.1	95	0.00
52	T,M	4-Methyl-2-pentanone	50.000	64.372	-28.7#	117	0.00
53	T,M	cis-1,3-Dichloropropene	10.000	10.573	-5.7	96	0.02
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	114	0.00
55	S	Toluene-d8	10.000	9.243	7.6	81	0.02
56	C,T,M	Toluene	10.000	10.092	-0.9	96	0.00
57	T,M	Ethyl methacrylate	10.000	10.782	-7.8	100	0.00
58	T,M	trans-1,3-Dichloropropene	10.000	10.975	-9.7	101	0.00
59	T,M	1,1,2-Trichloroethane	10.000	10.014	-0.1	95	0.00
60	T,M	2-Hexanone	50.000	63.234	-26.5#	119	0.02
61	T,M	1,3-Dichloropropane	10.000	10.321	-3.2	96	0.00
62	T,M	Tetrachloroethene	10.000	8.220	17.8	78	0.00
63	T,M	Dibromochloromethane	10.000	9.003	10.0	86	0.00
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	9.709	2.9	89	0.02
66	T,M	1-Chlorohexane	10.000	9.946	0.5	100	0.01
67	P,T,M	Chlorobenzene	10.000	10.388	-3.9	96	0.00
68	T,M	1,1,1,2-Tetrachloroethane	10.000	9.457	5.4	89	0.00
69	C,T,M	Ethylbenzene	10.000	10.058	-0.6	94	0.00
70	T,M	m-Xylene & p-Xylene	20.000	20.014	-0.1	96	-0.01
71	T,M	o-Xylene	10.000	10.006	-0.1	97	0.00
72	T,M	Styrene	10.000	10.432	-4.3	96	0.00
73	T,M	Isopropylbenzene	10.000	10.031	-0.3	95	0.00
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	98	0.00
75	P,T,M	Bromoform	10.000	9.586	4.1	81	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	12.081	-20.8#	96	0.00
77	S	4-Bromofluorobenzene	10.000	10.229	-2.3	81	0.00
78	T,M	1,2,3-Trichloropropane	10.000	10.534	-5.3	90	0.00
79	T,M	trans-1,4-Dichloro-2-butene	10.000	13.500	-35.0#	112	0.01
80	T,M	n-Propylbenzene	10.000	11.872	-18.7	96	0.00
81	T,M	Bromobenzene	10.000	10.007	-0.1	79	0.00
82	T,M	1,3,5-Trimethylbenzene	10.000	11.841	-18.4	94	0.00
83	T,M	2-Chlorotoluene	10.000	12.427	-24.3#	105	0.00
84	T,M	4-Chlorotoluene	10.000	11.694	-16.9	89	0.00
85	T,M	tert-Butylbenzene	10.000	11.047	-10.5	88	0.00
86	T,M	1,2,4-Trimethylbenzene	10.000	11.896	-19.0	95	0.00
87	T,M	sec-Butylbenzene	10.000	11.860	-18.6	95	0.00
88	T,M	p-Isopropyltoluene	10.000	11.633	-16.3	93	0.00
89	T,M	1,3-Dichlorobenzene	10.000	10.509	-5.1	82	0.00
90	T,M	1,2,3-Trimethylbenzene	10.000	11.844	-18.4	94	0.00
91	T,M	1,4-Dichlorobenzene	10.000	10.556	-5.6	82	0.00
92	T,M	n-Butylbenzene	10.000	11.760	-17.6	96	0.00
93	T,M	1,2-Dichlorobenzene	10.000	10.482	-4.8	83	0.00
94	T,M	1,2-Dibromo-3-chloropropane	10.000	7.584	24.2#	72	0.00
95	T,M	1,2,4-Trichlorobenzene	10.000	9.942	0.6	82	0.00
96	T,M	Hexachlorobutadiene	10.000	9.979	0.2	79	0.00
97	T,M	Naphthalene	10.000	10.091	-0.9	84	0.00
98	T,M	1,2,3-Trichlorobenzene	10.000	9.198	8.0	77	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW493.D Vial: 2
Acq On : 26 Oct 2024 2:09 pm Operator: DNguye
Sample : CVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	113	0.00
2	T,M	Dichlorodifluoromethane	0.356	0.318	10.7	85	0.02
3	P,T,M	Chloromethane	0.346	0.336	2.9	89	0.00
4	C,T,M	Vinyl chloride	0.277	0.254	8.3	80	0.02
5	T,M	Bromomethane	0.252	0.197	21.8#	74	0.02
6	T,M	Chloroethane	0.191	0.155	18.8	75	0.02
7	T,M	Dichlorofluoromethane	0.468	0.455	2.8	93	0.02
8	T,M	Trichlorofluoromethane	0.371	0.325	12.4	81	0.02
9	T,M	Acrolein	0.010	0.009	10.0	86	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.159	25.4#	69	0.00
11	T,M	Acetone	0.031	0.035	-12.9	117	0.00
12	C,T,M	1,1-Dichloroethene	0.453	0.452	0.2	95	0.00
13	T,M	tert-Butyl alcohol	0.009	0.009	0.0	106	0.00
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.019	9.5	102	0.00
16	T,M	Iodomethane	0.464	0.382	17.7	78	0.00
17	T,M	Allyl chloride	0.181	0.162	10.5	86	0.00
18	T,M	Methylene chloride	0.332	0.391	-17.8	114	0.00
19	T,M	Carbon disulfide	0.567	0.434	23.5#	69	0.00
20	T,M	Acrylonitrile	0.041	0.043	-4.9	102	0.00
21	T,M	tert-Butyl methyl ether (MT	0.482	0.498	-3.3	97	0.02
22	T,M	trans-1,2-Dichloroethene	0.339	0.305	10.0	88	0.00
23	T,M	Isopropyl ether (DIPE)	0.895	1.163	-29.9#	121	0.00
24	T,M	Vinyl acetate	0.311	0.361	-16.1	108	0.00
25	P,T,M	1,1-Dichloroethane	0.504	0.539	-6.9	103	0.00
26	T,M	2-Butanol	0.009	0.011	-22.2#	130	0.00
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.767	-15.9	113	0.00
28	T,M	2-Butanone	0.052	0.060	-15.4	112	0.00
29	T,M	2,2-Dichloropropane	0.302	0.330	-9.3	99	0.00
30	T,M	cis-1,2-Dichloroethene	0.327	0.311	4.9	92	0.00
31	C,T,M	Chloroform	0.503	0.489	2.8	97	0.00
32	T,M	Bromochloromethane	0.139	0.121	12.9	82	0.00
33	T,M	Tetrahydrofuran	0.030	0.029	3.3	112	0.02
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	-0.02
35	S	Dibromofluoromethane	0.245	0.214	12.7	77	0.00
36	T,M	1,1,1-Trichloroethane	0.402	0.405	-0.7	97	0.02
37	T,M	Cyclohexane	0.502	0.507	-1.0	97	0.00
38	T,M	2,2,4-Trimethylpentane	0.000	0.000	0.0	0#	0.12
39	T,M	1,1-Dichloropropene	0.148	0.132	10.8	88	0.00
40	T,M	Carbon tetrachloride	0.327	0.324	0.9	93	0.00
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.593	-5.9	101	0.00
42	S	1,2-Dichloroethane-d4	0.170	0.177	-4.1	90	0.00
43	T,M	1,2-Dichloroethane	0.204	0.249	-22.1#	114	0.00
44	T,M	Benzene	1.159	1.192	-2.8	96	0.02
45	T,M	Trichloroethene	0.306	0.277	9.5	86	0.00
46	T,M	Methylcyclohexane	0.624	0.640	-2.6	105	0.00
47	C,T,M	1,2-Dichloropropane	0.252	0.282	-11.9	108	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	74	0.02
49	T,M	Bromodichloromethane	0.326	0.332	-1.8	99	0.02
50	T,M	Dibromomethane	0.122	0.120	1.6	96	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW493.D Vial: 2
Acq On : 26 Oct 2024 2:09 pm Operator: DNguye
Sample : CVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.083	0.077	7.2	95	0.00
52	T,M	4-Methyl-2-pentanone	0.139	0.179	-28.8#	117	0.00
53	T,M	cis-1,3-Dichloropropene	0.391	0.413	-5.6	96	0.02
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	114	0.00
55	S	Toluene-d8	1.382	1.277	7.6	81	0.02
56	C,T,M	Toluene	1.660	1.675	-0.9	96	0.00
57	T,M	Ethyl methacrylate	0.269	0.290	-7.8	100	0.00
58	T,M	trans-1,3-Dichloropropene	0.390	0.428	-9.7	101	0.00
59	T,M	1,1,2-Trichloroethane	0.209	0.209	0.0	95	0.00
60	T,M	2-Hexanone	0.118	0.150	-27.[illegible]#	119	0.02
61	T,M	1,3-Dichloropropane	0.372	0.384	-3.2	96	0.00
62	T,M	Tetrachloroethene	0.352	0.290	17.6	78	0.00
63	T,M	Dibromochloromethane	0.258	0.232	10.1	86	0.00
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.185	3.1	89	0.02
66	T,M	1-Chlorohexane	0.676	0.673	0.4	100	0.01
67	P,T,M	Chlorobenzene	0.907	0.942	-3.9	96	0.00
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.290	5.2	89	0.00
69	C,T,M	Ethylbenzene	1.791	1.801	-0.6	94	0.00
70	T,M	m-Xylene & p-Xylene	1.341	1.342	-0.1	96	-0.01
71	T,M	o-Xylene	1.351	1.352	-0.1	97	0.00
72	T,M	Styrene	0.966	1.007	-4.2	96	0.00
73	T,M	Isopropylbenzene	1.752	1.757	-0.3	95	0.00
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	98	0.00
75	P,T,M	Bromoform	0.312	0.299	4.2	81	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.657	-20.8#	96	0.00
77	S	4-Bromofluorobenzene	1.116	1.142	-2.3	81	0.00
78	T,M	1,2,3-Trichloropropane	0.139	0.147	-5.8	90	0.00
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.174	-34.9#	112	0.01
80	T,M	n-Propylbenzene	5.578	6.622	-18.7	96	0.00
81	T,M	Bromobenzene	0.891	0.891	0.0	79	0.00
82	T,M	1,3,5-Trimethylbenzene	3.477	4.117	-18.4	94	0.00
83	T,M	2-Chlorotoluene	3.364	4.180	-24.3#	105	0.00
84	T,M	4-Chlorotoluene	2.888	3.378	-17.0	89	0.00
85	T,M	tert-Butylbenzene	0.774	0.855	-10.5	88	0.00
86	T,M	1,2,4-Trimethylbenzene	3.400	4.045	-19.0	95	0.00
87	T,M	sec-Butylbenzene	4.841	5.742	-18.6	95	0.00
88	T,M	p-Isopropyltoluene	3.830	4.455	-16.3	93	0.00
89	T,M	1,3-Dichlorobenzene	1.733	1.821	-5.1	82	0.00
90	T,M	1,2,3-Trimethylbenzene	3.005	3.559	-18.4	94	0.00
91	T,M	1,4-Dichlorobenzene	1.673	1.765	-5.5	82	0.00
92	T,M	n-Butylbenzene	3.769	4.432	-17.6	96	0.00
93	T,M	1,2-Dichlorobenzene	1.413	1.481	-4.8	83	0.00
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.064	24.7#	72	0.00
95	T,M	1,2,4-Trichlorobenzene	0.820	0.815	0.6	82	0.00
96	T,M	Hexachlorobutadiene	0.489	0.488	0.2	79	0.00
97	T,M	Naphthalene	1.149	1.159	-0.9	84	0.00
98	T,M	1,2,3-Trichlorobenzene	0.618	0.568	8.1	77	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW511.D Vial: 20
Acq On : 26 Oct 2024 10:34 pm Operator: DNguye
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	82	0.00
2	T,M	Dichlorodifluoromethane	10.000	8.817	11.8	60	0.02
3	P,T,M	Chloromethane	10.000	9.566	4.3	63	0.00
4	C,T,M	Vinyl chloride	10.000	9.121	8.8	57	0.02
5	T,M	Bromomethane	10.000	8.180	18.2	56	0.00
6	T,M	Chloroethane	10.000	7.687	23.1#	51	0.02
7	T,M	Dichlorofluoromethane	10.000	9.207	7.9	63	0.02
8	T,M	Trichlorofluoromethane	10.000	8.868	11.3	59	0.00
9	T,M	Acrolein	50.000	36.326	27.3#	53	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	6.517	34.8#	44	0.00
11	T,M	Acetone	50.000	48.488	3.0	73	0.00
12	C,T,M	1,1-Dichloroethene	10.000	9.622	3.8	66	0.00
13	T,M	tert-Butyl alcohol	250.000	199.753	20.1#	59	0.00
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	7.310	26.9#	60	-0.02
16	T,M	Iodomethane	10.000	7.931	20.7#	54	0.00
17	T,M	Allyl chloride	10.000	8.415	15.9	59	0.00
18	T,M	Methylene chloride	10.000	11.416	-14.2	80	0.00
19	T,M	Carbon disulfide	10.000	7.243	27.6#	47	0.00
20	T,M	Acrylonitrile	50.000	46.911	6.2	66	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	9.876	1.2	67	0.00
22	T,M	trans-1,2-Dichloroethene	10.000	8.481	15.2	60	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	12.708	-27.1#	85	-0.02
24	T,M	Vinyl acetate	10.000	10.423	-4.2	70	0.00
25	P,T,M	1,1-Dichloroethane	10.000	10.429	-4.3	73	0.00
26	T,M	2-Butanol	250.000	195.835	21.7#	60	0.00
27	T,M	tert-Butyl ethyl ether (ETB	10.000	11.004	-10.0	78	0.00
28	T,M	2-Butanone	50.000	53.934	-7.9	75	-0.02
29	T,M	2,2-Dichloropropane	10.000	9.630	3.7	63	0.00
30	T,M	cis-1,2-Dichloroethene	10.000	9.205	7.9	64	-0.02
31	C,T,M	Chloroform	10.000	9.925	0.7	71	0.00
32	T,M	Bromochloromethane	10.000	8.301	17.0	57	0.00
33	T,M	Tetrahydrofuran	10.000	8.677	13.2	73	0.00
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	-0.04
35	S	Dibromofluoromethane	10.000	8.946	10.5	57	0.00
36	T,M	1,1,1-Trichloroethane	10.000	10.229	-2.3	71	0.00
37	T,M	Cyclohexane	10.000	7.674	23.3#	53	0.00
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	-0.04
39	T,M	1,1-Dichloropropene	10.000	7.944	20.6#	57	0.00
40	T,M	Carbon tetrachloride	10.000	9.738	2.6	66	0.00
41	T,M	tert-Amyl methyl ether (TAM	10.000	10.266	-2.7	71	-0.02
42	S	1,2-Dichloroethane-d4	10.000	11.312	-13.1	70	0.00
43	T,M	1,2-Dichloroethane	10.000	12.732	-27.3#	85	0.00
44	T,M	Benzene	10.000	10.295	-2.9	69	0.00
45	T,M	Trichloroethene	10.000	8.683	13.2	59	0.00
46	T,M	Methylcyclohexane	10.000	7.290	27.1#	54	0.00
47	C,T,M	1,2-Dichloropropane	10.000	10.656	-6.6	74	0.00
48	T,M	1,4-Dioxane	200.000	133.010	33.5#	52	0.02
49	T,M	Bromodichloromethane	10.000	10.820	-8.2	76	0.00
50	T,M	Dibromomethane	10.000	9.548	4.5	67	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW511.D Vial: 20
Acq On : 26 Oct 2024 10:34 pm Operator: DNguye
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	9.315	6.9	68	0.00
52	T,M	4-Methyl-2-pentanone	50.000	64.381	-28.8#	85	0.00
53	T,M	cis-1,3-Dichloropropene	10.000	10.552	-5.5	69	0.00
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	84	-0.01
55	S	Toluene-d8	10.000	9.354	6.5	61	0.00
56	C,T,M	Toluene	10.000	10.034	-0.3	71	0.00
57	T,M	Ethyl methacrylate	10.000	10.201	-2.0	70	0.00
58	T,M	trans-1,3-Dichloropropene	10.000	10.656	-6.6	72	-0.03
59	T,M	1,1,2-Trichloroethane	10.000	9.802	2.0	68	0.00
60	T,M	2-Hexanone	50.000	60.951	-21.9#	84	0.00
61	T,M	1,3-Dichloropropane	10.000	10.188	-1.9	70	0.00
62	T,M	Tetrachloroethene	10.000	7.847	21.5#	55	-0.03
63	T,M	Dibromochloromethane	10.000	9.286	7.1	65	0.00
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	9.612	3.9	65	0.00
66	T,M	1-Chlorohexane	10.000	9.595	4.0	71	0.00
67	P,T,M	Chlorobenzene	10.000	10.222	-2.2	69	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	10.000	9.422	5.8	66	-0.01
69	C,T,M	Ethylbenzene	10.000	10.256	-2.6	71	0.00
70	T,M	m-Xylene & p-Xylene	20.000	20.343	-1.7	72	-0.01
71	T,M	o-Xylene	10.000	10.153	-1.5	72	0.00
72	T,M	Styrene	10.000	10.276	-2.8	70	-0.01
73	T,M	Isopropylbenzene	10.000	10.006	-0.1	70	-0.01
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	73	-0.01
75	P,T,M	Bromoform	10.000	9.394	6.1	59	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	11.343	-13.4	68	0.00
77	S	4-Bromofluorobenzene	10.000	10.452	-4.5	62	-0.01
78	T,M	1,2,3-Trichloropropane	10.000	10.536	-5.4	68	0.00
79	T,M	trans-1,4-Dichloro-2-butene	10.000	12.724	-27.2#	79	0.00
80	T,M	n-Propylbenzene	10.000	11.550	-15.5	70	0.00
81	T,M	Bromobenzene	10.000	9.683	3.2	57	0.00
82	T,M	1,3,5-Trimethylbenzene	10.000	11.418	-14.2	68	0.00
83	T,M	2-Chlorotoluene	10.000	11.882	-18.8	75	-0.01
84	T,M	4-Chlorotoluene	10.000	12.387	-23.9#	71	0.00
85	T,M	tert-Butylbenzene	10.000	10.483	-4.8	63	-0.01
86	T,M	1,2,4-Trimethylbenzene	10.000	11.674	-16.7	70	-0.01
87	T,M	sec-Butylbenzene	10.000	11.346	-13.5	68	0.00
88	T,M	p-Isopropyltoluene	10.000	10.886	-8.9	65	-0.01
89	T,M	1,3-Dichlorobenzene	10.000	10.475	-4.7	62	0.00
90	T,M	1,2,3-Trimethylbenzene	10.000	11.847	-18.5	71	0.00
91	T,M	1,4-Dichlorobenzene	10.000	10.363	-3.6	60	-0.01
92	T,M	n-Butylbenzene	10.000	11.008	-10.1	67	0.00
93	T,M	1,2-Dichlorobenzene	10.000	10.285	-2.9	61	0.00
94	T,M	1,2-Dibromo-3-chloropropane	10.000	7.456	25.3#	53	0.00
95	T,M	1,2,4-Trichlorobenzene	10.000	8.671	13.3	54	-0.02
96	T,M	Hexachlorobutadiene	10.000	8.122	18.8	49	-0.01
97	T,M	Naphthalene	10.000	9.407	5.9	59	0.00
98	T,M	1,2,3-Trichlorobenzene	10.000	8.229	17.7	51	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW511.D Vial: 20
Acq On : 26 Oct 2024 10:34 pm Operator: DNguye
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	82	0.00
2	T,M	Dichlorodifluoromethane	0.356	0.314	11.8	60	0.02
3	P,T,M	Chloromethane	0.346	0.331	4.3	63	0.00
4	C,T,M	Vinyl chloride	0.277	0.253	8.7	57	0.02
5	T,M	Bromomethane	0.252	0.206	18.3	56	0.00
6	T,M	Chloroethane	0.191	0.147	23.0#	51	0.02
7	T,M	Dichlorofluoromethane	0.468	0.431	7.9	63	0.02
8	T,M	Trichlorofluoromethane	0.371	0.329	11.3	59	0.00
9	T,M	Acrolein	0.010	0.008	20.0	53	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.139	34.7#	44#	0.00
11	T,M	Acetone	0.031	0.030	3.2	73	0.00
12	C,T,M	1,1-Dichloroethene	0.453	0.436	3.8	66	0.00
13	T,M	tert-Butyl alcohol	0.009	0.007	22.2#	59	0.00
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.015	28.6#	60	-0.02
16	T,M	Iodomethane	0.464	0.368	20.7#	54	0.00
17	T,M	Allyl chloride	0.181	0.152	16.0	59	0.00
18	T,M	Methylene chloride	0.332	0.379	-14.2	80	0.00
19	T,M	Carbon disulfide	0.567	0.411	27.5#	47#	0.00
20	T,M	Acrylonitrile	0.041	0.039	4.9	66	0.00
21	T,M	tert-Butyl methyl ether (MT	0.482	0.477	1.0	67	0.00
22	T,M	trans-1,2-Dichloroethene	0.339	0.288	15.0	60	0.00
23	T,M	Isopropyl ether (DIPE)	0.895	1.137	-27.0#	85	-0.02
24	T,M	Vinyl acetate	0.311	0.324	-4.2	70	0.00
25	P,T,M	1,1-Dichloroethane	0.504	0.526	-4.4	73	0.00
26	T,M	2-Butanol	0.009	0.007	22.2#	60	0.00
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.728	-10.0	78	0.00
28	T,M	2-Butanone	0.052	0.056	-7.7	75	-0.02
29	T,M	2,2-Dichloropropane	0.302	0.291	3.6	63	0.00
30	T,M	cis-1,2-Dichloroethene	0.327	0.301	8.0	64	-0.02
31	C,T,M	Chloroform	0.503	0.500	0.6	71	0.00
32	T,M	Bromochloromethane	0.139	0.116	16.5	57	0.00
33	T,M	Tetrahydrofuran	0.030	0.026	13.3	73	0.00
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	-0.04
35	S	Dibromofluoromethane	0.245	0.219	10.6	57	0.00
36	T,M	1,1,1-Trichloroethane	0.402	0.411	-2.2	71	0.00
37	T,M	Cyclohexane	0.502	0.385	23.3#	53	0.00
38	T,M	2,2,4-Trimethylpentane	0.000	0.000	0.0	0#	-0.04
39	T,M	1,1-Dichloropropene	0.148	0.118	20.3#	57	0.00
40	T,M	Carbon tetrachloride	0.327	0.319	2.4	66	0.00
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.575	-2.7	71	-0.02
42	S	1,2-Dichloroethane-d4	0.170	0.192	-12.9	70	0.00
43	T,M	1,2-Dichloroethane	0.204	0.260	-27.5#	85	0.00
44	T,M	Benzene	1.159	1.193	-2.9	69	0.00
45	T,M	Trichloroethene	0.306	0.266	13.1	59	0.00
46	T,M	Methylcyclohexane	0.624	0.455	27.1#	54	0.00
47	C,T,M	1,2-Dichloropropane	0.252	0.269	-6.7	74	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	52	0.02
49	T,M	Bromodichloromethane	0.326	0.353	-8.3	76	0.00
50	T,M	Dibromomethane	0.122	0.116	4.9	67	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW511.D Vial: 20
Acq On : 26 Oct 2024 10:34 pm Operator: DNguye
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.083	0.077	7.2	68	0.00
52	T,M	4-Methyl-2-pentanone	0.139	0.179	-28.8#	85	0.00
53	T,M	cis-1,3-Dichloropropene	0.391	0.412	-5.4	69	0.00
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	84	-0.01
55	S	Toluene-d8	1.382	1.293	6.4	61	0.00
56	C,T,M	Toluene	1.660	1.666	-0.4	71	0.00
57	T,M	Ethyl methacrylate	0.269	0.275	-2.2	70	0.00
58	T,M	trans-1,3-Dichloropropene	0.390	0.416	-6.7	72	-0.03
59	T,M	1,1,2-Trichloroethane	0.209	0.205	1.9	68	0.00
60	T,M	2-Hexanone	0.113	0.144	-22.0#	84	0.00
61	T,M	1,3-Dichloropropane	0.372	0.379	-1.9	70	0.00
62	T,M	Tetrachloroethene	0.352	0.276	21.6#	55	-0.03
63	T,M	Dibromochloromethane	0.258	0.240	7.0	65	0.00
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.183	4.2	65	0.00
66	T,M	1-Chlorohexane	0.676	0.649	4.0	71	0.00
67	P,T,M	Chlorobenzene	0.907	0.927	-2.2	69	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.289	5.6	66	-0.01
69	C,T,M	Ethylbenzene	1.791	1.837	-2.6	71	0.00
70	T,M	m-Xylene & p-Xylene	1.341	1.364	-1.7	72	-0.01
71	T,M	o-Xylene	1.351	1.372	-1.6	72	0.00
72	T,M	Styrene	0.966	0.992	-2.7	70	-0.01
73	T,M	Isopropylbenzene	1.752	1.753	-0.1	70	-0.01
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	73	-0.01
75	P,T,M	Bromoform	0.312	0.293	6.1	59	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.617	-13.4	68	0.00
77	S	4-Bromofluorobenzene	1.116	1.167	-4.6	62	-0.01
78	T,M	1,2,3-Trichloropropane	0.139	0.147	-5.8	68	0.00
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.164	-27.1#	79	0.00
80	T,M	n-Propylbenzene	5.578	6.442	-15.5	70	0.00
81	T,M	Bromobenzene	0.891	0.862	3.3	57	0.00
82	T,M	1,3,5-Trimethylbenzene	3.477	3.970	-14.2	68	0.00
83	T,M	2-Chlorotoluene	3.364	3.997	-18.8	75	-0.01
84	T,M	4-Chlorotoluene	2.888	3.578	-23.9#	71	0.00
85	T,M	tert-Butylbenzene	0.774	0.811	-4.8	63	-0.01
86	T,M	1,2,4-Trimethylbenzene	3.400	3.969	-16.7	70	-0.01
87	T,M	sec-Butylbenzene	4.841	5.493	-13.5	68	0.00
88	T,M	p-Isopropyltoluene	3.830	4.169	-8.9	65	-0.01
89	T,M	1,3-Dichlorobenzene	1.733	1.815	-4.7	62	0.00
90	T,M	1,2,3-Trimethylbenzene	3.005	3.560	-18.5	71	0.00
91	T,M	1,4-Dichlorobenzene	1.673	1.733	-3.6	60	-0.01
92	T,M	n-Butylbenzene	3.769	4.148	-10.1	67	0.00
93	T,M	1,2-Dichlorobenzene	1.413	1.453	-2.8	61	0.00
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.063	25.9#	53	0.00
95	T,M	1,2,4-Trichlorobenzene	0.820	0.711	13.3	54	-0.02
96	T,M	Hexachlorobutadiene	0.489	0.400	18.2	49#	-0.01
97	T,M	Naphthalene	1.149	1.081	5.9	59	0.00
98	T,M	1,2,3-Trichlorobenzene	0.618	0.508	17.8	51	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : TITAN 1-A
Lab Code : EMAX SDG No : 24J145
Lab File ID: RIW492A BFB Injection Date: 10/28/24
Instrument ID: 06 BFB Injection Time: 09:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	18.022
75	30 - 60% of mass 95	44.634
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	5.151
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	72.132
175	5 - 9% of mass 174	5.145(7.13)1
176	95 - 101% % of mass 174	71.044(98.49)1
177	5 - 9% % of mass 176	3.715(5.23)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, Lab QCs and Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD10	CVO06J197	RIW494A	10/28/24	11:11
2	LCS3W	VO06J24L	RIW493A	10/28/24	12:04
3	LCD3W	VO06J24C	RIW495A	10/28/24	11:38
4	MBLK3W	VO06J24B	RIW497A	10/28/24	14:41
5	T1AMF-TB001_OCT24	24J145-01	RIW504A	10/28/24	17:45
6	VSTD10	EVO06J197	RIW515A	10/28/24	22:33

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: EMAX Laboratories, Inc.
Lab Code: EMAX
Lab File ID: RIW364
Instrument ID: 06

Project: TITAN 1-A
SDG No: 24J145
Date Analyzed: 10/19/24
Time Analyzed: 18:11

	INTERNAL STANDARD (IS)	1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5		1,2-DICHLOROBENZENE-D4	
		Area #	RT #	Area #	RT #	Area #	RT #
	12 HOUR STD	3831558	9.84	2808641	15.34	1084745	19.28
	UPPER LIMIT	7663116	10.0	5617282	15.51	2169490	19.45
	LOWER LIMIT	1915779	9.67	1404321	15.17	542373	19.11
		Area #	RT #	Area #	RT #	Area #	RT #
1	VSTD10	3601100	9.86	2346830	15.34	816642	19.28
2	LCS3W	4321578	9.86	3185830	15.34	1012535	19.28
3	LCD3W	4058808	9.86	3043067	15.34	1024605	19.28
4	MBLK3W	4152965	9.86	3139713	15.35	1048061	19.30
5	T1AMF-TB001_OCT24	3461060	9.86	2576267	15.35	885563	19.30
6	VSTD10	3574883	9.86	2735247	15.35	949384	19.30

Area Upper Limit = +100% of ICAL Midpoint IS Area
Area Lower Limit = -50% of ICAL Midpoint IS Area
Retention Time(RT) Upper Limit = +10 seconds of ICAL Midpoint IS RT
Retention Time(RT) Lower Limit = -10 seconds of ICAL Midpoint IS RT

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW494.D~~ RIW494A.D
Acq On : 28 Oct 2024 11:11 am
Sample : CVO06J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

mm 11/20/2024

Vial: 3
Operator: PMai
Inst : 06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	94	0.02
2	T,M	Dichlorodifluoromethane	10.000	9.725	2.8	77	0.00
3	P,T,M	Chloromethane	10.000	9.912	0.9	75	0.00
4	C,T,M	Vinyl chloride	10.000	9.797	2.0	71	0.00
5	T,M	Bromomethane	10.000	8.431	15.7	66	0.00
6	T,M	Chloroethane	10.000	9.152	8.5	70	0.00
7	T,M	Dichlorofluoromethane	10.000	11.382	-13.8	90	0.02
8	T,M	Trichlorofluoromethane	10.000	9.560	4.4	74	0.00
9	T,M	Acrolein	50.000	37.431	25.1#	63	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	9.291	7.1	72	0.00
11	T,M	Acetone	50.000	47.339	5.3	83	0.00
12	C,T,M	1,1-Dichloroethene	10.000	12.115	-21.2#	96	0.00
13	T,M	tert-Butyl alcohol	250.000	254.481	-1.8	86	0.00
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	7.856	21.4#	74	0.00
16	T,M	Iodomethane	10.000	9.381	6.2	74	0.02
17	T,M	Allyl chloride	10.000	10.366	-3.7	83	0.00
18	T,M	Methylene chloride	10.000	13.705	-37.0#	110	0.02
19	T,M	Carbon disulfide	10.000	8.953	10.5	67	0.00
20	T,M	Acrylonitrile	50.000	45.755	8.5	74	0.02
21	T,M	tert-Butyl methyl ether (MT	10.000	10.672	-6.7	84	0.02
22	T,M	trans-1,2-Dichloroethene	10.000	10.414	-4.1	85	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	13.552	-35.5#	105	0.00
24	T,M	Vinyl acetate	10.000	9.592	4.1	74	0.00
25	P,T,M	1,1-Dichloroethane	10.000	11.693	-16.9	94	0.02
26	T,M	2-Butanol	250.000	270.840	-8.3	96	0.00
27	T,M	tert-Butyl ethyl ether (ETB	10.000	11.903	-19.0	97	0.02
28	T,M	2-Butanone	50.000	51.064	-2.1	82	0.00
29	T,M	2,2-Dichloropropane	10.000	14.654	-46.5#	110	0.00
30	T,M	cis-1,2-Dichloroethene	10.000	10.466	-4.7	84	0.00
31	C,T,M	Chloroform	10.000	10.741	-7.4	89	0.02
32	T,M	Bromochloromethane	10.000	9.039	9.6	71	0.02
33	T,M	Tetrahydrofuran	10.000	9.334	6.7	91	0.02
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	0.00
35	S	Dibromofluoromethane	10.000	9.432	5.7	69	0.02
36	T,M	1,1,1-Trichloroethane	10.000	11.919	-19.2	96	0.02
37	T,M	Cyclohexane	10.000	11.238	-12.4	89	0.02
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	-0.11
39	T,M	1,1-Dichloropropene	10.000	9.235	7.7	76	0.00
40	T,M	Carbon tetrachloride	10.000	11.175	-11.8	88	0.02
41	T,M	tert-Amyl methyl ether (TAM	10.000	10.960	-9.6	87	0.00
42	S	1,2-Dichloroethane-d4	10.000	10.135	-1.3	73	0.00
43	T,M	1,2-Dichloroethane	10.000	11.977	-19.8	93	0.02
44	T,M	Benzene	10.000	10.666	-6.7	83	0.02
45	T,M	Trichloroethene	10.000	9.266	7.3	73	0.02
46	T,M	Methylcyclohexane	10.000	10.656	-6.6	91	0.00
47	C,T,M	1,2-Dichloropropane	10.000	10.693	-6.9	86	0.02
48	T,M	1,4-Dioxane	200.000	143.847	28.1#	65	0.02
49	T,M	Bromodichloromethane	10.000	9.889	1.1	80	0.02
50	T,M	Dibromomethane	10.000	9.143	8.6	74	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW494.D~~ RIW494A.D
Acq On : 28 Oct 2024 11:11 am
Sample : CVO06J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

mm 11/20/2024

Vial: 3
Operator: PMai
Inst : 06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	6.626	33.7#	55	0.02
52	T,M	4-Methyl-2-pentanone	50.000	63.344	-26.7#	96	0.02
53	T,M	cis-1,3-Dichloropropene	10.000	9.697	3.0	74	0.02
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	84	0.00
55	S	Toluene-d8	10.000	10.087	-0.9	65	0.02
56	C,T,M	Toluene	10.000	10.895	-8.9	76	0.02
57	T,M	Ethyl methacrylate	10.000	9.418	5.8	64	0.01
58	T,M	trans-1,3-Dichloropropene	10.000	10.239	-2.4	69	0.00
59	T,M	1,1,2-Trichloroethane	10.000	9.436	5.6	66	0.00
60	T,M	2-Hexanone	50.000	62.020	-24.0#	85	0.01
61	T,M	1,3-Dichloropropane	10.000	9.569	4.3	65	0.01
62	T,M	Tetrachloroethene	10.000	9.083	9.2	63	0.00
63	T,M	Dibromochloromethane	10.000	9.180	8.2	64	0.01
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	9.280	7.2	62	0.01
66	T,M	1-Chlorohexane	10.000	10.050	-0.5	74	0.01
67	P,T,M	Chlorobenzene	10.000	10.232	-2.3	69	0.00
68	T,M	1,1,1,2-Tetrachloroethane	10.000	11.216	-12.2	78	0.00
69	C,T,M	Ethylbenzene	10.000	10.535	-5.4	73	0.01
70	T,M	m-Xylene & p-Xylene	20.000	20.497	-2.5	72	0.00
71	T,M	o-Xylene	10.000	11.321	-13.2	80	0.01
72	T,M	Styrene	10.000	9.783	2.2	66	0.00
73	T,M	Isopropylbenzene	10.000	11.559	-15.6	81	0.00
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	75	0.00
75	P,T,M	Bromoform	10.000	7.922	20.8#	51	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	11.548	-15.5	71	0.01
77	S	4-Bromofluorobenzene	10.000	8.526	14.7	52	0.00
78	T,M	1,2,3-Trichloropropane	10.000	9.618	3.8	63	0.00
79	T,M	trans-1,4-Dichloro-2-butene	10.000	10.193	-1.9	65	0.01
80	T,M	n-Propylbenzene	10.000	11.812	-18.1	74	0.01
81	T,M	Bromobenzene	10.000	8.870	11.3	54	0.01
82	T,M	1,3,5-Trimethylbenzene	10.000	13.085	-30.9#	80	0.01
83	T,M	2-Chlorotoluene	10.000	12.365	-23.7#	80	0.00
84	T,M	4-Chlorotoluene	10.000	10.975	-9.7	64	0.00
85	T,M	tert-Butylbenzene	10.000	12.086	-20.9#	74	0.00
86	T,M	1,2,4-Trimethylbenzene	10.000	12.846	-28.5#	79	0.00
87	T,M	sec-Butylbenzene	10.000	13.317	-33.2#	83	0.01
88	T,M	p-Isopropyltoluene	10.000	12.450	-24.5#	76	0.00
89	T,M	1,3-Dichlorobenzene	10.000	9.672	3.3	58	0.01
90	T,M	1,2,3-Trimethylbenzene	10.000	13.175	-31.8#	81	0.01
91	T,M	1,4-Dichlorobenzene	10.000	9.230	7.7	55	0.00
92	T,M	n-Butylbenzene	10.000	12.577	-25.8#	79	0.00
93	T,M	1,2-Dichlorobenzene	10.000	10.596	-6.0	65	0.00
94	T,M	1,2-Dibromo-3-chloropropane	10.000	8.696	13.0	64	0.01
95	T,M	1,2,4-Trichlorobenzene	10.000	12.246	-22.5#	78	0.00
96	T,M	Hexachlorobutadiene	10.000	11.844	-18.4	72	0.00
97	T,M	Naphthalene	10.000	12.481	-24.8#	80	0.00
98	T,M	1,2,3-Trichlorobenzene	10.000	11.558	-15.6	74	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW494.D~~ RIW494A.D
Acq On : 28 Oct 2024 11:11 am
Sample : CV006J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

mm 11/20/2024

Vial: 3
Operator: PMai
Inst : 06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\V006J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	94	0.02
2	T,M	Dichlorodifluoromethane	0.356	0.346	2.8	77	0.00
3	P,T,M	Chloromethane	0.346	0.343	0.9	75	0.00
4	C,T,M	Vinyl chloride	0.277	0.272	1.8	71	0.00
5	T,M	Bromomethane	0.252	0.213	15.5	66	0.00
6	T,M	Chloroethane	0.191	0.175	8.4	70	0.00
7	T,M	Dichlorofluoromethane	0.468	0.532	-13.7	90	0.02
8	T,M	Trichlorofluoromethane	0.371	0.355	4.3	74	0.00
9	T,M	Acrolein	0.010	0.008	20.0	63	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.198	7.0	72	0.00
11	T,M	Acetone	0.031	0.029	6.5	83	0.00
12	C,T,M	1,1-Dichloroethene	0.453	0.548	-21.0#	96	0.00
13	T,M	tert-Butyl alcohol	0.009	0.009	0.0	86	0.00
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.017	19.0	74	0.00
16	T,M	Iodomethane	0.464	0.435	6.3	74	0.02
17	T,M	Allyl chloride	0.181	0.188	-3.9	83	0.00
18	T,M	Methylene chloride	0.332	0.455	-37.0#	110	0.02
19	T,M	Carbon disulfide	0.567	0.508	10.4	67	0.00
20	T,M	Acrylonitrile	0.041	0.038	7.3	74	0.02
21	T,M	tert-Butyl methyl ether (MT	0.482	0.515	-6.8	84	0.02
22	T,M	trans-1,2-Dichloroethene	0.339	0.353	-4.1	85	0.00
23	T,M	Isopropyl ether (DIPE)	0.895	1.213	-35.5#	105	0.00
24	T,M	Vinyl acetate	0.311	0.298	4.2	74	0.00
25	P,T,M	1,1-Dichloroethane	0.504	0.589	-16.9	94	0.02
26	T,M	2-Butanol	0.009	0.009	0.0	96	0.00
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.787	-18.9	97	0.02
28	T,M	2-Butanone	0.052	0.053	-1.9	82	0.00
29	T,M	2,2-Dichloropropane	0.302	0.443	-46.7#	110	0.00
30	T,M	cis-1,2-Dichloroethene	0.327	0.342	-4.6	84	0.00
31	C,T,M	Chloroform	0.503	0.541	-7.6	89	0.02
32	T,M	Bromochloromethane	0.139	0.126	9.4	71	0.02
33	T,M	Tetrahydrofuran	0.030	0.028	6.7	91	0.02
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	0.00
35	S	Dibromofluoromethane	0.245	0.231	5.7	69	0.02
36	T,M	1,1,1-Trichloroethane	0.402	0.479	-19.2	96	0.02
37	T,M	Cyclohexane	0.502	0.564	-12.4	89	0.02
38	T,M	2,2,4-Trimethylpentane	0.000	0.000	0.0	0#	-0.11
39	T,M	1,1-Dichloropropene	0.148	0.137	7.4	76	0.00
40	T,M	Carbon tetrachloride	0.327	0.366	-11.9	88	0.02
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.614	-9.6	87	0.00
42	S	1,2-Dichloroethane-d4	0.170	0.172	-1.2	73	0.00
43	T,M	1,2-Dichloroethane	0.204	0.244	-19.6	93	0.02
44	T,M	Benzene	1.159	1.236	-6.6	83	0.02
45	T,M	Trichloroethene	0.306	0.284	7.2	73	0.02
46	T,M	Methylcyclohexane	0.624	0.665	-6.6	91	0.00
47	C,T,M	1,2-Dichloropropane	0.252	0.270	-7.1	86	0.02
48	T,M	1,4-Dioxane	0.001	0.001	0.0	65	0.02
49	T,M	Bromodichloromethane	0.326	0.322	1.2	80	0.02
50	T,M	Dibromomethane	0.122	0.111	9.0	74	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW494.D~~ RIW494A.D
Acq On : 28 Oct 2024 11:11 am
Sample : CVO06J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 3
Operator: PMai
Inst : 06
Multiplr: 1.00

11/20/2024

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.083	0.055	33.7#	55	0.02
52	T,M	4-Methyl-2-pentanone	0.139	0.176	-26.6#	96	0.02
53	T,M	cis-1,3-Dichloropropene	0.391	0.379	3.1	74	0.02
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	84	0.00
55	S	Toluene-d8	1.382	1.394	-0.9	65	0.02
56	C,T,M	Toluene	1.660	1.808	-8.9	76	0.02
57	T,M	Ethyl methacrylate	0.269	0.254	5.6	64	0.01
58	T,M	trans-1,3-Dichloropropene	0.390	0.400	-2.6	69	0.00
59	T,M	1,1,2-Trichloroethane	0.209	0.197	5.7	66	0.00
60	T,M	2-Hexanone	0.118	0.147	-24.6#	85	0.01
61	T,M	1,3-Dichloropropane	0.372	0.356	4.3	65	0.01
62	T,M	Tetrachloroethene	0.352	0.320	9.1	63	0.00
63	T,M	Dibromochloromethane	0.258	0.237	8.1	64	0.01
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.177	7.3	62	0.01
66	T,M	1-Chlorohexane	0.676	0.680	-0.6	74	0.01
67	P,T,M	Chlorobenzene	0.907	0.928	-2.3	69	0.00
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.344	-12.4	78	0.00
69	C,T,M	Ethylbenzene	1.791	1.887	-5.4	73	0.01
70	T,M	m-Xylene & p-Xylene	1.341	1.374	-2.5	72	0.00
71	T,M	o-Xylene	1.351	1.530	-13.2	80	0.01
72	T,M	Styrene	0.966	0.945	2.2	66	0.00
73	T,M	Isopropylbenzene	1.752	2.025	-15.6	81	0.00
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	75	0.00
75	P,T,M	Bromoform	0.312	0.247	20.8#	51	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.628	-15.4	71	0.01
77	S	4-Bromofluorobenzene	1.116	0.952	14.7	52	0.00
78	T,M	1,2,3-Trichloropropane	0.139	0.134	3.6	63	0.00
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.131	-1.6	65	0.01
80	T,M	n-Propylbenzene	5.578	6.589	-18.1	74	0.01
81	T,M	Bromobenzene	0.891	0.790	11.3	54	0.01
82	T,M	1,3,5-Trimethylbenzene	3.477	4.549	-30.8#	80	0.01
83	T,M	2-Chlorotoluene	3.364	4.160	-23.7#	80	0.00
84	T,M	4-Chlorotoluene	2.888	3.170	-9.8	64	0.00
85	T,M	tert-Butylbenzene	0.774	0.935	-20.8#	74	0.00
86	T,M	1,2,4-Trimethylbenzene	3.400	4.368	-28.5#	79	0.00
87	T,M	sec-Butylbenzene	4.841	6.447	-33.2#	83	0.01
88	T,M	p-Isopropyltoluene	3.830	4.768	-24.5#	76	0.00
89	T,M	1,3-Dichlorobenzene	1.733	1.676	3.3	58	0.01
90	T,M	1,2,3-Trimethylbenzene	3.005	3.959	-31.7#	81	0.01
91	T,M	1,4-Dichlorobenzene	1.673	1.544	7.7	55	0.00
92	T,M	n-Butylbenzene	3.769	4.740	-25.8#	79	0.00
93	T,M	1,2-Dichlorobenzene	1.413	1.497	-5.9	65	0.00
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.074	12.9	64	0.01
95	T,M	1,2,4-Trichlorobenzene	0.820	1.004	-22.4#	78	0.00
96	T,M	Hexachlorobutadiene	0.489	0.574	-17.4	72	0.00
97	T,M	Naphthalene	1.149	1.434	-24.8#	80	0.00
98	T,M	1,2,3-Trichlorobenzene	0.618	0.714	-15.5	74	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW515.D~~ RIW515A.D
Acq On : 28 Oct 2024 10:33 pm
Sample : EVO06J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 24
Operator: PMai
Inst : 06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	93	0.02
2	T,M	Dichlorodifluoromethane	10.000	9.684	3.2	76	0.02
3	P,T,M	Chloromethane	10.000	11.343	-13.4	86	0.00
4	C,T,M	Vinyl chloride	10.000	10.911	-9.1	78	0.00
5	T,M	Bromomethane	10.000	9.379	6.2	73	0.00
6	T,M	Chloroethane	10.000	10.390	-3.9	79	0.02
7	T,M	Dichlorofluoromethane	10.000	10.713	-7.1	84	0.02
8	T,M	Trichlorofluoromethane	10.000	9.766	2.3	75	0.02
9	T,M	Acrolein	50.000	106.656	-113.3#	177	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	8.177	18.2	63	0.00
11	T,M	Acetone	50.000	59.897	-19.8	104	0.00
12	C,T,M	1,1-Dichloroethene	10.000	10.506	-5.1	82	0.00
13	T,M	tert-Butyl alcohol	250.000	248.697	0.5	84	0.00
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	9.934	0.7	93	0.00
16	T,M	Iodomethane	10.000	8.795	12.1	68	0.02
17	T,M	Allyl chloride	10.000	9.958	0.4	79	0.00
18	T,M	Methylene chloride	10.000	12.884	-28.8#	103	0.02
19	T,M	Carbon disulfide	10.000	9.478	5.2	70	0.00
20	T,M	Acrylonitrile	50.000	65.591	-31.2#	105	0.02
21	T,M	tert-Butyl methyl ether (MT	10.000	10.859	-8.6	84	0.02
22	T,M	trans-1,2-Dichloroethene	10.000	9.546	4.5	77	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	13.999	-40.0#	108	0.00
24	T,M	Vinyl acetate	10.000	12.071	-20.7#	92	0.00
25	P,T,M	1,1-Dichloroethane	10.000	11.735	-17.3	93	0.02
26	T,M	2-Butanol	250.000	323.683	-29.5#	114	0.00
27	T,M	tert-Butyl ethyl ether (ETB	10.000	12.298	-23.0#	99	0.02
28	T,M	2-Butanone	50.000	69.724	-39.4#	111	0.00
29	T,M	2,2-Dichloropropane	10.000	9.978	0.2	75	0.02
30	T,M	cis-1,2-Dichloroethene	10.000	10.509	-5.1	84	0.02
31	C,T,M	Chloroform	10.000	10.576	-5.8	87	0.02
32	T,M	Bromochloromethane	10.000	9.136	8.6	72	0.02
33	T,M	Tetrahydrofuran	10.000	9.517	4.8	92	0.04
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	0.02
35	S	Dibromofluoromethane	10.000	9.213	7.9	67	0.02
36	T,M	1,1,1-Trichloroethane	10.000	10.770	-7.7	86	0.02
37	T,M	Cyclohexane	10.000	11.351	-13.5	90	0.02
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	-0.04
39	T,M	1,1-Dichloropropene	10.000	8.660	13.4	71	0.02
40	T,M	Carbon tetrachloride	10.000	10.134	-1.3	79	0.02
41	T,M	tert-Amyl methyl ether (TAM	10.000	11.331	-13.3	89	0.00
42	S	1,2-Dichloroethane-d4	10.000	11.048	-10.5	79	0.02
43	T,M	1,2-Dichloroethane	10.000	12.853	-28.5#	99	0.02
44	T,M	Benzene	10.000	11.263	-12.3	86	0.02
45	T,M	Trichloroethene	10.000	9.813	1.9	77	0.02
46	T,M	Methylcyclohexane	10.000	11.516	-15.2	97	0.02
47	C,T,M	1,2-Dichloropropane	10.000	12.169	-21.7#	97	0.02
48	T,M	1,4-Dioxane	200.000	168.456	15.8	75	0.02
49	T,M	Bromodichloromethane	10.000	11.129	-11.3	89	0.02
50	T,M	Dibromomethane	10.000	10.454	-4.5	84	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW515.D~~ RIW515A.D
Acq On : 28 Oct 2024 10:33 pm
Sample : EVO06J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

11/20/2024

Vial: 24
Operator: PMai
Inst : 06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	10.048	-0.5	84	0.02
52	T,M	4-Methyl-2-pentanone	50.000	77.528	-55.1#	117	0.02
53	T,M	cis-1,3-Dichloropropene	10.000	11.398	-14.0	86	0.02
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	97	0.01
55	S	Toluene-d8	10.000	9.239	7.6	69	0.02
56	C,T,M	Toluene	10.000	10.504	-5.0	86	0.02
57	T,M	Ethyl methacrylate	10.000	10.835	-8.4	86	0.02
58	T,M	trans-1,3-Dichloropropene	10.000	11.441	-14.4	90	0.00
59	T,M	1,1,2-Trichloroethane	10.000	10.409	-4.1	84	0.00
60	T,M	2-Hexanone	50.000	72.112	-44.2#	116	0.02
61	T,M	1,3-Dichloropropane	10.000	10.815	-8.1	86	0.02
62	T,M	Tetrachloroethene	10.000	8.453	15.5	69	0.00
63	T,M	Dibromochloromethane	10.000	9.327	6.7	76	0.02
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	10.332	-3.3	81	0.02
66	T,M	1-Chlorohexane	10.000	11.242	-12.4	96	0.01
67	P,T,M	Chlorobenzene	10.000	10.829	-8.3	85	0.01
68	T,M	1,1,1,2-Tetrachloroethane	10.000	9.955	0.4	80	0.01
69	C,T,M	Ethylbenzene	10.000	10.551	-5.5	85	0.01
70	T,M	m-Xylene & p-Xylene	20.000	20.856	-4.3	86	0.00
71	T,M	o-Xylene	10.000	10.504	-5.0	87	0.01
72	T,M	Styrene	10.000	10.796	-8.0	85	0.00
73	T,M	Isopropylbenzene	10.000	10.286	-2.9	84	0.01
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	88	0.01
75	P,T,M	Bromoform	10.000	9.732	2.7	73	0.01
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	11.766	-17.7	84	0.01
77	S	4-Bromofluorobenzene	10.000	9.778	2.2	69	0.01
78	T,M	1,2,3-Trichloropropane	10.000	9.920	0.8	76	0.01
79	T,M	trans-1,4-Dichloro-2-butene	10.000	11.911	-19.1	89	0.01
80	T,M	n-Propylbenzene	10.000	11.468	-14.7	83	0.01
81	T,M	Bromobenzene	10.000	9.742	2.6	69	0.01
82	T,M	1,3,5-Trimethylbenzene	10.000	11.451	-14.5	82	0.01
83	T,M	2-Chlorotoluene	10.000	11.607	-16.1	88	0.01
84	T,M	4-Chlorotoluene	10.000	12.301	-23.0#	84	0.01
85	T,M	tert-Butylbenzene	10.000	10.151	-1.5	72	0.00
86	T,M	1,2,4-Trimethylbenzene	10.000	11.527	-15.3	83	0.01
87	T,M	sec-Butylbenzene	10.000	11.322	-13.2	82	0.01
88	T,M	p-Isopropyltoluene	10.000	10.734	-7.3	77	0.00
89	T,M	1,3-Dichlorobenzene	10.000	10.264	-2.6	72	0.01
90	T,M	1,2,3-Trimethylbenzene	10.000	11.740	-17.4	84	0.01
91	T,M	1,4-Dichlorobenzene	10.000	10.399	-4.0	72	0.00
92	T,M	n-Butylbenzene	10.000	10.909	-9.1	80	0.01
93	T,M	1,2-Dichlorobenzene	10.000	10.345	-3.5	73	0.01
94	T,M	1,2-Dibromo-3-chloropropane	10.000	7.130	28.7#	61	0.00
95	T,M	1,2,4-Trichlorobenzene	10.000	8.921	10.8	66	0.00
96	T,M	Hexachlorobutadiene	10.000	8.983	10.2	64	0.00
97	T,M	Naphthalene	10.000	9.456	5.4	71	0.00
98	T,M	1,2,3-Trichlorobenzene	10.000	7.962	20.4#	59	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW515.D~~ RIW515A.D
Acq On : 28 Oct 2024 10:33 pm
Sample : EVO06J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 24
Operator: PMai
Inst : 06
Multiplr: 1.00

11/20/2024

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	93	0.02
2	T,M	Dichlorodifluoromethane	0.356	0.344	3.4	76	0.02
3	P,T,M	Chloromethane	0.346	0.392	-13.3	86	0.00
4	C,T,M	Vinyl chloride	0.277	0.302	-9.0	78	0.00
5	T,M	Bromomethane	0.252	0.237	6.0	73	0.00
6	T,M	Chloroethane	0.191	0.198	-3.7	79	0.02
7	T,M	Dichlorofluoromethane	0.468	0.501	-7.1	84	0.02
8	T,M	Trichlorofluoromethane	0.371	0.363	2.2	75	0.02
9	T,M	Acrolein	0.010	0.022	-120.0#	177	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.174	18.3	63	0.00
11	T,M	Acetone	0.031	0.037	-19.4	104	0.00
12	C,T,M	1,1-Dichloroethene	0.453	0.476	-5.1	82	0.00
13	T,M	tert-Butyl alcohol	0.009	0.009	0.0	84	0.00
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.021	0.0	93	0.00
16	T,M	Iodomethane	0.464	0.408	12.1	68	0.02
17	T,M	Allyl chloride	0.181	0.180	0.6	79	0.00
18	T,M	Methylene chloride	0.332	0.428	-28.9#	103	0.02
19	T,M	Carbon disulfide	0.567	0.537	5.3	70	0.00
20	T,M	Acrylonitrile	0.041	0.054	-31.7#	105	0.02
21	T,M	tert-Butyl methyl ether (MT	0.482	0.524	-8.7	84	0.02
22	T,M	trans-1,2-Dichloroethene	0.339	0.324	4.4	77	0.00
23	T,M	Isopropyl ether (DIPE)	0.895	1.253	-40.0#	108	0.00
24	T,M	Vinyl acetate	0.311	0.375	-20.6#	92	0.00
25	P,T,M	1,1-Dichloroethane	0.504	0.592	-17.5	93	0.02
26	T,M	2-Butanol	0.009	0.011	-22.2#	114	0.00
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.814	-23.0#	99	0.02
28	T,M	2-Butanone	0.052	0.073	-40.4#	111	0.00
29	T,M	2,2-Dichloropropane	0.302	0.301	0.3	75	0.02
30	T,M	cis-1,2-Dichloroethene	0.327	0.344	-5.2	84	0.02
31	C,T,M	Chloroform	0.503	0.532	-5.8	87	0.02
32	T,M	Bromochloromethane	0.139	0.127	8.6	72	0.02
33	T,M	Tetrahydrofuran	0.030	0.028	6.7	92	0.04
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	0.02
35	S	Dibromofluoromethane	0.245	0.226	7.8	67	0.02
36	T,M	1,1,1-Trichloroethane	0.402	0.433	-7.7	86	0.02
37	T,M	Cyclohexane	0.502	0.570	-13.5	90	0.02
38	T,M	2,2,4-Trimethylpentane	0.000	0.001	0.0	0#	-0.04
39	T,M	1,1-Dichloropropene	0.148	0.128	13.5	71	0.02
40	T,M	Carbon tetrachloride	0.327	0.332	-1.5	79	0.02
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.635	-13.4	89	0.00
42	S	1,2-Dichloroethane-d4	0.170	0.187	-10.0	79	0.02
43	T,M	1,2-Dichloroethane	0.204	0.262	-28.4#	99	0.02
44	T,M	Benzene	1.159	1.301	-12.3	86	0.02
45	T,M	Trichloroethene	0.306	0.300	2.0	77	0.02
46	T,M	Methylcyclohexane	0.624	0.719	-15.2	97	0.02
47	C,T,M	1,2-Dichloropropane	0.252	0.307	-21.8#	97	0.02
48	T,M	1,4-Dioxane	0.001	0.001	0.0	75	0.02
49	T,M	Bromodichloromethane	0.326	0.363	-11.3	89	0.02
50	T,M	Dibromomethane	0.122	0.127	-4.1	84	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW515.D~~ RIW515A.D
Acq On : 28 Oct 2024 10:33 pm
Sample : EVO06J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P
mm 11/20/2024

Vial: 24
Operator: PMai
Inst : 06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.083	0.083	0.0	84	0.02
52	T,M	4-Methyl-2-pentanone	0.139	0.216	-55.4#	117	0.02
53	T,M	cis-1,3-Dichloropropene	0.391	0.445	-13.8	86	0.02
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	97	0.01
55	S	Toluene-d8	1.382	1.277	7.6	69	0.02
56	C,T,M	Toluene	1.660	1.744	-5.1	86	0.02
57	T,M	Ethyl methacrylate	0.269	0.292	-8.6	86	0.02
58	T,M	trans-1,3-Dichloropropene	0.390	0.446	-14.4	90	0.00
59	T,M	1,1,2-Trichloroethane	0.209	0.217	-3.8	84	0.00
60	T,M	2-Hexanone	0.118	0.171	-44.9#	116	0.02
61	T,M	1,3-Dichloropropane	0.372	0.402	-8.1	86	0.02
62	T,M	Tetrachloroethene	0.352	0.298	15.3	68	0.00
63	T,M	Dibromochloromethane	0.258	0.241	6.6	76	0.02
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.197	-3.1	81	0.02
66	T,M	1-Chlorohexane	0.676	0.760	-12.4	96	0.01
67	P,T,M	Chlorobenzene	0.907	0.982	-8.3	85	0.01
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.305	0.3	80	0.01
69	C,T,M	Ethylbenzene	1.791	1.889	-5.5	85	0.01
70	T,M	m-Xylene & p-Xylene	1.341	1.398	-4.3	86	0.00
71	T,M	o-Xylene	1.351	1.419	-5.0	87	0.01
72	T,M	Styrene	0.966	1.043	-8.0	85	0.00
73	T,M	Isopropylbenzene	1.752	1.802	-2.9	84	0.01
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	88	0.01
75	P,T,M	Bromoform	0.312	0.304	2.6	73	0.01
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.640	-17.6	84	0.01
77	S	4-Bromofluorobenzene	1.116	1.092	2.2	69	0.01
78	T,M	1,2,3-Trichloropropane	0.139	0.138	0.7	76	0.01
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.154	-19.4	89	0.01
80	T,M	n-Propylbenzene	5.578	6.397	-14.7	83	0.01
81	T,M	Bromobenzene	0.891	0.868	2.6	69	0.01
82	T,M	1,3,5-Trimethylbenzene	3.477	3.981	-14.5	82	0.01
83	T,M	2-Chlorotoluene	3.364	3.905	-16.1	88	0.01
84	T,M	4-Chlorotoluene	2.888	3.553	-23.0#	84	0.01
85	T,M	tert-Butylbenzene	0.774	0.785	-1.4	72	0.00
86	T,M	1,2,4-Trimethylbenzene	3.400	3.919	-15.3	83	0.01
87	T,M	sec-Butylbenzene	4.341	5.481	-13.2	82	0.01
88	T,M	p-Isopropyltoluene	3.830	4.111	-7.3	77	0.00
89	T,M	1,3-Dichlorobenzene	1.733	1.779	-2.7	72	0.01
90	T,M	1,2,3-Trimethylbenzene	3.005	3.528	-17.4	84	0.01
91	T,M	1,4-Dichlorobenzene	1.673	1.739	-3.9	72	0.00
92	T,M	n-Butylbenzene	3.769	4.111	-9.1	80	0.01
93	T,M	1,2-Dichlorobenzene	1.413	1.462	-3.5	73	0.01
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.061	28.2#	61	0.00
95	T,M	1,2,4-Trichlorobenzene	0.820	0.731	10.9	66	0.00
96	T,M	Hexachlorobutadiene	0.489	0.441	9.8	64	0.00
97	T,M	Naphthalene	1.149	1.086	5.5	71	0.00
98	T,M	1,2,3-Trichlorobenzene	0.618	0.492	20.4#	59	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

ANALYTICAL LOGS

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

VARIED AMOUNT

Book #:	A06-083
Instrument No.:	06
Analytical Sequence:	24J1a
Method File:	V006J1a
Analytical Batch:	V006J1a6

INITIAL CALIBRATION REFERENCE			
DATE	10/19/24		
ICAL ID	V006J1a		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC CS2	SVI-45-24-03	V	250
DCC SA's	-37-01		
DCC 4ADD	-42-03		
DCC 8260 SURR	-42-02 -40-03		
BFB	-42-01	1	50
IS/SURR.	-35-03 -36-01	V	250 250
ICV/LCS	-35-01	1	250
ICV/LCS	-31-03	1	250
ICV/LCS	-43-01	5	50
ICV/LCS	-26-03 -21-03	5 5	50 250
Data File Folder	24J1a		
	LOT #	Syringe Lot #	
pH strip		MSV-03-04	
Chlorine strip		-03-035	
Methanol		-03-0323	
$NaHSO_4$		-03-0224	
Reagent Water	RW3-23-001		
Sand			

SOP #
☐ EMAX-8260 Rev. No. 10
☐ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1
PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☐ 25-mL Purge
SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☐ Water
☐ pH <2. Outliers indicated on analytical sequence.
☐ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐ pH <2 and Cl2 are not applicable.

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO06	

Analyzed By: DM

Date: 10/19/24

Disposed By: DM

Date Disposed: 10/20/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24J19

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
1	1	RIW358.D	1.	BFB06J17		T/CHK	19 Oct 2024 15:14
2	2	RIW359.D	1.	VO06J191	0.03/0.15uL	0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA	19 Oct 2024 15:59
3	3	RIW360.D	1.	VO06J192	0.05/0.25uL	0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA	19 Oct 2024 16:26
4	4	RIW361.D	1.	VO06J193	0.10/0.50uL	1.0ppb 8260/5.0ppb KET-AA/25ppb TBA	19 Oct 2024 16:53
5	5	RIW362.D	1.	VO06J194	0.20/1.00uL	2.0ppb 8260/10ppb KET-AA/50ppb TBA	19 Oct 2024 17:19
6	6	RIW363.D	1.	VO06J195	0.50/2.50uL	5.0ppb 8260/25ppb KET-AA/125ppb TBA	19 Oct 2024 17:45
7	7	RIW364.D	1.	VO06J196	1.00/5.00uL	10ppb 8260/50ppb KET-AA/250ppb TBA	19 Oct 2024 18:11
8	8	RIW365.D	1.	VO06J197	2.00/10.0uL	20ppb 8260/100ppb KET-AA/500ppb TBA	19 Oct 2024 18:38
9	9	RIW366.D	1.	VO06J198	3.00/15.0uL	30ppb 8260/150ppb KET-AA/750ppb TBA	19 Oct 2024 19:04
10	10	RIW367.D	1.	VO06J199	5.00/25.0uL	50ppb 8260/250ppb KET-AA/1250ppb TBA	19 Oct 2024 19:30
11	11	RIW368.D	1.	VO06J1910	10.0/50.0uL	100ppb 8260/500ppb KET-AA/2500ppb TBA	19 Oct 2024 19:57
12	12	RIW369.D	1.	RINSE			19 Oct 2024 20:23
13	13	RIW370.D	1.	RINSE			19 Oct 2024 20:49
14	14	RIW371.D	1.	IVO06J191		10ppb 8260/50ppb KET-AA/250ppb TBA	19 Oct 2024 21:15
15	15	RIW372.D	1.	RINSE			19 Oct 2024 21:41
16	16	RIW373.D	1.	LOD1 0.02/0.10		0.2ppb 8260/4.0ppb KET-AA/5.0ppb TBA	19 Oct 2024 22:07
17	17	RIW374.D	1.	LOD2 0.03/0.15		0.4ppb 8260/4.0ppb KET-AA/10ppb TBA	19 Oct 2024 22:34

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
VOLATILES

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #:	A06-083
Instrument No.:	06
Analytical Sequence:	24J24
Method File:	CV006J19
Analytical Batch:	CV006J194

SOP #	
☒	EMAX-8260 Rev. No. 10
☐	EMAX-8260C Rev. No. 1
☐	EMAX-8260SIM Rev. No. 1
☐	EMAX-M8260SIM Rev. No. 0
☐	EMAX-TCPSIM Rev. No. 2
☐	EMAX-624 Rev. No. 6
☐	EMAX-624.1 Rev. No. 1

PURGE AMOUNT	
☐	5-mL Purge
☐	10-mL Purge
☒	25-mL Purge

SAMPLE MATRIX	
☐	Soil (refer to sample weight log)
☒	Water
☒	pH <2. Outliers indicated on analytical sequence.
☒	Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐	pH <2 and Cl2 are not applicable.

INITIAL CALIBRATION REFERENCE			
DATE	10/19/2024		
ICAL ID	VO06_J19		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC	SV1 45 24 03	1	250
DCC	SV1 45 37 01	1	250
DCC	SV1 45 42 03	1	250
DCC	SV1 45 42 02 SV1 45 40 03	5 5	250 250
BFB	SV1 45 42 01	1	50
IS/SURR.	SV1 45 35 03 SV1 45 36 01	1 1	250 250
ICV/LCS	SV1 45 35 01	1	250
ICV/LCS	SV1 45 31 03	1	250
ICV/LCS	SV1 45 43 01	5	50
ICV/LCS	SV1 45 26 03 SV1 45 21 03	5 5	50 250
Data File Folder	24J19		
	LOT #	Syringe Lot #	
pH strip	HC439975	MSV 03 04 12 6	
Chlorine strip	213906	MSV 03 03 23	
Methanol		MSV 03 03 23	
$NaHSO_4$		MSV 03 02 24	
Reagent Water	RW3 23 001		
Sand			

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO06	

Analyzed By: MM24
Date: 10/26/2024
Disposed By: MM
Date Disposed: 10/25/2024

Injection Log

Directory: D:\HPCHEM\1\DATA\24J24

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RIW458.D	1.	BFB06J21	T/CHK	24 Oct 2024 08:09
2	2	RIW459.D	1.	CVO06J194	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 09:09
3	3	RIW460.D	1.	VO06J21L	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 09:35
4	4	RIW461.D	1.	VO06J21C	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 10:01
5	5	RIW462.D	1.	RINSE	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 10:28
6	6	RIW463.D	1.	VO06J21B	25mL	24 Oct 2024 10:54
7	7	RIW464.D	1.	24J108-18	25mL	24 Oct 2024 11:20
8	8	RIW465.D	1.	24J108-19	25mL	24 Oct 2024 11:46
9	9	RIW466.D	1.	24J108-01	25mL	24 Oct 2024 12:12
10	10	RIW467.D	1.	24J108-02	25mL	24 Oct 2024 12:38
11	11	RIW468.D	1.	24J108-03	25mL	24 Oct 2024 13:04
12	12	RIW469.D	1.	24J108-04	25mL	24 Oct 2024 13:31
13	13	RIW470.D	1.	24J108-05	25mL	24 Oct 2024 13:57
14	14	RIW471.D	1.	24J108-07	25mL	24 Oct 2024 14:23
15	15	RIW472.D	1.	24J108-10	25mL	24 Oct 2024 14:49
16	16	RIW473.D	1.	24J123-17	25mL	24 Oct 2024 15:16
17	17	RIW474.D	1.	24J123-18	25mL	24 Oct 2024 15:42
18	18	RIW475.D	1.	24J123-20	25mL	24 Oct 2024 16:09
19	19	RIW476.D	1.	EVO06J194	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 16:35
20	20	RIW477.D	1.	BFB06J22	T/CHK	24 Oct 2024 17:03
21	21	RIW478.D	1.	CVO06J195	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 19:04
22	22	RIW479.D	1.	VO06J22L	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 19:32
23	23	RIW480.D	1.	VO06J22C	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 19:58
24	24	RIW481.D	1.	RINSE	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 20:25
25	25	RIW482.D	1.	VO06J22B	25mL	24 Oct 2024 20:50
26	26	RIW483.D	1.	24J123-09	25mL	24 Oct 2024 21:17
27	27	RIW484.D	1.	24J123-10	25mL	24 Oct 2024 21:43
28	28	RIW485.D	1.	24J123-12	25mL	24 Oct 2024 22:09
29	29	RIW486.D	1.	24J099-06J 250X	0.1mL	24 Oct 2024 22:35
30	30	RIW487.D	1.	24J145-02	25mL	24 Oct 2024 23:02
31	31	RIW488.D	1.	24J145-03	25mL	25 Oct 2024 08:13
32	45	RIW489.D	1.	EVO06J196	10ppb 8260/50ppb KET-AA/250ppb TBA	25 Oct 2024 08:39
33	46	RIW490.D	1.	TRSR	10ppb 8260/50ppb KET-AA/250ppb TBA	25 Oct 2024 09:39
34	47	RIW491.D	1.	RINSE	10ppb 8260/50ppb KET-AA/250ppb TBA	25 Oct 2024 10:49
35	48	RIW492.D	1.	RINSE	10ppb 8260/50ppb KET-AA/250ppb TBA	25 Oct 2024 11:58

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #: A06-083
Instrument No.: 06
Analytical Sequence: 24J26
Method File: CV006J19
Analytical Batch: CV006J196

SOP #
☒ EMAX-8260 Rev. No. 10
☐ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1
PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☒ 25-mL Purge
SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☒ Water
☒ pH <2. Outliers indicated on analytical sequence.
☒ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐ pH <2 and Cl2 are not applicable.

INITIAL CALIBRATION REFERENCE			
DATE	10/19/2024		
ICAL ID	VO06J19		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC	SV1 45 24 03	1	250
DCC	SV1 45 37 01	1	250
DCC	SV1 45 42 03	1	250
DCC	SV1 45 42 02 SV1 45 40 03	5 5	250 250
BFB	SV1 45 42 01	1	50
IS/SURR.	SV1 45 35 03 SV1 45 36 01	1 1	250 250
ICV/LCS	SV1 45 35 01	1	250
ICV/LCS	SV1 45 31 03	1	250
ICV/LCS	SV1 45 43 01	5	50
ICV/LCS	SV1 45 26 03 SV1 45 21 03	5 5	50 250
Data File Folder	24J19		
	LOT #	Syringe Lot #	
pH strip	HC439975	MSV 03 04 12 6	
Chlorine strip	213906	MSV 03 35 12 4	
Methanol		MSV 03 03 23	
$NaHSO_4$		MSV 03 02 24	
Reagent Water	RW3 23 001		
Sand			

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO06	

Analyzed By: MM
Date: 10/26/2024
Disposed By: MM
Date Disposed: 10/27/2024

Injection Log

Directory: D:\HPCHEM\1\DATA\24J26

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RIW492.D	1.	BFB06J23	T/CHK	26 Oct 2024 13:01
2	2	RIW493.D	1.	CVO06J196	10ppb 8260/50ppb KET-AA/250ppb TBA	26 Oct 2024 14:09
3	3	RIW494.D	1.	VO06J23L	10ppb 8260/50ppb KET-AA/250ppb TBA	26 Oct 2024 15:08
4	4	RIW495.D	1.	VO06J23C	10ppb 8260/50ppb KET-AA/250ppb TBA	26 Oct 2024 15:34
5	5	RIW496.D	1.	RINSE	10ppb 8260/50ppb KET-AA/250ppb TBA	26 Oct 2024 16:01
6	6	RIW497.D	1.	VO06J23B	25mL	26 Oct 2024 16:27
7	7	RIW498.D	1.	✓24J145-11	25mL	26 Oct 2024 16:53
8	8	RIW499.D	1.	✓24J145-04	25mL	26 Oct 2024 17:19
9	9	RIW500.D	1.	✓24J145-05	25mL	26 Oct 2024 17:45
10	10	RIW501.D	1.	✓24J145-06	25mL	26 Oct 2024 18:11
11	11	RIW502.D	1.	✓24J145-07 – D4 High	25mL	26 Oct 2024 18:38
12	12	RIW503.D	1.	✓24J145-08	25mL	26 Oct 2024 19:04
13	13	RIW504.D	1.	✓24J145-09	25mL	26 Oct 2024 19:30
14	14	RIW505.D	1.	✓24J145-10	25mL	26 Oct 2024 19:57
15	15	RIW506.D	1.	✓24J142-01 – D4 High	25mL	26 Oct 2024 20:23
16	16	RIW507.D	1.	✓24J142-02	25mL	26 Oct 2024 20:49
17	17	RIW508.D	1.	✓24J142-03	25mL	26 Oct 2024 21:15
18	18	RIW509.D	1.	✓24J145-11M	25mL	26 Oct 2024 21:42
19	19	RIW510.D	1.	✓24J145-11S	25mL	26 Oct 2024 22:08
20	20	RIW511.D	1.	EVO06J196	10ppb 8260/50ppb KET-AA/250ppb TBA	26 Oct 2024 22:34
21	21	RIW512.D	1.	EVO06J1961	10ppb 8260/50ppb KET-AA/250ppb TBA	26 Oct 2024 23:00
22	22	RIW513.D	1.	EVO06J1962	10ppb 8260/50ppb KET-AA/250ppb TBA	26 Oct 2024 23:26

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
VOLATILES

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #:	A06-083
Instrument No.:	06
Analytical Sequence:	24J28
Method File:	CV006J19
Analytical Batch:	CV006J197

SOP #	
☒	EMAX-8260 Rev. No. 10
☐	EMAX-8260C Rev. No. 1
☐	EMAX-8260SIM Rev. No. 1
☐	EMAX-M8260SIM Rev. No. 0
☐	EMAX-TCPSIM Rev. No. 2
☐	EMAX-624 Rev. No. 6
☐	EMAX-624.1 Rev. No. 1

PURGE AMOUNT	
☐	5-mL Purge
☐	10-mL Purge
☒	25-mL Purge

SAMPLE MATRIX	
☐	Soil (refer to sample weight log)
☑	Water
☑	pH <2. Outliers indicated on analytical sequence.
☑	Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐	pH, Trap, Cl2 are not applicable.

INITIAL CALIBRATION REFERENCE			
DATE	10/19/2024		
ICAL ID	VO06 J19		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC CS2	SV1 45 24 03	1	250
DCC GAS	SV1 45 37 ~~24~~ 01	1	250
DCC 4A00	SV1 45 42 03	1	250
DCC 8260 KET	SV1 45 42 02 SV1 45 40 03	5 5	250 250
BFB	SV1 45 42 01	1	50
IS/SURR.	SV1 45 35 03 SV1 45 36 01	1 1	250 250
ICV/LCS	SV1 45 35 01	1	250
ICV/LCS	SV1 45 31 03	1	250
ICV/LCS	SV1 45 43 01	5	50
ICV/LCS	SV1 45 26 03 SV1 45 21 03	5 5	50 250
Data File Folder	24J28 19 mm 10/28		
	LOT #	Syringe Lot #	
pH strip	HC439975	MSV 03 04 12 6	
Chlorine strip	213906	MSV 03 35 12 4	
Methanol		MSV 03 03 23	
$NaHSO_4$		MSV 03 02 24	
Reagent Water	RW3 23 001		
Sand			

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO06	

Analyzed By: mm DN
Date: 10/28/24
Disposed By: mm
Date Disposed: 10/29/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24J28

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RIW~~492.D~~ 492A.D	1.	BFB06J24	T/CHK	28 Oct 2024 09:41
2	2	RIW~~493.D~~ 493A.D	1.	VO06J24L	10ppb 8260/50ppb KET-AA/250ppb TBA	28 Oct 2024 12:04
3	3	RIW~~494.D~~ 494A.D	1.	CVO06J197	10ppb 8260/50ppb KET-AA/250ppb TBA	28 Oct 2024 11:11
4	4	RIW~~495.D~~ 495A.D	1.	VO06J24C	10ppb 8260/50ppb KET-AA/250ppb TBA	28 Oct 2024 11:38
5	5	RIW496.D	1.	RINSE	10ppb 8260/50ppb KET-AA/250ppb TBA	28 Oct 2024 14:15
6	6	RIW497.D	1.	VO06J24B	25mL	28 Oct 2024 14:41
7	7	RIW498.D	1.	RW5-24-002	25mL	28 Oct 2024 15:07
~~8~~	~~8~~	~~RIW499.D~~	~~1.~~	~~24J142-04~~	~~25mL~~	~~28 Oct 2024 15:33~~
9	9	RIW500.D	1.	24J142-05	25mL	28 Oct 2024 16:00
10	10	RIW501.D	1.	24J142-06	25mL	28 Oct 2024 16:26
11	11	RIW502.D	1.	24J142-07	25mL	28 Oct 2024 16:53
12	12	RIW503.D	1.	24J142-08	25mL	28 Oct 2024 17:19
13	13	RIW504.D	1.	24J145-01	25mL	28 Oct 2024 17:45
14	14	RIW505.D	1.	24J039-02I 250X	0.1mL	28 Oct 2024 18:11
15	15	RIW506.D	1.	24J039-03I 100X	0.25mL	28 Oct 2024 18:37
16	16	RIW507.D	1.	24J039-04I 100X	0.25mL	28 Oct 2024 19:03
17	17	RIW508.D	1.	24J123-17N	0.25mL	28 Oct 2024 19:29
18	18	RIW509.D	1.	24J142-04M	0.25mL	28 Oct 2024 19:56
19	19	RIW510.D	1.	24J142-04S	0.25mL	28 Oct 2024 20:22
20	20	RIW511.D	1.	RINSE	0.25mL	28 Oct 2024 20:48
21	21	RIW512.D	1.	24J123-17M	0.25mL	28 Oct 2024 21:14
22	22	RIW513.D	1.	24J123-17S	0.25mL	28 Oct 2024 21:41
23	23	RIW514.D	1.	RINSE	0.25mL	28 Oct 2024 22:07
24	24	RIW515.D	1.	EVO06J197	10ppb 8260/50ppb KET-AA/250ppb TBA	28 Oct 2024 22:33
25	25	RIW516.D	1.	EVO06J1971	10ppb 8260/50ppb KET-AA/250ppb TBA	28 Oct 2024 22:59
26	26	RIW517.D	1.	EVO06J1972	10ppb 8260/50ppb KET-AA/250ppb TBA	28 Oct 2024 23:26

RAW DATA
VOLATILE ORGANICS

LABORATORY REPORT FOR

PARSONS

TITAN 1-A

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

SDG#: 24J145

CASE NARRATIVE

Client : PARSONS

Project: TITAN 1-A

SDG : 24J145

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

A total of eleven(11) water samples were received on 10/23/24 to be analyzed for Volatile Organics by GC/MS in accordance with Method SW5030C/8260C and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. For this SDG, the following were noted: Target analytes in CCV(Data File ID: RIW478) were within calibration acceptance criteria. Target analytes in CCV(Data File ID: RIW489) were within calibration acceptance criteria. Target analytes in CCV(Data File ID: RIW493) were within calibration acceptance criteria.1,1-Dichloroethene was detected biased high(%D=21.1) in CCV(Data File ID: RIW494A). However, note that 1,1-Dichloroethene was not detected in the associated field sample(s). Target analytes in CCV(Data File ID: RIW511) were within calibration acceptance criteria. Target analytes in CCV(Data File ID: RIW515A) were within calibration acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, three(3) method blanks were analyzed. VO06J22B, VO06J23B and VO06J24B were compliant to project requirement. Refer to sample result summary forms for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, three(3) sets of LCS/LCD were analyzed. Lab control sample was prepared and analyzed at a frequency required by the project. All analytes were within LCS limits. RPD for some pairs were slightly above 20% QC limit. Refer to LCS summary forms for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed. 24J145-11M/24J145-11S - all analytes were within MS QC limits. Refer to Matrix QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. For this SDG, all surrogate recoveries were within QC limits except for 1,2-Dichloroethane-D4 in J145-02, J145-07, J145-10 and Toluene-D8 in J145-11 were slightly outside the QC limit. All other surrogates in sample were within limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : TITAN 1-A

SDG NO. : 24J145
Instrument ID : 06

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1W	VO06J22L	1	NA	10/24/2419:32	10/24/2419:32	RIW479	RIW364	VO06J22	Lab Control Sample (LCS)
LCD1W	VO06J22C	1	NA	10/24/2419:58	10/24/2419:58	RIW480	RIW364	VO06J22	LCS Duplicate
MBLK1W	VO06J22B	1	NA	10/24/2420:50	10/24/2420:50	RIW482	RIW364	VO06J22	Method Blank
T1AMF-MW053_OCT24	24J145-02	1	NA	10/24/2423:02	10/24/2423:02	RIW487	RIW364	VO06J22	Field Sample
T1AMF-MW066_OCT24	24J145-03	1	NA	10/25/2408:13	10/25/2408:13	RIW488	RIW364	VO06J22	Field Sample
LCS2W	VO06J23L	1	NA	10/26/2415:08	10/26/2415:08	RIW494	RIW364	VO06J23	Lab Control Sample (LCS)
LCD2W	VO06J23C	1	NA	10/26/2415:34	10/26/2415:34	RIW495	RIW364	VO06J23	LCS Duplicate
MBLK2W	VO06J23B	1	NA	10/26/2416:27	10/26/2416:27	RIW497	RIW364	VO06J23	Method Blank
T1AMF-MW059_OCT24	24J145-11	1	NA	10/26/2416:53	10/26/2416:53	RIW498	RIW364	VO06J23	Field Sample
T1AMF-MW062_OCT24	24J145-04	1	NA	10/26/2417:19	10/26/2417:19	RIW499	RIW364	VO06J23	Field Sample
T1AMF-MW061_OCT24	24J145-05	1	NA	10/26/2417:45	10/26/2417:45	RIW500	RIW364	VO06J23	Field Sample
T1AMF-MW030_OCT24	24J145-06	1	NA	10/26/2418:11	10/26/2418:11	RIW501	RIW364	VO06J23	Field Sample
T1AMF-MW030_OCT24_FD	24J145-07	1	NA	10/26/2418:38	10/26/2418:38	RIW502	RIW364	VO06J23	Field Sample
T1AMF-MW057_OCT24	24J145-08	1	NA	10/26/2419:04	10/26/2419:04	RIW503	RIW364	VO06J23	Field Sample
T1AMF-MW048_OCT24	24J145-09	1	NA	10/26/2419:30	10/26/2419:30	RIW504	RIW364	VO06J23	Field Sample
T1AMF-MW060_OCT24	24J145-10	1	NA	10/26/2419:57	10/26/2419:57	RIW505	RIW364	VO06J23	Field Sample
T1AMF-MW059_OCT24MS	24J145-11M	1	NA	10/26/2421:42	10/26/2421:42	RIW509	RIW364	VO06J23	Matrix Spike Sample (MS)
T1AMF-MW059_OCT24MSD	24J145-11S	1	NA	10/26/2422:08	10/26/2422:08	RIW510	RIW364	VO06J23	MS Duplicate (MSD)
LCS3W	VO06J24L	1	NA	10/28/2412:04	10/28/2412:04	RIW493A	RIW364	VO06J24	Lab Control Sample (LCS)
LCD3W	VO06J24C	1	NA	10/28/2411:38	10/28/2411:38	RIW495A	RIW364	VO06J24	LCS Duplicate
MBLK3W	VO06J24B	1	NA	10/28/2414:41	10/28/2414:41	RIW497A	RIW364	VO06J24	Method Blank
T1AMF-TB001_OCT24	24J145-01	1	NA	10/28/2417:45	10/28/2417:45	RIW504A	RIW364	VO06J24	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/21/24 12:00
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/28/24 17:45
Sample ID	: T1AMF-TB001_OCT24	Date Analyzed:	10/28/24 17:45
Lab Samp ID:	24J145-01	Dilution Factor:	1
Lab File ID:	RIW504A	Matrix:	WATER
Ext Btch ID:	VO06J24	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.9	10.0	109	81-118
4-Bromofluorobenzene	10.2	10.0	102	85-114
Toluene-d8	9.23	10.0	92	89-112
Dibromofluoromethane	8.88	10.0	89	80-119

Notes:

Sample Amount	: 25ml	Final Volume :	25ml
Prepared by	: PMai	Analyzed by :	PMai

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW504.D~~ Vial: 13
Acq On : 28 Oct 2024 5:45 pm RIW504A.D Operator: PMai
Sample : 24J145-01 Inst : 06
Misc : 25mL 11/20/2024 Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 18 11:58 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.86	114	3461060	10.00	ug/l	0.02
54) CHLOROBENZENE-D5	15.35	117	2576267	10.00	ug/l	0.01
74) 1,2-DICHLOROBENZENE-D4	19.30	152	885563	10.00	ug/l	0.01
System Monitoring Compounds						
35) Dibromofluoromethane	7.85	111	752981	8.88	ug/l	0.04
Spiked Amount 10.000			Recovery = 88.80%			
42) 1,2-Dichloroethane-d4	8.98	65	638050	10.87	ug/l	0.02
Spiked Amount 10.000			Recovery = 108.70%			
55) Toluene-d8	12.71	98	3286297	9.23	ug/l	0.02
Spiked Amount 10.000			Recovery = 92.30%			
77) 4-Bromofluorobenzene	17.39	95	1005205	10.17	ug/l	0.01
Spiked Amount 10.000			Recovery = 101.70%			
Target Compounds						Qvalue
18) Methylene chloride	4.18	49	19054	0.17	ug/l	81

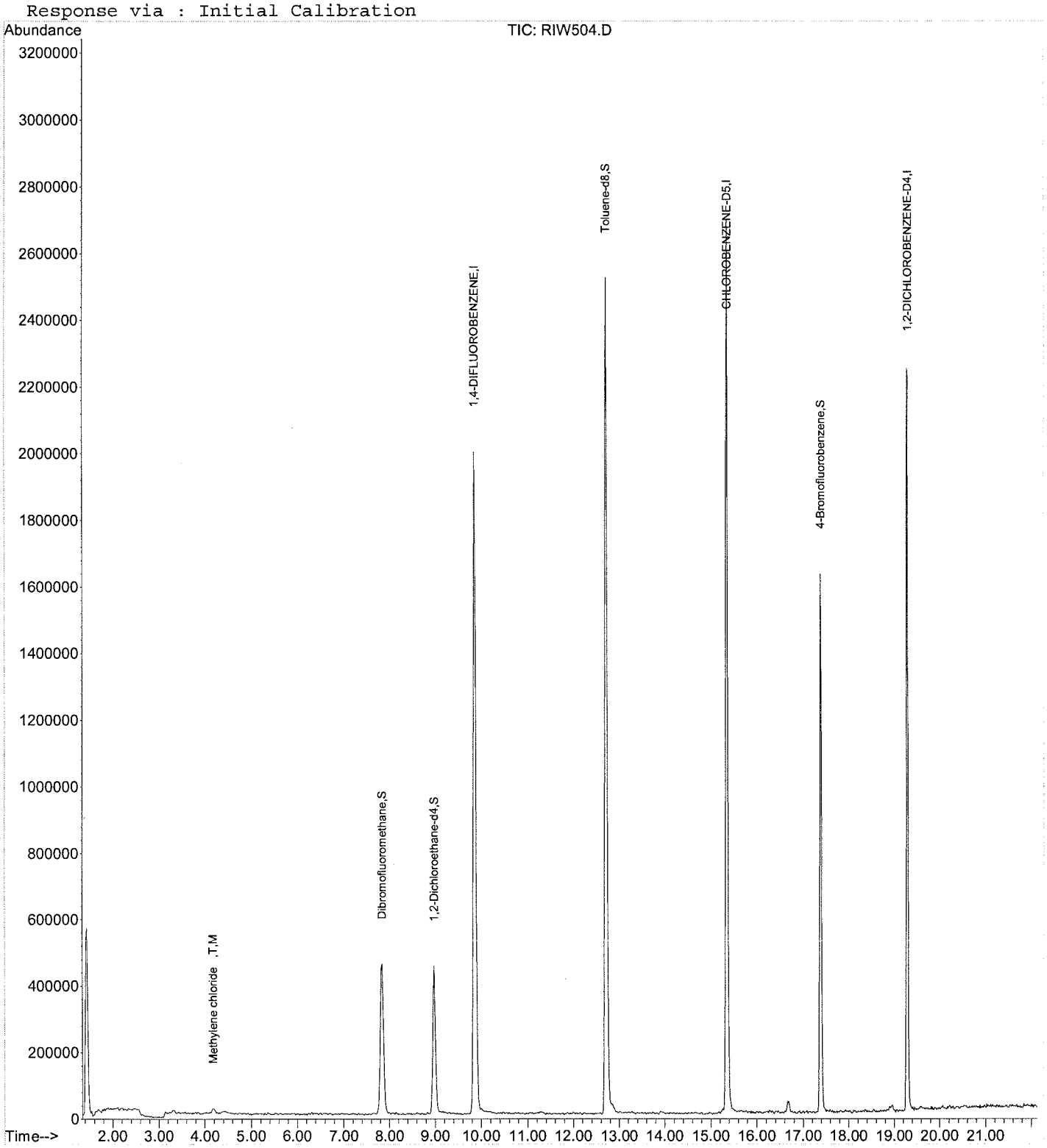
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~~RIW504.D~~ VO06J19.M Mon Nov 18 11:58:36 2024 Page 1

RIW504A.D 11/20/2024

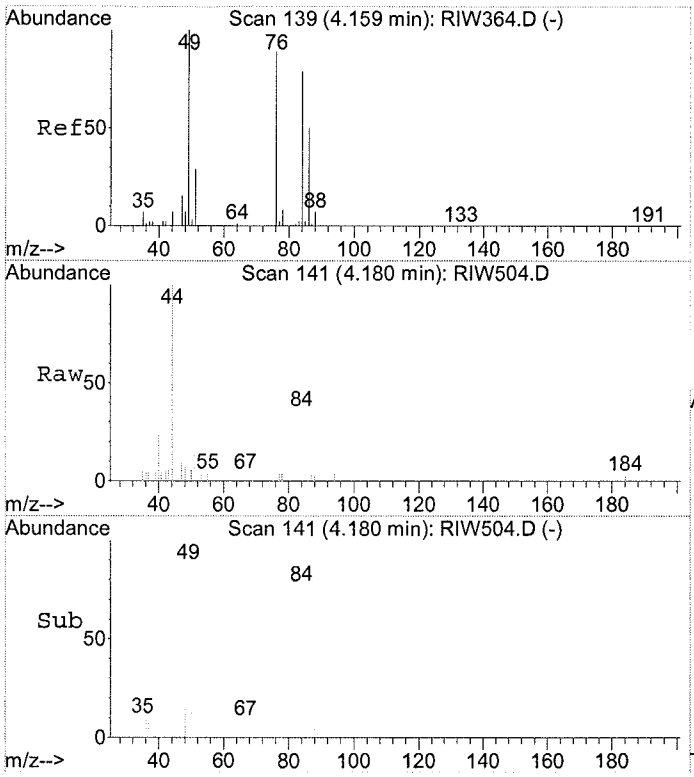
Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW504.D~~ RIW504A.D Vial: 13
Acq On : 28 Oct 2024 5:45 pm Operator: PMai
Sample : 24J145-01 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 18 11:58 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



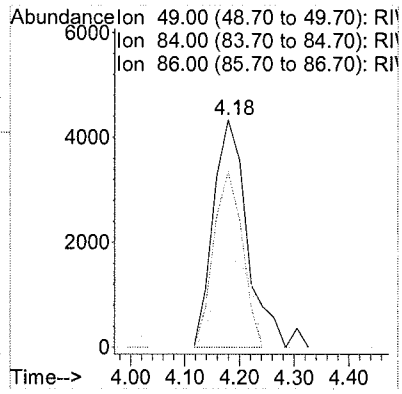
RIW504A.D 11/20/2024



#18
Methylene chloride
Concen: 0.17 ug/l
RT: 4.18 min Scan# 141
Delta R.T. 0.02 min
Lab File: RIW504.D
Acq: 28 Oct 2024 5:45 pm

Tgt Ion: 49 Resp: 19054

Ion	Ratio	Lower	Upper
49	100		
84	64.3	51.8	111.8
86	39.0	21.9	81.9



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/21/24 15:25
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/24/24 23:02
Sample ID	: T1AMF-MW053_OCT24	Date Analyzed:	10/24/24 23:02
Lab Samp ID:	24J145-02	Dilution Factor:	1
Lab File ID:	RIW487	Matrix:	WATER
Ext Btch ID:	VO06J22	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	12.3	10.0	123*	81-118
4-Bromofluorobenzene	10.3	10.0	103	85-114
Toluene-d8	10.0	10.0	100	89-112
Dibromofluoromethane	11.3	10.0	113	80-119

Notes:

Sample Amount	: 25ml	Final Volume :	25ml
Prepared by	: PMai	Analyzed by :	PMai

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J24\RIW487.D Vial: 30
Acq On : 24 Oct 2024 11:02 pm Operator: PMai
Sample : 24J145-02 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 9:48 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

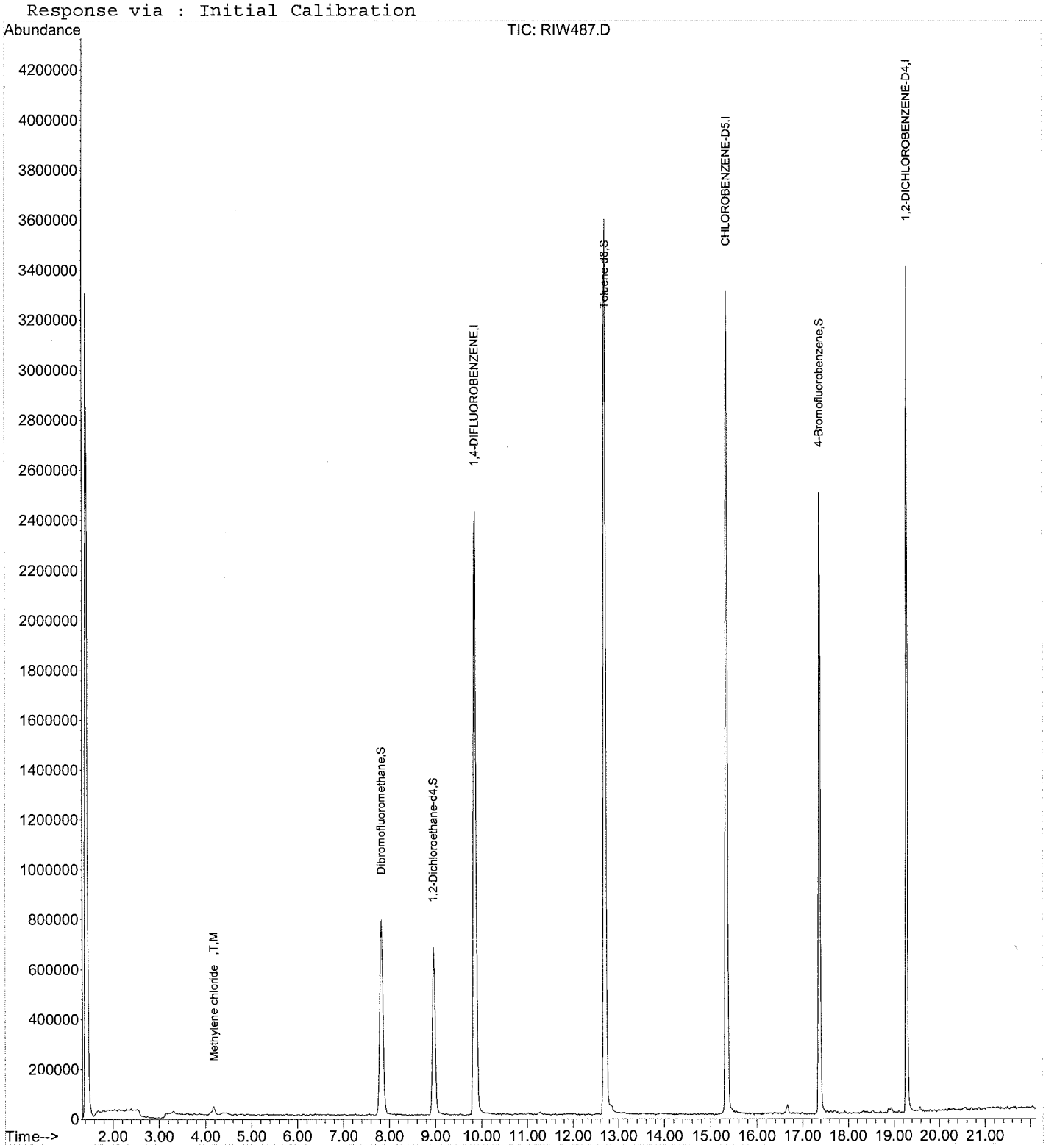
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.86	114	4596043	10.00	ug/l	0.02
54) CHLOROBENZENE-D5	15.34	117	3510018	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1334985	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.83	111	1277495	11.35	ug/l	0.02
Spiked Amount 10.000			Recovery =	113.50%		
42) 1,2-Dichloroethane-d4	8.96	65	957019	12.28	ug/l	0.00
Spiked Amount 10.000			Recovery =	122.80%		
55) Toluene-d8	12.72	98	4862373	10.02	ug/l	0.02
Spiked Amount 10.000			Recovery =	100.20%		
77) 4-Bromofluorobenzene	17.38	95	1528506	10.26	ug/l	0.00
Spiked Amount 10.000			Recovery =	102.60%		
Target Compounds						Qvalue
18) Methylene chloride	4.18	49	33201	0.22	ug/l	96

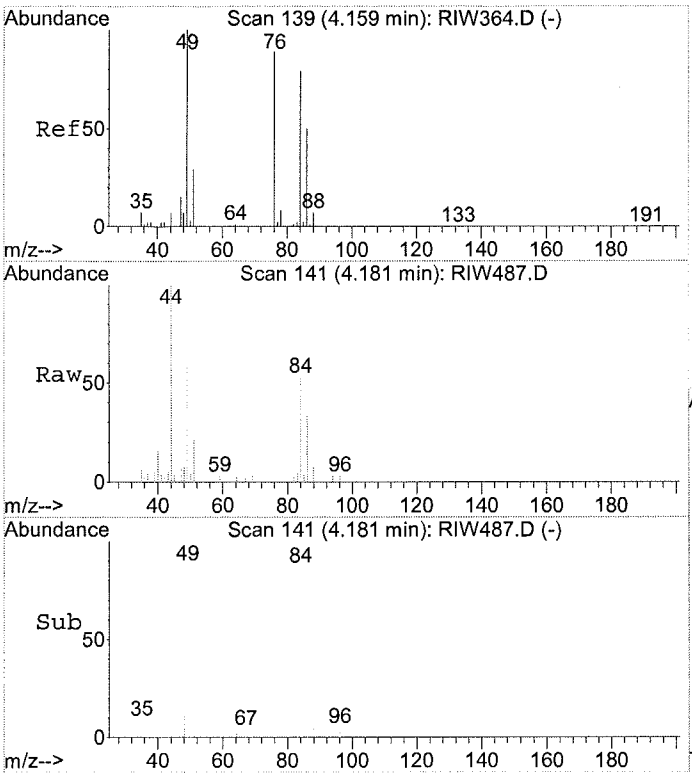
(#) = qualifier out of range (m) = manual integration
RIW487.D VO06J19.M Thu Nov 21 09:48:26 2024 Page 1

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW487.D Vial: 30
Acq On : 24 Oct 2024 11:02 pm Operator: PMai
Sample : 24J145-02 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 9:48 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration

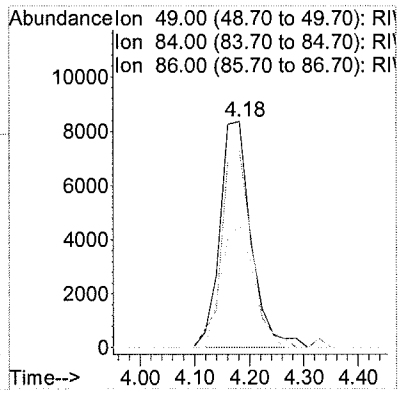




#18
Methylene chloride
Concen: 0.22 ug/l
RT: 4.18 min Scan# 141
Delta R.T. 0.02 min
Lab File: RIW487.D
Acq: 24 Oct 2024 11:02 pm

Tgt Ion: 49 Resp: 33201

Ion	Ratio	Lower	Upper
49	100		
84	84.5	51.8	111.8
86	56.1	21.9	81.9



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/21/24 16:10
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/25/24 08:13
Sample ID	: T1AMF-MW066_OCT24	Date Analyzed:	10/25/24 08:13
Lab Samp ID:	24J145-03	Dilution Factor:	1
Lab File ID:	RIW488	Matrix:	WATER
Ext Btch ID:	VO06J22	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.7	10.0	117	81-118
4-Bromofluorobenzene	9.43	10.0	94	85-114
Toluene-d8	10.7	10.0	107	89-112
Dibromofluoromethane	11.2	10.0	112	80-119

Notes:

Sample Amount	: 25ml	Final Volume :	25ml
Prepared by	: PMai	Analyzed by :	PMai

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J24\RIW488.D Vial: 31
Acq On : 25 Oct 2024 8:13 am Operator: PMai
Sample : 24J145-03 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 9:50 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

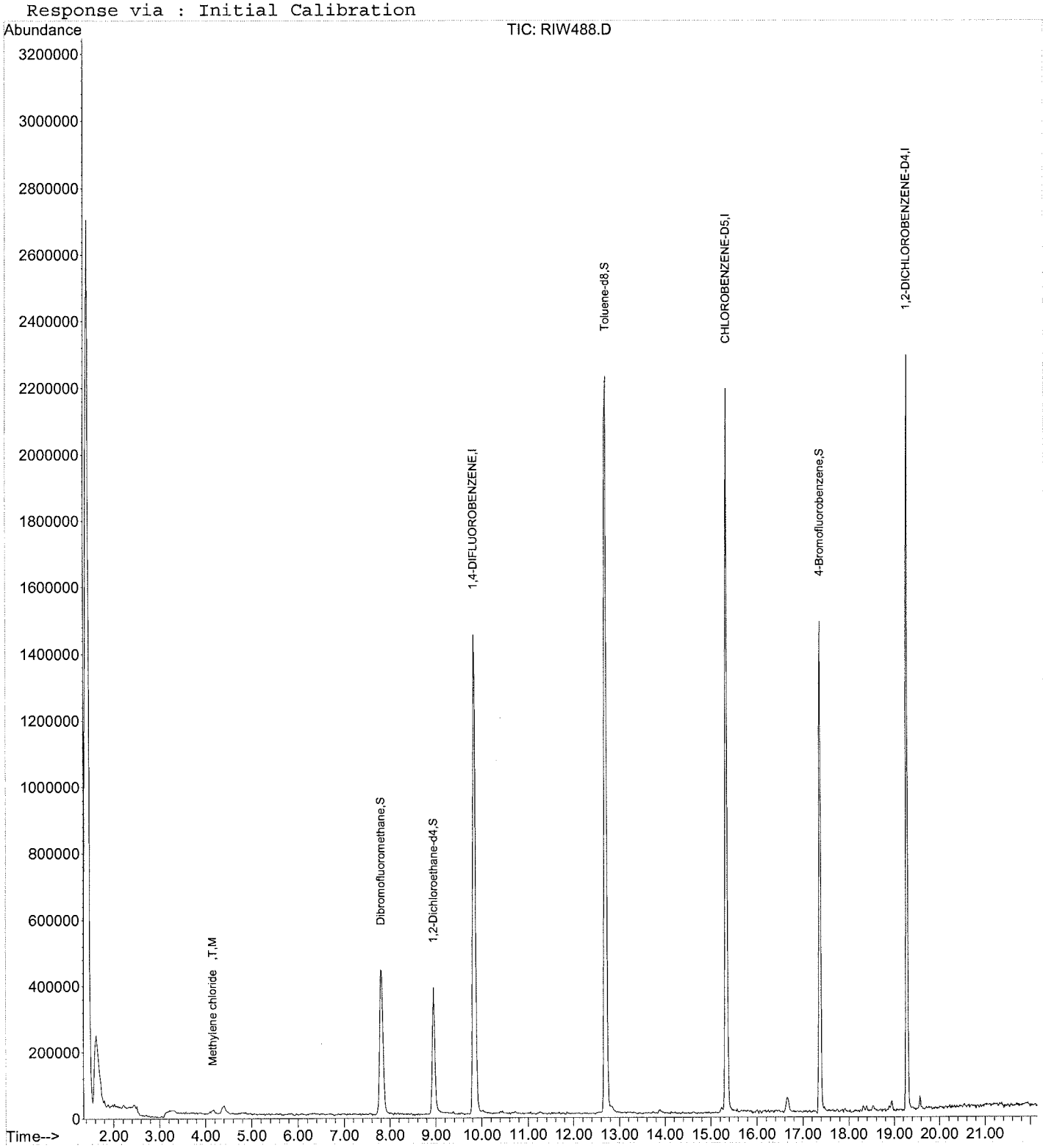
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	2857054	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	2194978	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	931558	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	781798	11.17	ug/l	0.00
Spiked Amount 10.000			Recovery = 111.70%			
42) 1,2-Dichloroethane-d4	8.96	65	567363	11.71	ug/l	0.00
Spiked Amount 10.000			Recovery = 117.10%			
55) Toluene-d8	12.71	98	3243773	10.69	ug/l	0.02
Spiked Amount 10.000			Recovery = 106.90%			
77) 4-Bromofluorobenzene	17.38	95	981253	9.43	ug/l	0.00
Spiked Amount 10.000			Recovery = 94.30%			
Target Compounds						Qvalue
18) Methylene chloride	4.16	49	12891	0.14	ug/l	91

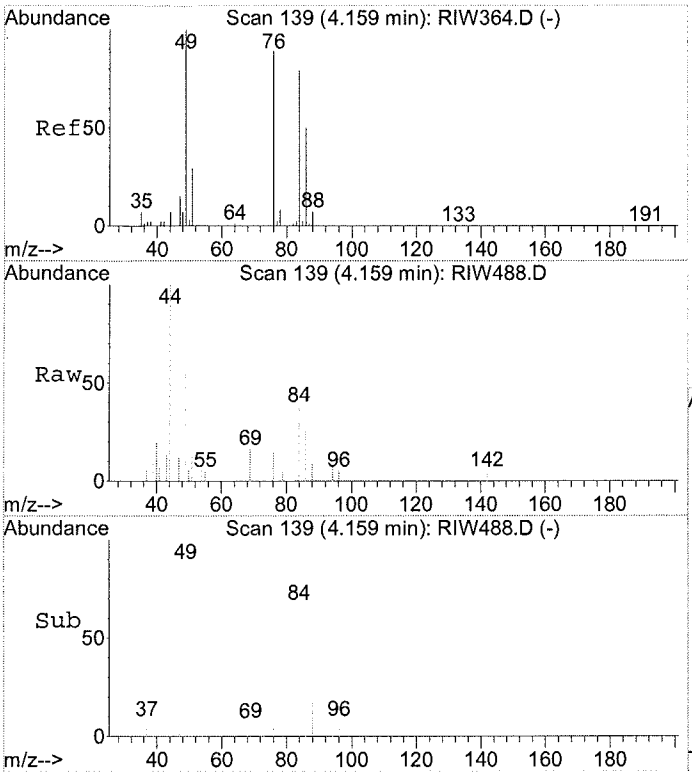
(#) = qualifier out of range (m) = manual integration
RIW488.D VO06J19.M Thu Nov 21 09:50:28 2024 Page 1

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW488.D Vial: 31
Acq On : 25 Oct 2024 8:13 am Operator: PMai
Sample : 24J145-03 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 9:50 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration

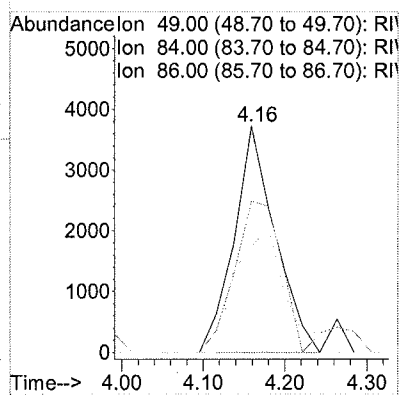




#18
Methylene chloride
Concen: 0.14 ug/l
RT: 4.16 min Scan# 139
Delta R.T. -0.00 min
Lab File: RIW488.D
Acq: 25 Oct 2024 8:13 am

Tgt Ion: 49 Resp: 12891

Ion	Ratio	Lower	Upper
49	100		
84	78.9	51.8	111.8
86	65.3	21.9	81.9



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/22/24 10:15
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/26/24 17:19
Sample ID	: T1AMF-MW062_OCT24	Date Analyzed:	10/26/24 17:19
Lab Samp ID:	24J145-04	Dilution Factor:	1
Lab File ID:	RIW499	Matrix:	WATER
Ext Btch ID:	VO06J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.4	10.0	114	81-118
4-Bromofluorobenzene	9.84	10.0	98	85-114
Toluene-d8	8.94	10.0	89	89-112
Dibromofluoromethane	9.05	10.0	90	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW499.D Vial: 8
Acq On : 26 Oct 2024 5:19 pm Operator: DNguye
Sample : 24J145-04 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 9:52 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	3281594	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	2560008	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	886649	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.80	111	727368	9.05	ug/l	0.00
Spiked Amount 10.000			Recovery = 90.50%			
42) 1,2-Dichloroethane-d4	8.96	65	635954	11.43	ug/l	0.00
Spiked Amount 10.000			Recovery = 114.30%			
55) Toluene-d8	12.71	98	3163100	8.94	ug/l	0.02
Spiked Amount 10.000			Recovery = 89.40%			
77) 4-Bromofluorobenzene	17.38	95	974083	9.84	ug/l	0.00
Spiked Amount 10.000			Recovery = 98.40%			

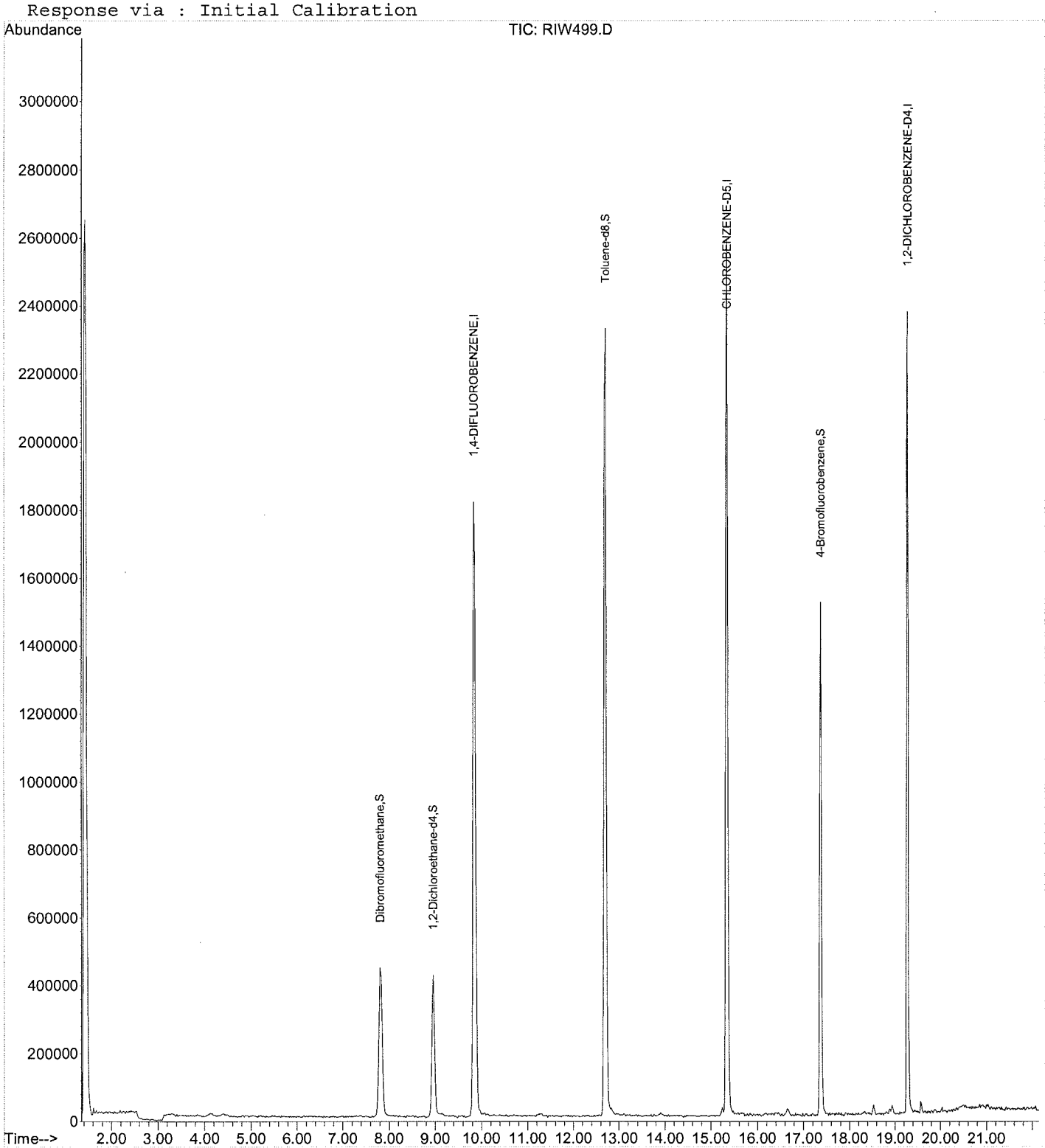
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
RIW499.D VO06J19.M Thu Nov 21 09:53:00 2024 Page 1

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW499.D Vial: 8
Acq On : 26 Oct 2024 5:19 pm Operator: DNguye
Sample : 24J145-04 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 9:52 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/22/24 11:20
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/26/24 17:45
Sample ID	: T1AMF-MW061_OCT24	Date Analyzed:	10/26/24 17:45
Lab Samp ID:	24J145-05	Dilution Factor:	1
Lab File ID:	RIW500	Matrix:	WATER
Ext Btch ID:	VO06J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.9	10.0	109	81-118
4-Bromofluorobenzene	10.5	10.0	105	85-114
Toluene-dB	9.06	10.0	91	89-112
Dibromofluoromethane	9.18	10.0	92	80-119

Notes:

Sample Amount	: 25ml	Final Volume :	25ml
Prepared by	: DNguye	Analyzed by :	DNguye

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW500.D Vial: 9
Acq On : 26 Oct 2024 5:45 pm Operator: DNguye
Sample : 24J145-05 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 10:06 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

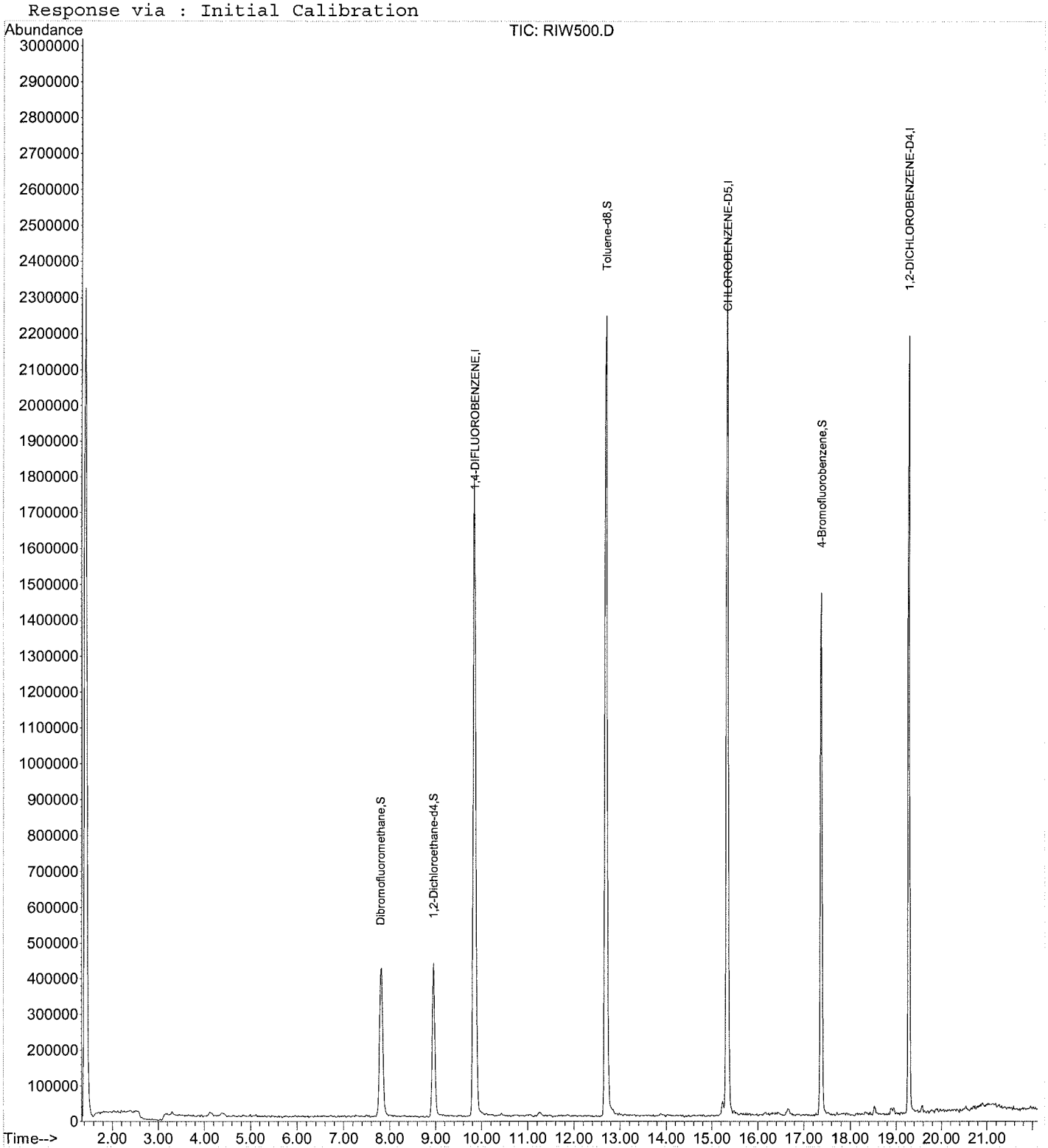
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.86	114	3217301	10.00	ug/l	0.02
54) CHLOROBENZENE-D5	15.34	117	2460843	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	821026	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	723749	9.18	ug/l	0.00
Spiked Amount 10.000			Recovery = 91.80%			
42) 1,2-Dichloroethane-d4	8.96	65	597258	10.95	ug/l	0.00
Spiked Amount 10.000			Recovery = 109.50%			
55) Toluene-d8	12.71	98	3079867	9.06	ug/l	0.02
Spiked Amount 10.000			Recovery = 90.60%			
77) 4-Bromofluorobenzene	17.38	95	959956	10.47	ug/l	0.00
Spiked Amount 10.000			Recovery = 104.70%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW500.D Vial: 9
Acq On : 26 Oct 2024 5:45 pm Operator: DNguye
Sample : 24J145-05 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 10:06 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/22/24 12:25
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/26/24 18:11
Sample ID	: T1AMF-MW030_OCT24	Date Analyzed:	10/26/24 18:11
Lab Samp ID:	24J145-06	Dilution Factor:	1
Lab File ID:	RIW501	Matrix:	WATER
Ext Btch ID:	VO06J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.6	10.0	116	81-118
4-Bromofluorobenzene	9.65	10.0	97	85-114
Toluene-d8	8.97	10.0	90	89-112
Dibromofluoromethane	9.44	10.0	94	80-119

Notes:

Sample Amount	: 25ml	Final Volume :	25ml
Prepared by	: DNguye	Analyzed by :	DNguye

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW501.D Vial: 10
Acq On : 26 Oct 2024 6:11 pm Operator: DNguye
Sample : 24J145-06 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 10:09 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	2947622	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	2307617	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	808194	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.83	111	681706	9.44	ug/l	0.02
Spiked Amount 10.000			Recovery =	94.40%		
42) 1,2-Dichloroethane-d4	8.96	65	580722	11.62	ug/l	0.00
Spiked Amount 10.000			Recovery =	116.20%		
55) Toluene-d8	12.71	98	2861406	8.97	ug/l	0.02
Spiked Amount 10.000			Recovery =	89.70%		
77) 4-Bromofluorobenzene	17.38	95	871098	9.65	ug/l	0.00
Spiked Amount 10.000			Recovery =	96.50%		

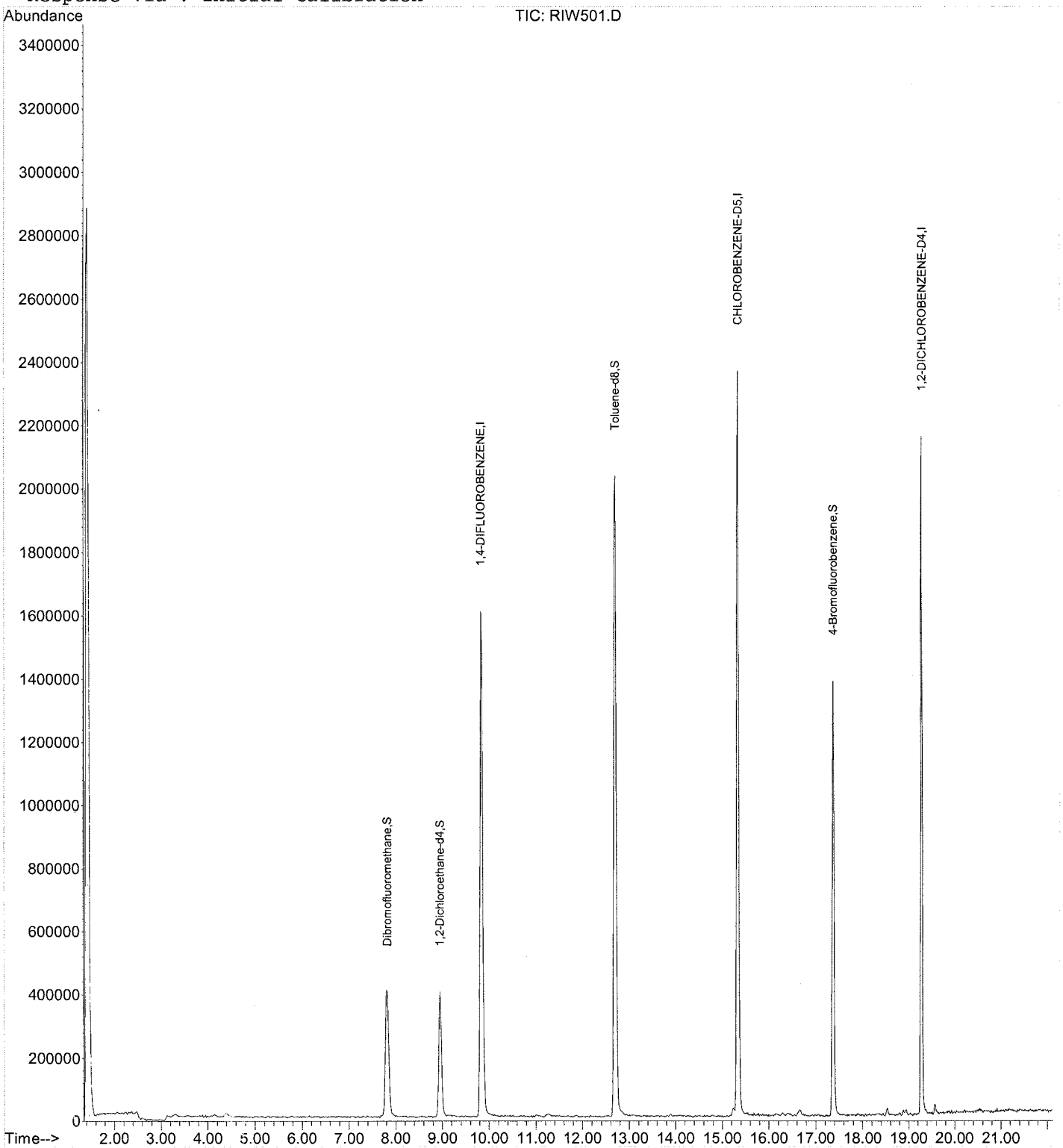
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW501.D Vial: 10
Acq On : 26 Oct 2024 6:11 pm Operator: DNguye
Sample : 24J145-06 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 10:09 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/22/24 12:30
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/26/24 18:38
Sample ID	: T1AMF-MW030_OCT24_FD	Date Analyzed:	10/26/24 18:38
Lab Samp ID:	24J145-07	Dilution Factor:	1
Lab File ID:	RIW502	Matrix:	WATER
Ext Btch ID:	VO06J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	12.8	10.0	128*	81-118
4-Bromofluorobenzene	9.68	10.0	97	85-114
Toluene-d8	9.09	10.0	91	89-112
Dibromofluoromethane	9.73	10.0	97	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW502.D Vial: 11
Acq On : 26 Oct 2024 6:38 pm Operator: DNguye
Sample : 24J145-07 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 10:18 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	2929962	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	2285309	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	847260	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.83	111	698393	9.73	ug/l	0.02
Spiked Amount 10.000			Recovery =	97.30%		
42) 1,2-Dichloroethane-d4	8.96	65	634529	12.77	ug/l	0.00
Spiked Amount 10.000			Recovery =	127.70%		
55) Toluene-d8	12.71	98	2870885	9.09	ug/l	0.02
Spiked Amount 10.000			Recovery =	90.90%		
77) 4-Bromofluorobenzene	17.38	95	915518	9.68	ug/l	0.00
Spiked Amount 10.000			Recovery =	96.80%		

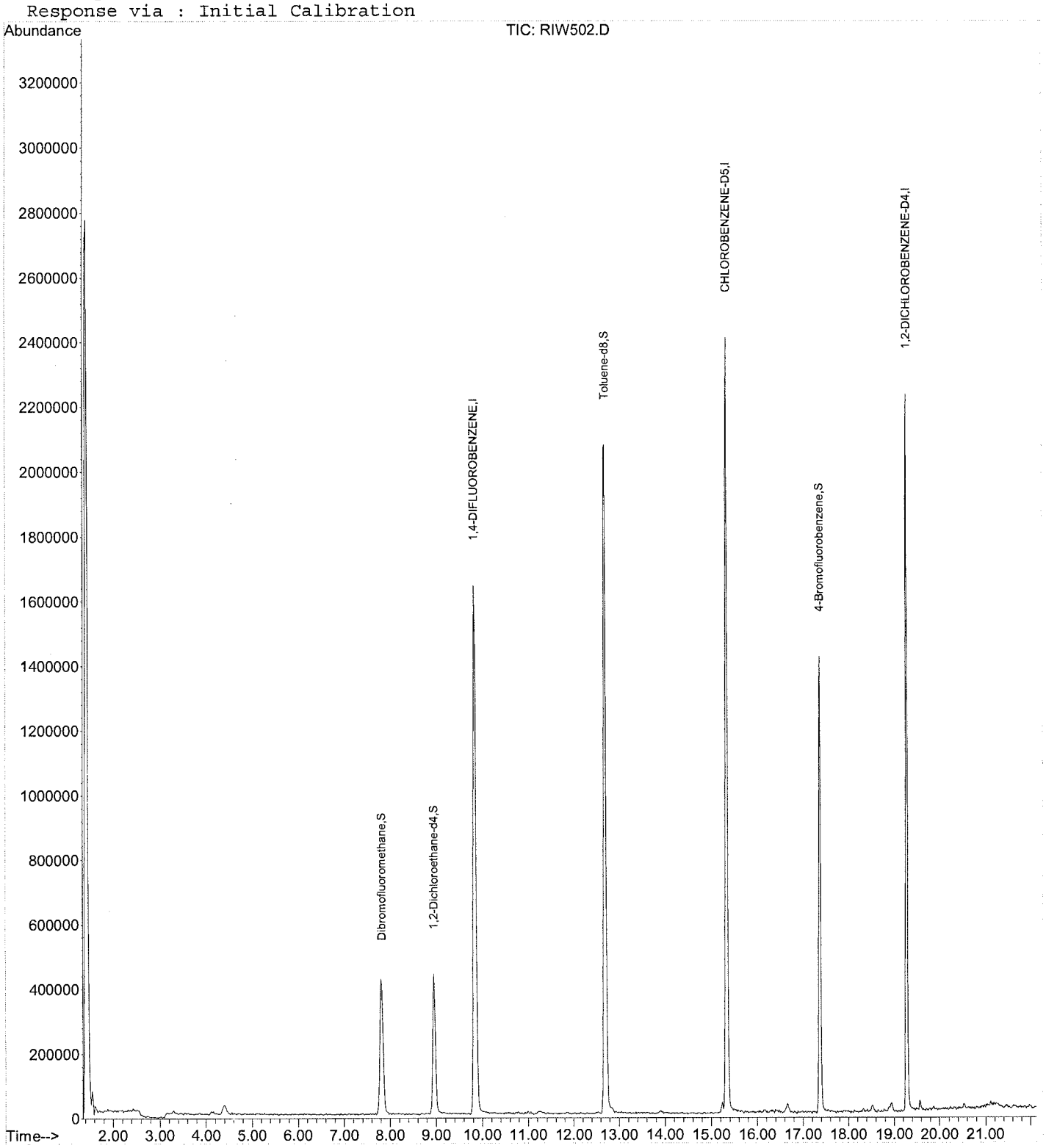
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
RIW502.D VO06J19.M Thu Nov 21 10:18:28 2024 Page 1

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW502.D Vial: 11
Acq On : 26 Oct 2024 6:38 pm Operator: DNguye
Sample : 24J145-07 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 10:18 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/22/24 13:19
Project	: T1TAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/26/24 19:04
Sample ID	: T1AMF-MW057_OCT24	Date Analyzed:	10/26/24 19:04
Lab Samp ID:	24J145-08	Dilution Factor:	1
Lab File ID:	RIW503	Matrix:	WATER
Ext Btch ID:	VO06J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	0.21J	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.8	10.0	118	81-118
4-Bromofluorobenzene	9.59	10.0	96	85-114
Toluene-d8	8.97	10.0	90	89-112
Dibromofluoromethane	9.25	10.0	93	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW503.D Vial: 12
Acq On : 26 Oct 2024 7:04 pm Operator: DNguye
Sample : 24J145-08 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 10:20 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

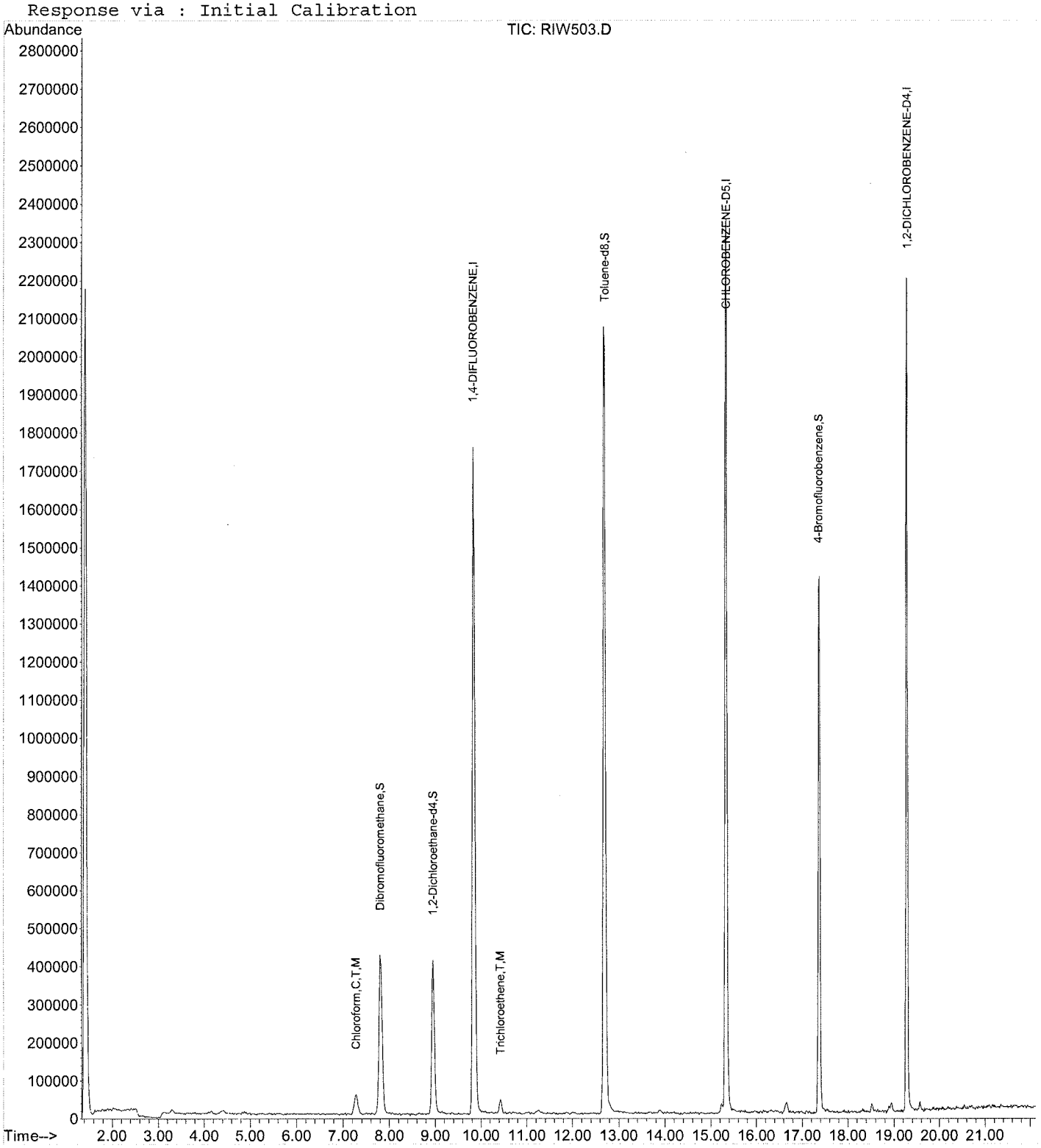
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	2997310	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	2332924	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	843934	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.80	111	679348	9.25	ug/l	0.00
Spiked Amount 10.000			Recovery = 92.50%			
42) 1,2-Dichloroethane-d4	8.96	65	600333	11.81	ug/l	0.00
Spiked Amount 10.000			Recovery = 118.10%			
55) Toluene-d8	12.71	98	2892346	8.97	ug/l	0.02
Spiked Amount 10.000			Recovery = 89.70%			
77) 4-Bromofluorobenzene	17.36	95	903427	9.59	ug/l	-0.01
Spiked Amount 10.000			Recovery = 95.90%			
Target Compounds						Qvalue
31) Chloroform	7.28	83	110031	0.73	ug/l	91
45) Trichloroethene	10.42	130	19538	0.21	ug/l	83

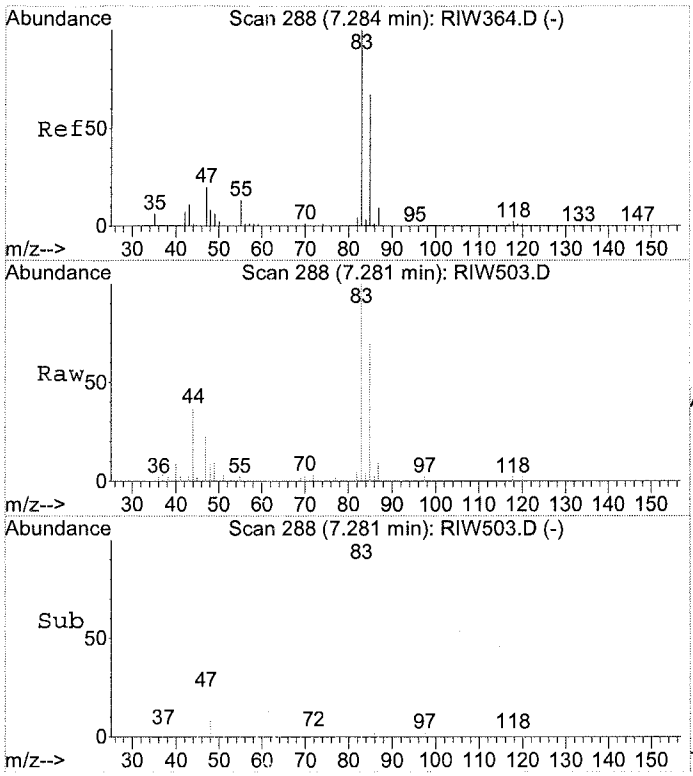
(#) = qualifier out of range (m) = manual integration
RIW503.D VO06J19.M Thu Nov 21 10:20:33 2024 Page 1

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW503.D Vial: 12
Acq On : 26 Oct 2024 7:04 pm Operator: DNguye
Sample : 24J145-08 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 10:20 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration

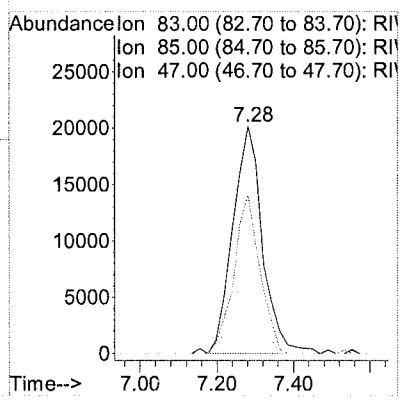


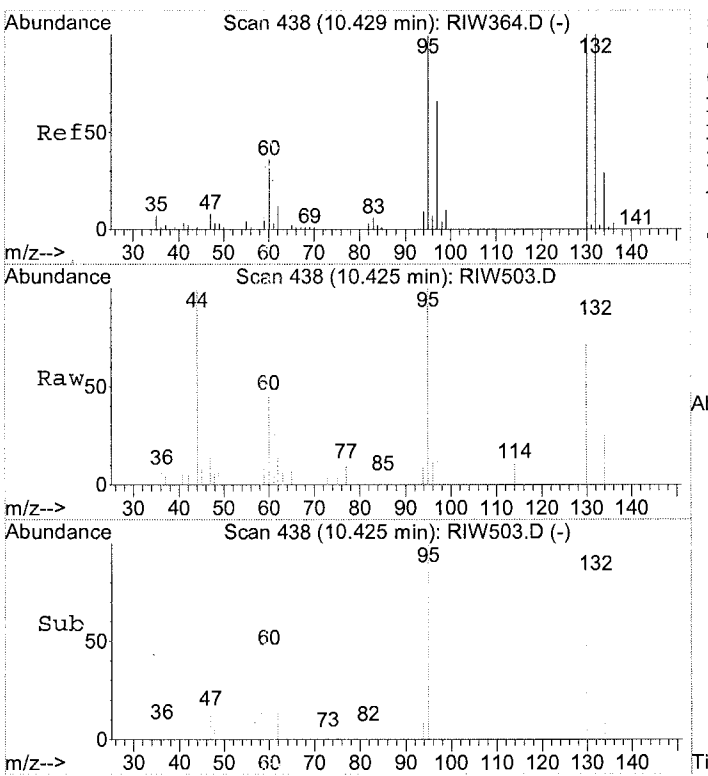


#31
Chloroform
Concen: 0.73 ug/l
RT: 7.28 min Scan# 288
Delta R.T. -0.00 min
Lab File: RIW503.D
Acq: 26 Oct 2024 7:04 pm

Tgt Ion: 83 Resp: 110031

Ion	Ratio	Lower	Upper
83	100		
85	61.2	37.3	97.3
47	28.0	0.0	51.1

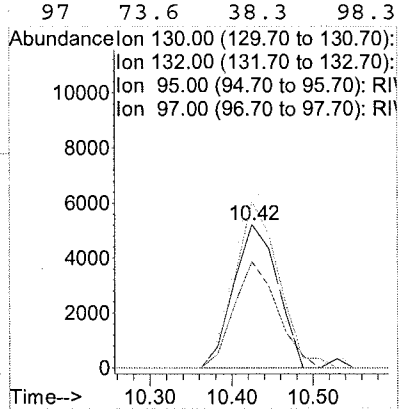




#45
Trichloroethene
Concen: 0.21 ug/l
RT: 10.42 min Scan# 438
Delta R.T. -0.00 min
Lab File: RIW503.D
Acq: 26 Oct 2024 7:04 pm

Tgt Ion:130 Resp: 19538

Ion	Ratio	Lower	Upper
130	100		
132	116.2	68.1	128.1
95	122.0	69.5	129.5
97	73.6	38.3	98.3



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/22/24 14:19
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/26/24 19:30
Sample ID	: T1AMF-MW048_OCT24	Date Analyzed:	10/26/24 19:30
Lab Samp ID:	24J145-09	Dilution Factor:	1
Lab File ID:	RIW504	Matrix:	WATER
Ext Btch ID:	VOO6J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.4	10.0	114	81-118
4-Bromofluorobenzene	10.4	10.0	104	85-114
Toluene-d8	9.09	10.0	91	89-112
Dibromofluoromethane	9.02	10.0	90	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW504.D Vial: 13
Acq On : 26 Oct 2024 7:30 pm Operator: DNguye
Sample : 24J145-09 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 10:22 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	2859735	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	2172798	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	721734	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	631555	9.02	ug/l	0.00
Spiked Amount 10.000			Recovery = 90.20%			
42) 1,2-Dichloroethane-d4	8.96	65	553932	11.42	ug/l	0.00
Spiked Amount 10.000			Recovery = 114.20%			
55) Toluene-d8	12.69	98	2729929	9.09	ug/l	0.00
Spiked Amount 10.000			Recovery = 90.90%			
77) 4-Bromofluorobenzene	17.38	95	836239	10.38	ug/l	0.00
Spiked Amount 10.000			Recovery = 103.80%			

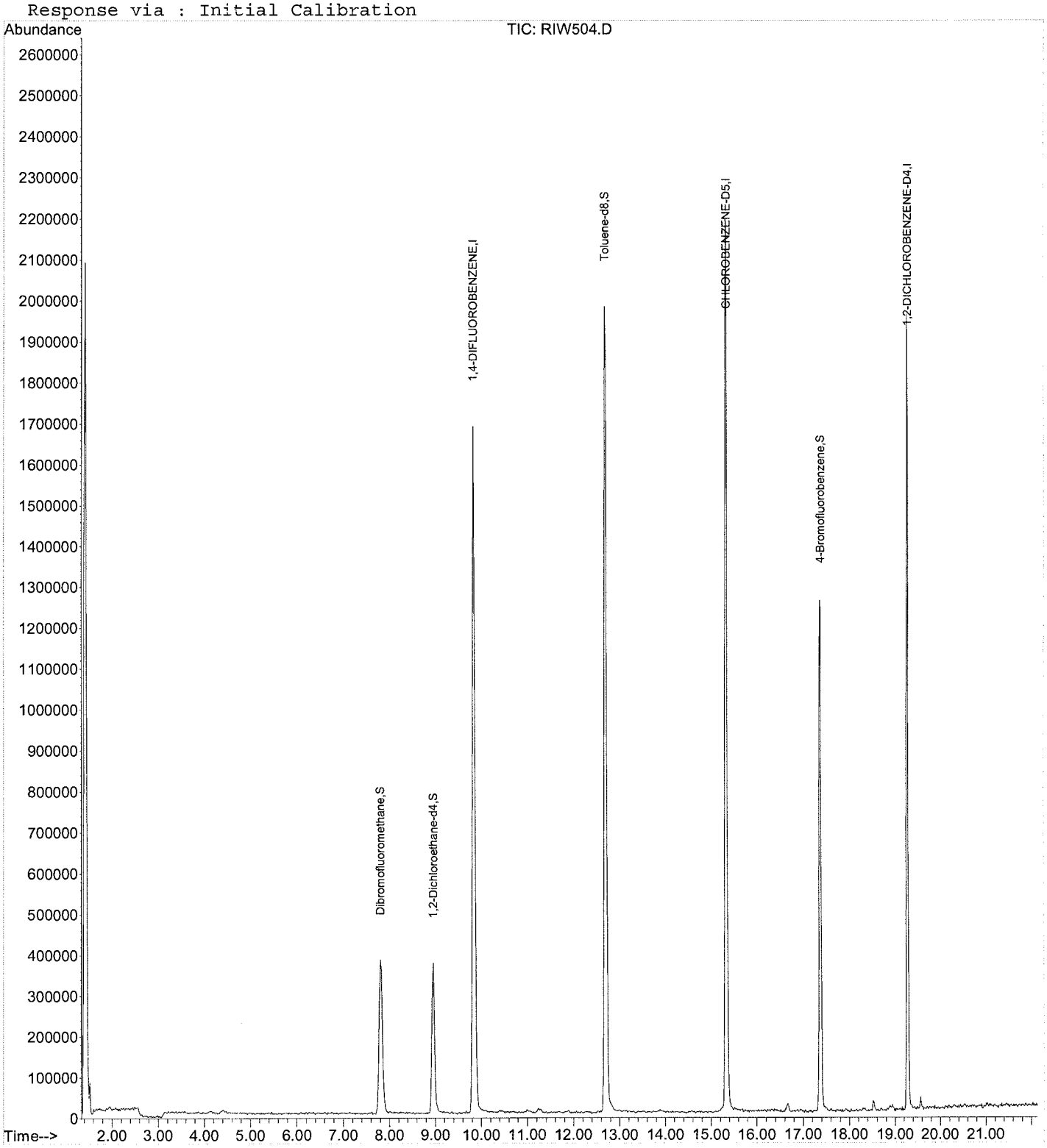
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW504.D Vial: 13
Acq On : 26 Oct 2024 7:30 pm Operator: DNguye
Sample : 24J145-09 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 10:22 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/22/24 15:10
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/26/24 19:57
Sample ID	: T1AMF-MW060_OCT24	Date Analyzed:	10/26/24 19:57
Lab Samp ID:	24J145-10	Dilution Factor:	1
Lab File ID:	RIW505	Matrix:	WATER
Ext Btch ID:	VO06J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	1.4	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	12.4	10.0	124*	81-118
4-Bromofluorobenzene	9.87	10.0	99	85-114
Toluene-d8	9.08	10.0	91	89-112
Dibromofluoromethane	9.42	10.0	94	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW505.D Vial: 14
Acq On : 26 Oct 2024 7:57 pm Operator: DNguye
Sample : 24J145-10 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 10:25 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

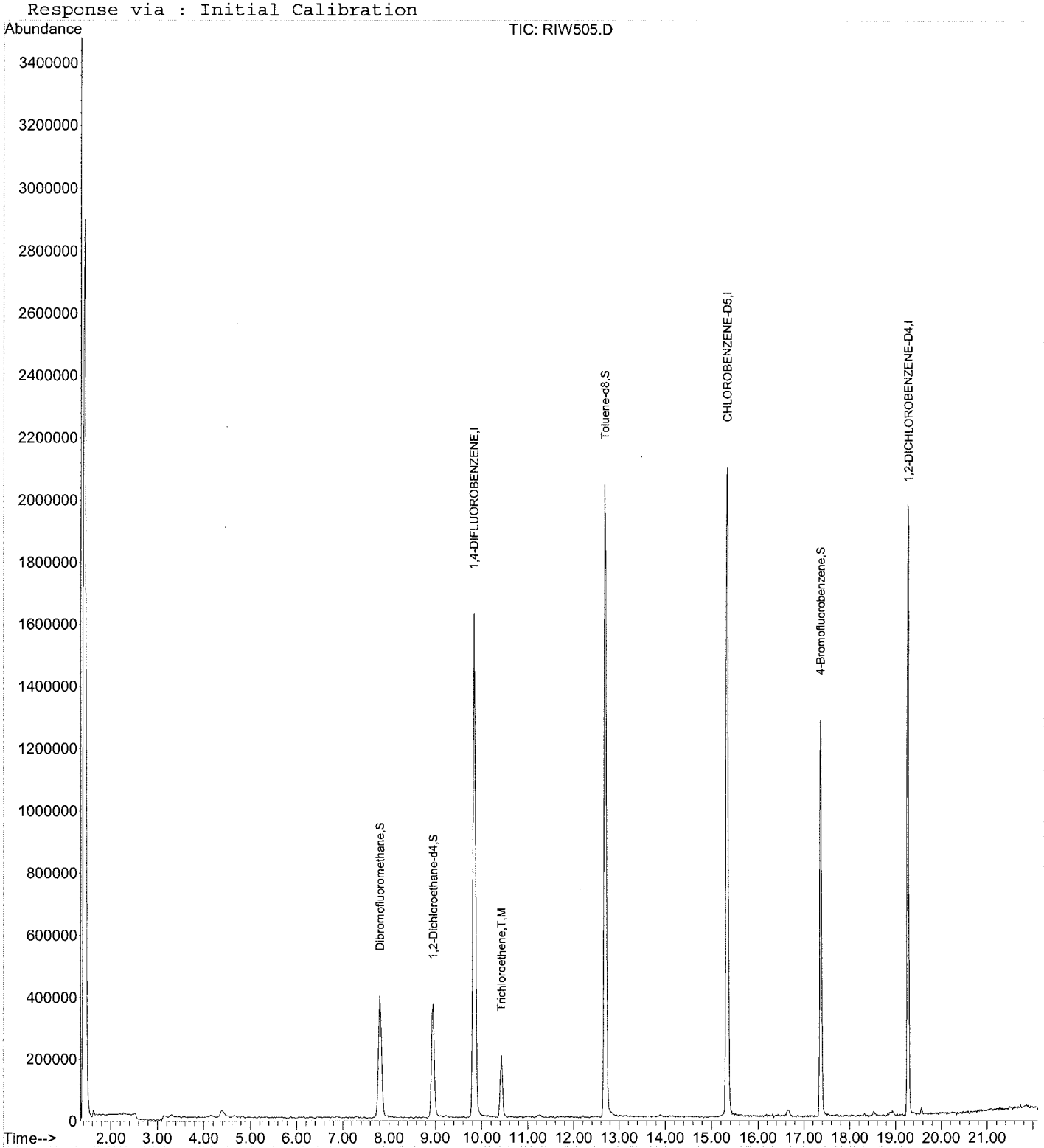
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	2741380	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	2129418	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	746929	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	632260	9.42	ug/l	0.00
Spiked Amount 10.000			Recovery =	94.20%		
42) 1,2-Dichloroethane-d4	8.96	65	574621	12.36	ug/l	0.00
Spiked Amount 10.000			Recovery =	123.60%		
55) Toluene-d8	12.69	98	2670998	9.08	ug/l	0.00
Spiked Amount 10.000			Recovery =	90.80%		
77) 4-Bromofluorobenzene	17.36	95	823233	9.87	ug/l	-0.01
Spiked Amount 10.000			Recovery =	98.70%		
Target Compounds						Qvalue
45) Trichloroethene	10.43	130	120563	1.44	ug/l	94

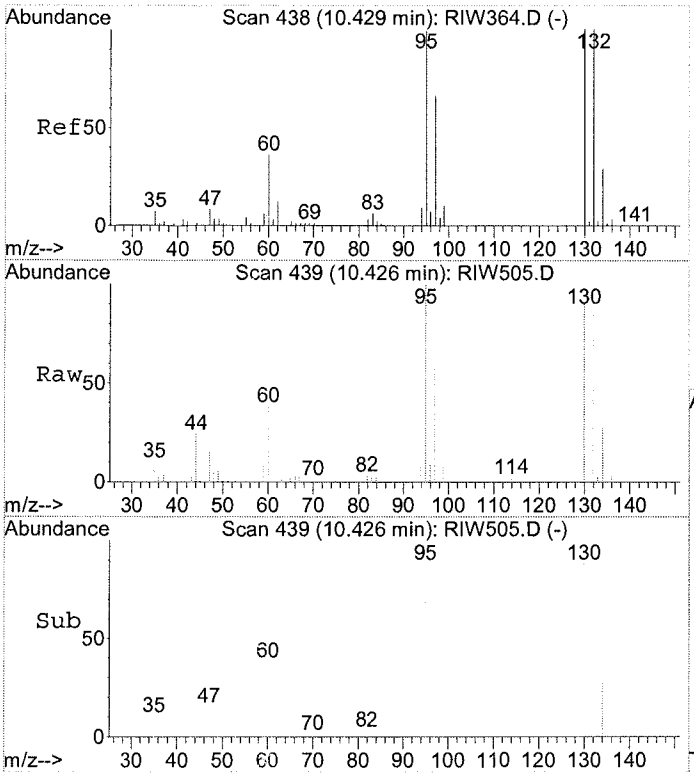
(#) = qualifier out of range (m) = manual integration
RIW505.D VO06J19.M Thu Nov 21 10:25:22 2024 Page 1

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW505.D Vial: 14
Acq On : 26 Oct 2024 7:57 pm Operator: DNguye
Sample : 24J145-10 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 21 10:25 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration

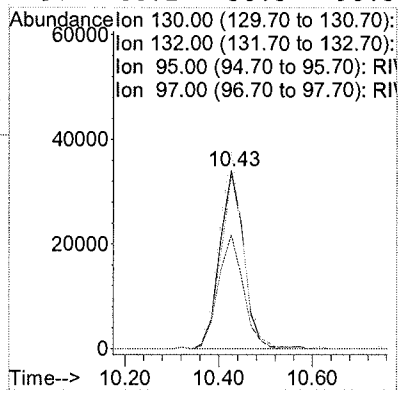




#45
Trichloroethene
Concen: 1.44 ug/l
RT: 10.43 min Scan# 439
Delta R.T. -0.00 min
Lab File: RIW505.D
Acq: 26 Oct 2024 7:57 pm

Tgt Ion:130 Resp: 120563

Ion	Ratio	Lower	Upper
130	100		
132	95.2	68.1	128.1
95	111.8	69.5	129.5
97	66.1	38.3	98.3



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/22/24 16:09
Project	: TITAN 1-A	Date Received:	10/23/24
Batch No.	: 24J145	Date Extracted:	10/26/24 16:53
Sample ID	: T1AMF-MW059_OCT24	Date Analyzed:	10/26/24 16:53
Lab Samp ID:	24J145-11	Dilution Factor:	1
Lab File ID:	RIW498	Matrix:	WATER
Ext Btch ID:	VOO6J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	0.31J	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	6.8	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.4	10.0	114	81-118
4-Bromofluorobenzene	9.52	10.0	95	85-114
Toluene-d8	8.63	10.0	86*	89-112
Dibromofluoromethane	9.03	10.0	90	80-119

Notes:

Sample Amount	: 25ml	Final Volume :	25ml
Prepared by	: DNguye	Analyzed by :	DNguye

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW498.D Vial: 7
Acq On : 26 Oct 2024 4:53 pm Operator: DNguye
Sample : 24J145-11 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 25 12:39 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

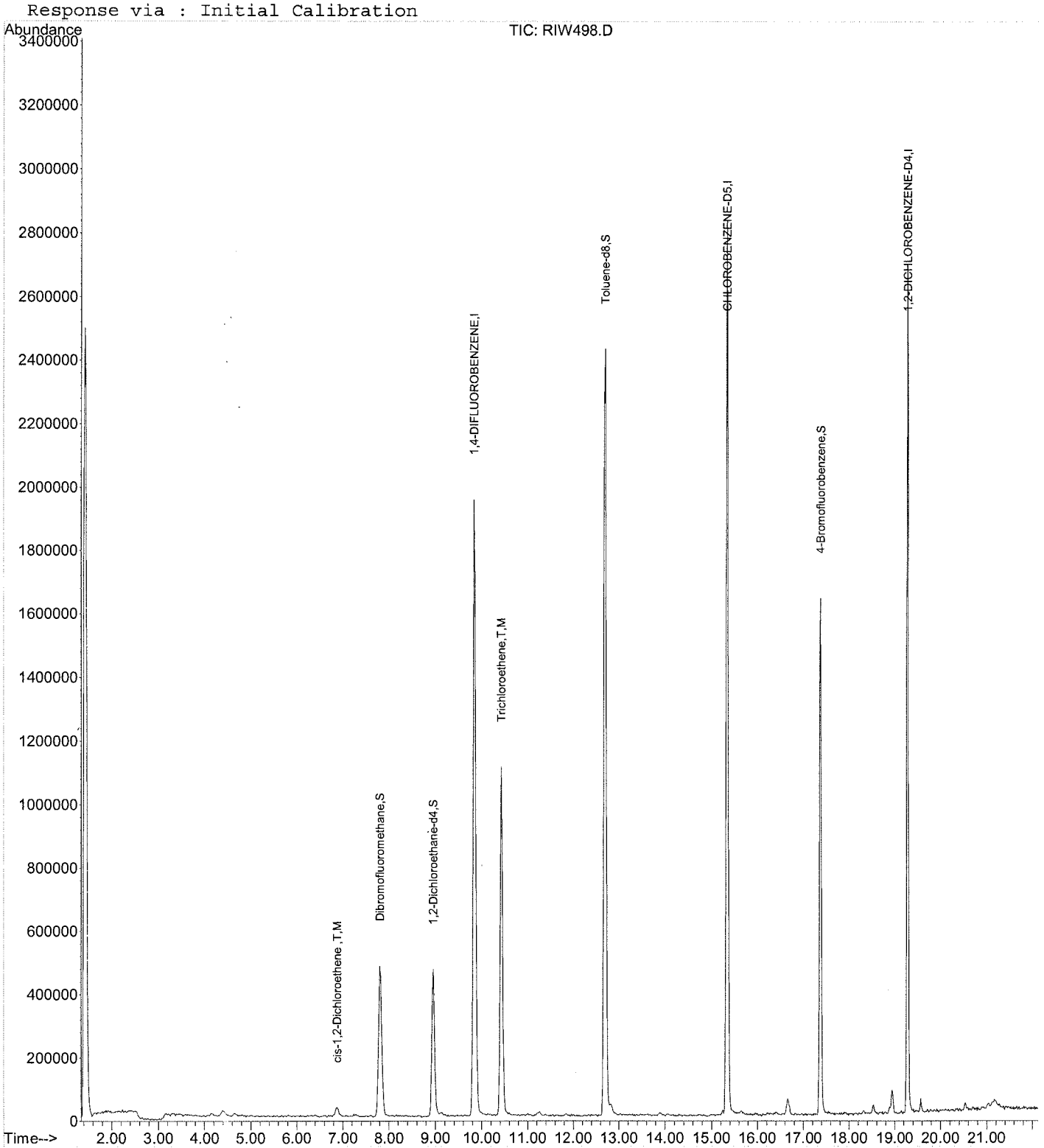
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	3495902	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	2788721	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	999316	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	773313	9.03	ug/l	0.00
Spiked Amount 10.000			Recovery = 90.30%			
42) 1,2-Dichloroethane-d4	8.96	65	676000	11.40	ug/l	0.00
Spiked Amount 10.000			Recovery = 114.00%			
55) Toluene-d8	12.71	98	3327929	8.63	ug/l	0.02
Spiked Amount 10.000			Recovery = 86.30%			
77) 4-Bromofluorobenzene	17.38	95	1062083	9.52	ug/l	0.00
Spiked Amount 10.000			Recovery = 95.20%			
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	6.88	96	35943	0.31	ug/l	92
45) Trichloroethene	10.43	130	724554	6.77	ug/l	95

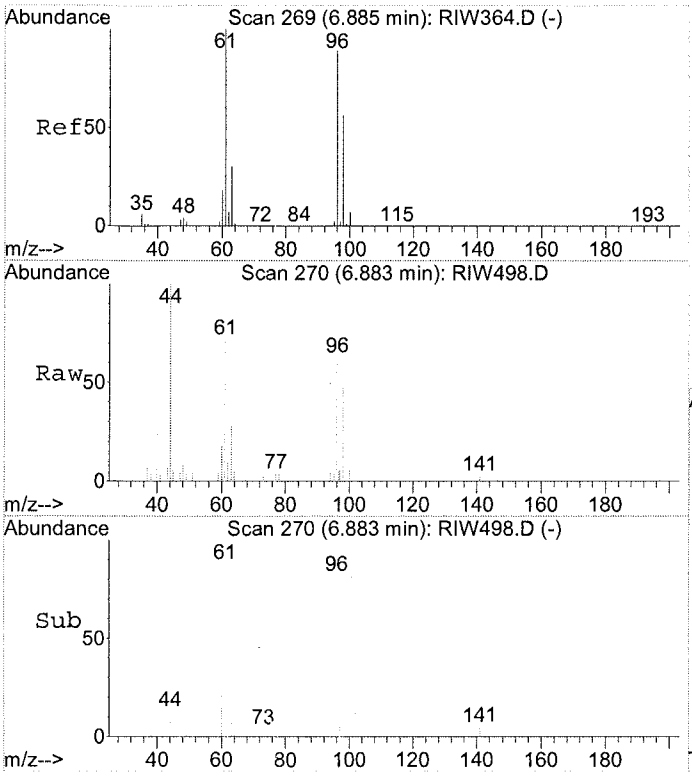
(#) = qualifier out of range (m) = manual integration
RIW498.D VO06J19.M Mon Nov 25 12:39:59 2024 Page 1

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW498.D Vial: 7
Acq On : 26 Oct 2024 4:53 pm Operator: DNguye
Sample : 24J145-11 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 25 12:39 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration

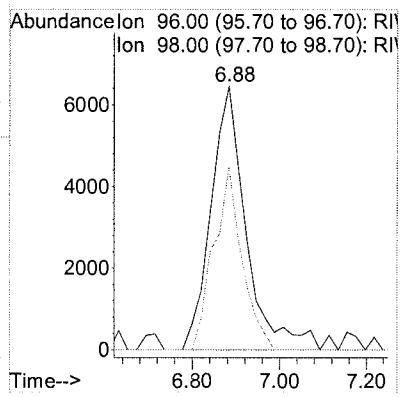


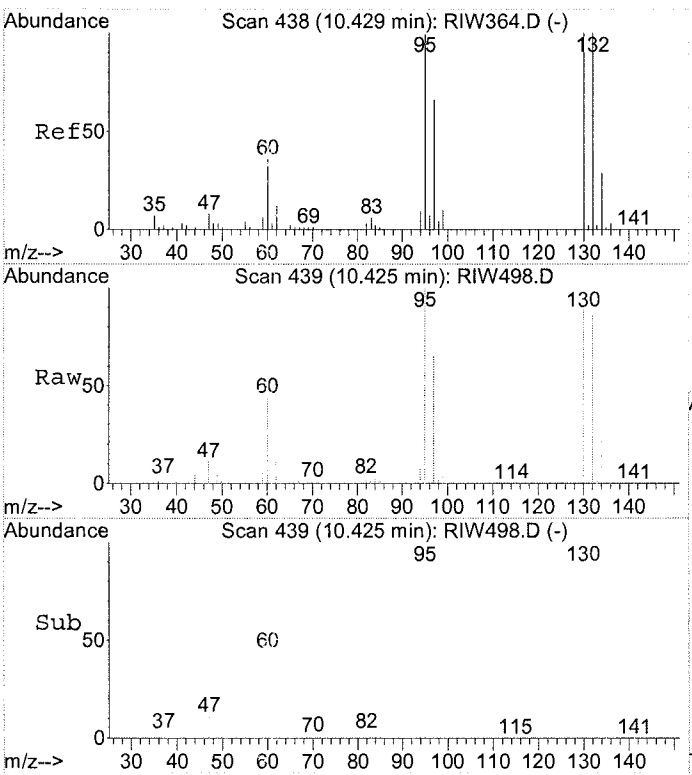


#30
cis-1,2-Dichloroethene
Concen: 0.31 ug/l
RT: 6.88 min Scan# 270
Delta R.T. -0.00 min
Lab File: RIW498.D
Acq: 26 Oct 2024 4:53 pm

Tgt Ion: 96 Resp: 35943

Ion	Ratio	Lower	Upper
96	100		
98	55.7	32.1	92.1

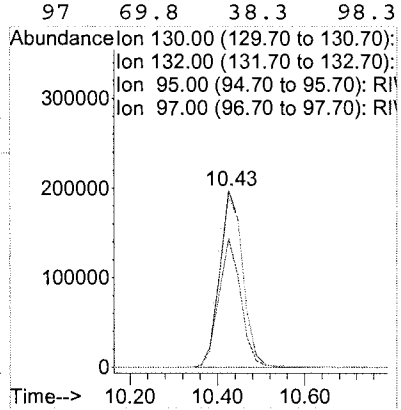




#45
Trichloroethene
Concen: 6.77 ug/l
RT: 10.43 min Scan# 439
Delta R.T. -0.00 min
Lab File: RIW498.D
Acq: 26 Oct 2024 4:53 pm

Tgt Ion:130 Resp: 724554

Ion	Ratio	Lower	Upper
130	100		
132	97.9	68.1	128.1
95	110.4	69.5	129.5
97	69.8	38.3	98.3



QC SUMMARIES

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 20:50
Project	: TITAN 1-A	Date Received:	10/24/24
Batch No.	: 24J145	Date Extracted:	10/24/24 20:50
Sample ID	: MBLK1W	Date Analyzed:	10/24/24 20:50
Lab Samp ID:	VO06J22B	Dilution Factor:	1
Lab File ID:	RIW482	Matrix:	WATER
Ext Btch ID:	VO06J22	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.5	10.0	115	81-118
4-Bromofluorobenzene	10.3	10.0	103	85-114
Toluene-d8	10.1	10.0	101	89-112
Dibromofluoromethane	10.9	10.0	109	80-119

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: PMai	Analyzed by	: PMai

Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J145
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: VO06J22B	VO06J22L	VO06J22C
LAB FILE ID	: RIW482	RIW479	RIW480
DATE PREPARED	: 10/24/24 20:50	10/24/24 19:32	10/24/24 19:58
DATE ANALYZED	: 10/24/24 20:50	10/24/24 19:32	10/24/24 19:58
PREP BATCH	: VO06J22	VO06J22	VO06J22
CALIBRATION REF:	RIW364	RIW364	RIW364

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichlorcethene	ND	10.0	9.94	99	10.0	9.65	97	3	71-131	20
1,4-Dichlorobenzene	ND	10.0	10.6	106	10.0	10.4	104	2	79-118	20
Benzene	ND	10.0	10.4	104	10.0	9.94	99	5	79-120	20
cis-1,2-Dichlorcethene	ND	10.0	10.2	102	10.0	9.74	97	5	78-123	20
Ethylbenzene	ND	10.0	10.1	101	10.0	9.99	100	1	79-121	20
m,p-Xylene	ND	20.0	20.2	101	20.0	19.7	99	3	80-121	20
o-Xylene	ND	10.0	9.96	100	10.0	9.73	97	2	78-122	20
Toluene	ND	10.0	10.0	100	10.0	9.94	99	1	80-121	20
Trans-1,2-Dichloroethene	ND	10.0	9.58	96	10.0	9.02	90	6	75-124	20
Trichloroethene	ND	10.0	9.99	100	10.0	9.82	98	2	79-123	20
Vinyl Chloride	ND	10.0	10.2	102	10.0	8.47	85	19	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	11.5	115	10.0	10.8	108	81-118
4-Bromofluorobenzene	10.0	10.7	107	10.0	10.7	107	85-114
Toluene-d8	10.0	10.1	101	10.0	10.4	104	89-112
Dibromofluoromethane	10.0	10.9	109	10.0	10.8	108	80-119

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/26/24 16:27
Project	: TITAN 1-A	Date Received:	10/26/24
Batch No.	: 24J145	Date Extracted:	10/26/24 16:27
Sample ID	: MBLK2W	Date Analyzed:	10/26/24 16:27
Lab Samp ID:	VO06J23B	Dilution Factor:	1
Lab File ID:	RIW497	Matrix:	WATER
Ext Btch ID:	VO06J23	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.8	10.0	108	81-118
4-Bromofluorobenzene	9.90	10.0	99	85-114
Toluene-d8	9.21	10.0	92	89-112
Dibromofluoromethane	9.10	10.0	91	80-119

Notes:

Sample Amount	: 25ml	Final Volume :	25ml
Prepared by	: DNguye	Analyzed by :	DNguye

Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J145
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK2W	LCS3W	LCD2W
LAB SAMPLE ID	: V006J23B	V006J23L	V006J23C
LAB FILE ID	: RIW497	RIW494	RIW495
DATE PREPARED	: 10/26/24 16:27	10/26/24 15:08	10/26/24 15:34
DATE ANALYZED	: 10/26/24 16:27	10/26/24 15:08	10/26/24 15:34
PREP BATCH	: V006J23	V006J23	V006J23
CALIBRATION REF:	RIW364	RIW364	RIW364

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichloroethene	ND	10.0	12.5	125	10.0	10.1	101	21*	71-131	20
1,4-Dichlorobenzene	ND	10.0	9.44	94	10.0	10.6	106	12	79-118	20
Benzene	ND	10.0	10.8	108	10.0	10.4	104	4	79-120	20
cis-1,2-Dichloroethene	ND	10.0	10.5	105	10.0	9.39	94	11	78-123	20
Ethylbenzene	ND	10.0	10.6	106	10.0	10.2	102	4	79-121	20
m,p-Xylene	ND	20.0	20.8	104	20.0	20.3	102	2	80-121	20
o-Xylene	ND	10.0	11.0	110	10.0	10.0	100	10	78-122	20
Toluene	ND	10.0	10.9	109	10.0	10.3	103	6	80-121	20
Trans-1,2-Dichloroethene	ND	10.0	10.7	107	10.0	9.11	91	16	75-124	20
Trichloroethene	ND	10.0	9.62	96	10.0	9.26	93	4	79-123	20
Vinyl Chloride	ND	10.0	9.45	95	10.0	7.64	76	21*	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	10.9	109	10.0	9.56	96	81-118
4-Bromofluorobenzene	10.0	8.73	87	10.0	10.0	100	85-114
Toluene-d8	10.0	9.95	100	10.0	9.31	93	89-112
Dibromofluoromethane	10.0	9.41	94	10.0	8.46	85	80-119

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate
* Out of QC Limit

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/28/24 14:41
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J145	Date Extracted:	10/28/24 14:41
Sample ID	: MBLK3W	Date Analyzed:	10/28/24 14:41
Lab Samp ID:	VO06J24B	Dilution Factor:	1
Lab File ID:	RIW497A	Matrix:	WATER
Ext Btch ID:	VO06J24	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.9	10.0	109	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	9.20	10.0	92	89-112
Dibromofluoromethane	8.98	10.0	90	80-119

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: PMai	Analyzed by	: PMai

Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J145
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK3W	LCS2W	LCD3W
LAB SAMPLE ID	: VO06J24B	VO06J24L	VO06J24C
LAB FILE ID	: RIW497A	RIW493A	RIW495A
DATE PREPARED	: 10/28/24 14:41	10/28/24 12:04	10/28/24 11:38
DATE ANALYZED	: 10/28/24 14:41	10/28/24 12:04	10/28/24 11:38
PREP BATCH	: VO06J24	VO06J24	VO06J24
CALIBRATION REF:	RIW364	RIW364	RIW364

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichloroethene	ND	10.0	8.69	87	10.0	11.0	110	23*	71-131	20
1,4-Dichlorobenzene	ND	10.0	9.57	96	10.0	11.0	110	14	79-118	20
Benzene	ND	10.0	8.91	89	10.0	11.2	112	23*	79-120	20
cis-1,2-Dichloroethene	ND	10.0	7.94	79	10.0	9.88	99	22*	78-123	20
Ethylbenzene	ND	10.0	9.10	91	10.0	11.0	110	19	79-121	20
m,p-Xylene	ND	20.0	17.9	90	20.0	21.7	109	19	80-121	20
o-Xylene	ND	10.0	8.90	89	10.0	10.8	108	19	78-122	20
Toluene	ND	10.0	8.94	89	10.0	10.8	108	19	80-121	20
Trans-1,2-Dichloroethene	ND	10.0	7.67	77	10.0	9.68	97	23*	75-124	20
Trichloroethene	ND	10.0	8.05	81	10.0	9.68	97	18	79-123	20
Vinyl Chloride	ND	10.0	9.08	91	10.0	8.67	87	5	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	10.0	100	10.0	10.4	104	81-118
4-Bromofluorobenzene	10.0	10.5	105	10.0	10.0	100	85-114
Toluene-d8	10.0	9.44	94	10.0	9.16	92	89-112
Dibromofluoromethane	10.0	8.47	85	10.0	8.69	87	80-119

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate
* Out of QC Limit

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J145
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: T1AMF-MW059_OCT24	T1AMF-MW059_OCT24MS	T1AMF-MW059_OCT24MSD
LAB SAMPLE ID	: 24J145-11	24J145-11M	24J145-11S
LAB FILE ID	: RIW498	RIW509	RIW510
DATE PREPARED	: 10/26/24 16:53	10/26/24 21:42	10/26/24 22:08
DATE ANALYZED	: 10/26/24 16:53	10/26/24 21:42	10/26/24 22:08
PREP BATCH	: VO06J23	VO06J23	VO06J23
CALIBRATION REF:	RIW364	RIW364	RIW364

ACCESSION:

PARAMETERS	PSResult (ug/L)	SpikeAmt (ug/L)	MSResult (ug/L)	MSRec (%)	SpikeAmt (ug/L)	MSDResult (ug/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichloroethene	ND	10.0	10.1	101	10.0	9.92	99	2	71-131	20
1,4-Dichlorobenzene	ND	10.0	10.5	105	10.0	9.89	99	6	79-118	20
Benzene	ND	10.0	10.3	103	10.0	10.4	104	1	79-120	20
cis-1,2-Dichloroethene	0.314J	10.0	9.57	93	10.0	9.71	94	1	78-123	20
Ethylbenzene	ND	10.0	10.4	104	10.0	10.1	101	3	79-121	20
m,p-Xylene	ND	20.0	20.8	104	20.0	20.1	101	3	80-121	20
o-Xylene	ND	10.0	10.5	105	10.0	10.3	103	2	78-122	20
Toluene	ND	10.0	10.3	103	10.0	10.1	101	2	80-121	20
trans-1,2-Dichloroethene	ND	10.0	8.86	89	10.0	8.40	84	5	75-124	20
Trichloroethene	6.77	10.0	15.0	82	10.0	15.1	83	1	79-123	20
Vinyl chloride	ND	10.0	6.58	66	10.0	7.06	71	7	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	MSResult (ug/L)	MSRec (%)	SpikeAmt (ug/L)	MSDResult (ug/L)	MSDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	11.3	113	10.0	11.4	114	81-118
4-Bromofluorobenzene	10.0	9.72	97	10.0	9.68	97	85-114
Toluene-d8	10.0	9.07	91	10.0	9.43	94	89-112
Dibromofluoromethane	10.0	8.84	88	10.0	9.11	91	80-119

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate

QC DATA

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J24\RIW482.D Vial: 25
Acq On : 24 Oct 2024 8:50 pm Operator: PMai
Sample : VO06J22B Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:39 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

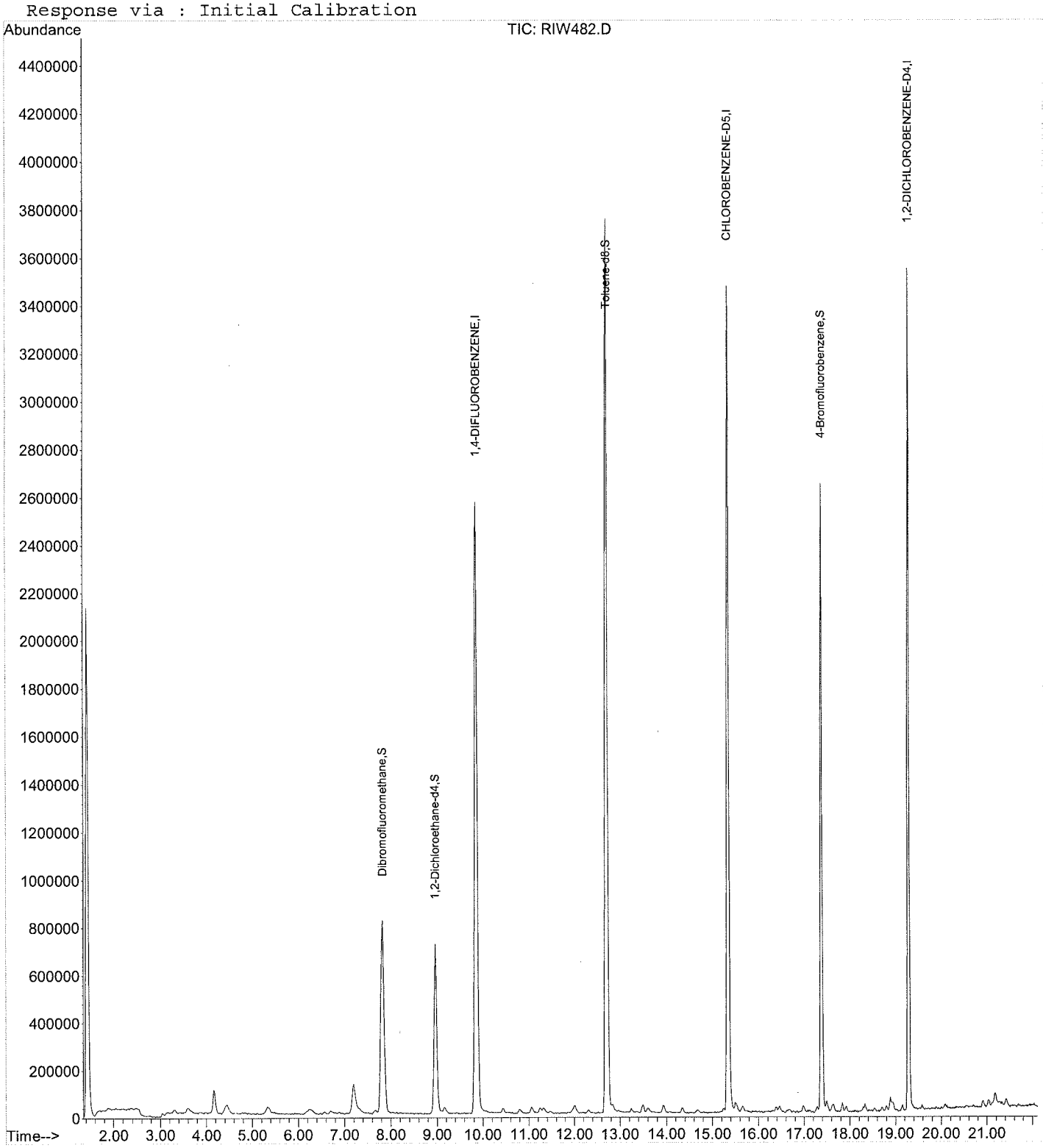
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.86	114	4883802	10.00	ug/l	0.02
54) CHLOROBENZENE-D5	15.34	117	3636236	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.29	152	1413530	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.83	111	1307937	10.93	ug/l	0.02
Spiked Amount 10.000			Recovery = 109.30%			
42) 1,2-Dichloroethane-d4	8.96	65	948616	11.45	ug/l	0.00
Spiked Amount 10.000			Recovery = 114.50%			
55) Toluene-d8	12.72	98	5072974	10.09	ug/l	0.02
Spiked Amount 10.000			Recovery = 100.90%			
77) 4-Bromofluorobenzene	17.38	95	1621274	10.27	ug/l	0.00
Spiked Amount 10.000			Recovery = 102.70%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW482.D Vial: 25
Acq On : 24 Oct 2024 8:50 pm Operator: PMai
Sample : VO06J22B Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:39 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J24\RIW479.D Vial: 22
Acq On : 24 Oct 2024 7:32 pm Operator: PMai
Sample : VO06J22L Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:40 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.86	114	4960038	10.00	ug/l	0.02
54) CHLOROBENZENE-D5	15.35	117	3648999	10.00	ug/l	0.01
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1334272	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.83	111	1322904	10.89	ug/l	0.02
Spiked Amount 10.000			Recovery = 108.90%			
42) 1,2-Dichloroethane-d4	8.96	65	969185	11.52	ug/l	0.00
Spiked Amount 10.000			Recovery = 115.20%			
55) Toluene-d8	12.71	98	5111796	10.14	ug/l	0.02
Spiked Amount 10.000			Recovery = 101.40%			
77) 4-Bromofluorobenzene	17.38	95	1590444	10.68	ug/l	0.00
Spiked Amount 10.000			Recovery = 106.80%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	1696445	9.62	ug/l	99
3) Chloromethane	1.80	50	1760133	10.27	ug/l	99
4) Vinyl chloride	1.91	62	1400207	10.18	ug/l	98
5) Bromomethane	2.35	94	1162992	9.30	ug/l	99
6) Chloroethane	2.43	64	967978	10.22	ug/l	97
7) Dichlorofluoromethane	2.47	67	2315321	9.98	ug/l	98
8) Trichlorofluoromethane	2.70	101	1875723	10.19	ug/l	99
9) Acrolein	3.21	56	238285	46.41	ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	994165	9.42	ug/l	100
11) Acetone	3.30	43	816892	53.22	ug/l	96
12) 1,1-Dichloroethene	3.45	61	2232525	9.94	ug/l	98
13) tert-Butyl alcohol	3.59	59	946363	223.05	ug/l	98
15) Methyl acetate	3.99	74	93168	8.93	ug/l	95
16) Iodomethane	3.89	142	2199449	9.56	ug/l	97
17) Allyl chloride	4.01	76	892612	9.93	ug/l	98
18) Methylene chloride	4.18	49	1828477	11.10	ug/l	99
19) Carbon disulfide	4.14	76	2545253	9.05	ug/l	99
20) Acrylonitrile	4.41	53	1121950	54.79	ug/l	99
21) tert-Butyl methyl ether (M	4.45	73	2544324	10.63	ug/l	98
22) trans-1,2-Dichloroethene	4.68	96	1610152	9.58	ug/l	99
23) Isopropyl ether (DIPE)	5.33	45	5038688	11.35	ug/l	98
24) Vinyl acetate	5.58	43	1622568	10.53	ug/l	99
25) 1,1-Dichloroethane	5.50	63	2633749	10.53	ug/l	99
26) 2-Butanol	6.07	45	835600	196.40	ug/l	92
27) tert-Butyl ethyl ether (ET	6.23	59	3563114	10.86	ug/l	98
28) 2-Butanone	6.53	43	1435134	55.45	ug/l	98
29) 2,2-Dichloropropane	6.78	77	1730508	11.55	ug/l	99
30) cis-1,2-Dichloroethene	6.91	96	1657678	10.22	ug/l	99
31) Chloroform	7.30	83	2540144	10.17	ug/l	99
32) Bromochloromethane	7.68	130	694388	10.05	ug/l	99
33) Tetrahydrofuran	7.79	42	127693	8.61	ug/l	97
36) 1,1,1-Trichloroethane	8.23	97	2075820	10.42	ug/l	98
37) Cyclohexane	8.21	84	2374000	9.54	ug/l	100
39) 1,1-Dichloropropene	8.60	110	686088	9.35	ug/l	99
40) Carbon tetrachloride	8.77	119	1701155	10.47	ug/l	100
41) tert-Amyl methyl ether (TA	8.94	73	2913086	10.49	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J24\RIW479.D Vial: 22
Acq On : 24 Oct 2024 7:32 pm Operator: PMai
Sample : VO06J22L Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:40 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.17	62	1150636	11.38	ug/l	99
44)	Benzene	9.15	78	5970177	10.39	ug/l	99
45)	Trichloroethene	10.45	130	1516791	9.99	ug/l	98
46)	Methylcyclohexane	10.53	83	2890071	9.33	ug/l	98
47)	1,2-Dichloropropane	10.81	63	1307783	10.46	ug/l	99
48)	1,4-Dioxane	11.35	88	72169	159.05	ug/l	92
49)	Bromodichloromethane	11.25	83	1717940	10.62	ug/l	97
50)	Dibromomethane	11.33	93	602372	9.96	ug/l	97
51)	2-Chloroethyl vinyl ether	11.96	63	368357	9.00	ug/l	96
52)	4-Methyl-2-pentanone	12.00	43	3990989	57.82	ug/l	98
53)	cis-1,3-Dichloropropene	12.32	75	2051179	10.58	ug/l	97
56)	Toluene	12.86	91	6054109	10.00	ug/l	100
57)	Ethyl methacrylate	13.30	69	1023446	10.42	ug/l	99
58)	trans-1,3-Dichloropropene	13.24	75	1528937	10.74	ug/l	98
59)	1,1,2-Trichloroethane	13.49	97	786851	10.33	ug/l	95
60)	2-Hexanone	13.57	43	2404658	55.73	ug/l	99
61)	1,3-Dichloropropane	13.93	76	1450593	10.69	ug/l	99
62)	Tetrachloroethene	13.99	164	1227760	9.55	ug/l	98
63)	Dibromochloromethane	14.35	129	961151	10.21	ug/l	99
65)	1,2-Dibromoethane	14.69	107	718354	10.33	ug/l	98
66)	1-Chlorohexane	15.04	91	2540925	10.30	ug/l	89
67)	Chlorobenzene	15.42	112	3429327	10.36	ug/l	100
68)	1,1,1,2-Tetrachloroethane	15.51	131	1178342	10.54	ug/l	99
69)	Ethylbenzene	15.52	91	6568232	10.05	ug/l	99
70)	m-Xylene & p-Xylene	15.65	91	9861222	20.16	ug/l	98
71)	o-Xylene	16.38	91	4910576	9.96	ug/l	97
72)	Styrene	16.44	104	3643969	10.34	ug/l	98
73)	Isopropylbenzene	16.99	105	6247074	9.77	ug/l	99
75)	Bromoform	16.99	173	410537	9.86	ug/l	99
76)	1,1,2,2-Tetrachloroethane	17.29	83	809041	11.15	ug/l	96
78)	1,2,3-Trichloropropane	17.51	110	197775	10.65	ug/l	95
79)	trans-1,4-Dichloro-2-buten	17.61	53	177090	10.29	ug/l	95
80)	n-Propylbenzene	17.61	91	7804955	10.49	ug/l	99
81)	Bromobenzene	17.65	156	1222716	10.29	ug/l	98
82)	1,3,5-Trimethylbenzene	17.83	105	4836712	10.43	ug/l	99
83)	2-Chlorotoluene	17.83	91	4736213	10.55	ug/l	94
84)	4-Chlorotoluene	17.91	91	4290077	11.13	ug/l	97
85)	tert-Butylbenzene	18.28	134	1085009	10.51	ug/l	97
86)	1,2,4-Trimethylbenzene	18.32	105	4684017	10.32	ug/l	99
87)	sec-Butylbenzene	18.54	105	6503088	10.07	ug/l	99
88)	p-Isopropyltoluene	18.70	119	5215769	10.21	ug/l	99
89)	1,3-Dichlorobenzene	18.80	146	2448597	10.59	ug/l	98
90)	1,2,3-Trimethylbenzene	18.88	105	4144797	10.34	ug/l	99
91)	1,4-Dichlorobenzene	18.92	146	2365648	10.60	ug/l	97
92)	n-Butylbenzene	19.15	91	4890407	9.73	ug/l	99
93)	1,2-Dichlorobenzene	19.31	146	1951514	10.35	ug/l	98
94)	1,2-Dibromo-3-chloropropan	20.09	157	99096	8.74	ug/l	96
95)	1,2,4-Trichlorobenzene	20.91	180	963497	8.81	ug/l	99
96)	Hexachlorobutadiene	21.04	225	585592	8.94	ug/l	95
97)	Naphthalene	21.18	128	1358581	8.86	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J24\RIW479.D Vial: 22
Acq On : 24 Oct 2024 7:32 pm Operator: PMai
Sample : VO06J22L Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:40 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

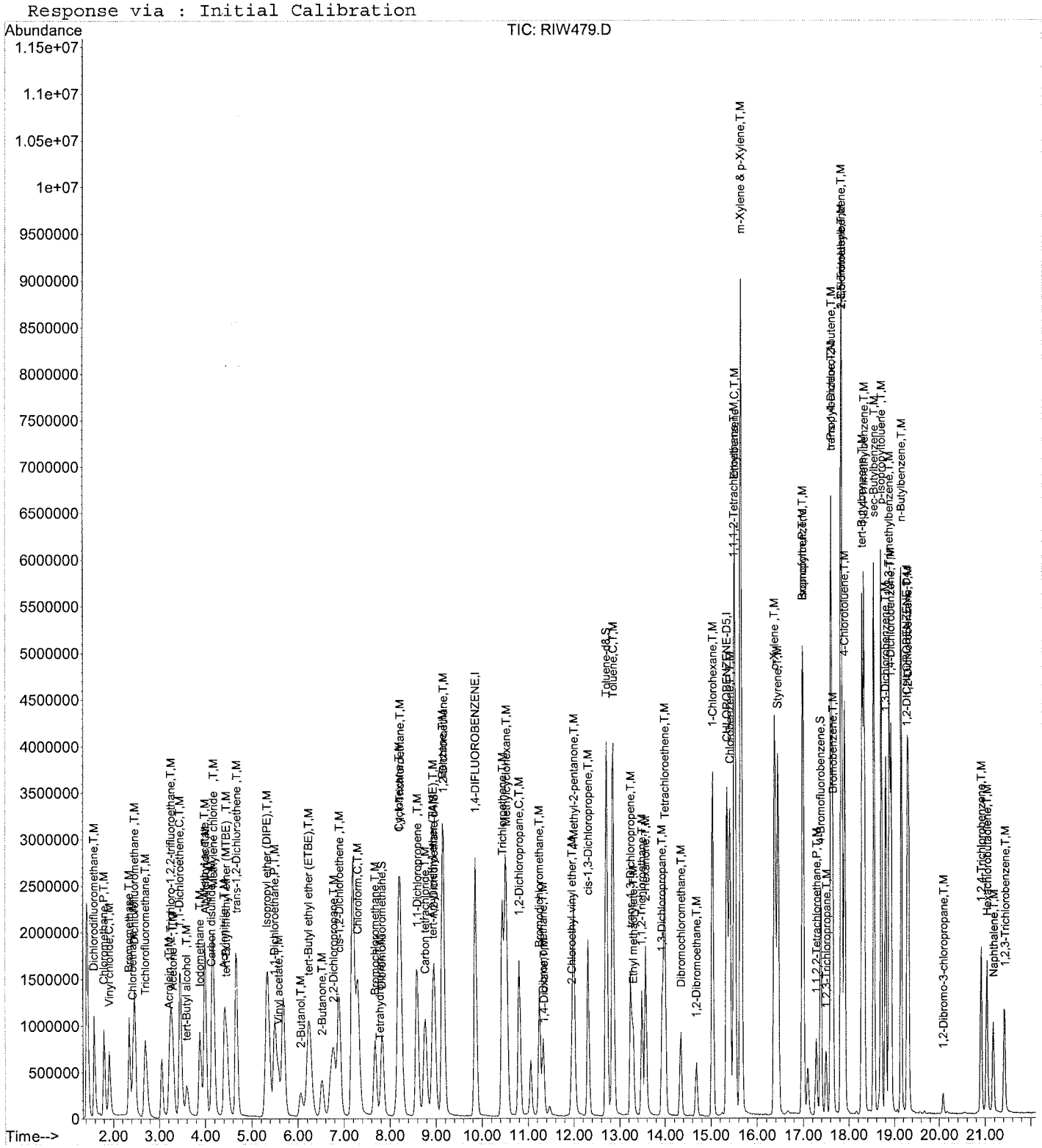
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	1,2,3-Trichlorobenzene	21.43	180	678141	8.23	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW479.D Vial: 22
Acq On : 24 Oct 2024 7:32 pm Operator: PMai
Sample : VO06J22L Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:40 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J24\RIW480.D Vial: 23
Acq On : 24 Oct 2024 7:58 pm Operator: PMai
Sample : VO06J22C Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:40 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.86	114	4975114	10.00	ug/l	0.02
54) CHLOROBENZENE-D5	15.35	117	3612611	10.00	ug/l	0.01
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1343590	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.83	111	1317424	10.81	ug/l	0.02
Spiked Amount 10.000			Recovery = 108.10%			
42) 1,2-Dichloroethane-d4	8.96	65	914890	10.84	ug/l	0.00
Spiked Amount 10.000			Recovery = 108.40%			
55) Toluene-d8	12.72	98	5199472	10.41	ug/l	0.02
Spiked Amount 10.000			Recovery = 104.10%			
77) 4-Bromofluorobenzene	17.38	95	1610306	10.73	ug/l	0.00
Spiked Amount 10.000			Recovery = 107.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	1457480	8.24	ug/l	100
3) Chloromethane	1.80	50	1548843	9.01	ug/l	100
4) Vinyl chloride	1.91	62	1167713	8.47	ug/l	100
5) Bromomethane	2.35	94	1020108	8.13	ug/l	97
6) Chloroethane	2.43	64	811247	8.54	ug/l	98
7) Dichlorofluoromethane	2.47	67	2211542	9.50	ug/l	99
8) Trichlorofluoromethane	2.70	101	1650220	8.93	ug/l	98
9) Acrolein	3.22	56	236483	45.92	ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	950954	8.98	ug/l	98
11) Acetone	3.30	43	801788	52.07	ug/l	97
12) 1,1-Dichloroethene	3.45	61	2174071	9.65	ug/l	98
13) tert-Butyl alcohol	3.59	59	1044586	245.45	ug/l	100
15) Methyl acetate	3.97	74	90478	8.65	ug/l	85
16) Iodomethane	3.89	142	2129621	9.23	ug/l	96
17) Allyl chloride	3.99	76	867524	9.62	ug/l	98
18) Methylene chloride	4.18	49	1721738	10.42	ug/l	98
19) Carbon disulfide	4.14	76	2674395	9.48	ug/l	99
20) Acrylonitrile	4.41	53	1071052	52.14	ug/l	99
21) tert-Butyl methyl ether (M	4.45	73	2360156	9.83	ug/l	100
22) trans-1,2-Dichloroethene	4.66	96	1520854	9.02	ug/l	99
23) Isopropyl ether (DIPE)	5.33	45	4734135	10.63	ug/l	98
24) Vinyl acetate	5.56	43	1391195	9.00	ug/l	100
25) 1,1-Dichloroethane	5.50	63	2483731	9.90	ug/l	100
26) 2-Butanol	6.05	45	909682	213.17	ug/l	95
27) tert-Butyl ethyl ether (ET	6.24	59	3273431	9.95	ug/l	99
28) 2-Butanone	6.51	43	1370702	52.80	ug/l	98
29) 2,2-Dichloropropane	6.76	77	1690216	11.25	ug/l	98
30) cis-1,2-Dichloroethene	6.89	96	1584792	9.74	ug/l	98
31) Chloroform	7.28	83	2407824	9.61	ug/l	99
32) Bromochloromethane	7.68	130	660496	9.53	ug/l	99
33) Tetrahydrofuran	7.79	42	122522	8.24	ug/l	94
36) 1,1,1-Trichloroethane	8.23	97	2029045	10.15	ug/l	99
37) Cyclohexane	8.21	84	2422060	9.70	ug/l	100
39) 1,1-Dichloropropene	8.58	110	667280	9.06	ug/l	99
40) Carbon tetrachloride	8.77	119	1681360	10.32	ug/l	99
41) tert-Amyl methyl ether (TA	8.94	73	2735284	9.82	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J24\RIW480.D Vial: 23
Acq On : 24 Oct 2024 7:58 pm Operator: PMai
Sample : VO06J22C Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:40 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.17	62	1060871	10.46	ug/l	99
44)	Benzene	9.15	78	5730450	9.94	ug/l	99
45)	Trichloroethene	10.45	130	1495035	9.82	ug/l	98
46)	Methylcyclohexane	10.51	83	2910291	9.37	ug/l	97
47)	1,2-Dichloropropane	10.81	63	1280671	10.21	ug/l	100
48)	1,4-Dioxane	11.35	88	74205	163.04	ug/l	92
49)	Bromodichloromethane	11.25	83	1632356	10.06	ug/l	98
50)	Dibromomethane	11.33	93	557358	9.19	ug/l	99
51)	2-Chloroethyl vinyl ether	11.94	63	349206	8.50	ug/l	97
52)	4-Methyl-2-pentanone	12.00	43	3737058	53.98	ug/l	99
53)	cis-1,3-Dichloropropene	12.32	75	1975274	10.16	ug/l	97
56)	Toluene	12.84	91	5958527	9.94	ug/l	100
57)	Ethyl methacrylate	13.28	69	955382	9.82	ug/l	99
58)	trans-1,3-Dichloropropene	13.24	75	1439610	10.21	ug/l	97
59)	1,1,2-Trichloroethane	13.49	97	749880	9.95	ug/l	99
60)	2-Hexanone	13.58	43	2287032	53.54	ug/l	100
61)	1,3-Dichloropropane	13.93	76	1348528	10.04	ug/l	100
62)	Tetrachloroethene	14.00	164	1176498	9.24	ug/l	95
63)	Dibromochloromethane	14.35	129	903032	9.68	ug/l	100
65)	1,2-Dibromoethane	14.69	107	667206	9.69	ug/l	96
66)	1-Chlorohexane	15.04	91	2346382	9.60	ug/l	94
67)	Chlorobenzene	15.40	112	3373514	10.29	ug/l	99
68)	1,1,1,2-Tetrachloroethane	15.51	131	1129428	10.21	ug/l	99
69)	Ethylbenzene	15.52	91	6463792	9.99	ug/l	100
70)	m-Xylene & p-Xylene	15.65	91	9548270	19.71	ug/l	98
71)	o-Xylene	16.38	91	4749511	9.73	ug/l	98
72)	Styrene	16.44	104	3493496	10.01	ug/l	97
73)	Isopropylbenzene	16.99	105	6268537	9.91	ug/l	100
75)	Bromoform	16.99	173	386234	9.21	ug/l	99
76)	1,1,2,2-Tetrachloroethane	17.29	83	744721	10.19	ug/l	97
78)	1,2,3-Trichloropropane	17.51	110	188765	10.09	ug/l	96
79)	trans-1,4-Dichloro-2-buten	17.61	53	166111	9.59	ug/l	98
80)	n-Propylbenzene	17.61	91	7729769	10.31	ug/l	99
81)	Bromobenzene	17.65	156	1185495	9.91	ug/l	99
82)	1,3,5-Trimethylbenzene	17.83	105	4808776	10.29	ug/l	100
83)	2-Chlorotoluene	17.83	91	4652417	10.29	ug/l	94
84)	4-Chlorotoluene	17.91	91	4154545	10.71	ug/l	96
85)	tert-Butylbenzene	18.29	134	1113710	10.72	ug/l	100
86)	1,2,4-Trimethylbenzene	18.32	105	4709238	10.31	ug/l	99
87)	sec-Butylbenzene	18.54	105	6606531	10.16	ug/l	100
88)	p-Isopropyltoluene	18.70	119	5436473	10.57	ug/l	100
89)	1,3-Dichlorobenzene	18.80	146	2417299	10.38	ug/l	99
90)	1,2,3-Trimethylbenzene	18.88	105	4202839	10.41	ug/l	99
91)	1,4-Dichlorobenzene	18.92	146	2339069	10.41	ug/l	98
92)	n-Butylbenzene	19.14	91	5246907	10.36	ug/l	100
93)	1,2-Dichlorobenzene	19.31	146	1926940	10.15	ug/l	100
94)	1,2-Dibromo-3-chloropropan	20.09	157	93081	8.16	ug/l	96
95)	1,2,4-Trichlorobenzene	20.91	180	1036307	9.41	ug/l	99
96)	Hexachlorobutadiene	21.04	225	673144	10.26	ug/l	96
97)	Naphthalene	21.18	128	1398720	9.06	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J24\RIW480.D Vial: 23
Acq On : 24 Oct 2024 7:58 pm Operator: PMai
Sample : VO06J22C Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:40 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

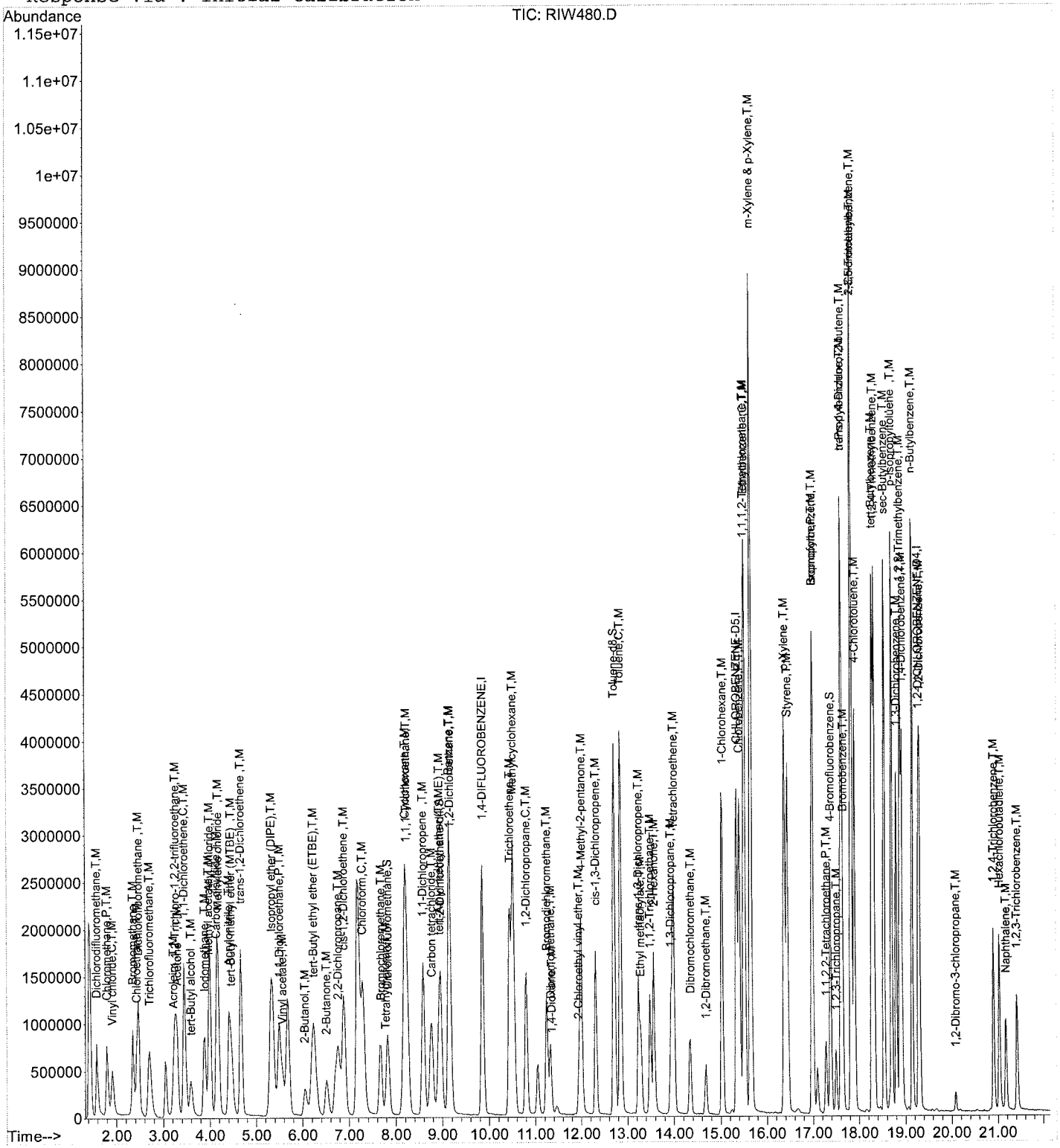
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	1,2,3-Trichlorobenzene	21.41	180	725941	8.75	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW480.D Vial: 23
Acq On : 24 Oct 2024 7:58 pm Operator: PMai
Sample : VO06J22C Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:40 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW497.D Vial: 6
Acq On : 26 Oct 2024 4:27 pm Operator: DNguye
Sample : VO06J23B Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 20 15:11 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.86	114	4008075	10.00	ug/l	0.02
54) CHLOROBENZENE-D5	15.34	117	3002579	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1031891	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.83	111	892945	9.10	ug/l	0.02
Spiked Amount 10.000			Recovery =	91.00%		
42) 1,2-Dichloroethane-d4	8.96	65	734328	10.80	ug/l	0.00
Spiked Amount 10.000			Recovery =	108.00%		
55) Toluene-d8	12.71	98	3820960	9.21	ug/l	0.02
Spiked Amount 10.000			Recovery =	92.10%		
77) 4-Bromofluorobenzene	17.38	95	1140036	9.90	ug/l	0.00
Spiked Amount 10.000			Recovery =	99.00%		

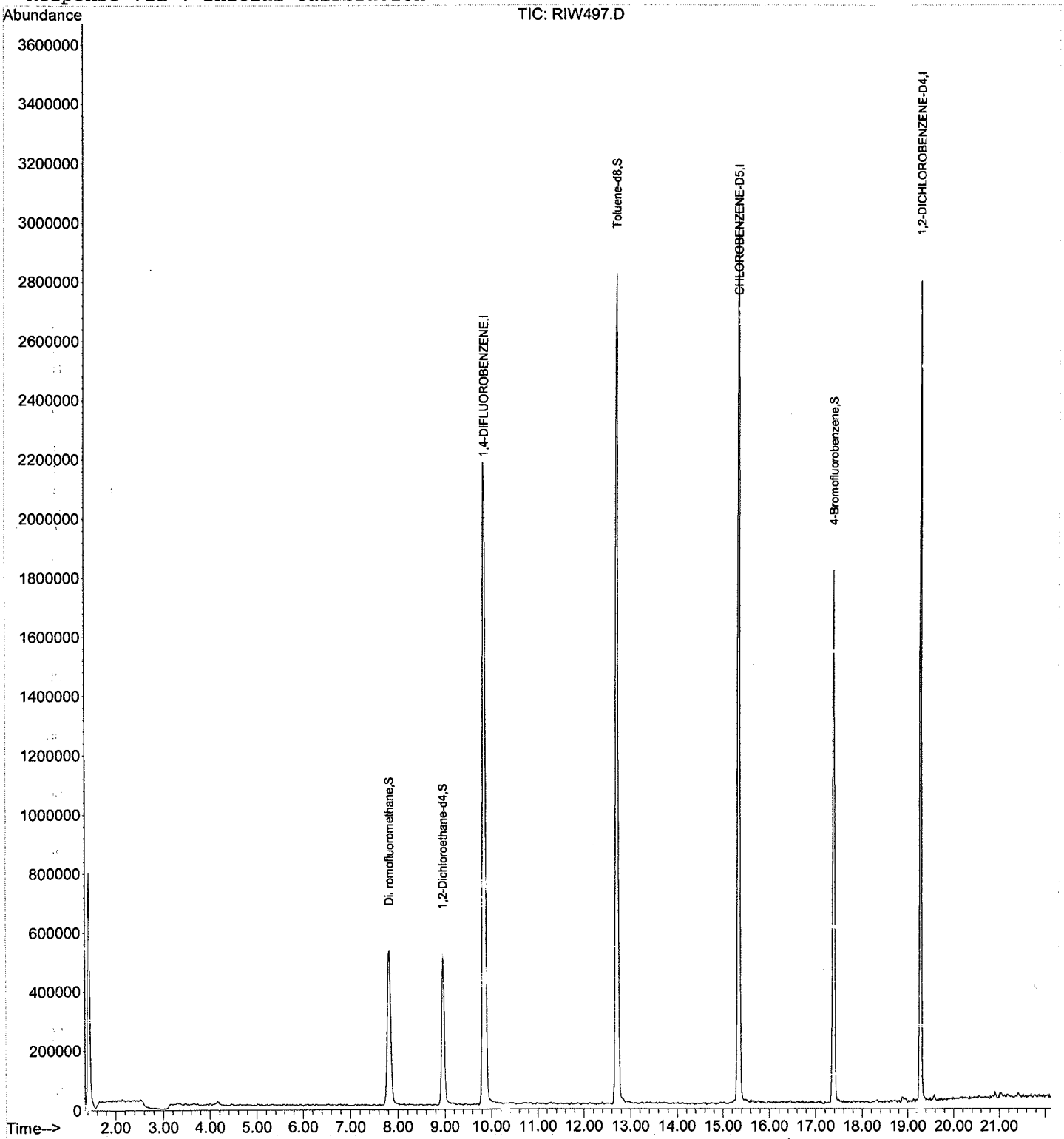
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW497.D Vial: 6
Acq On : 26 Oct 2024 4:27 pm Operator: DNguye
Sample : VO06J23B Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 20 15:11 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW494.D Vial: 3
Acq On : 26 Oct 2024 3:08 pm Operator: DNguye
Sample : VO06J23L Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 20 15:12 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.86	114	3344582	10.00	ug/l	0.02
54) CHLOROBENZENE-D5	15.34	117	2227804	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	801767	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.83	111	771134	9.41	ug/l	0.02
Spiked Amount 10.000			Recovery = 94.10%			
42) 1,2-Dichloroethane-d4	8.96	65	617286	10.88	ug/l	0.00
Spiked Amount 10.000			Recovery = 108.80%			
55) Toluene-d8	12.71	98	3062446	9.95	ug/l	0.02
Spiked Amount 10.000			Recovery = 99.50%			
77) 4-Bromofluorobenzene	17.38	95	781230	8.73	ug/l	0.00
Spiked Amount 10.000			Recovery = 87.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	1001052	8.42	ug/l	96
3) Chloromethane	1.80	50	1081474	9.35	ug/l	97
4) Vinyl chloride	1.92	62	876484	9.45	ug/l	96
5) Bromomethane	2.35	94	705548	8.37	ug/l	97
6) Chloroethane	2.41	64	580138	9.09	ug/l	95
7) Dichlorofluoromethane	2.47	67	1925847	12.31	ug/l	98
8) Trichlorofluoromethane	2.69	101	1095164	8.82	ug/l	96
9) Acrolein	3.22	56	181397	52.39	ug/l	92
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	677909	9.52	ug/l	100
11) Acetone	3.30	43	681533	65.84	ug/l	92
12) 1,1-Dichloroethene	3.45	61	1896912	12.53	ug/l	92
13) tert-Butyl alcohol	3.59	59	1016875	355.42	ug/l	100
15) Methyl acetate	3.97	74	58437	8.31	ug/l	88
16) Iodomethane	3.86	142	1532524	9.87	ug/l	90
17) Allyl chloride	3.99	76	636509	10.50	ug/l	100
18) Methylene chloride	4.16	49	1521759	13.70	ug/l	84
19) Carbon disulfide	4.14	76	1874258	9.89	ug/l	98
20) Acrylonitrile	4.39	53	861283	62.37	ug/l	98
21) tert-Butyl methyl ether (M	4.45	73	1878394	11.64	ug/l	97
22) trans-1,2-Dichloroethene	4.66	96	1210665	10.68	ug/l	98
23) Isopropyl ether (DIPE)	5.33	45	4064624	13.58	ug/l	88
24) Vinyl acetate	5.56	43	987145	9.50	ug/l	95
25) 1,1-Dichloroethane	5.48	63	2002240	11.88	ug/l	97
26) 2-Butanol	6.04	45	896810	312.60	ug/l	91
27) tert-Butyl ethyl ether (ET	6.23	59	2706501	12.23	ug/l	89
28) 2-Butanone	6.51	43	1032438	59.15	ug/l	89
29) 2,2-Dichloropropane	6.76	77	1503483	14.88	ug/l	96
30) cis-1,2-Dichloroethene	6.88	96	1145539	10.47	ug/l	97
31) Chloroform	7.28	83	1746392	10.37	ug/l	98
32) Bromochloromethane	7.66	130	450778	9.67	ug/l	99
33) Tetrahydrofuran	7.78	42	104061	10.41	ug/l	87
36) 1,1,1-Trichloroethane	8.22	97	1599374	11.90	ug/l	97
37) Cyclohexane	8.20	84	1765165	10.52	ug/l	99
39) 1,1-Dichloropropene	8.58	110	454313	9.18	ug/l	98
40) Carbon tetrachloride	8.75	119	1240905	11.33	ug/l	98
41) tert-Amyl methyl ether (TA	8.94	73	2100250	11.21	ug/l	97

(#) = qualifier out of range (m) = manual integration
RIW494.D VO06J19.M Wed Nov 20 15:12:53 2024 Page 1

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW494.D Vial: 3
Acq On : 26 Oct 2024 3:08 pm Operator: DNguye
Sample : VO06J23L Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 20 15:12 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.17	62	829879	12.17	ug/l	97
44)	Benzene	9.15	78	4198711	10.83	ug/l	98
45)	Trichloroethene	10.42	130	984756	9.62	ug/l	95
46)	Methylcyclohexane	10.51	83	2127760	10.19	ug/l	90
47)	1,2-Dichloropropane	10.80	63	892992	10.59	ug/l	97
48)	1,4-Dioxane	11.35	88	57055	186.47	ug/l	94
49)	Bromodichloromethane	11.24	83	1119084	10.26	ug/l	96
50)	Dibromomethane	11.31	93	405586	9.95	ug/l	91
51)	2-Chloroethyl vinyl ether	11.93	63	209544	7.59	ug/l	100
52)	4-Methyl-2-pentanone	12.00	43	3010345	64.68	ug/l	93
53)	cis-1,3-Dichloropropene	12.31	75	1294235	9.90	ug/l	8[illegible]
56)	Toluene	12.84	91	4038711	10.92	ug/l	99
57)	Ethyl methacrylate	13.28	69	588451	9.81	ug/l	80
58)	trans-1,3-Dichloropropene	13.23	75	885271	10.18	ug/l	76
59)	1,1,2-Trichloroethane	13.48	97	461630	9.93	ug/l	99
60)	2-Hexanone	13.57	43	1636136	62.11	ug/l	93
61)	1,3-Dichloropropane	13.93	76	847292	10.23	ug/l	96
62)	Tetrachloroethene	13.99	164	715024	9.11	ug/l	97
63)	Dibromochloromethane	14.34	129	527588	9.18	ug/l	100
65)	1,2-Dibromoethane	14.68	107	403429	9.50	ug/l	93
66)	1-Chlorohexane	15.04	91	1509286	10.02	ug/l	95
67)	Chlorobenzene	15.40	112	2096821	10.38	ug/l	97
68)	1,1,1,2-Tetrachloroethane	15.49	131	737807	10.81	ug/l	99
69)	Ethylbenzene	15.52	91	4247125	10.65	ug/l	98
70)	m-Xylene & p-Xylene	15.65	91	6227610	20.85	ug/l	97
71)	o-Xylene	16.36	91	3319649	11.03	ug/l	98
72)	Styrene	16.44	104	2134749	9.92	ug/l	97
73)	Isopropylbenzene	16.99	105	4515128	11.57	ug/l	98
75)	Bromoform	16.97	173	210091	8.39	ug/l	97
76)	1,1,2,2-Tetrachloroethane	17.27	83	514843	11.81	ug/l	96
78)	1,2,3-Trichloropropane	17.49	110	106986	9.59	ug/l	98
79)	trans-1,4-Dichloro-2-buten	17.61	53	112098	10.84	ug/l	86
80)	n-Propylbenzene	17.60	91	5264397	11.77	ug/l	97
81)	Bromobenzene	17.64	156	635354	8.90	ug/l	98
82)	1,3,5-Trimethylbenzene	17.82	105	3438500	12.33	ug/l	96
83)	2-Chlorotoluene	17.83	91	3290883	12.20	ug/l	89
84)	4-Chlorotoluene	17.89	91	2448296	10.57	ug/l	99
85)	tert-Butylbenzene	18.28	134	711205	11.47	ug/l	93
86)	1,2,4-Trimethylbenzene	18.32	105	3333088	12.23	ug/l	95
87)	sec-Butylbenzene	18.53	105	4954334	12.76	ug/l	95
88)	p-Isopropyltoluene	18.70	119	3678004	11.98	ug/l	97
89)	1,3-Dichlorobenzene	18.79	146	1329409	9.57	ug/l	96
90)	1,2,3-Trimethylbenzene	18.88	105	3009674	12.49	ug/l	96
91)	1,4-Dichlorobenzene	18.92	146	1265451	9.44	ug/l	96
92)	n-Butylbenzene	19.14	91	3707051	12.27	ug/l	98
93)	1,2-Dichlorobenzene	19.31	146	1172651	10.35	ug/l	98
94)	1,2-Dibromo-3-chloropropan	20.07	157	60141	8.83	ug/l	94
95)	1,2,4-Trichlorobenzene	20.90	180	770105	11.72	ug/l	98
96)	Hexachlorobutadiene	21.03	225	460140	11.84	ug/l	99
97)	Naphthalene	21.16	128	1145925	12.44	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW494.D Vial: 3
Acq On : 26 Oct 2024 3:08 pm Operator: DNguye
Sample : VO06J23L Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 20 15:12 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

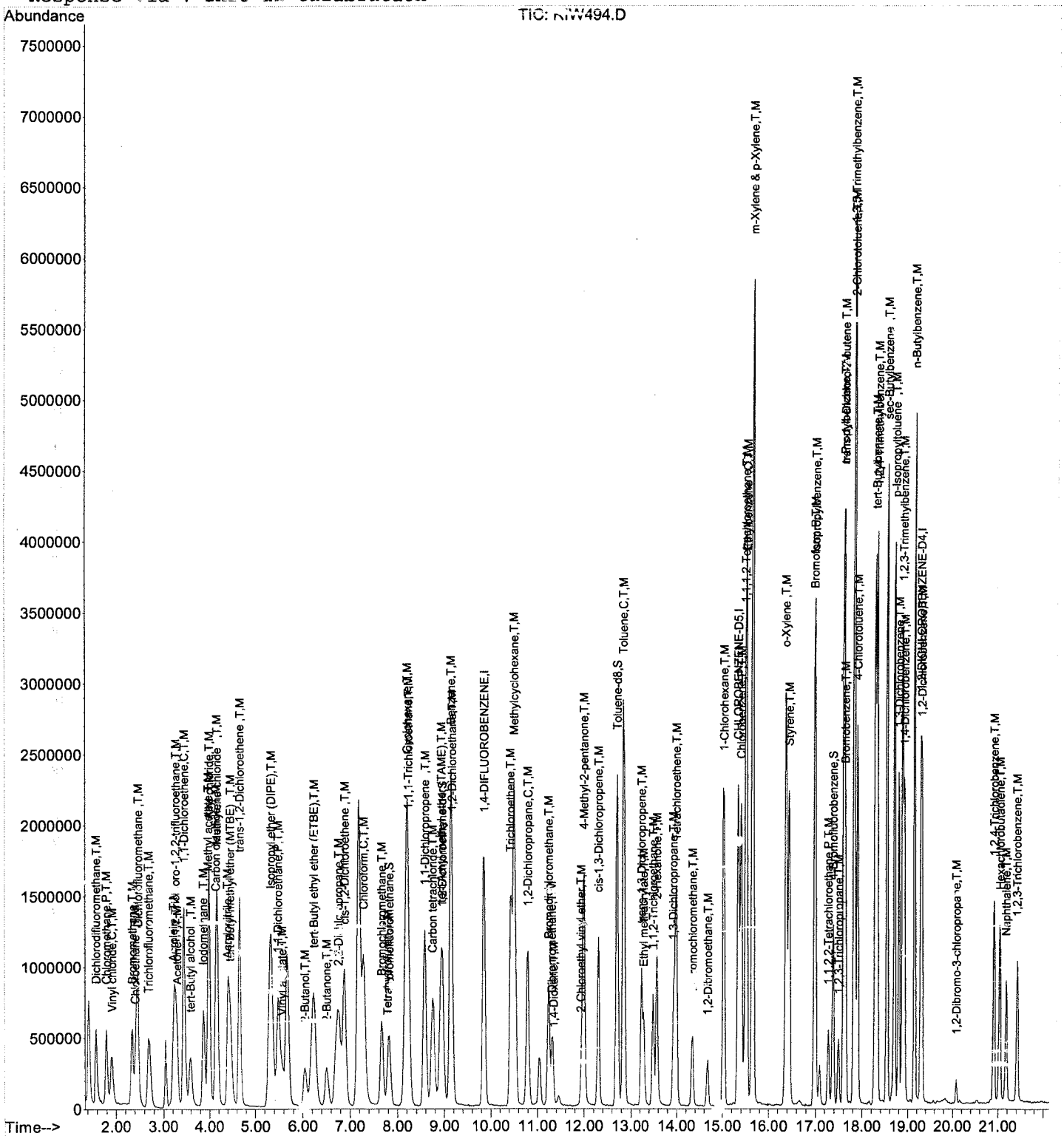
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	1,2,3-Trichlorobenzene	21.41	180	557650	11.26	ug/l	99

(#) = qualifier out of range (m) = manual integration
RIW494.D VO06J19.M Wed Nov 20 15:12:54 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW494.D Vial: 3
Acq On : 26 Oct 2024 3:08 pm Operator: DNguye
Sample : VO06J23L Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 20 15:12 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW495.D Vial: 4
Acq On : 26 Oct 2024 3:34 pm Operator: DNguye
Sample : VO06J23C Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 20 15:14 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4306769	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	3156215	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1021343	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	892151	8.46	ug/l	0.00
Spiked Amount 10.000			Recovery = 84.60%			
42) 1,2-Dichloroethane-d4	8.96	65	698414	9.56	ug/l	0.00
Spiked Amount 10.000			Recovery = 95.60%			
55) Toluene-d8	12.71	98	4063101	9.31	ug/l	0.02
Spiked Amount 10.000			Recovery = 93.10%			
77) 4-Bromofluorobenzene	17.33	95	1144702	10.04	ug/l	0.00
Spiked Amount 10.000			Recovery = 100.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.59	85	1109290	7.24	ug/l	95
3) Chloromethane	1.80	50	1235950	8.30	ug/l	96
4) Vinyl chloride	1.90	62	912255	7.64	ug/l	97
5) Bromomethane	2.36	94	686098	6.32	ug/l	99
6) Chloroethane	2.43	64	567159	6.90	ug/l	95
7) Dichlorofluoromethane	2.47	67	1941325	9.64	ug/l	99
8) Trichlorofluoromethane	2.69	101	1192213	7.46	ug/l	97
9) Acrolein	3.22	56	162092	36.36	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	698168	7.62	ug/l	99
11) Acetone	3.30	43	557197	41.80	ug/l	93
12) 1,1-Dichloroethene	3.45	61	1965740	10.08	ug/l	93
13) tert-Butyl alcohol	3.59	59	716231	194.41	ug/l	98
15) Methyl acetate	3.97	74	66650	7.36	ug/l	87
16) Iodomethane	3.87	142	1612036	8.07	ug/l	95
17) Allyl chloride	3.99	76	703794	9.02	ug/l	98
18) Methylene chloride	4.16	49	1600484	11.19	ug/l	84
19) Carbon disulfide	4.14	76	1639773	6.72	ug/l	98
20) Acrylonitrile	4.39	53	816459	45.92	ug/l	97
21) tert-Butyl methyl ether (M	4.43	73	1903163	9.16	ug/l	98
22) trans-1,2-Dichloroethene	4.66	96	1330199	9.11	ug/l	98
23) Isopropyl ether (DIPE)	5.33	45	4704056	12.20	ug/l	88
24) Vinyl acetate	5.56	43	1174060	8.78	ug/l	95
25) 1,1-Dichloroethane	5.48	63	2349509	10.92	ug/l	97
26) 2-Butanol	6.04	45	864467	234.01	ug/l	91
27) tert-Butyl ethyl ether (ET	6.21	59	3013504	10.58	ug/l	89
28) 2-Butanone	6.51	43	1049093	46.68	ug/l	91
29) 2,2-Dichloropropane	6.76	77	1422609	10.93	ug/l	97
30) cis-1,2-Dichloroethene	6.88	96	1323068	9.39	ug/l	98
31) Chloroform	7.28	83	2077575	9.58	ug/l	95
32) Bromochloromethane	7.66	130	491907	8.20	ug/l	99
33) Tetrahydrofuran	7.76	42	92338	7.17	ug/l	89
36) 1,1,1-Trichloroethane	8.20	97	1779422	10.29	ug/l	95
37) Cyclohexane	8.18	84	2292618	10.61	ug/l	99
39) 1,1-Dichloropropene	8.58	110	568605	8.92	ug/l	99
40) Carbon tetrachloride	8.75	119	1391945	9.87	ug/l	98
41) tert-Amyl methyl ether (TA	8.94	73	2273179	9.42	ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW495.D Vial: 4
Acq On : 26 Oct 2024 3:34 pm Operator: DNguye
Sample : VO06J23C Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 20 15:14 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.17	62	972723	11.08	ug/l	98
44)	Benzene	9.15	78	5205250	10.43	ug/l	97
45)	Trichloroethene	10.43	130	1220255	9.26	ug/l	95
46)	Methylcyclohexane	10.51	83	2848899	10.59	ug/l	90
47)	1,2-Dichloropropane	10.78	63	1157975	10.66	ug/l	97
48)	1,4-Dioxane	11.35	88	53775	136.49	ug/l	89
49)	Bromodichloromethane	11.24	83	1344102	9.57	ug/l	100
50)	Dibromomethane	11.31	93	471428	8.98	ug/l	91
51)	2-Chloroethyl vinyl ether	11.93	63	297096	8.36	ug/l	96
52)	4-Methyl-2-pentanone	11.98	43	3327034	55.52	ug/l	92
53)	cis-1,3-Dichloropropene	12.31	75	1739258	10.34	ug/l	89
56)	Toluene	12.84	91	5406729	10.32	ug/l	100
57)	Ethyl methacrylate	13.28	69	822472	9.68	ug/l	83
58)	trans-1,3-Dichloropropene	13.23	75	1233156	10.01	ug/l	78
59)	1,1,2-Trichloroethane	13.49	97	592240	8.99	ug/l	98
60)	2-Hexanone	13.57	43	2013189	53.94	ug/l	94
61)	1,3-Dichloropropane	13.93	76	1160341	9.89	ug/l	96
62)	Tetrachloroethene	13.99	164	955091	8.59	ug/l	97
63)	Dibromochloromethane	14.34	129	675124	8.29	ug/l	98
65)	1,2-Dibromoethane	14.68	107	543755	9.04	ug/l	97
66)	1-Chlorohexane	15.04	91	2132499	9.99	ug/l	98
67)	Chlorobenzene	15.40	112	2913049	10.17	ug/l	98
68)	1,1,1,2-Tetrachloroethane	15.50	131	901222	9.32	ug/l	97
69)	Ethylbenzene	15.51	91	5753768	10.18	ug/l	100
70)	m-Xylene & p-Xylene	15.64	91	8605123	20.33	ug/l	98
71)	o-Xylene	16.36	91	4272073	10.02	ug/l	97
72)	Styrene	16.44	104	3125923	10.26	ug/l	99
73)	Isopropylbenzene	16.97	105	5566947	10.07	ug/l	98
75)	Bromoform	16.97	173	268360	8.42	ug/l	98
76)	1,1,2,2-Tetrachloroethane	17.27	83	627240	11.29	ug/l	94
78)	1,2,3-Trichloropropane	17.49	110	139790	9.83	ug/l	94
79)	trans-1,4-Dichloro-2-buten	17.61	53	154145	11.71	ug/l	82
80)	n-Propylbenzene	17.60	91	7027654	12.34	ug/l	97
81)	Bromobenzene	17.64	156	913042	10.04	ug/l	99
82)	1,3,5-Trimethylbenzene	17.82	105	4325522	12.18	ug/l	96
83)	2-Chlorotoluene	17.83	91	4385169	12.76	ug/l	90
84)	4-Chlorotoluene	17.90	91	343^331	11.63	ug/l	100
85)	tert-Butylbenzene	18.28	134	877337	11.10	ug/l	91
86)	1,2,4-Trimethylbenzene	18.32	105	4209163	12.12	ug/l	97
87)	sec-Butylbenzene	18.53	105	5911317	11.96	ug/l	96
88)	p-Isopropyltoluene	18.70	119	4608982	11.78	ug/l	97
89)	1,3-Dichlorobenzene	18.79	146	1855375	10.48	ug/l	97
90)	1,2,3-Trimethylbenzene	18.87	105	3628079	11.82	ug/l	97
91)	1,4-Dichlorobenzene	18.92	146	1816995	10.64	ug/l	98
92)	n-Butylbenzene	19.14	91	4555001	11.83	ug/l	97
93)	1,2-Dichlorobenzene	19.31	146	1444455	10.01	ug/l	100
94)	1,2-Dibromo-3-chloropropan	20.08	157	61271	7.06	ug/l	88
95)	1,2,4-Trichlorobenzene	20.91	180	768831	9.18	ug/l	99
96)	Hexachlorobutadiene	21.04	225	509545	10.22	ug/l	97
97)	Naphthalene	21.17	128	1060156	9.04	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW495.D Vial: 4
Acq On : 26 Oct 2024 3:34 pm Operator: DNguye
Sample : VO06J23C Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 20 15:14 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

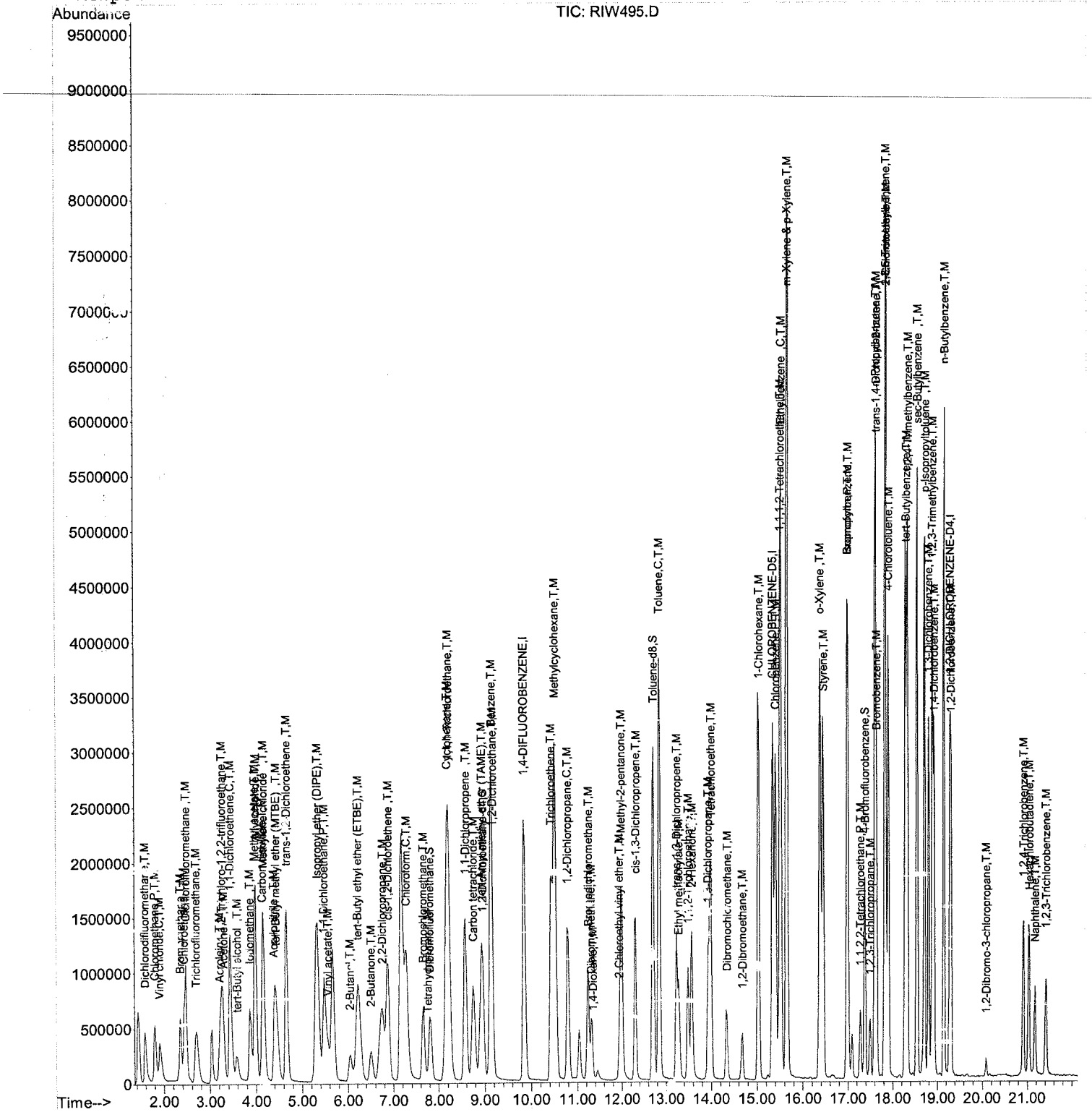
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	514033	8.15	ug/l	97

(#) = qualifier out of range (m) = manual integration
RIW495.D VO06J19.M Wed Nov 20 15:15:25 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW495.D Vial: 4
Acq On : 26 Oct 2024 3:34 pm Operator: DNguye
Sample : VO06J23C Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 20 15:14 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW497.D~~ RIW497A.D
Acq On : 28 Oct 2024 2:41 pm
Sample : VO06J24B
Misc : 25mL
MS Integration Params: RTE.P
Quant Time: Nov 18 10:30 2024

m 11/20/24

Vial: 6
Operator: PMai
Inst : 06
Multiplr: 1.00

Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.86	114	4152965	10.00	ug/l	0.02
54) CHLOROBENZENE-D5	15.35	117	3139713	10.00	ug/l	0.01
74) 1,2-DICHLOROBENZENE-D4	19.30	152	1048061	10.00	ug/l	0.01
System Monitoring Compounds						
35) Dibromofluoromethane	7.83	111	913197	8.98	ug/l	0.02
Spiked Amount 10.000			Recovery = 89.80%			
42) 1,2-Dichloroethane-d4	8.96	65	764568	10.86	ug/l	0.00
Spiked Amount 10.000			Recovery = 108.60%			
55) Toluene-d8	12.71	98	3992531	9.20	ug/l	0.02
Spiked Amount 10.000			Recovery = 92.00%			
77) 4-Bromofluorobenzene	17.38	95	1176552	10.05	ug/l	0.00
Spiked Amount 10.000			Recovery = 100.50%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
~~RIW497.D~~ VO06J19.M Mon Nov 18 10:30:24 2024 Page 1

REPORT ID: 24J145 Page 157 of 328

~~RIW497A.D~~ m 11/20/2024

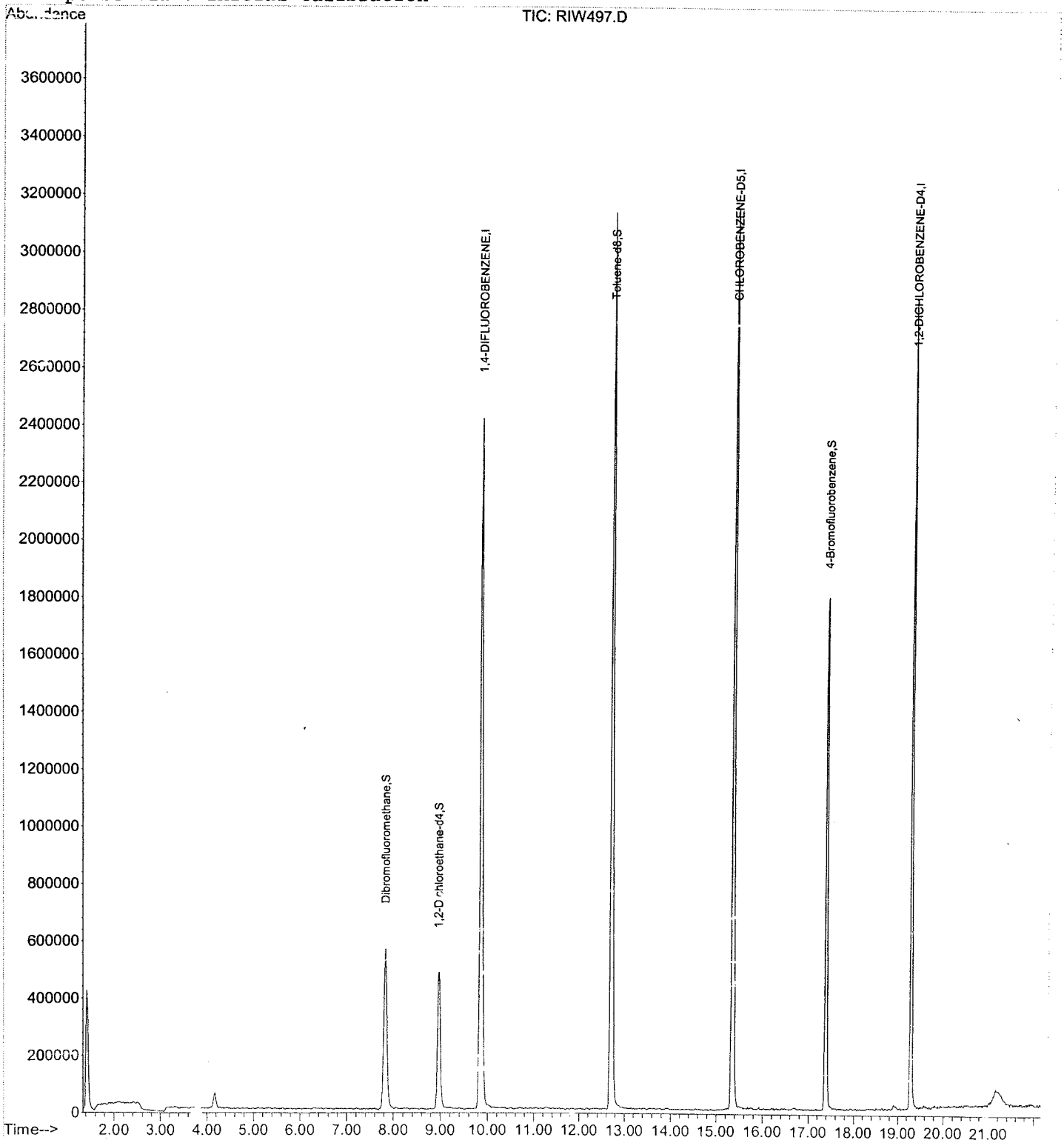
Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW497.D~~ RIW497A.D
Acq On : 28 Oct 2024 2:41 pm
Sample : VO06J24B
Misc : 25mL
MS Integration Params: RTE.P
Quant Time: Nov 18 10:30 2024

Vial: 6
Operator: PMai
Inst : 06
Multiplr: 1.00

Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



REPORT ID: 24J145

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW493.D~~ RIW493A.D
Acq On : 28 Oct 2024 12:04 pm
Sample : VO06J24L
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P
Quant Time: Nov 18 10:32 2024

MM 11/20/2024

Vial: 2
Operator: PMai
Inst : 06
Multiplr: 1.00
Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.86	114	4321578	10.00	ug/l	0.02
54) CHLOROBENZENE-D5	15.34	117	3185830	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1012535	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.83	111	896140	8.47	ug/l	0.02
Spiked Amount 10.000			Recovery = 84.70%			
42) 1,2-Dichloroethane-d4	8.96	65	733884	10.01	ug/l	0.00
Spiked Amount 10.000			Recovery = 100.10%			
55) Toluene-d8	12.71	98	4156284	9.44	ug/l	0.02
Spiked Amount 10.000			Recovery = 94.40%			
77) 4-Bromofluorobenzene	17.38	95	1188419	10.51	ug/l	0.00
Spiked Amount 10.000			Recovery = 105.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	1441661	9.38	ug/l	96
3) Chloromethane	1.80	50	1531892	10.25	ug/l	96
4) Vinyl chloride	1.92	62	1088114	9.08	ug/l	96
5) Bromomethane	2.35	94	805008	7.39	ug/l	97
6) Chloroethane	2.43	64	680603	8.25	ug/l	97
7) Dichlorofluoromethane	2.47	67	1588951	7.86	ug/l	98
8) Trichlorofluoromethane	2.70	101	1511793	9.42	ug/l	97
9) Acrolein	3.19	56	119278	26.66	ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	559547	6.08	ug/l	100
11) Acetone	3.30	43	446818	33.41	ug/l	90
12) 1,1-Dichloroethene	3.45	61	1699122	8.69	ug/l	92
13) tert-Butyl alcohol	3.59	59	585081	158.27	ug/l	97
15) Methyl acetate	3.97	74	73532	8.09	ug/l	99
16) Iodomethane	3.86	142	1333267	6.65	ug/l	92
17) Allyl chloride	3.99	76	598811	7.65	ug/l	99
18) Methylene chloride	4.16	49	1446280	10.08	ug/l	84
19) Carbon disulfide	4.14	76	1708201	6.97	ug/l	97
20) Acrylonitrile	4.39	53	627485	35.17	ug/l	99
21) tert-Butyl methyl ether (M	4.45	73	1609966	7.72	ug/l	99
22) trans-1,2-Dichloroethene	4.66	96	1123706	7.67	ug/l	99
23) Isopropyl ether (DIPE)	5.33	45	4142438	10.71	ug/l	88
24) Vinyl acetate	5.56	43	1496754	11.15	ug/l	94
25) 1,1-Dichloroethane	5.48	63	2031014	9.32	ug/l	96
26) 2-Butanol	6.04	45	899351	242.61	ug/l	92
27) tert-Butyl ethyl ether (ET	6.23	59	2579646	9.02	ug/l	89
28) 2-Butanone	6.51	43	966780	42.87	ug/l	90
29) 2,2-Dichloropropane	6.76	77	1246549	9.55	ug/l	95
30) cis-1,2-Dichloroethene	6.88	96	1122983	7.94	ug/l	100
31) Chloroform	7.28	83	1788545	8.22	ug/l	97
32) Bromochloromethane	7.56	130	414689	6.89	ug/l	96
33) Tetrahydrofuran	7.78	42	85916	6.65	ug/l	86
36) 1,1,1-Trichloroethane	8.22	97	1518079	8.74	ug/l	96
37) Cyclohexane	8.20	84	2307326	10.64	ug/l	98
39) 1,1-Dichloropropene	8.58	110	483676	7.56	ug/l	98
40) Carbon tetrachloride	8.75	119	1210082	8.55	ug/l	99
41) tert-Amyl methyl ether (TA	8.94	73	1955106	8.08	ug/l	96

(#) = qualifier out of range (m) = manual integration
~~RIW493.D~~ VO06J19.M Mon Nov 18 10:34:12 2024 Page 1

~~RIW493A.D~~ MM 11/20/2024

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW493.D~~ RIW493A.D Vial: 2
Acq On : 28 Oct 2024 12:04 pm Operator: PMai
Sample : VO06J24L Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 18 10:32 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.17	62	863121	9.80	ug/l	99
44)	Benzene	9.15	78	4460617	8.91	ug/l	98
45)	Trichloroethene	10.45	130	1065097	8.05	ug/l	95
46)	Methylcyclohexane	10.51	83	2907421	10.77	ug/l	90
47)	1,2-Dichloropropane	10.80	63	1039461	9.54	ug/l	94
48)	1,4-Dioxane	11.35	88	39873	100.86	ug/l	64
49)	Bromodichloromethane	11.24	83	1205640	8.56	ug/l	97
50)	Dibromomethane	11.31	93	399377	7.58	ug/l	91
51)	2-Chloroethyl vinyl ether	11.93	63	261300	7.33	ug/l	97
52)	4-Methyl-2-pentanone	12.00	43	3443177	57.26	ug/l	91
53)	cis-1,3-Dichloropropene	12.31	75	1529650	9.06	ug/l	88
56)	Toluene	12.84	91	4728040	8.94	ug/l	98
57)	Ethyl methacrylate	13.30	69	683177	7.97	ug/l	77
58)	trans-1,3-Dichloropropene	13.23	75	1108631	8.92	ug/l	78
59)	1,1,2-Trichloroethane	13.49	97	544853	8.19	ug/l	95
60)	2-Hexanone	13.57	43	2171247	57.64	ug/l	91
61)	1,3-Dichloropropane	13.93	76	1001657	8.46	ug/l	98
62)	Tetrachloroethene	13.99	164	818425	7.29	ug/l	96
63)	Dibromochloromethane	14.34	129	601909	7.32	ug/l	99
65)	1,2-Dibromoethane	14.68	107	474467	7.81	ug/l	98
66)	1-Chlorohexane	15.04	91	1990105	9.24	ug/l	88
67)	Chlorobenzene	15.40	112	2615545	9.05	ug/l	97
68)	1,1,1,2-Tetrachloroethane	15.49	131	786701	8.06	ug/l	98
69)	Ethylbenzene	15.52	91	5194313	9.10	ug/l	98
70)	m-Xylene & p-Xylene	15.65	91	7654004	17.92	ug/l	98
71)	o-Xylene	16.38	91	3829021	8.90	ug/l	96
72)	Styrene	16.44	104	2825596	9.18	ug/l	99
73)	Isopropylbenzene	16.99	105	5108725	9.15	ug/l	98
75)	Bromoform	16.97	173	230316	7.29	ug/l	98
76)	1,1,2,2-Tetrachloroethane	17.27	83	537177	9.76	ug/l	95
78)	1,2,3-Trichloropropane	17.49	110	122866	8.72	ug/l	92
79)	trans-1,4-Dichloro-2-buten	17.61	53	136219	10.43	ug/l	79
80)	n-Propylbenzene	17.60	91	6324417	11.20	ug/l	96
81)	Bromobenzene	17.64	156	794964	8.82	ug/l	99
82)	1,3,5-Trimethylbenzene	17.83	105	3899513	11.08	ug/l	96
83)	2-Chlorotoluene	17.83	91	3818050	11.21	ug/l	89
84)	4-Chlorotoluene	17.90	91	3227082	11.03	ug/l	100
85)	tert-Butylbenzene	18.28	134	811550	10.36	ug/l	91
86)	1,2,4-Trimethylbenzene	18.32	105	3825430	11.11	ug/l	96
87)	sec-Butylbenzene	18.53	105	5476054	11.17	ug/l	95
88)	p-Isopropyltoluene	18.70	119	4255437	10.97	ug/l	96
89)	1,3-Dichlorobenzene	18.80	146	1686392	9.61	ug/l	97
90)	1,2,3-Trimethylbenzene	18.88	105	3366603	11.06	ug/l	96
91)	1,4-Dichlorobenzene	18.92	146	1619874	9.57	ug/l	97
92)	n-Butylbenzene	19.14	91	4279083	11.21	ug/l	97
93)	1,2-Dichlorobenzene	19.31	146	1333976	9.32	ug/l	100
94)	1,2-Dibromo-3-chloropropan	20.09	157	51073	5.94	ug/l	93
95)	1,2,4-Trichlorobenzene	20.91	180	745062	8.98	ug/l	100
96)	Hexachlorobutadiene	21.04	225	484064	9.77	ug/l	93
97)	Naphthalene	21.18	128	969732	8.34	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW493.D~~ RIW493A.D Vial: 2
Acq On : 28 Oct 2024 12:04 pm Operator: PMai
Sample : VO06J24L Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 18 10:32 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.42	180	509835	8.15	ug/l	97

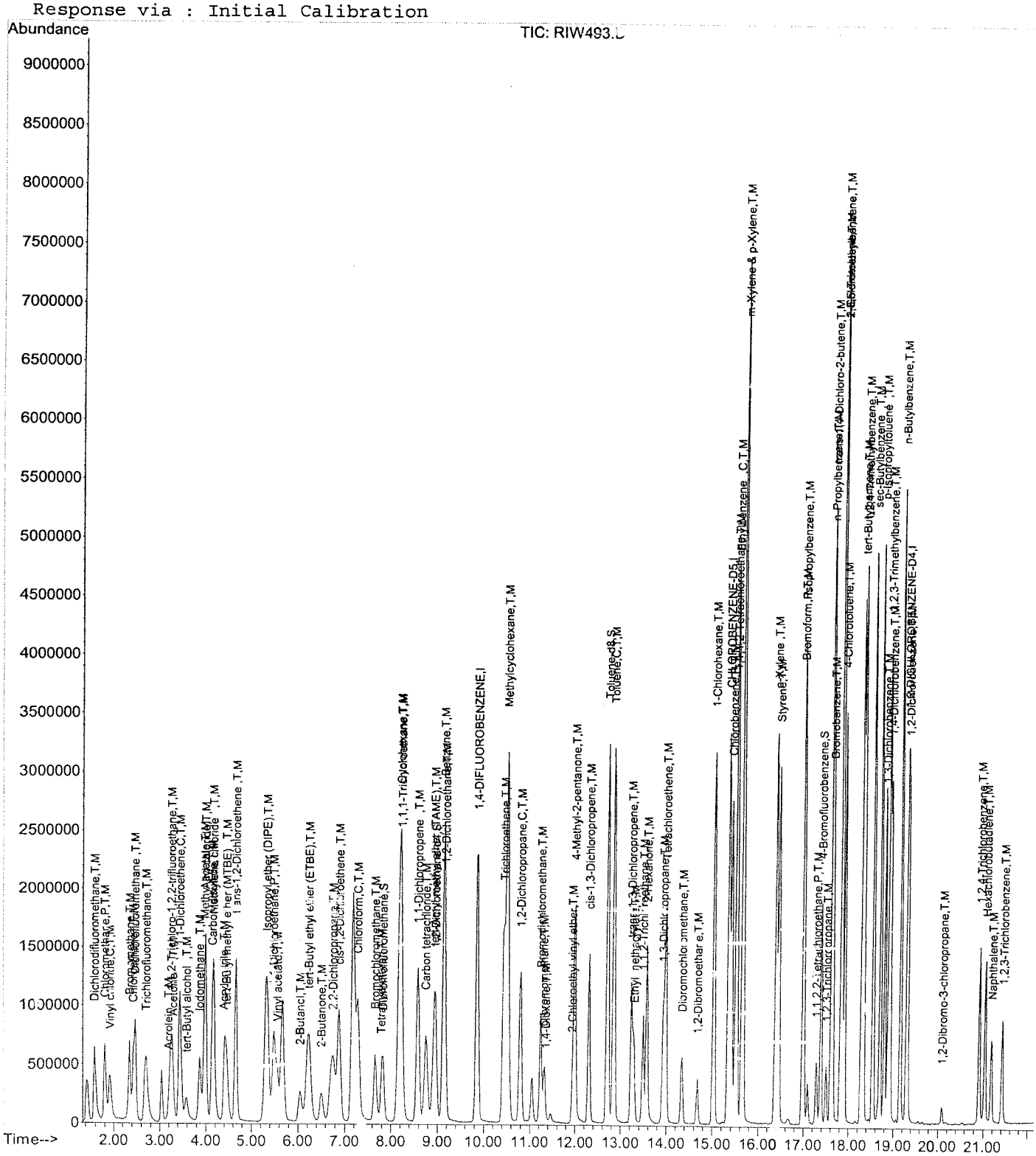
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW493.D~~ RIW493A.D
Acq On : 28 Oct 2024 12:04 pm
Sample : VO06J24L
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P
Quant Time: Nov 18 10:32 2024

Vial: 2
Operator: PMai
Inst : 06
Multiplr: 1.00
Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



~~RIW493.D~~ VO06J19.M Mon Nov 18 10:34:16 2024 Page 4

~~RIW493A.D~~ REPORTED: 24J145 mm 11/20/2024

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW495.D~~ RIW495A.D
Acq On : 28 Oct 2024 11:38 am
Sample : VO06J24C
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P
Quant Time: Nov 18 10:34 2024

Vial: 4
Operator: PMai
Inst : 06
Multiplr: 1.00
Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.86	114	4058808	10.00	ug/l	0.02
54) CHLOROBENZENE-D5	15.34	117	3043067	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1024605	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.83	111	863866	8.69	ug/l	0.02
Spiked Amount 10.000			Recovery = 86.90%			
42) 1,2-Dichloroethane-d4	8.96	65	715311	10.39	ug/l	0.00
Spiked Amount 10.000			Recovery = 103.90%			
55) Toluene-d8	12.71	98	3854064	9.16	ug/l	0.02
Spiked Amount 10.000			Recovery = 91.60%			
77) 4-Bromofluorobenzene	17.38	95	1146889	10.03	ug/l	0.00
Spiked Amount 10.000			Recovery = 100.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.59	85	1269647	8.80	ug/l	98
3) Chloromethane	1.80	50	1332177	9.49	ug/l	97
4) Vinyl chloride	1.90	62	975746	8.67	ug/l	98
5) Bromomethane	2.34	94	763410	7.46	ug/l	99
6) Chloroethane	2.43	64	610061	7.87	ug/l	90
7) Dichlorofluoromethane	2.47	67	1951935	10.28	ug/l	98
8) Trichlorofluoromethane	2.69	101	1338928	8.89	ug/l	98
9) Acrolein	3.22	56	150283	35.77	ug/l	92
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	702622	8.13	ug/l	98
11) Acetone	3.30	43	578412	46.05	ug/l	90
12) 1,1-Dichloroethene	3.45	61	2022869	11.01	ug/l	91
13) tert-Butyl alcohol	3.59	59	764057	220.06	ug/l	97
15) Methyl acetate	3.97	74	81537	9.55	ug/l	99
16) Iodomethane	3.86	142	1607673	8.54	ug/l	92
17) Allyl chloride	3.99	76	707818	9.62	ug/l	100
18) Methylene chloride	4.16	49	1695307	12.58	ug/l	84
19) Carbon disulfide	4.14	76	2165781	9.41	ug/l	96
20) Acrylonitrile	4.39	53	770853	46.00	ug/l	99
21) tert-Butyl methyl ether (M	4.45	73	1965569	10.04	ug/l	95
22) trans-1,2-Dichloroethene	4.66	96	1331265	9.68	ug/l	99
23) Isopropyl ether (DIPE)	5.33	45	4809059	13.24	ug/l	88
24) Vinyl acetate	5.56	43	1445602	11.47	ug/l	94
25) 1,1-Dichloroethane	5.48	63	2358280	11.53	ug/l	97
26) 2-Butanol	6.04	45	1070803	307.57	ug/l	91
27) tert-Butyl ethyl ether (ET	6.23	59	3026962	11.27	ug/l	89
28) 2-Butanone	6.51	43	1180523	55.74	ug/l	89
29) 2,2-Dichloropropane	6.76	77	1437035	11.72	ug/l	96
30) cis-1,2-Dichloroethene	6.88	96	1312324	9.88	ug/l	98
31) Chloroform	7.28	83	2146515	10.51	ug/l	96
32) Bromochloromethane	7.68	130	487398	9.62	ug/l	98
33) Tetrahydrofuran	7.78	42	109838	9.05	ug/l	88
36) 1,1,1-Trichloroethane	8.20	97	1804722	11.07	ug/l	95
37) Cyclohexane	8.20	84	2504874	12.30	ug/l	98
39) 1,1-Dichloropropene	8.58	110	574714	9.57	ug/l	98
40) Carbon tetrachloride	8.75	119	1427962	10.74	ug/l	97
41) tert-Amyl methyl ether (TA	8.94	73	2358344	10.77	ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW495.D~~ RIW495A.D Vial: 4
Acq On : 28 Oct 2024 11:38 am Operator: PMai
Sample : VO06J24C Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 18 10:34 2024 Quant Results File: VO06J19.RES

m 11/20/2024

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.17	62	1007434	12.18	ug/l	99
44)	Benzene	9.15	78	5250294	11.16	ug/l	97
45)	Trichloroethene	10.43	130	1202987	9.68	ug/l	92
46)	Methylcyclohexane	10.51	83	3121509	12.32	ug/l	90
47)	1,2-Dichloropropane	10.80	63	1198874	11.71	ug/l	96
48)	1,4-Dioxane	11.35	88	52318	140.90	ug/l	91
49)	Bromodichloromethane	11.24	83	1444399	10.91	ug/l	98
50)	Dibromomethane	11.31	93	510083	10.31	ug/l	85
51)	2-Chloroethyl vinyl ether	11.93	63	321631	9.60	ug/l	99
52)	4-Methyl-2-pentanone	12.00	43	4038705	71.51	ug/l	92
53)	cis-1,3-Dichloropropene	12.31	75	1793764	11.31	ug/l	87
56)	Toluene	12.84	91	5465426	10.82	ug/l	99
57)	Ethyl methacrylate	13.28	69	855376	10.44	ug/l	77
58)	trans-1,3-Dichloropropene	13.23	75	1306415	11.00	ug/l	74
59)	1,1,2-Trichloroethane	13.49	97	634227	9.99	ug/l	99
60)	2-Hexanone	13.57	43	2595070	72.12	ug/l	91
61)	1,3-Dichloropropane	13.93	76	1198462	10.59	ug/l	98
62)	Tetrachloroethene	13.99	164	961605	8.97	ug/l	96
63)	Dibromochloromethane	14.34	129	698310	8.89	ug/l	95
65)	1,2-Dibromoethane	14.68	107	576200	9.94	ug/l	98
66)	1-Chlorohexane	15.04	91	2309717	11.22	ug/l	89
67)	Chlorobenzene	15.40	112	3034201	10.99	ug/l	98
68)	1,1,1,2-Tetrachloroethane	15.49	131	911027	9.77	ug/l	99
69)	Ethylbenzene	15.52	91	5968452	10.95	ug/l	98
70)	m-Xylene & p-Xylene	15.65	91	8834179	21.65	ug/l	97
71)	o-Xylene	16.38	91	4440248	10.80	ug/l	96
72)	Styrene	16.44	104	3292734	11.20	ug/l	99
73)	Isopropylbenzene	16.99	105	5797063	10.88	ug/l	99
75)	Bromoform	16.97	173	289639	9.06	ug/l	97
76)	1,1,2,2-Tetrachloroethane	17.27	83	655934	11.77	ug/l	95
78)	1,2,3-Trichloropropane	17.49	110	142108	9.96	ug/l	98
79)	trans-1,4-Dichloro-2-buten	17.61	53	170512	12.91	ug/l	83
80)	n-Propylbenzene	17.60	91	7291735	12.76	ug/l	96
81)	Bromobenzene	17.64	156	938185	10.28	ug/l	99
82)	1,3,5-Trimethylbenzene	17.82	105	4449557	12.49	ug/l	97
83)	2-Chlorotoluene	17.83	91	4420562	12.82	ug/l	90
84)	4-Chlorotoluene	17.90	91	3691530	12.47	ug/l	100
85)	tert-Butylbenzene	18.28	134	896361	11.31	ug/l	90
86)	1 2,4-Trimethylbenzene	18.32	105	4350932	12.49	ug/l	95
87)	sec-Butylbenzene	18.53	105	6200934	12.50	ug/l	96
88)	p-Isopropyltoluene	18.70	119	4684227	11.94	ug/l	97
89)	1,3-Dichlorobenzene	18.79	146	1951129	10.99	ug/l	97
90)	1,2,3-Trimethylbenzene	18.88	105	3789333	12.31	ug/l	97
91)	1,4-Dichlorobenzene	18.92	146	1880715	10.97	ug/l	96
92)	n-Butylbenzene	19.14	91	4792770	12.41	ug/l	97
93)	1,2-Dichlorobenzene	19.31	146	1841475	10.65	ug/l	100
94)	1,2-Dibromo-3-chloropropan	20.07	157	61823	7.10	ug/l	93
95)	1,2,4-Trichlorobenzene	20.91	180	806572	9.60	ug/l	99
96)	Hexachlorobutadiene	21.04	225	512184	10.24	ug/l	97
97)	Naphthalene	21.18	128	1096516	9.32	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW495.D~~ RIW495A.D
Acq On : 28 Oct 2024 11:38 am
Sample : VO06J24C
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P
Quant Time: Nov 18 10:34 2024

MM 11/20/2024

Vial: 4
Operator: PMai
Inst : 06
Multiplr: 1.00
Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

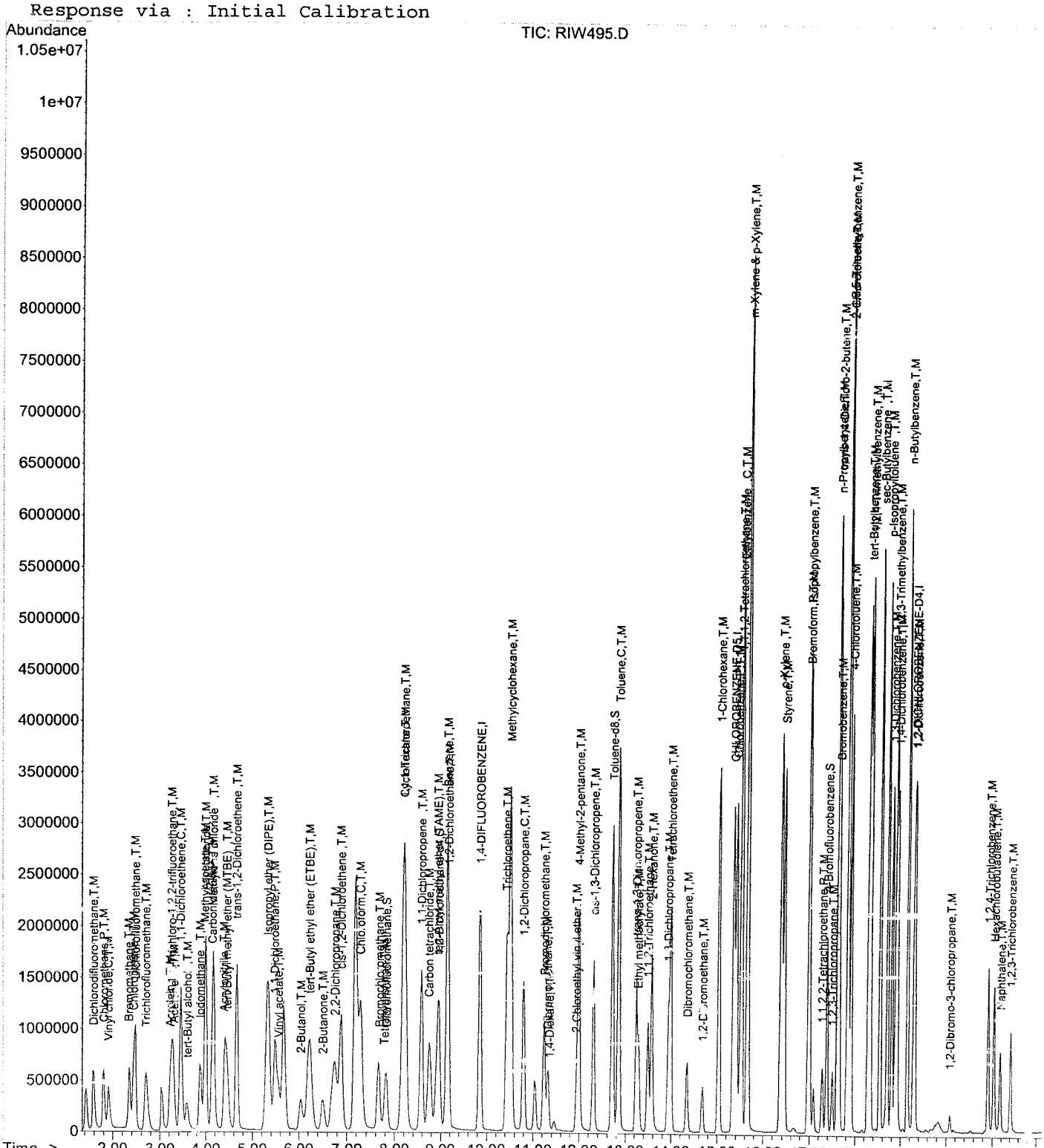
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	1,2,3-Trichlorobenzene	21.41	180	535508	8.46	ug/l	96

(#) = qualifier out of range (m) = manual integration
~~RIW495.D~~ VO06J19.M Mon Nov 18 10:35:00 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW495.D~~ RIW495A.D Vial: 4
Acq On : 28 Oct 2024 11:38 am mm 11/20/2024 Operator: PMai
Sample : VO06J24C Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 18 10:34 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW509.D Vial: 18
Acq On : 26 Oct 2024 9:42 pm Operator: DNguye
Sample : 24J145-11M Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 25 12:34 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	2753739	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.33	117	2127720	10.00	ug/l	-0.01
74) 1,2-DICHLOROBENZENE-D4	19.27	152	750759	10.00	ug/l	-0.01
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	596076	8.84	ug/l	0.00
Spiked Amount 10.000			Recovery = 88.40%			
42) 1,2-Dichloroethane-d4	8.94	65	529720	11.34	ug/l	-0.02
Spiked Amount 10.000			Recovery = 113.40%			
55) Toluene-d8	12.69	98	2666133	9.07	ug/l	0.00
Spiked Amount 10.000			Recovery = 90.70%			
77) 4-Bromofluorobenzene	17.36	95	815030	9.72	ug/l	-0.01
Spiked Amount 10.000			Recovery = 97.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	778270	7.95	ug/l	97
3) Chloromethane	1.80	50	646800	6.79	ug/l	97
4) Vinyl chloride	1.92	62	502182	6.58	ug/l	97
5) Bromomethane	2.35	94	448165	6.45	ug/l	99
6) Chloroethane	2.43	64	325114	6.19	ug/l	81
7) Dichlorofluoromethane	2.47	67	1166538	9.06	ug/l	99
8) Trichlorofluoromethane	2.69	101	845631	8.27	ug/l	98
9) Acrolein	3.20	56	38269	13.42	ug/l	88
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	402954	6.87	ug/l	99
11) Acetone	3.28	43	420165	49.30	ug/l	85
12) 1,1-Dichloroethene	3.43	61	1255773	10.07	ug/l	89
13) tert-Butyl alcohol	3.57	59	556743	236.35	ug/l	97
15) Methyl acetate	3.95	74	44275	7.64	ug/l	99
16) Iodomethane	3.87	142	998931	7.82	ug/l	87
17) Allyl chloride	3.99	76	395295	7.92	ug/l	98
18) Methylene chloride	4.16	49	1029371	11.26	ug/l	82
19) Carbon disulfide	4.12	76	911202	5.84	ug/l	96
20) Acrylonitrile	4.39	53	532256	46.81	ug/l	99
21) tert-Butyl methyl ether (M	4.43	73	1290391	9.71	ug/l	99
22) trans-1,2-Dichloroethene	4.66	96	826643	8.85	ug/l	97
23) Isopropyl ether (DIPE)	5.31	45	3059950	12.41	ug/l	87
25) 1,1-Dichloroethane	5.48	63	1426238	10.27	ug/l	97
26) 2-Butanol	6.02	45	635488	269.04	ug/l	95
27) tert-Butyl ethyl ether (ET	6.21	59	1947075	10.69	ug/l	90
28) 2-Butanone	6.49	43	753601	52.44	ug/l	87
29) 2,2-Dichloropropane	6.74	77	893183	10.74	ug/l	95
30) cis-1,2-Dichloroethene	6.86	96	862350	9.57	ug/l	99
31) Chloroform	7.26	83	1399823	10.10	ug/l	96
32) Bromochloromethane	7.66	130	314319	8.19	ug/l	99
33) Tetrahydrofuran	7.76	42	72890	8.85	ug/l	85
36) 1,1,1-Trichloroethane	8.20	97	1220664	11.03	ug/l	95
37) Cyclohexane	8.18	84	1373072	9.94	ug/l	99
39) 1,1-Dichloropropene	8.56	110	340086	8.35	ug/l	98
40) Carbon tetrachloride	8.75	119	970610	10.76	ug/l	98
41) tert-Amyl methyl ether (TA	8.92	73	1508601	9.78	ug/l	97
43) 1,2-Dichloroethane	9.15	62	737423	13.14	ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW509.D Vial: 18
Acq On : 26 Oct 2024 9:42 pm Operator: DNguye
Sample : 24J145-11M Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 25 12:34 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

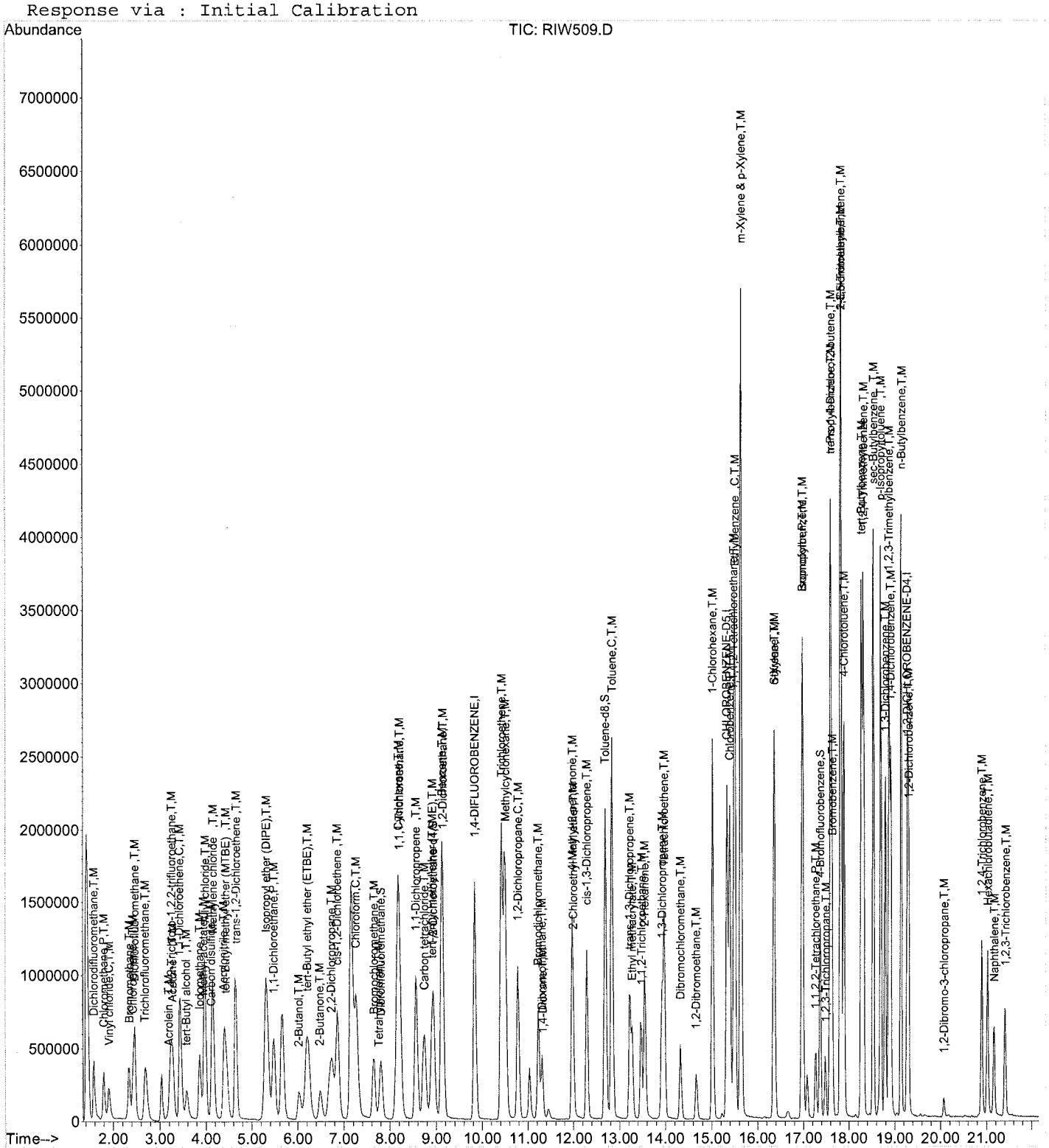
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
44)	Benzene	9.13	78	3274545	10.26	ug/l		97
45)	Trichloroethene	10.43	130	1267042	15.03	ug/l		92
46)	Methylcyclohexane	10.51	83	1709135	9.94	ug/l		90
47)	1,2-Dichloropropane	10.78	63	759237	10.93	ug/l		99
48)	1,4-Dioxane	11.33	88	41443	164.51	ug/l		89
49)	Bromodichloromethane	11.22	83	949468	10.57	ug/l		99
50)	Dibromomethane	11.31	93	338681	10.09	ug/l		84
51)	2-Chloroethyl vinyl ether	12.00	63	3298	0.15	ug/l	#	1
52)	4-Methyl-2-pentanone	11.98	43	2275937	59.39	ug/l		91
53)	cis-1,3-Dichloropropene	12.29	75	1143032	10.62	ug/l		82
56)	Toluene	12.84	91	3629064	10.28	ug/l		96
57)	Ethyl methacrylate	13.28	69	544590	9.51	ug/l		75
58)	trans-1,3-Dichloropropene	13.21	75	871791	10.50	ug/l		66
59)	1,1,2-Trichloroethane	13.49	97	424536	9.56	ug/l		98
60)	2-Hexanone	13.55	43	1504656	59.81	ug/l		87
61)	1,3-Dichloropropane	13.93	76	789554	9.98	ug/l		100
62)	Tetrachloroethene	13.97	164	595868	7.95	ug/l		96
63)	Dibromochloromethane	14.32	129	489513	8.91	ug/l		97
65)	1,2-Dibromoethane	14.66	107	388198	9.57	ug/l		100
66)	1-Chlorohexane	15.02	91	1383930	9.62	ug/l		92
67)	Chlorobenzene	15.39	112	1974309	10.23	ug/l		97
68)	1,1,1,2-Tetrachloroethane	15.48	131	620706	9.52	ug/l		97
69)	Ethylbenzene	15.51	91	3962149	10.40	ug/l		96
70)	m-Xylene & p-Xylene	15.64	91	5921779	20.76	ug/l		95
71)	o-Xylene	16.36	91	3009592	10.47	ug/l		95
72)	Styrene	16.36	104	59234	0.29	ug/l	#	1
73)	Isopropylbenzene	16.97	105	3955303	10.61	ug/l		97
75)	Bromoform	16.97	173	209012	8.92	ug/l		98
76)	1,1,2,2-Tetrachloroethane	17.26	83	429285	10.52	ug/l		99
78)	1,2,3-Trichloropropane	17.49	110	103233	9.88	ug/l		92
79)	trans-1,4-Dichloro-2-buten	17.60	53	120937	12.49	ug/l		83
80)	n-Propylbenzene	17.60	91	4960040	11.84	ug/l		95
81)	Bromobenzene	17.64	156	628071	9.39	ug/l		97
82)	1,3,5-Trimethylbenzene	17.82	105	3001848	11.50	ug/l		95
83)	2-Chlorotoluene	17.82	91	3029137	11.99	ug/l		88
84)	4-Chlorotoluene	17.90	91	2597864	11.98	ug/l		98
85)	tert-Butylbenzene	18.27	134	602813	10.38	ug/l		86
86)	1,2,4-Trimethylbenzene	18.31	105	3000873	11.76	ug/l		94
87)	sec-Butylbenzene	18.53	105	4314690	11.87	ug/l		95
88)	p-Isopropyltoluene	18.69	119	3266155	11.36	ug/l		95
89)	1,3-Dichlorobenzene	18.79	146	1355421	10.42	ug/l		97
90)	1,2,3-Trimethylbenzene	18.87	105	2756687	12.22	ug/l		94
91)	1,4-Dichlorobenzene	18.91	146	1313666	10.46	ug/l		95
92)	n-Butylbenzene	19.14	91	3396095	12.00	ug/l		96
93)	1,2-Dichlorobenzene	19.31	146	1116061	10.52	ug/l		100
94)	1,2-Dibromo-3-chloropropan	20.08	157	44876	7.04	ug/l		99
95)	1,2,4-Trichlorobenzene	20.89	180	593902	9.65	ug/l		98
96)	Hexachlorobutadiene	21.02	225	386329	10.55	ug/l		99
97)	Naphthalene	21.17	128	835085	9.68	ug/l		98
98)	1,2,3-Trichlorobenzene	21.41	180	405040	8.73	ug/l		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW509.D Vial: 18
Acq On : 26 Oct 2024 9:42 pm Operator: DNguye
Sample : 24J145-11M Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 25 12:34 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW510.D Vial: 19
Acq On : 26 Oct 2024 10:08 pm Operator: DNguye
Sample : 24J145-11S Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 25 12:35 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	2786874	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.33	117	2133078	10.00	ug/l	-0.01
74) 1,2-DICHLOROBENZENE-D4	19.28	152	752943	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.80	111	621596	9.11	ug/l	0.00
Spiked Amount 10.000			Recovery = 91.10%			
42) 1,2-Dichloroethane-d4	8.96	65	538850	11.40	ug/l	0.00
Spiked Amount 10.000			Recovery = 114.00%			
55) Toluene-d8	12.69	98	2779595	9.43	ug/l	0.00
Spiked Amount 10.000			Recovery = 94.30%			
77) 4-Bromofluorobenzene	17.36	95	813966	9.68	ug/l	-0.01
Spiked Amount 10.000			Recovery = 96.80%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.57	85	710222	7.17	ug/l	96
3) Chloromethane	1.78	50	715131	7.42	ug/l	99
4) Vinyl chloride	1.90	62	545703	7.06	ug/l	100
5) Bromomethane	2.34	94	453220	6.45	ug/l	95
6) Chloroethane	2.41	64	311401	5.85	ug/l	81
7) Dichlorofluoromethane	2.45	67	1226493	9.41	ug/l	96
8) Trichlorofluoromethane	2.69	101	732758	7.08	ug/l	94
9) Acrolein	3.19	56	28436	9.86	ug/l	76
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	429143	7.23	ug/l	99
11) Acetone	3.30	43	384516	44.58	ug/l	86
12) 1,1-Dichloroethene	3.45	61	1251869	9.92	ug/l	89
13) tert-Butyl alcohol	3.59	59	532510	223.37	ug/l	97
15) Methyl acetate	3.97	74	42660	7.28	ug/l	86
16) Iodomethane	3.86	142	1049859	8.12	ug/l	90
17) Allyl chloride	3.99	76	396874	7.86	ug/l	96
18) Methylene chloride	4.16	49	1062010	11.48	ug/l	81
19) Carbon disulfide	4.14	76	1152862	7.30	ug/l	97
20) Acrylonitrile	4.39	53	527825	45.87	ug/l	98
21) tert-Butyl methyl ether (M	4.43	73	1322323	9.83	ug/l	97
22) trans-1,2-Dichloroethene	4.66	96	793690	8.40	ug/l	98
23) Isopropyl ether (DIPE)	5.31	45	3100541	12.43	ug/l	88
25) 1,1-Dichloroethane	5.48	63	1454825	10.36	ug/l	96
26) 2-Butanol	6.04	45	560165	234.33	ug/l	93
27) tert-Butyl ethyl ether (ET	6.21	59	2024336	10.98	ug/l	89
28) 2-Butanone	6.51	43	759335	52.21	ug/l	88
29) 2,2-Dichloropropane	6.74	77	839064	9.97	ug/l	96
30) cis-1,2-Dichloroethene	6.86	96	885498	9.71	ug/l	99
31) Chloroform	7.28	83	1430492	10.20	ug/l	95
32) Bromochloromethane	7.66	130	309389	7.97	ug/l	99
33) Tetrahydrofuran	7.76	42	77140	9.26	ug/l	84
36) 1,1,1-Trichloroethane	8.20	97	1210297	10.81	ug/l	94
37) Cyclohexane	8.18	84	1029092	7.36	ug/l	99
39) 1,1-Dichloropropene	8.58	110	344912	8.36	ug/l	100
40) Carbon tetrachloride	8.75	119	921107	10.09	ug/l	99
41) tert-Amyl methyl ether (TA	8.92	73	1609650	10.31	ug/l	97
43) 1,2-Dichloroethane	9.15	62	738225	12.99	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW510.D Vial: 19
Acq On : 26 Oct 2024 10:08 pm Operator: DNguye
Sample : 24J145-11S Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 25 12:35 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

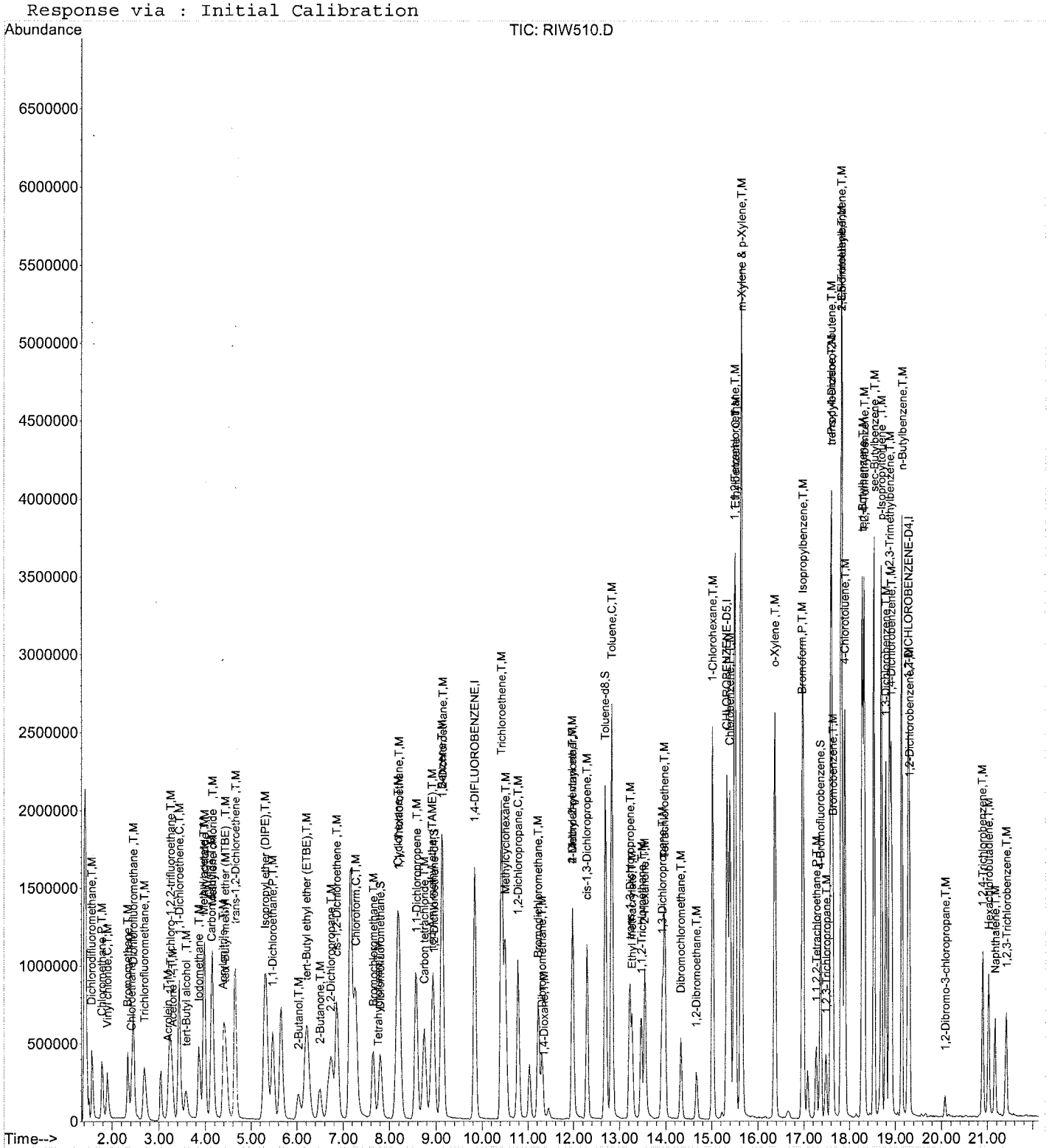
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
44)	Benzene	9.13	78	3349729	10.37	ug/l		98
45)	Trichloroethene	10.42	130	1288522	15.10	ug/l		92
46)	Methylcyclohexane	10.51	83	1096910	6.30	ug/l		91
47)	1,2-Dichloropropane	10.78	63	751948	10.70	ug/l		100
48)	1,4-Dioxane	11.35	88	31898	125.12	ug/l	#	58
49)	Bromodichloromethane	11.22	83	992701	10.92	ug/l		98
50)	Dibromomethane	11.30	93	332531	9.79	ug/l		90
51)	2-Chloroethyl vinyl ether	11.98	63	3069	0.13	ug/l	#	1
52)	4-Methyl-2-pentanone	11.98	43	2302069	59.36	ug/l		93
53)	cis-1,3-Dichloropropene	12.29	75	1169190	10.74	ug/l		83
56)	Toluene	12.83	91	3568524	10.08	ug/l		99
57)	Ethyl methacrylate	13.27	69	613651	10.69	ug/l		84
58)	trans-1,3-Dichloropropene	13.23	75	855830	10.28	ug/l		64
59)	1,1,2-Trichloroethane	13.48	97	421500	9.47	ug/l		97
60)	2-Hexanone	13.55	43	1511143	59.91	ug/l		87
61)	1,3-Dichloropropane	13.92	76	814000	10.26	ug/l		96
62)	Tetrachloroethene	13.97	164	589469	7.84	ug/l		96
63)	Dibromochloromethane	14.32	129	503253	9.14	ug/l		98
65)	1,2-Dibromoethane	14.66	107	382598	9.41	ug/l		98
66)	1-Chlorohexane	15.01	91	1356908	9.41	ug/l		95
67)	Chlorobenzene	15.39	112	1996224	10.32	ug/l		97
68)	1,1,1,2-Tetrachloroethane	15.49	131	629585	9.64	ug/l		96
69)	Ethylbenzene	15.51	91	3875382	10.15	ug/l		98
70)	m-Xylene & p-Xylene	15.64	91	5737606	20.06	ug/l		96
71)	o-Xylene	16.36	91	2962899	10.28	ug/l		95
73)	Isopropylbenzene	16.97	105	3767641	10.08	ug/l		97
75)	Bromoform	16.96	173	204055	8.68	ug/l		96
76)	1,1,2,2-Tetrachloroethane	17.27	83	446180	10.90	ug/l		96
78)	1,2,3-Trichloropropane	17.49	110	103051	9.83	ug/l		92
79)	trans-1,4-Dichloro-2-buten	17.60	53	120824	12.45	ug/l		88
80)	n-Propylbenzene	17.60	91	4612021	10.98	ug/l		96
81)	Bromobenzene	17.64	156	633243	9.44	ug/l		100
82)	1,3,5-Trimethylbenzene	17.82	105	2869588	10.96	ug/l		94
83)	2-Chlorotoluene	17.82	91	2859861	11.29	ug/l		89
84)	4-Chlorotoluene	17.89	91	2562338	11.78	ug/l		97
85)	tert-Butylbenzene	18.27	134	561780	9.64	ug/l		86
86)	1,2,4-Trimethylbenzene	18.31	105	2844639	11.11	ug/l		92
87)	sec-Butylbenzene	18.53	105	3937307	10.80	ug/l		96
88)	p-Isopropyltoluene	18.69	119	3022539	10.48	ug/l		95
89)	1,3-Dichlorobenzene	18.79	146	1301095	9.97	ug/l		95
90)	1,2,3-Trimethylbenzene	18.87	105	2590289	11.45	ug/l		95
91)	1,4-Dichlorobenzene	18.91	146	1245697	9.89	ug/l		97
92)	n-Butylbenzene	19.14	91	3057132	10.77	ug/l		96
93)	1,2-Dichlorobenzene	19.31	146	1050604	9.88	ug/l		100
94)	1,2-Dibromo-3-chloropropan	20.07	157	48785	7.63	ug/l		98
95)	1,2,4-Trichlorobenzene	20.89	180	539506	8.74	ug/l		99
96)	Hexachlorobutadiene	21.02	225	289642	7.79	ug/l		96
97)	Naphthalene	21.16	128	807522	9.34	ug/l		100
98)	1,2,3-Trichlorobenzene	21.41	180	368645	7.93	ug/l		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW510.D Vial: 19
Acq On : 26 Oct 2024 10:08 pm Operator: DNguye
Sample : 24J145-11S Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 25 12:35 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



INITIAL CALIBRATIONS

FORM 5

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : ICAL

Lab Code : EMAX SDG No : ICAL

Lab File ID: RIW358 BFB Injection Date: 10/19/24

Instrument ID: 06 BFB Injection Time: 15:14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	15.276
75	30 - 60% of mass 95	42.848
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	5.201
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	75.566
175	5 - 9% of mass 174	5.084(6.73)1
176	95 - 101% % of mass 174	74.029(97.97)1
177	5 - 9% % of mass 176	4.277(5.78)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following Calibration Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	VO06J191	RIW359	10/19/24	15:59
2	VSTD0.5	VO06J192	RIW360	10/19/24	16:26
3	VSTD1	VO06J193	RIW361	10/19/24	16:53
4	VSTD2	VO06J194	RIW362	10/19/24	17:19
5	VSTD5	VO06J195	RIW363	10/19/24	17:45
6	VSTD10	VO06J196	RIW364	10/19/24	18:11
7	VSTD20	VO06J197	RIW365	10/19/24	18:38
8	VSTD30	VO06J198	RIW366	10/19/24	19:04
9	VSTD50	VO06J199	RIW367	10/19/24	19:30
10	VSTD100	VO06J1910	RIW368	10/19/24	19:57
11	VSTD10	IVO06J191	RIW371	10/19/24	21:15

Sw 11/15/24

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :06
Beginning DateTime :10/19/24 15:59
Spike Units :PPB
IC File :RIW364

Column Spec :RTX502.2 ID :0.25MM
Ending DateTime :10/19/24 19:57
HPChem Method :V006J19

M	IDX	Parameters	3 15:59 RIW359	5 16:26 RIW360	1 16:53 RIW361	2 17:19 RIW362	5 17:45 RIW363	10 18:11 RIW364	20 18:38 RIW365	30 19:04 RIW366	50 19:30 RIW367	100 19:57 RIW368	Av_RRF	% RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	9.8425
	2	Dichlorodifluoromethane	0.443	0.330	0.316	0.353	0.360	0.425	0.352	0.325	0.330	0.322	0.356	12.33	1.5731
	3	Chloromethane	0.264	0.308	0.318	0.355	0.369	0.427	0.366	0.342	0.359	0.349	0.346	12.43	1.7923
	4	Vinyl chloride	.....	0.225	0.258	0.276	0.298	0.361	0.294	0.254	0.251	.....	0.277	14.95	1.8999
	5	Bromomethane	0.302	0.197	0.218	0.230	0.257	0.302	0.260	0.240	0.257	0.259	0.252	13.23	2.3335
	6	Chloroethane	0.157	0.161	0.192	0.185	0.198	0.234	0.201	0.186	0.196	0.199	0.191	11.28	2.4204
	7	Dichlorofluoromethane	0.538	0.469	0.482	0.472	0.472	0.554	0.446	0.434	0.441	0.429	0.468	10.00	2.4599
	8	Trichlorofluoromethane	0.394	0.300	0.317	0.347	0.380	0.452	0.394	0.371	0.385	0.371	0.371	11.49	2.6910
5	8	Acrolein	.....	0.010	0.011	0.010	0.010	0.012	0.009	0.010	0.010	0.011	0.010	5.97	3.2040
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	0.263	0.198	0.204	0.165	0.211	0.269	0.205	0.206	0.212	0.206	0.213	12.61	3.2555
5	11	Acetone	.....	0.030	0.035	0.031	0.030	0.033	0.030	0.028	0.030	0.031	0.031	6.91	3.2982
	12	1,1-Dichloroethene	0.531	0.435	0.445	0.372	0.458	0.539	0.439	0.440	0.435	0.433	0.453	10.84	3.4360
25	13	tert-Butyl alcohol	.....	.....	0.008	0.006	0.009	0.010	0.009	0.009	.....	.....	0.009	14.67	3.5860
	14	Acetonitrile	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.000	0.00	0.0000
	15	Methyl acetate	0.022	0.022	0.022	0.021	0.020	0.021	0.021	0.019	0.020	0.022	0.021	4.29	3.9643
	16	Iodomethane	0.483	0.435	0.450	0.403	0.482	0.556	0.460	0.455	0.455	0.461	0.464	8.54	3.8637
	17	Allyl chloride	0.180	0.176	0.172	0.153	0.179	0.212	0.178	0.182	0.187	0.192	0.181	8.24	3.9874
	18	Methylene chloride	0.365	0.321	0.320	0.285	0.335	0.388	0.324	0.325	0.325	0.332	0.332	8.33	4.1573
	19	Carbon disulfide	.....	.....	0.517	0.535	0.565	0.715	0.553	0.516	.....	.....	0.567	13.30	4.1313
5	20	Acrylonitrile	0.038	0.035	0.038	0.040	0.042	0.048	0.042	0.042	0.043	0.044	0.041	8.82	4.3984
	21	tert-Butyl methyl ether (MTBE)	0.485	0.458	0.469	0.405	0.499	0.579	0.476	0.480	0.470	0.501	0.482	8.00	4.4425
	22	trans-1,2-Dichloroethene	0.419	0.333	0.324	0.274	0.339	0.391	0.324	0.329	0.330	0.328	0.339	11.64	4.6564
	23	Isopropyl ether (DIPE)	0.805	0.862	0.854	0.763	0.936	1.085	0.911	0.913	0.899	0.889	0.895	6.09	5.3253
	24	Vinyl acetate	.....	0.235	0.250	0.268	0.316	0.393	0.335	0.328	0.332	0.332	0.317	14.53	5.5574
	25	1,1-Dichloroethane	0.526	0.491	0.511	0.421	0.510	0.597	0.482	0.500	0.498	0.501	0.504	8.18	5.4784
25	26	2-Butanol	.....	.....	.....	0.007	0.008	0.009	0.009	0.009	0.009	0.009	0.009	10.55	6.0378
	27	tert-Butyl ethyl ether (ETBE)	0.591	0.642	0.677	0.604	0.672	0.764	0.645	0.650	0.642	0.729	0.662	7.94	6.2250
5	28	2-Butanone	.....	0.034	0.051	0.048	0.054	0.061	0.054	0.054	0.055	0.057	0.052	14.55	6.5010
	29	2,2-Dichloropropane	.....	0.317	0.309	0.280	0.317	0.377	0.301	0.291	0.282	0.245	0.302	11.90	6.7504
	30	cis-1,2-Dichloroethene	0.343	0.310	0.328	0.274	0.328	0.381	0.320	0.326	0.327	0.336	0.327	8.13	6.8772
	31	Chloroform	0.581	0.531	0.502	0.418	0.493	0.571	0.481	0.484	0.481	0.492	0.503	9.43	7.2840
	32	Bromochloromethane	0.124	0.134	0.133	0.119	0.142	0.166	0.139	0.143	0.142	0.151	0.139	9.49	7.6615
	33	Tetrahydrofuran	.....	0.030	0.038	0.028	0.030	0.029	0.027	0.028	0.028	0.032	0.030	10.62	7.7849
5	34	tert-Amyl alcohol	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.000	0.00	0.0000
	35	Dibromofluoromethane	.....	0.221	0.205	0.237	0.229	0.314	0.257	0.251	.....	.....	0.245	14.43	7.8082
	36	1,1,1-Trichloroethane	0.468	0.401	0.394	0.330	0.402	0.471	0.391	0.392	0.390	0.378	0.402	10.25	8.2088
	37	Cyclohexane	0.613	0.462	0.473	0.467	0.497	0.592	0.513	0.467	0.472	0.462	0.502	11.11	8.1900
	38	2,2,4-Trimethylpentane	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.000	0.00	0.0000
	39	1,1-Dichloropropene	0.165	0.141	0.152	0.119	0.142	0.168	0.145	0.147	0.149	0.151	0.148	9.27	8.2821
	40	Carbon tetrachloride	0.342	0.314	0.319	0.273	0.339	0.391	0.323	0.331	0.323	0.319	0.327	9.00	8.4362
	41	tert-Amyl methyl ether (TAME)	0.534	0.538	0.559	0.497	0.571	0.663	0.558	0.563	0.547	0.570	0.560	7.54	8.5253
	42	1,2-Dichloroethane-d4	0.151	0.154	0.145	0.165	0.163	0.222	0.179	0.177	.....	.....	0.170	14.43	8.9590
	43	1,2-Dichloroethane	0.161	0.185	0.199	0.183	0.213	0.248	0.211	0.216	0.208	0.215	0.204	11.62	9.1546
	44	Benzene	1.142	1.185	1.217	1.068	1.241	1.407	1.159	1.175	1.140	0.852	1.159	12.05	9.1378
	45	Trichloroethene	0.285	0.304	0.301	0.255	0.318	0.366	0.309	0.310	0.308	0.306	0.306	9.05	10.4317
	46	Methylcyclohexane	0.859	0.621	0.591	0.586	0.603	0.689	0.618	0.569	0.565	0.544	0.624	14.68	10.5135
	47	1,2-Dichloropropane	0.226	0.238	0.249	0.221	0.257	0.296	0.255	0.260	0.265	0.264	0.252	8.38	10.7924
20	48	1,4-Dioxane	.....	.....	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	11.50	11.3366
	49	Bromodichloromethane	0.324	0.329	0.327	0.285	0.330	0.379	0.322	0.324	0.315	0.324	0.326	7.01	11.2328
	50	Dibromomethane	0.105	0.131	0.123	0.106	0.121	0.142	0.120	0.123	0.121	0.127	0.122	8.82	11.3104
	51	2-Chloroethyl vinyl ether	.....	0.086	0.082	0.067	0.078	0.093	0.081	0.084	0.083	0.088	0.083	8.53	11.8385
5	52	4-Methyl-2-pentanone	0.100	0.118	0.140	0.122	0.128	0.162	0.140	0.140	0.140	0.156	0.138	12.81	11.9878
	53	cis-1,3-Dichloropropene	0.304	0.382	0.381	0.344	0.412	0.484	0.403	0.403	0.393	0.401	0.391	11.87	12.3847
	54	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	12.3987
	55	Toluene-d8	.....	1.256	1.214	1.396	1.339	1.795	1.352	1.323	.....	.....	1.382	13.88	12.7034
	56	Toluene	1.590	1.707	1.754	1.517	1.759	1.984	1.602	1.595	1.431	.....	1.660	9.78	12.8413
	57	Ethyl methacrylate	0.220	0.239	0.267	0.244	0.279	0.329	0.273	0.282	0.273	0.286	0.269	11.16	13.2659
	58	trans-1,3-Dichloropropene	0.286	0.369	0.393	0.353	0.406	0.484	0.398	0.405	0.402	0.407	0.390	12.81	13.2314
	59	1,1,2-Trichloroethane	0.175	0.213	0.221	0.177	0.212	0.251	0.206	0.210	0.210	0.213	0.209	10.33	13.4830
5	60	2-Hexanone	0.101	0.101	0.110	0.129	0.127	0.143	0.121	0.118	0.119	0.112	0.118	10.99	13.5648
	61	1,3-Dichloropropane	0.306	0.356	0.372	0.341	0.384	0.455	0.376	0.381	0.372	0.376	0.372	10.10	13.9318
	62	Tetrachloroethene	0.353	0.359	0.357	0.276	0.357	0.424	0.350	0.351	0.355	0.346	0.352	9.93	13.9863
	63	Dibromochloromethane	0.230	0.272	0.251	0.222	0.267	0.308	0.251	0.260	0.257	0.264	0.258	9.14	14.3323
	64	2-Ethyl-1-butanol	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.000	0.00	0.0000
	65	1,2-Dibromoethane	0.144	0.177	0.181	0.169	0.204	0.237	0.197	0.200	0.197	0.200	0.191	12.90	14.6720
	66	Chlorohexane	0.670	0.778	0.743	0.564	0.693	0.768	0.646	0.687	0.657	0.559	0.676	11.14	15.0253
	67	Chlorobenzene	0.826	0.919	0.932	0.766	0.880	1.028	0.836	0.896	0.827	0.727	0.907	11.82	15.4037
	68	1,1,1,2-Tetrachloroethane	0.307	0.278	0.292	0.259	0.311	0.363	0.303	0.313	0.317	0.318	0.306	6.38	15.4945
	69	Ethylbenzene	1.740	1.913	1.933	1.640	1.902	2.174	1.725	1.690	1.405	.....	1.791	11.63	15.5135
2	70	m-Xylene & p-Xylene	1.330	1.430	1.439	1.195	1.404	1.587	1.268	1.273	.....	.....	1.341	11.29	15.6470
	71	o-Xylene	1.448	1.383	1.375	1.195	1.408	1.595	1.279	1.285	1.192	.....	1.351	9.54	16.3665
	72	Styrene	0.829	1.024	0.991	0.868	1.034	1.199	0.974	1.001	0.985	0.753	0.966	12.84	16.4382
	73	Isopropylbenzene	1.968	1.718	1.825	1.532	1.879	2.099	1.680	1.656	1.407	.....	1.752	12.29	16.9858
	74	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	19.2849
	75	Bromoform	.....	0.283	0.271	0.243	0.299	0.362	0.323	0.334	0.348	0.346	0.312	12.92	16.9744
	76	1,1,2,2-Tetrachloroethane	0.405	0.509	0.504	0.488	0.577	0.665	0.562	0.577	0.582	0.569	0.544	12.96	17.2729
	77	4-Bromofluorobenzene	.....	.....	.....	0.014	0.977	1.384	1.110	1.098	.....	.....	1.116	14.29	17.3715
	78	1,2,3-Trichloropropane	0.101	0.141	0.150	0.121	0.138	0.159	0.139	0.145	0.151	0.148	0.139	12.14	17.4935
	79	trans-1,4-Dichloro-2-butene	0.094	0.142	0.125	0.101	0.125	0.152	0.135	0.133	0.141	0.141	0.129	14.30	17.6039
	80	n-Propylbenzene	5.137	6.171	6.055	4.669	5.841	6.731	5.433	4.652	.....	.....	5.578	13.24	17.5990
	81	Bromobenzene	0.634	0.918	0.902	0.707	0.916	1.161	0.908	0.911	0.958	0.949	0.891	14.69	17.7377
	82	1,3,5-Trimethylbenzene	3.143	3.706	3.682	2.815	3.675	4.660	3.457	3.362	3.064	.....	3.477	11.80	17.8560
	83	2-Chlorotoluene	3.090	3.614	3.632	2.745	3.697	3.905	3.236	3.238	2.920	.....	3.364	10.35	17.8849
	84	4-Chlorotoluene	2.324	2.906	2.906	2.331	2.887	3.743	3.035	3.038	2.855	.....	2.988	14.63	17.8958
	85	tert-Butylbenzene	0.630	0.757	0.786	0.629	0.803	0.950	0.784	0.792	0.811	0.796	0.774	11.90	18.2769
	86	1,2,4-Trimethylbenzene	3.043	3.762	3.599	2.871	3.600	4.152	3.353	3.317	2.905	.....	3.400	12.47	18.3243
	87	sec-Butylbenzene	4.871	5.112	5.085	3.997	5.048	5.881	4.619	4.116	.....	.....	4.841	12.46	18.5320
	88	p-Isopropyltoluene	4.019	4.040	4.202	3.202	4.130	4.700	3.655	3.530	2.990	.....	3.830	13.96	18.6993
	89	1,3-Dichlorobenzene	1.474	1.880	1.741	1.477	1.863	2.161	1.769	1.738	1.775	1.453	1.733	12.70	18.7916
	90	1,2,3-Trimethylbenzene	2.874	3.070	3.115	2.655	3.211	3.683	2.922	2.909	2.606	.....	3.005	10.74	18.8709
	91	1,4-Dichlorobenzene	1.387	1.700	1.690	1.461	1.770	2.115	1.725	1.725	1.726	1.426	1.673	12.63	18.9188
	92	n-Butylbenzene	4.237	3.888	3.857	2.950	3.958	4.515	3.512	3.233	.....	.....	3.769	13.67	19.1421
	93	1,2-Dichlorobenzene	1.554	1.492	1.421	1.251	1.491	1.743	1.402	1.416	1.388	1.300	1.413	10.06	19.3169
	94	1,2-Dibromo-3-chloropropane	0.110	0.097	0.081	0.078	0.079	0.087	0.071	0.077	0.075	0.084	0.085	13.87	20.0781
	95	1,2,4-Trichlorobenzene	0.885	0.778	0.704	0.647	0.845	0.966	0.848	0.791	0.836	0.913	0.820	11.66	20.9049
	96	Hexachlorobutadiene	0.645	0.478	0.498	0.367	0.543	0.600	0.452	0.389	0.433	.....	0.489	19.00	21.0344
	97	Naphthalene	1.235	1.033	1.005	0.982	1.130	1.343	1.178	1.159	1.199	1.245	1.149	8.32	21.1684
	98	1,2,3-Trichlorobenzene	0.694	0.529	0.518	0.485	0.606	0.724	0.648	0.621	0.650	0.703	0.618	13.43	21.4138

Spike Amount = Nominal Amount * M
Ave_%RSD : 11.3 Max_%RSD : 19

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = x0 + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
96	Hexachlorobutadiene	0.00657	0.43601	0.9902*

Use Quadratic Regression of inv conc w.f. for comps of linear reg of inv conc w.f. with CCF < .995
Resp_Ratio = x0 + x1 * Amt_Ratio + x2 * Amt_Ratio * Amt_Ratio

IDX	Parameter	x0	x1	x2	CCF2
96	Hexachlorobutadiene	0.00094	0.50848	-0.02062	0.9928*

SG 11/15/24

PROGRAM: ICALMAX
Input: R:\CAL\8260\2024\VO06J19\RIW364.ICL Output: R:\CAL\8260\2024\VO06J19\RIW364.MAX

IDX	Parameter	x0	x1	x2	CCF2	MaxMinAmtRatio	MaxMinRespRatio	MaxMinRRF	MaxMinConc
96	Hexachlorobutadiene	0.00094	0.50848	-0.02062	0.9928*	12.32978	3.13566	0.25432	123.3

54
11/15/24

Instrument ID :06
Beginning DateTime :10/19/24 15:59
Spike Units :PPB
IC File :RIW364

Column Spec :RTX502.2 ID :0.25MM
Ending DateTime :10/19/24 19:57
HPChem Method :V006J19

M	IDX	Parameters	3 15:59 RIW359	5 16:26 RIW360	1 16:53 RIW361	2 17:19 RIW362	5 17:45 RIW363	10 18:11 RIW364	20 18:38 RIW365	30 19:04 RIW366	50 19:30 RIW367	100 19:57 RIW368	AvDRec	% RSD	Av Rt M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	9.8425
	2	Dichlorodifluoromethane	124	93	89	99	101	119	99	91	93	90	9.1	12.33	1.5731
	3	Chloromethane	76	89	92	103	107	123	106	99	104	101	8.7	12.43	1.7923
	4	Vinyl chloride	------	81	93	100	108	130	106	92	91	------	11	14.95	1.8999
	5	Bromomethane	120	78	87	91	102	120	103	95	102	103	9.8	13.23	2.3335
	6	Chloroethane	82	84	101	97	104	123	105	97	103	104	7.8	11.28	2.4204
	7	Dichlorofluoromethane	115	100	103	88	101	118	95	93	94	92	7.5	10.00	2.4599
	8	Trichlorofluoromethane	106	81	85	94	102	122	106	100	104	100	8.1	11.49	2.6910
5	9	Acrolein	------	100	110	100	100	120	90	100	100	110	5.6	5.97	3.2040
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	123	92	96	77	99	122	96	97	100	97	9.2	13.61	3.2555
5	11	Acetone	------	97	113	100	97	106	97	94	97	100	4.3	6.01	3.2902
	12	1,1-Dichloroethene	117	96	98	82	101	119	97	97	96	96	7.5	10.84	3.4380
25	13	tert-Butyl alcohol	------	------	89	67	100	111	100	100	------	------	9.3	14.67	3.5860
	14	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	15	Methyl acetate	105	105	105	100	95	100	100	90	95	105	3.8	4.29	3.9643
	16	Iodomethane	104	94	97	87	104	120	99	98	98	99	5.6	8.54	3.8637
	17	Allyl chloride	99	97	95	85	99	117	98	101	103	106	5.4	8.24	3.9874
	18	Methylene chloride	110	97	96	86	101	117	98	98	98	100	5.5	8.33	4.1573
	19	Carbon disulfide	------	------	91	94	100	126	98	91	------	------	8.7	13.30	4.1313
5	20	Acrylonitrile	93	85	93	98	102	117	102	102	105	107	6.8	8.82	4.3984
	21	tert-Butyl methyl ether (MTBE)	101	95	97	84	104	120	99	100	98	104	5.5	9.00	4.4425
	22	trans-1,2-Dichloroethene	124	98	96	81	100	115	96	97	97	97	7.8	11.64	4.6564
	23	Isopropyl ether (DIPE)	90	97	95	89	105	121	102	102	100	99	6	9.09	5.3253
	24	Vinyl acetate	------	76	80	93	102	122	108	105	107	107	11.3	14.53	5.5574
	25	1,1-Dichloroethane	104	97	101	84	101	117	98	99	99	99	4.8	8.18	5.4784
25	26	2-Butanol	------	------	------	78	89	100	100	100	100	100	4.8	10.55	6.0378
	27	tert-Butyl ethyl ether (ETBE)	89	97	102	91	102	115	97	98	97	110	5.9	7.94	6.2250
5	28	2-Butanone	------	65	98	92	104	117	104	104	106	110	9.8	14.55	6.5010
	29	2,2-Dichloropropane	------	105	102	93	105	125	100	96	93	81	8.2	11.90	6.7504
	30	cis-1,2-Dichloroethene	105	95	100	84	100	117	98	100	100	103	4.9	8.13	6.8772
	31	Chloroform	116	106	100	83	98	114	96	96	96	98	6.8	9.43	7.2840
	32	Bromochloromethane	89	96	96	86	102	119	100	103	102	109	6.8	9.49	7.6615
	33	Tetrahydrofuran	------	100	127	93	100	97	90	93	93	107	7.4	10.62	7.7849
5	34	tert-Amyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	35	Dibromofluoromethane	------	90	84	97	93	128	105	102	------	------	10.2	14.43	7.8082
	36	1,1,1-Trichloroethane	116	100	98	82	100	117	97	98	97	94	6.8	10.25	8.2088
	37	Cyclohexane	122	92	94	93	99	118	102	93	94	92	8.5	11.11	8.1900
	38	2,2,4-Trimethylpentane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	39	1,1-Dichloropropene	111	95	103	80	96	114	98	99	101	102	6.1	9.27	8.5821
	40	Carbon tetrachloride	105	96	98	83	104	120	99	101	99	98	5.7	9.00	8.7562
	41	tert-Amyl methyl ether (TAME)	95	96	100	89	102	118	100	101	98	102	4.5	7.54	8.9323
	42	1,2-Dichloroethane-d4	89	91	85	97	96	131	105	104	------	------	10.3	14.43	8.9590
	43	1,2-Dichloroethane	79	91	98	90	104	122	103	106	102	105	8.6	11.62	9.1546
	44	Benzene	99	102	105	92	107	121	100	101	98	74	7.5	12.05	9.1378
	45	Trichloroethene	93	99	98	83	104	120	101	101	101	100	5.2	9.05	10.4317
	46	Methylcyclohexane	138	100	95	94	97	110	99	91	91	87	9.5	14.68	10.5135
	47	1,2-Dichloropropane	90	94	99	88	102	117	101	103	101	105	5.9	8.38	10.7924
20	48	1,4-Dioxane	------	------	124	94	97	104	86	95	96	104	0	11.50	11.3366
	49	Bromodichloromethane	99	101	100	87	101	116	99	99	97	99	3.8	7.01	11.2328
	50	Dibromomethane	86	107	101	87	99	116	98	101	99	104	6	8.82	11.3104
	51	2-Chloroethyl vinyl ether	------	104	99	81	94	112	98	101	100	106	5.8	8.53	11.9395
5	52	4-Methyl-2-pentanone	72	86	101	112	109	124	105	102	101	90	10.6	14.61	11.9878
	53	cis-1,3-Dichloropropene	78	98	97	88	105	124	103	103	101	103	7.7	11.87	12.3044
	54	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	12.3387
	55	Toluene-d8	------	91	88	101	97	130	98	96	------	------	8.6	13.88	12.7034
	56	Toluene	96	103	106	91	106	120	97	96	86	------	7.6	9.78	12.8413
	57	Ethyl methacrylate	82	89	99	91	104	122	101	105	101	106	8	11.16	13.2859
	58	trans-1,3-Dichloropropene	73	95	101	91	104	124	102	104	103	104	8.4	12.81	13.2314
	59	1,1,2-Trichloroethane	84	102	106	85	101	120	99	100	100	102	6.5	10.33	13.4830
5	60	2-Hexanone	86	86	93	109	108	121	103	100	101	95	8.2	10.99	13.5648
	61	1,3-Dichloropropane	82	96	100	92	103	122	101	102	100	101	6	10.10	13.9318
	62	Tetrachloroethene	100	102	100	78	101	120	99	100	101	98	4.9	9.93	13.9863
	63	Dibromochloromethane	89	105	97	86	103	119	97	101	100	102	6.2	9.14	14.3323
	64	2-Ethyl-1-butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	65	1,2-Dibromoethane	75	93	95	88	107	124	103	105	103	105	9.5	12.90	14.6720
	66	Chlorohexane	99	115	110	83	103	114	96	102	97	83	8.5	11.14	15.0223
	67	Chlorobenzene	91	101	102	88	108	124	101	102	102	80	8.2	11.92	15.4037
	68	1,1,1,2-Tetrachloroethane	100	91	95	85	102	121	99	102	102	104	6.1	9.38	15.4945
	69	Ethylbenzene	97	107	108	92	106	121	96	94	78	------	9.4	12.23	15.5132
2	70	m-Xylene & p-Xylene	99	107	107	89	105	118	95	80	------	------	9.3	11.99	15.6470
	71	o-Xylene	107	102	102	88	104	118	95	95	88	------	7.5	9.54	16.3685
	72	Styrene	86	106	103	90	107	124	101	104	102	78	9.3	12.84	16.4382
	73	Isopropylbenzene	112	98	104	87	107	120	96	95	80	------	9.7	12.29	16.9858
	74	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	19.2849
	75	Bromoform	------	91	87	78	96	116	104	107	112	111	10.9	12.92	16.9744
	76	1,1,2,2-Tetrachloroethane	74	94	93	90	106	122	103	106	107	105	9.9	12.96	17.2729
	77	4-Bromofluorobenzene	------	------	------	91	88	124	99	98	------	------	9.6	14.29	17.3715
	78	1,2,3-Trichloropropane	73	101	108	87	99	114	100	104	109	106	8.4	12.14	17.4935
	79	trans-1,4-Dichloro-2-butene	73	110	97	78	97	118	105	103	109	109	10.9	14.30	17.6039
	80	n-Propylbenzene	92	110	109	84	105	121	97	83	------	------	10.9	13.24	17.5990
	81	Bromobenzene	71	103	102	79	103	124	102	102	108	107	9.9	14.69	17.6377
	82	1,3,5-Trimethylbenzene	90	107	106	84	106	123	99	97	88	------	8.1	11.80	17.8180
	83	2-Chlorotoluene	92	107	108	87	110	116	96	96	88	------	9.2	10.55	17.8310
	84	4-Chlorotoluene	80	101	101	81	100	129	105	105	99	------	8.9	14.25	17.8959
	85	tert-Butylbenzene	81	98	102	81	104	123	101	102	105	103	7.9	11.90	18.2789
	86	1,2,4-Trimethylbenzene	90	111	106	84	106	122	99	98	85	------	9.9	12.47	18.3243
	87	sec-Butylbenzene	101	106	105	83	104	121	95	85	------	------	9.3	12.46	18.5320
	88	p-isopropyltoluene	105	105	110	84	108	123	95	92	78	------	11.3	13.96	18.6993
	89	1,3-Dichlorobenzene	85	108	100	85	108	125	102	100	102	84	9.2	12.70	18.7916
	90	1,2,3-Trimethylbenzene	96	102	104	88	107	123	97	97	87	------	7.8	10.74	18.8709
	91	1,4-Dichlorobenzene	83	102	101	87	106	126	103	103	103	85	8.9	12.63	18.9188
	92	n-Butylbenzene	112	103	102	78	105	120	93	86	------	------	10.7	13.67	19.1421
	93	1,2-Dichlorobenzene	89	101	103	89	106	123	99	100	98	92	6.6	10.06	19.3109
	94	1,2-Dibromo-3-chloropropane	129	114	107	92	93	102	84	91	88	99	10.7	13.87	20.0781
	95	1,2,4-Trichlorobenzene	108	94	86	79	102	118	103	96	102	111	8.9	11.66	20.9049
	96	Hexachlorobutadiene	120	90	97	72	109	124	98	85	106	------	14.9	19.00	21.0344
	97	Naphthalene	107	90	87	94	98	117	102	101	104	108	8.1	10.32	21.1684
	98	1,2,3-Trichlorobenzene	112	86	84	78	98	117	105	100	105	114	10.8	13.43	21.4138

For 8260 C
SCA
11/15/24

Compound List Report 06

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
Total Cpnds : 98

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-DIFLUOROBENZENE	114	9.84	1.000	A	1	A	B
2	T	Dichlorodifluoromethane	85	1.56	0.159	A	1	A	B
3	T	Chloromethane	50	1.80	0.183	A	1	A	B
4	T	Vinyl chloride	62	1.90	0.193	A	1	A	B
5	T	Bromomethane	94	2.33	0.237	A	1	A	B
6	T	Chloroethane	64	2.41	0.245	A	1	A	B
7	T	Dichlorofluoromethane	67	2.45	0.249	A	1	A	B
8	T	Trichlorofluoromethane	101	2.69	0.273	A	1	A	B
9	T	Acrolein	56	3.19	0.325	A	1	A	B
10	T	1,1,2-Trichloro-1,2,2-trifluor	151	3.26	0.331	A	1	A	B
11	T	Acetone	43	3.30	0.335	A	1	A	B
12	T	1,1-Dichloroethene	61	3.45	0.350	A	2	A	B
13	T	tert-Butyl alcohol	59	3.59	0.365	A	1	A	B
14	T	Acetonitrile	41	0.00	0.000	A	2	A	B
15	T	Methyl acetate	74	3.97	0.403	A	1	A	B
16	T	Iodomethane	142	3.87	0.393	A	1	A	B
17	T	Allyl chloride	76	3.99	0.406	A	1	A	B
18	T	Methylene chloride	49	4.16	0.423	A	2	A	B
19	T	Carbon disulfide	76	4.14	0.420	A	1	A	B
20	T	Acrylonitrile	53	4.39	0.446	A	2	A	B
21	T	tert-Butyl methyl ether (MTBE)	73	4.43	0.450	A	1	A	B
22	T	trans-1,2-Dichloroethene	96	4.66	0.474	A	1	A	B
23	T	Isopropyl ether (DIPE)	45	5.33	0.542	A	1	A	B
24	T	Vinyl acetate	43	5.56	0.565	A	1	A	B
25	T	1,1-Dichloroethane	63	5.48	0.557	A	2	A	B
26	T	2-Butanol	45	6.05	0.614	A	1	A	B
27	T	tert-Butyl ethyl ether (ETBE)	59	6.21	0.631	A	1	A	B
28	T	2-Butanone	43	6.51	0.661	A	1	A	B
29	T	2,2-Dichloropropane	77	6.76	0.687	A	2	A	B
30	T	cis-1,2-Dichloroethene	96	6.89	0.700	A	1	A	B
31	T	Chloroform	83	7.28	0.740	A	2	A	B
32	T	Bromochloromethane	130	7.66	0.778	A	1	A	B
33	T	Tetrahydrofuran	42	7.76	0.789	A	2	A	B
34	T	tert-Amyl alcohol	59	8.23	0.836	A	1	A	B
35	S	Dibromofluoromethane	111	7.81	0.793	A	1	A	B
36	T	1,1,1-Trichloroethane	97	8.21	0.834	A	2	A	B
37	T	Cyclohexane	84	8.19	0.832	A	1	A	B
38	T	2,2,4-Trimethylpentane	57	8.56	0.870	A	1	A	B
39	T	1,1-Dichloropropene	110	8.58	0.872	A	1	A	B
40	T	Carbon tetrachloride	119	8.75	0.889	A	1	A	B
41	T	tert-Amyl methyl ether (TAME)	73	8.94	0.908	A	2	A	B
42	S	1,2-Dichloroethane-d4	65	8.96	0.910	A	1	A	B
43	T	1,2-Dichloroethane	62	9.15	0.930	A	1	A	B
44	T	Benzene	78	9.13	0.928	A	2	A	B
45	T	Trichloroethene	130	10.43	1.060	A	3	A	B
46	T	Methylcyclohexane	83	10.51	1.068	A	2	A	B
47	T	1,2-Dichloropropane	63	10.79	1.096	A	1	A	B
48	T	1,4-Dioxane	88	11.33	1.151	A	1	A	B
49	T	Bromodichloromethane	83	11.23	1.141	A	1	A	B
50	T	Dibromomethane	93	11.31	1.149	A	2	A	B
51	T	2-Chloroethyl vinyl ether	63	11.94	1.213	A	1	A	B
52	T	4-Methyl-2-pentanone	43	11.98	1.217	A	3	A	B
53	T	cis-1,3-Dichloropropene	75	12.30	1.249	A	3	A	B
54	I	CHLOROBENZENE-D5	117	15.34	1.000	A	2	A	B
55	S	Toluene-d8	98	12.69	0.828	A	1	A	B
56	T	Toluene	91	12.84	0.837	A	1	A	B
57	T	Ethyl methacrylate	69	13.28	0.866	A	1	A	B
58	T	trans-1,3-Dichloropropene	75	13.24	0.863	A	1	A	B
59	T	1,1,2-Trichloroethane	97	13.49	0.880	A	2	A	B
60	T	2-Hexanone	43	13.55	0.884	A	1	A	B
61	T	1,3-Dichloropropane	76	13.93	0.908	A	1	A	B

SC 11/15/24

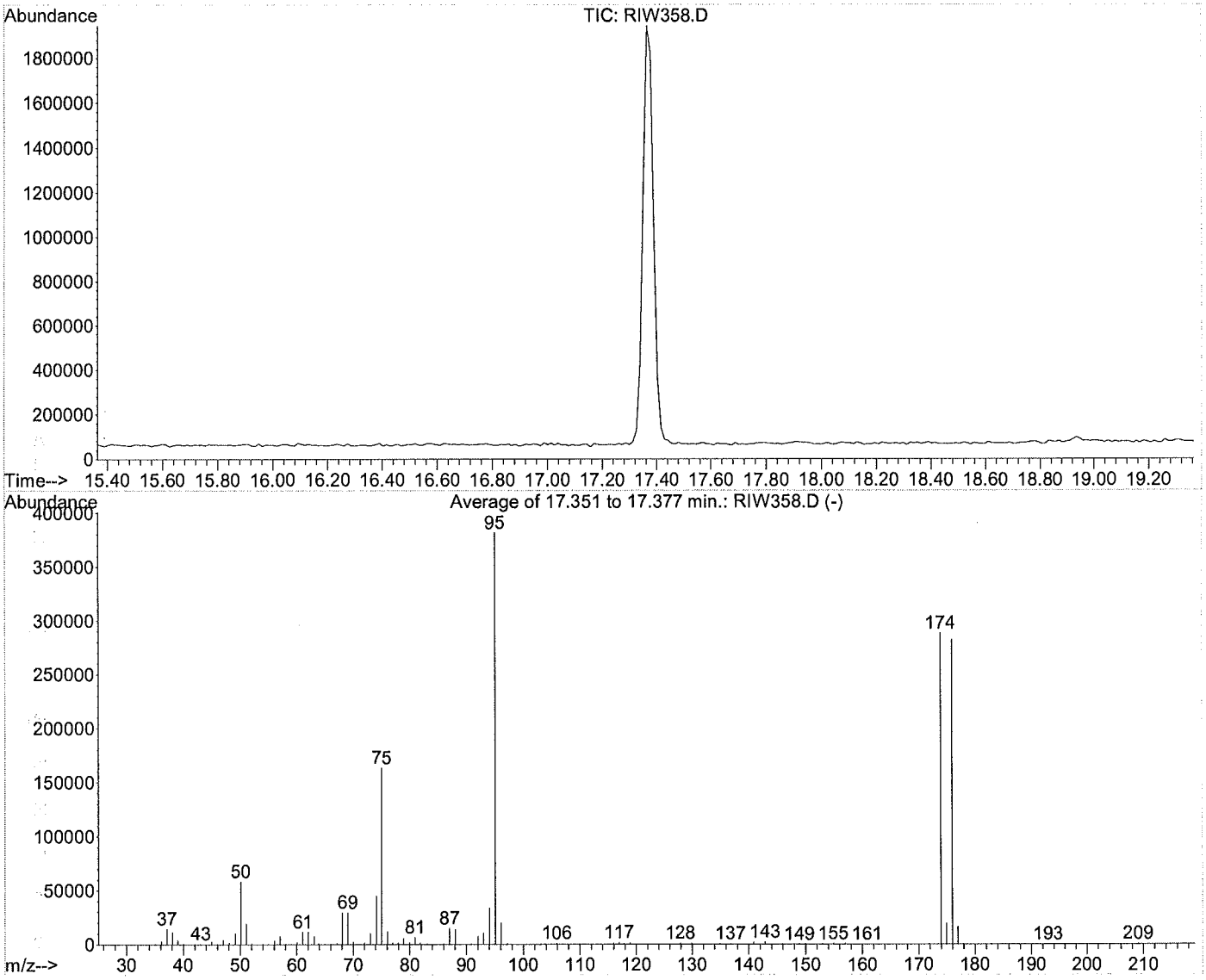
62	T	Tetrachloroethene	164	13.99	0.912	A	3	A	B
63	T	Dibromochloromethane	129	14.33	0.934	A	1	A	B
64	T	2-Ethyl-1-butanol	43	0.00	0.000	A	3	A	B
65	T	1,2-Dibromoethane	107	14.67	0.956	A	1	A	B
66	T	1-Chlorohexane	91	15.02	0.979	A	1	A	B
67	T	Chlorobenzene	112	15.40	1.004	A	1	A	B
68	T	1,1,1,2-Tetrachloroethane	131	15.49	1.010	A	1	A	B
69	T	Ethylbenzene	91	15.51	1.011	A	1	A	B
70	T	m-Xylene & p-Xylene	91	15.65	1.020	A	1	A	B
71	T	o-Xylene	91	16.36	1.067	A	1	A	B
72	T	Styrene	104	16.44	1.072	A	2	A	B
73	T	Isopropylbenzene	105	16.99	1.107	A	3	A	B
74	I	1,2-DICHLOROBENZENE-D4	152	19.28	1.000	A	1	A	B
75	T	Bromoform	173	16.97	0.880	A	2	A	B
76	T	1,1,2,2-Tetrachloroethane	83	17.27	0.896	A	1	A	B
77	S	4-Bromofluorobenzene	95	17.38	0.901	A	2	A	B
78	T	1,2,3-Trichloropropane	110	17.49	0.907	A	1	A	B
79	T	trans-1,4-Dichloro-2-butene	53	17.60	0.912	A	1	A	B
80	T	n-Propylbenzene	91	17.60	0.912	A	2	A	B
81	T	Bromobenzene	156	17.64	0.915	A	1	A	B
82	T	1,3,5-Trimethylbenzene	105	17.82	0.924	A	2	A	B
83	T	2-Chlorotoluene	91	17.83	0.925	A	1	A	B
84	T	4-Chlorotoluene	91	17.90	0.928	A	1	A	B
85	T	tert-Butylbenzene	134	18.29	0.948	A	1	A	B
86	T	1,2,4-Trimethylbenzene	105	18.32	0.950	A	1	A	B
87	T	sec-Butylbenzene	105	18.53	0.961	A	1	A	B
88	T	p-Isopropyltoluene	119	18.70	0.970	A	2	A	B
89	T	1,3-Dichlorobenzene	146	18.79	0.974	A	2	A	B
90	T	1,2,3-Trimethylbenzene	105	18.87	0.978	A	2	A	B
91	T	1,4-Dichlorobenzene	146	18.92	0.981	A	2	A	B
92	T	n-Butylbenzene	91	19.14	0.993	A	2	A	B
93	T	1,2-Dichlorobenzene	146	19.31	1.001	A	1	A	B
94	T	1,2-Dibromo-3-chloropropane	157	20.08	1.041	A	1	A	B
95	T	1,2,4-Trichlorobenzene	180	20.91	1.084	A	2	A	B
96	T	Hexachlorobutadiene	225	21.04	1.091	Q	2	A	B
97	T	Naphthalene	128	21.17	1.098	A	1	A	B
98	T	1,2,3-Trichlorobenzene	180	21.41	1.110	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

VO06J19.M Thu Nov 14 17:17:50 2024

11/15/24

Data File : D:\HPCHEM\1\DATA\24J19\RIW358.D Vial: 1
Acq On : 19 Oct 2024 3:14 pm Operator: DHguye
Sample : BFB06J17 Inst : 06
Misc : T/CHK Multiplr: 1.00
MS Integration Params: RTE.P
Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260



AutoFind: Scans 831, 832, 833; Background Corrected with Scan 825

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.3	58299	PASS
75	95	30	60	42.8	163520	PASS
95	95	100	100	100.0	381632	PASS
96	95	5	9	5.2	19848	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	75.6	288384	PASS
175	174	5	9	6.7	19404	PASS
176	174	95	101	98.0	282517	PASS
177	176	5	9	5.8	16322	PASS

RIW358.D VO06J19.M Wed Nov 13 17:29:50 2024

SW 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW359.D Vial: 2
Acq On : 19 Oct 2024 3:59 pm Operator: DHguye
Sample : VO06J191 0.03/0.15uL Inst : 06
Misc : 0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	3873628	10.00	ug/l		0.00
54) CHLOROBENZENE-D5	15.34	117	2437247	10.00	ug/l		0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1130716	10.00	ug/l		0.00
System Monitoring Compounds							
35) Dibromofluoromethane	7.83	111	21331	0.22	ug/l		0.02
Spiked Amount 10.000			Recovery = 2.20%				
42) 1,2-Dichloroethane-d4	8.96	65	17510	0.27	ug/l		0.00
Spiked Amount 10.000			Recovery = 2.70%				
55) Toluene-d8	12.72	98	76024	0.23	ug/l		0.02
Spiked Amount 10.000			Recovery = 2.30%				
77) 4-Bromofluorobenzene	17.38	95	24652	0.20	ug/l		0.00
Spiked Amount 10.000			Recovery = 2.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.58	85	51431	0.37	ug/l		83
3) Chloromethane	1.80	50	30715	0.23	ug/l		88
4) Vinyl chloride	1.90	62	30410	0.28	ug/l		100
5) Bromomethane	2.33	94	35087	0.36	ug/l	#	63
6) Chloroethane	2.41	64	18236	0.25	ug/l		82
7) Dichlorofluoromethane	2.47	67	62543	0.35	ug/l		89
8) Trichlorofluoromethane	2.71	101	45844	0.32	ug/l		96
9) Acrolein	3.22	56	11651	2.91	ug/l		100
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	30592	0.37	ug/l		89
11) Acetone	3.30	43	30095	2.51	ug/l	#	34
12) 1,1-Dichloroethene	3.45	61	61738	0.35	ug/l		93
13) tert-Butyl alcohol	3.59	59	23677	7.15	ug/l		78
15) Methyl acetate	3.99	74	2562	0.31	ug/l	#	53
16) Iodomethane	3.87	142	56115	0.31	ug/l		93
17) Allyl chloride	3.99	76	20902	0.30	ug/l	#	25
18) Methylene chloride	4.16	49	42462	0.33	ug/l		93
19) Carbon disulfide	4.14	76	80670	0.37	ug/l		99
20) Acrylonitrile	4.41	53	22306	1.39	ug/l		92
21) tert-Butyl methyl ether (M	4.45	73	56355	0.30	ug/l		65
22) trans-1,2-Dichloroethene	4.66	96	48646	0.37	ug/l		91
23) Isopropyl ether (DIPE)	5.33	45	93506	0.27	ug/l		97
24) Vinyl acetate	5.59	43	19648	0.16	ug/l		98
25) 1,1-Dichloroethane	5.48	63	61147	0.31	ug/l		96
26) 2-Butanol	6.11	45	9436	2.84	ug/l	#	60
27) tert-Butyl ethyl ether (ET	6.24	59	68637	0.27	ug/l		96
28) 2-Butanone	6.55	43	24550	1.21	ug/l		93
29) 2,2-Dichloropropane	6.76	77	49735	0.43	ug/l		86
30) cis-1,2-Dichloroethene	6.89	96	39814	0.31	ug/l		97
31) Chloroform	7.28	83	67569	0.35	ug/l		97
32) Bromochloromethane	7.66	130	14411	0.27	ug/l		69
33) Tetrahydrofuran	7.83	42	7407	0.64	ug/l	#	51
36) 1,1,1-Trichloroethane	8.21	97	54364	0.35	ug/l		97
37) Cyclohexane	8.21	84	71226	0.37	ug/l		83
39) 1,1-Dichloropropene	8.58	110	19206	0.34	ug/l		91
40) Carbon tetrachloride	8.77	119	39781	0.31	ug/l		95
41) tert-Amyl methyl ether (TA	8.94	73	62094	0.29	ug/l		99

(#) = qualifier out of range (m) = manual integration
RIW359.D VO06J19.M Thu Nov 14 17:14:48 2024

11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW359.D Vial: 2
Acq On : 19 Oct 2024 3:59 pm Operator: DHguye
Sample : VO06J191 0.03/0.15uL Inst : 06
Misc : 0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	1,2-Dichloroethane	9.17	62	18661	0.24	ug/l		74
44)	Benzene	9.15	78	132746	0.30	ug/l		98
45)	Trichloroethene	10.45	130	33073	0.28	ug/l		93
46)	Methylcyclohexane	10.51	83	99852	0.41	ug/l		98
47)	1,2-Dichloropropane	10.81	63	26285	0.27	ug/l		95
48)	1,4-Dioxane	11.35	88	2805	7.92	ug/l		71
49)	Bromodichloromethane	11.25	83	37681	0.30	ug/l		86
50)	Dibromomethane	11.31	93	12203	0.26	ug/l		86
51)	2-Chloroethyl vinyl ether	11.96	63	4725	0.15	ug/l	#	17
52)	4-Methyl-2-pentanone	12.00	43	58008	1.08	ug/l		95
53)	cis-1,3-Dichloropropene	12.32	75	35337	0.23	ug/l		95
56)	Toluene	12.84	91	116264	0.29	ug/l		97
57)	Ethyl methacrylate	13.30	69	16119	0.25	ug/l		87
58)	trans-1,3-Dichloropropene	13.24	75	20882	0.22	ug/l		99
59)	1,1,2-Trichloroethane	13.49	97	12765	0.25	ug/l		92
60)	2-Hexanone	13.60	43	37049	1.29	ug/l		98
61)	1,3-Dichloropropane	13.93	76	22374	0.25	ug/l		92
62)	Tetrachloroethene	14.00	164	25839	0.30	ug/l		98
63)	Dibromochloromethane	14.35	129	16791	0.27	ug/l		100
65)	1,2-Dibromoethane	14.67	107	10551	0.23	ug/l		89
66)	1-Chlorohexane	15.02	91	48966	0.30	ug/l		83
67)	Chlorobenzene	15.40	112	60407	0.27	ug/l		93
68)	1,1,1,2-Tetrachloroethane	15.49	131	22479	0.30	ug/l		89
69)	Ethylbenzene	15.52	91	127242	0.29	ug/l		99
70)	m-Xylene & p-Xylene	15.65	91	194526	0.60	ug/l		91
71)	o-Xylene	16.38	91	105907	0.32	ug/l		96
72)	Styrene	16.44	104	60620	0.26	ug/l		96
73)	Isopropylbenzene	16.99	105	143883	0.34	ug/l		97
75)	Bromoform	16.97	173	5872	0.17	ug/l		85
76)	1,1,2,2-Tetrachloroethane	17.27	83	13724	0.22	ug/l		99
78)	1,2,3-Trichloropropane	17.49	110	3418	0.22	ug/l		57
79)	trans-1,4-Dichloro-2-buten	17.61	53	3194	0.22	ug/l		79
80)	n-Propylbenzene	17.61	91	174057	0.28	ug/l		96
81)	Bromobenzene	17.64	156	21503	0.21	ug/l		98
82)	1,3,5-Trimethylbenzene	17.82	105	106599	0.27	ug/l		98
83)	2-Chlorotoluene	17.83	91	104802	0.28	ug/l		91
84)	4-Chlorotoluene	17.90	91	78836	0.24	ug/l		98
85)	tert-Butylbenzene	18.28	134	21372	0.24	ug/l		81
86)	1,2,4-Trimethylbenzene	18.32	105	103231	0.27	ug/l		95
87)	sec-Butylbenzene	18.53	105	165247	0.30	ug/l		95
88)	p-Isopropyltoluene	18.70	119	136337	0.31	ug/l		98
89)	1,3-Dichlorobenzene	18.79	146	49998	0.26	ug/l		98
90)	1,2,3-Trimethylbenzene	18.88	105	97478	0.29	ug/l		95
91)	1,4-Dichlorobenzene	18.92	146	47042	0.25	ug/l		97
92)	n-Butylbenzene	19.14	91	143713	0.34	ug/l		99
93)	1,2-Dichlorobenzene	19.31	146	42549	0.27	ug/l		89
94)	1,2-Dibromo-3-chloropropan	20.08	157	3731	0.39	ug/l		98
95)	1,2,4-Trichlorobenzene	20.91	180	30029	0.32	ug/l		97
96)	Hexachlorobutadiene	21.04	225	21772	0.36	ug/l		88
97)	Naphthalene	21.18	128	41886	0.32	ug/l		86

(#) = qualifier out of range (m) = manual integration
RIW359.D VO06J19.M Thu Nov 14 17:14:49 2024

11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW359.D Vial: 2
Acq On : 19 Oct 2024 3:59 pm Operator: DHguye
Sample : VO06J191 0.03/0.15uL Inst : 06
Misc : 0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	23548	0.34	ug/l	92

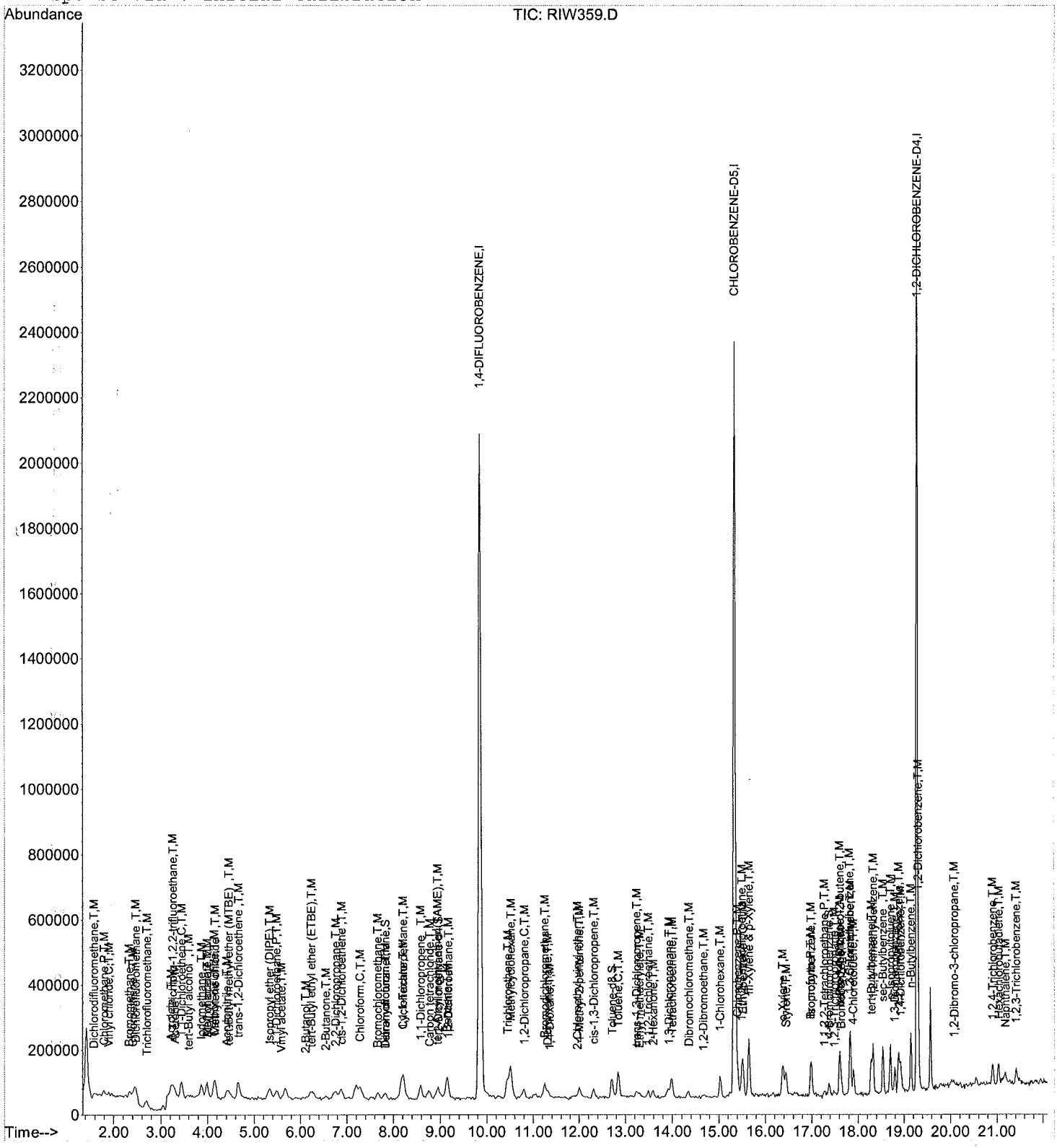
SM 11/15/24

(#) = qualifier out of range (m) = manual integration
RIW359.D VO06J19.M Thu Nov 14 17:14:49 2024

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW359.D Vial: 2
Acq On : 19 Oct 2024 3:59 pm Operator: DHguye
Sample : VO06J191 0.03/0.15uL Inst : 06
Misc : 0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW360.D Vial: 3
Acq On : 19 Oct 2024 4:26 pm Operator: DHguye
Sample : VO06J192 0.05/0.25uL Inst : 06
Misc : 0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4266421	10.00	ug/l		0.00
54) CHLOROBENZENE-D5	15.34	117	3129827	10.00	ug/l		0.00
74) 1,2-DICHLOROBENZENE-D4	19.29	152	1167572	10.00	ug/l		0.00
System Monitoring Compounds							
35) Dibromofluoromethane	7.81	111	47223	0.45	ug/l		0.00
Spiked Amount 10.000			Recovery =	4.50%			
42) 1,2-Dichloroethane-d4	8.96	65	32759	0.45	ug/l		0.00
Spiked Amount 10.000			Recovery =	4.50%			
55) Toluene-d8	12.72	98	196492	0.45	ug/l		0.02
Spiked Amount 10.000			Recovery =	4.50%			
77) 4-Bromofluorobenzene	17.38	95	57389	0.44	ug/l		0.00
Spiked Amount 10.000			Recovery =	4.40%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.58	85	70384	0.46	ug/l		98
3) Chloromethane	1.80	50	65743	0.45	ug/l		99
4) Vinyl chloride	1.90	62	48099	0.41	ug/l		98
5) Bromomethane	2.33	94	41963	0.39	ug/l		98
6) Chloroethane	2.43	64	34384	0.42	ug/l		77
7) Dichlorofluoromethane	2.47	67	100127	0.50	ug/l		86
8) Trichlorofluoromethane	2.69	101	64003	0.40	ug/l		100
9) Acrolein	3.22	56	11099	2.51	ug/l		90
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	41761	0.46	ug/l		89
11) Acetone	3.30	43	31573	2.39	ug/l		54
12) 1,1-Dichloroethene	3.45	61	92751	0.48	ug/l		97
13) tert-Butyl alcohol	3.59	59	31019	8.50	ug/l		80
15) Methyl acetate	3.97	74	4703	0.52	ug/l	#	29
16) Iodomethane	3.87	142	92708	0.47	ug/l		98
17) Allyl chloride	3.99	76	37487	0.48	ug/l		85
18) Methylene chloride	4.16	49	68393	0.48	ug/l		89
19) Carbon disulfide	4.14	76	94966	0.39	ug/l		100
20) Acrylonitrile	4.41	53	37342	2.12	ug/l		98
21) tert-Butyl methyl ether (M	4.45	73	97601	0.47	ug/l		84
22) trans-1,2-Dichloroethene	4.66	96	71102	0.49	ug/l		98
23) Isopropyl ether (DIPE)	5.33	45	184672	0.48	ug/l		99
24) Vinyl acetate	5.59	43	50219	0.38	ug/l		93
25) 1,1-Dichloroethane	5.48	63	104758	0.49	ug/l		97
26) 2-Butanol	6.09	45	17039	4.66	ug/l	#	60
27) tert-Butyl ethyl ether (ET	6.24	59	137055	0.49	ug/l		99
28) 2-Butanone	6.53	43	36460	1.64	ug/l		76
29) 2,2-Dichloropropane	6.76	77	67616	0.52	ug/l		88
30) cis-1,2-Dichloroethene	6.89	96	66197	0.47	ug/l		95
31) Chloroform	7.28	83	113317	0.53	ug/l		99
32) Bromochloromethane	7.66	130	28662	0.48	ug/l		85
33) Tetrahydrofuran	7.83	42	6344	0.50	ug/l		76
36) 1,1,1-Trichloroethane	8.21	97	85512	0.50	ug/l		97
37) Cyclohexane	8.19	84	98565	0.46	ug/l		94
39) 1,1-Dichloropropene	8.58	110	30084	0.48	ug/l		99
40) Carbon tetrachloride	8.77	119	66986	0.48	ug/l		98
41) tert-Amyl methyl ether (TA	8.94	73	114860	0.48	ug/l		96

(#) = qualifier out of range (m) = manual integration
RIW360.D VO06J19.M Thu Nov 14 17:14:58 2024

11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW360.D Vial: 3
Acq On : 19 Oct 2024 4:26 pm Operator: DHguye
Sample : VO06J192 0.05/0.25uL Inst : 06
Misc : 0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.17	62	39502	0.45	ug/l	85
44)	Benzene	9.15	78	252773	0.51	ug/l	99
45)	Trichloroethene	10.43	130	64779	0.50	ug/l	95
46)	Methylcyclohexane	10.51	83	132385	0.50	ug/l	97
47)	1,2-Dichloropropane	10.81	63	50723	0.47	ug/l	95
48)	1,4-Dioxane	11.37	88	2559	6.56	ug/l	96
49)	Bromodichloromethane	11.25	83	70219	0.50	ug/l	81
50)	Dibromomethane	11.31	93	27856	0.54	ug/l	85
51)	2-Chloroethyl vinyl ether	11.94	63	18364	0.52	ug/l	91
52)	4-Methyl-2-pentanone	12.00	43	127398	2.15	ug/l	98
53)	cis-1,3-Dichloropropene	12.32	75	81527	0.49	ug/l	98
56)	Toluene	12.84	91	267102	0.51	ug/l	96
57)	Ethyl methacrylate	13.30	69	37448	0.44	ug/l	97
58)	trans-1,3-Dichloropropene	13.24	75	57814	0.47	ug/l	87
59)	1,1,2-Trichloroethane	13.49	97	33345	0.51	ug/l	93
60)	2-Hexanone	13.57	43	78910	2.13	ug/l	98
61)	1,3-Dichloropropane	13.93	76	55694	0.48	ug/l	88
62)	Tetrachloroethene	13.99	164	56230	0.51	ug/l	98
63)	Dibromochloromethane	14.33	129	42516	0.53	ug/l	99
65)	1,2-Dibromoethane	14.69	107	27686	0.46	ug/l	100
66)	1-Chlorohexane	15.02	91	121723	0.58	ug/l	83
67)	Chlorobenzene	15.40	112	143445	0.51	ug/l	96
68)	1,1,1,2-Tetrachloroethane	15.50	131	43442	0.45	ug/l	84
69)	Ethylbenzene	15.52	91	299318	0.53	ug/l	92
70)	m-Xylene & p-Xylene	15.65	91	447450	1.07	ug/l	94
71)	o-Xylene	16.38	91	216406	0.51	ug/l	94
72)	Styrene	16.44	104	160191	0.53	ug/l	98
73)	Isopropylbenzene	16.99	105	268902	0.49	ug/l	97
75)	Bromoform	16.97	173	16530	0.45	ug/l	95
76)	1,1,2,2-Tetrachloroethane	17.27	83	29688	0.47	ug/l	95
78)	1,2,3-Trichloropropane	17.49	110	8249	0.51	ug/l	64
79)	trans-1,4-Dichloro-2-buten	17.61	53	8306	0.55	ug/l	97
80)	n-Propylbenzene	17.60	91	356754	0.55	ug/l	96
81)	Bromobenzene	17.64	156	53480	0.51	ug/l	97
82)	1,3,5-Trimethylbenzene	17.82	105	216449	0.53	ug/l	100
83)	2-Chlorotoluene	17.83	91	210967	0.54	ug/l	92
84)	4-Chlorotoluene	17.90	91	169627	0.50	ug/l	93
85)	tert-Butylbenzene	18.27	134	44167	0.49	ug/l	94
86)	1,2,4-Trimethylbenzene	18.32	105	219597	0.55	ug/l	93
87)	sec-Butylbenzene	18.53	105	298451	0.53	ug/l	97
88)	p-Isopropyltoluene	18.70	119	235836	0.53	ug/l	99
89)	1,3-Dichlorobenzene	18.79	146	109725	0.54	ug/l	100
90)	1,2,3-Trimethylbenzene	18.87	105	179201	0.51	ug/l	96
91)	1,4-Dichlorobenzene	18.92	146	99221	0.51	ug/l	99
92)	n-Butylbenzene	19.14	91	226951	0.52	ug/l	95
93)	1,2-Dichlorobenzene	19.31	146	83034	0.50	ug/l	96
94)	1,2-Dibromo-3-chloropropan	20.08	157	5654	0.57	ug/l	72
95)	1,2,4-Trichlorobenzene	20.91	180	44954	0.47	ug/l	98
96)	Hexachlorobutadiene	21.02	225	27926	0.45	ug/l	88
97)	Naphthalene	21.17	128	60425	0.45	ug/l	92

(#) = qualifier out of range (m) = manual integration

SC 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW360.D Vial: 3
Acq On : 19 Oct 2024 4:26 pm Operator: DHguye
Sample : VO06J192 0.05/0.25uL Inst : 06
Misc : 0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	30910	0.43	ug/l	88

SA

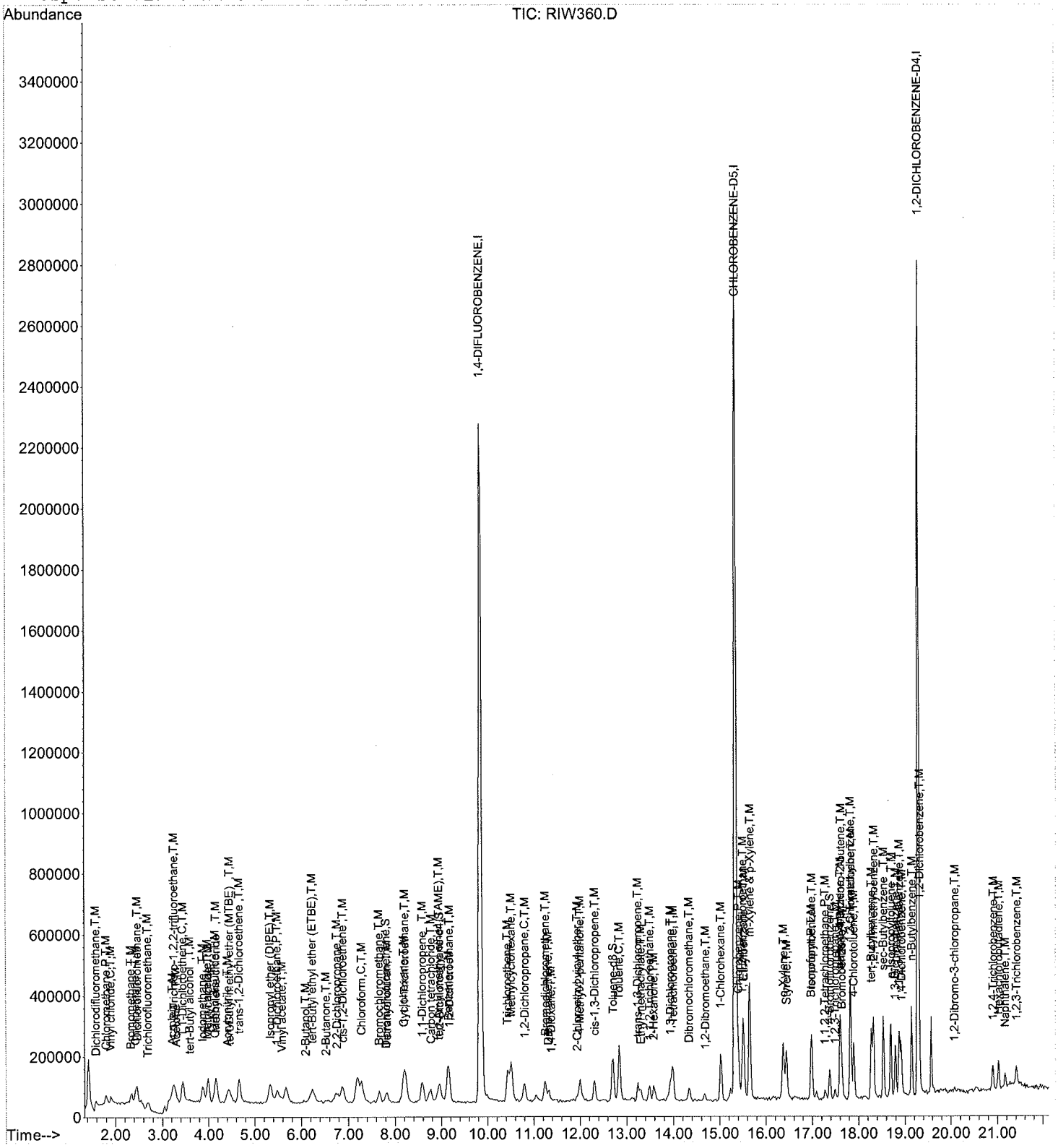
(#) = qualifier out of range (m) = manual integration
RIW360.D VO06J19.M Thu Nov 14 17:14:59 2024

11/15/24

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW360.D Vial: 3
Acq On : 19 Oct 2024 4:26 pm Operator: DHguye
Sample : VO06J192 0.05/0.25uL Inst : 06
Misc : 0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW361.D Vial: 4
Acq On : 19 Oct 2024 4:53 pm Operator: DHguye
Sample : VO06J193 0.10/0.50uL Inst : 06
Misc : 1.0ppb 8260/5.0ppb KET-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4117614	10.00	ug/l		0.00
54) CHLOROBENZENE-D5	15.34	117	3032047	10.00	ug/l		0.00
74) 1,2-DICHLOROBENZENE-D4	19.29	152	1190509	10.00	ug/l		0.00
System Monitoring Compounds							
35) Dibromofluoromethane	7.81	111	84348	0.84	ug/l		0.00
Spiked Amount 10.000			Recovery =	8.40%			
42) 1,2-Dichloroethane-d4	8.96	65	59720	0.86	ug/l		0.00
Spiked Amount 10.000			Recovery =	8.60%			
55) Toluene-d8	12.72	98	368008	0.88	ug/l		0.02
Spiked Amount 10.000			Recovery =	8.80%			
77) 4-Bromofluorobenzene	17.38	95	107382	0.81	ug/l		0.00
Spiked Amount 10.000			Recovery =	8.10%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.56	85	130198	0.89	ug/l		95
3) Chloromethane	1.78	50	131051	0.92	ug/l		98
4) Vinyl chloride	1.90	62	106350	0.93	ug/l		98
5) Bromomethane	2.33	94	89575	0.86	ug/l		87
6) Chloroethane	2.41	64	79028	1.01	ug/l		97
7) Dichlorofluoromethane	2.45	67	198554	1.03	ug/l		91
8) Trichlorofluoromethane	2.69	101	130678	0.85	ug/l		97
9) Acrolein	3.22	56	21967	5.15	ug/l		98
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	83871	0.96	ug/l		93
11) Acetone	3.30	43	71259	5.59	ug/l		92
12) 1,1-Dichloroethene	3.45	61	183291	0.98	ug/l		96
13) tert-Butyl alcohol	3.59	59	77817	22.09	ug/l		64
15) Methyl acetate	3.97	74	8963	1.04	ug/l	#	30
16) Iodomethane	3.87	142	185300	0.97	ug/l		99
17) Allyl chloride	3.99	76	71014	0.95	ug/l		91
18) Methylene chloride	4.16	49	131784	0.96	ug/l		96
19) Carbon disulfide	4.14	76	212747	0.91	ug/l		100
20) Acrylonitrile	4.41	53	78571	4.62	ug/l		98
21) tert-Butyl methyl ether (M	4.45	73	193109	0.97	ug/l		96
22) trans-1,2-Dichloroethene	4.66	96	133461	0.96	ug/l		100
23) Isopropyl ether (DIPE)	5.33	45	351793	0.95	ug/l		98
24) Vinyl acetate	5.56	43	103055	0.81	ug/l		97
25) 1,1-Dichloroethane	5.48	63	210546	1.01	ug/l		98
26) 2-Butanol	6.07	45	61337	17.37	ug/l	#	60
27) tert-Butyl ethyl ether (ET	6.24	59	278771	1.02	ug/l		97
28) 2-Butanone	6.51	43	105795	4.92	ug/l		97
29) 2,2-Dichloropropane	6.76	77	127351	1.02	ug/l		90
30) cis-1,2-Dichloroethene	6.89	96	134938	1.00	ug/l		96
31) Chloroform	7.28	83	206827	1.00	ug/l		100
32) Bromochloromethane	7.66	130	54891	0.96	ug/l		91
33) Tetrahydrofuran	7.83	42	15494	1.26	ug/l		91
36) 1,1,1-Trichloroethane	8.21	97	162381	0.98	ug/l		98
37) Cyclohexane	8.21	84	194618	0.94	ug/l		91
39) 1,1-Dichloropropene	8.58	110	62458	1.03	ug/l		96
40) Carbon tetrachloride	8.75	119	131508	0.98	ug/l		99
41) tert-Amyl methyl ether (TA	8.94	73	230072	1.00	ug/l		97

(#) = qualifier out of range (m) = manual integration
RIW361.D VO06J19.M Thu Nov 14 17:15:09 2024

11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW361.D Vial: 4
Acq On : 19 Oct 2024 4:53 pm Operator: DHguye
Sample : VO06J193 0.10/0.50uL Inst : 06
Misc : 1.0ppb 8260/5.0ppb KET-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	81847	0.98	ug/l	90
44)	Benzene	9.15	78	501292	1.05	ug/l	98
45)	Trichloroethene	10.43	130	123767	0.98	ug/l	95
46)	Methylcyclohexane	10.51	83	243451	0.95	ug/l	99
47)	1,2-Dichloropropane	10.79	63	102474	0.99	ug/l	98
48)	1,4-Dioxane	11.35	88	9364	24.86	ug/l	92
49)	Bromodichloromethane	11.23	83	134625	1.00	ug/l	95
50)	Dibromomethane	11.31	93	50824	1.01	ug/l	94
51)	2-Chloroethyl vinyl ether	11.94	63	33746	0.99	ug/l	93
52)	4-Methyl-2-pentanone	11.98	43	288212	5.03	ug/l	98
53)	cis-1,3-Dichloropropene	12.32	75	157033	0.98	ug/l	99
56)	Toluene	12.84	91	531733	1.06	ug/l	97
57)	Ethyl methacrylate	13.28	69	80865	0.99	ug/l	99
58)	trans-1,3-Dichloropropene	13.24	75	119220	1.01	ug/l	95
59)	1,1,2-Trichloroethane	13.49	97	66929	1.06	ug/l	100
60)	2-Hexanone	13.57	43	167038	4.66	ug/l	100
61)	1,3-Dichloropropane	13.93	76	112661	1.00	ug/l	90
62)	Tetrachloroethene	13.99	164	106485	1.00	ug/l	96
63)	Dibromochloromethane	14.33	129	76158	0.97	ug/l	100
65)	1,2-Dibromoethane	14.69	107	54942	0.95	ug/l	94
66)	1-Chlorohexane	15.02	91	225211	1.10	ug/l	89
67)	Chlorobenzene	15.40	112	280672	1.02	ug/l	99
68)	1,1,1,2-Tetrachloroethane	15.49	131	88670	0.95	ug/l	98
69)	Ethylbenzene	15.52	91	586046	1.08	ug/l	95
70)	m-Xylene & p-Xylene	15.65	91	872617	2.15	ug/l	97
71)	o-Xylene	16.36	91	416960	1.02	ug/l	95
72)	Styrene	16.44	104	300438	1.03	ug/l	98
73)	Isopropylbenzene	16.99	105	553411	1.04	ug/l	97
75)	Bromoform	16.97	173	32268	0.87	ug/l	92
76)	1,1,2,2-Tetrachloroethane	17.27	83	60024	0.93	ug/l	96
78)	1,2,3-Trichloropropane	17.49	110	17809	1.07	ug/l	89
79)	trans-1,4-Dichloro-2-buten	17.61	53	14900	0.97	ug/l	94
80)	n-Propylbenzene	17.60	91	720909	1.09	ug/l	96
81)	Bromobenzene	17.65	156	107690	1.02	ug/l	97
82)	1,3,5-Trimethylbenzene	17.82	105	438322	1.06	ug/l	97
83)	2-Chlorotoluene	17.83	91	432448	1.08	ug/l	89
84)	4-Chlorotoluene	17.90	91	345987	1.01	ug/l	96
85)	tert-Butylbenzene	18.27	134	93567	1.02	ug/l	97
86)	1,2,4-Trimethylbenzene	18.32	105	428419	1.06	ug/l	95
87)	sec-Butylbenzene	18.53	105	605339	1.05	ug/l	99
88)	p-Isopropyltoluene	18.70	119	500213	1.10	ug/l	98
89)	1,3-Dichlorobenzene	18.79	146	207283	1.00	ug/l	99
90)	1,2,3-Trimethylbenzene	18.87	105	370879	1.04	ug/l	99
91)	1,4-Dichlorobenzene	18.92	146	201222	1.01	ug/l	98
92)	n-Butylbenzene	19.14	91	459136	1.02	ug/l	97
93)	1,2-Dichlorobenzene	19.31	146	173949	1.03	ug/l	99
94)	1,2-Dibromo-3-chloropropan	20.08	157	10850	1.07	ug/l	94
95)	1,2,4-Trichlorobenzene	20.91	180	83823	0.86	ug/l	94
96)	Hexachlorobutadiene	21.04	225	59326	0.97	ug/l	97
97)	Naphthalene	21.17	128	119630	0.87	ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW361.D Vial: 4
Acq On : 19 Oct 2024 4:53 pm Operator: DHguye
Sample : VO06J193 0.10/0.50uL Inst : 06
Misc : 1.0ppb 8260/5.0ppb KET-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	61681	0.84	ug/l	99

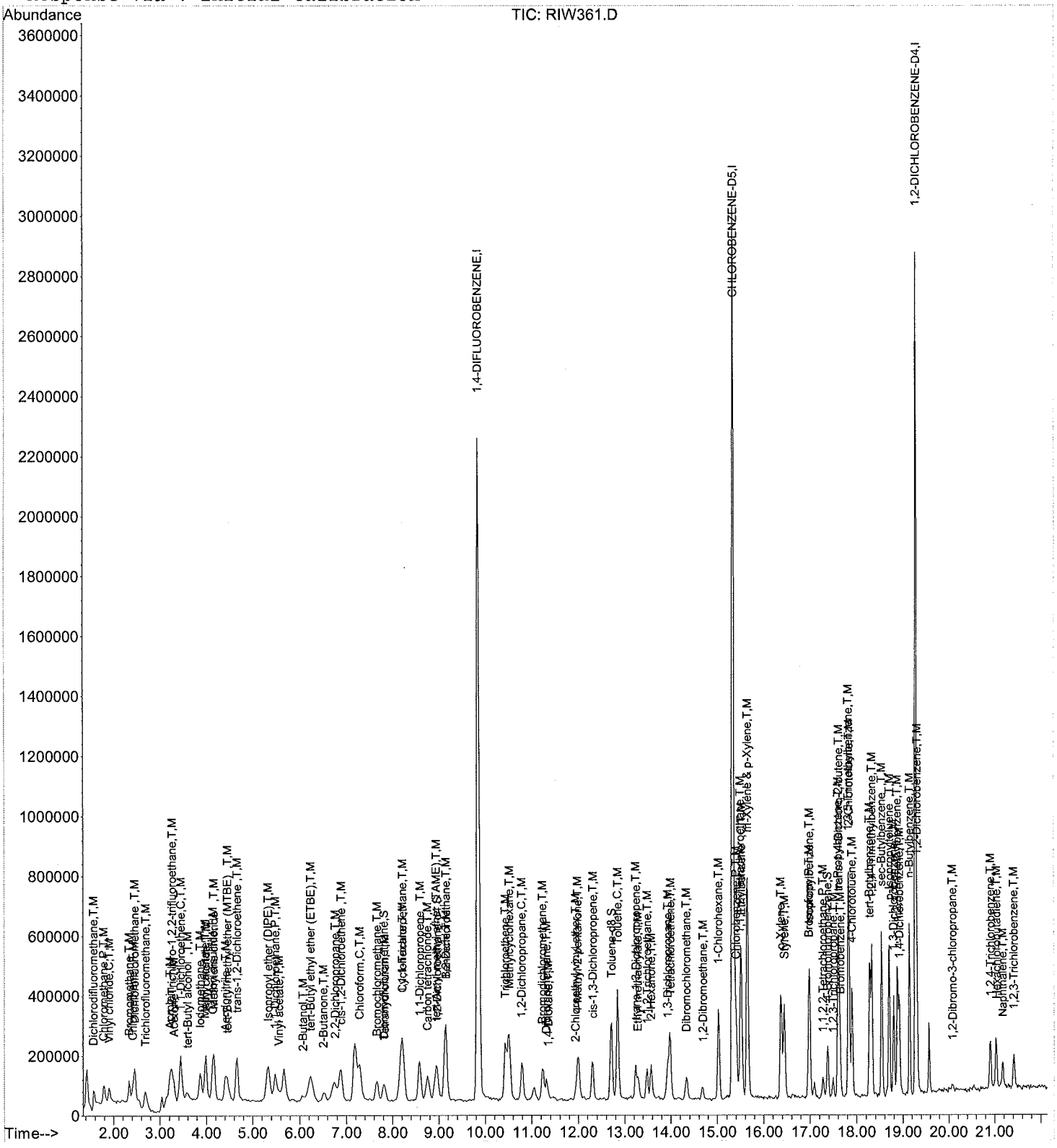
SA 11/15/24

(#) = qualifier out of range (m) = manual integration
RIW361.D VO06J19.M Thu Nov 14 17:15:10 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW361.D Vial: 4
Acq On : 19 Oct 2024 4:53 pm Operator: DHguye
Sample : VO06J193 0.10/0.50uL Inst : 06
Misc : 1.0ppb 8260/5.0ppb KET-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW362.D Vial: 5
Acq On : 19 Oct 2024 5:19 pm Operator: DHguye
Sample : VO06J194 0.20/1.00uL Inst : 06
Misc : 2.0ppb 8260/10ppb KET-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4265248	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	3156664	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.29	152	1293975	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	201876	1.93	ug/l	0.00
Spiked Amount 10.000			Recovery = 19.30%			
42) 1,2-Dichloroethane-d4	8.96	65	140989	1.95	ug/l	0.00
Spiked Amount 10.000			Recovery = 19.50%			
55) Toluene-d8	12.72	98	881406	2.02	ug/l	0.02
Spiked Amount 10.000			Recovery = 20.20%			
77) 4-Bromofluorobenzene	17.38	95	262332	1.82	ug/l	0.00
Spiked Amount 10.000			Recovery = 18.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	300971	1.98	ug/l	97
3) Chloromethane	1.80	50	302985	2.05	ug/l	95
4) Vinyl chloride	1.90	62	235444	1.99	ug/l	92
5) Bromomethane	2.33	94	196325	1.83	ug/l	96
6) Chloroethane	2.43	64	157777	1.94	ug/l	99
7) Dichlorofluoromethane	2.45	67	351036	1.76	ug/l	95
8) Trichlorofluoromethane	2.69	101	296350	1.87	ug/l	98
9) Acrolein	3.22	56	43182	9.78	ug/l	88
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	140653	1.55	ug/l	95
11) Acetone	3.30	43	132133	10.01	ug/l	93
12) 1,1-Dichloroethene	3.45	61	317080	1.64	ug/l	96
13) tert-Butyl alcohol	3.59	59	138378	37.93	ug/l	97
15) Methyl acetate	3.97	74	17550	1.96	ug/l	93
16) Iodomethane	3.87	142	343929	1.74	ug/l	98
17) Allyl chloride	3.99	76	130823	1.69	ug/l	94
18) Methylene chloride	4.16	49	243148	1.72	ug/l	98
19) Carbon disulfide	4.14	76	456068	1.89	ug/l	98
20) Acrylonitrile	4.41	53	170592	9.69	ug/l	98
21) tert-Butyl methyl ether (M	4.45	73	345402	1.68	ug/l	98
22) trans-1,2-Dichloroethene	4.66	96	233774	1.62	ug/l	99
23) Isopropyl ether (DIPE)	5.33	45	676426	1.77	ug/l	99
24) Vinyl acetate	5.56	43	245442	1.85	ug/l	94
25) 1,1-Dichloroethane	5.48	63	359398	1.67	ug/l	98
26) 2-Butanol	6.05	45	141467	38.67	ug/l	98
27) tert-Butyl ethyl ether (ET	6.24	59	515466	1.83	ug/l	95
28) 2-Butanone	6.51	43	206825	9.29	ug/l	94
29) 2,2-Dichloropropane	6.76	77	238469	1.85	ug/l	97
30) cis-1,2-Dichloroethene	6.89	96	233715	1.67	ug/l	100
31) Chloroform	7.28	83	356838	1.66	ug/l	98
32) Bromochloromethane	7.66	130	101532	1.71	ug/l	97
33) Tetrahydrofuran	7.79	42	23936	1.88	ug/l	97
36) 1,1,1-Trichloroethane	8.23	97	281268	1.64	ug/l	97
37) Cyclohexane	8.19	84	398765	1.86	ug/l	97
39) 1,1-Dichloropropene	8.58	110	101331	1.61	ug/l	100
40) Carbon tetrachloride	8.75	119	232701	1.67	ug/l	99
41) tert-Amyl methyl ether (TA	8.94	73	423876	1.77	ug/l	98

(#) = qualifier out of range (m) = manual integration

11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW362.D Vial: 5
Acq On : 19 Oct 2024 5:19 pm Operator: DHguye
Sample : VO06J194 0.20/1.00uL Inst : 06
Misc : 2.0ppb 8260/10ppb KET-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	155768	1.79	ug/l	98
44)	Benzene	9.15	78	911456	1.84	ug/l	98
45)	Trichloroethene	10.43	130	217369	1.66	ug/l	99
46)	Methylcyclohexane	10.51	83	500068	1.88	ug/l	98
47)	1,2-Dichloropropane	10.81	63	188833	1.76	ug/l	98
48)	1,4-Dioxane	11.35	88	14605	37.43	ug/l	91
49)	Bromodichloromethane	11.25	83	243137	1.75	ug/l	99
50)	Dibromomethane	11.31	93	90225	1.74	ug/l	97
51)	2-Chloroethyl vinyl ether	11.94	63	57534	1.63	ug/l	90
52)	4-Methyl-2-pentanone	12.00	43	659653	11.11	ug/l	98
53)	cis-1,3-Dichloropropene	12.32	75	293766	1.76	ug/l	98
56)	Toluene	12.84	91	957624	1.83	ug/l	97
57)	Ethyl methacrylate	13.28	69	153790	1.81	ug/l	98
58)	trans-1,3-Dichloropropene	13.24	75	222561	1.81	ug/l	99
59)	1,1,2-Trichloroethane	13.49	97	111625	1.69	ug/l	95
60)	2-Hexanone	13.58	43	406029	10.88	ug/l	97
61)	1,3-Dichloropropane	13.93	76	215502	1.84	ug/l	97
62)	Tetrachloroethene	13.99	164	174401	1.57	ug/l	96
63)	Dibromochloromethane	14.33	129	140087	1.72	ug/l	97
65)	1,2-Dibromoethane	14.69	107	106779	1.77	ug/l	96
66)	1-Chlorohexane	15.02	91	356130	1.67	ug/l	89
67)	Chlorobenzene	15.40	112	502714	1.76	ug/l	100
68)	1,1,1,2-Tetrachloroethane	15.49	131	163794	1.69	ug/l	97
69)	Ethylbenzene	15.52	91	1035338	1.83	ug/l	97
70)	m-Xylene & p-Xylene	15.65	91	1508429	3.56	ug/l	97
71)	o-Xylene	16.38	91	754352	1.77	ug/l	97
72)	Styrene	16.44	104	548063	1.80	ug/l	99
73)	Isopropylbenzene	16.99	105	967195	1.75	ug/l	98
75)	Bromoform	16.97	173	62928	1.56	ug/l	97
76)	1,1,2,2-Tetrachloroethane	17.27	83	126295	1.79	ug/l	90
78)	1,2,3-Trichloropropane	17.49	110	31225	1.73	ug/l	92
79)	trans-1,4-Dichloro-2-buten	17.61	53	26127	1.57	ug/l	91
80)	n-Propylbenzene	17.60	91	1208406	1.67	ug/l	97
81)	Bromobenzene	17.64	156	183045	1.59	ug/l	95
82)	1,3,5-Trimethylbenzene	17.82	105	756501	1.68	ug/l	98
83)	2-Chlorotoluene	17.83	91	754475	1.73	ug/l	91
84)	4-Chlorotoluene	17.90	91	603286	1.61	ug/l	97
85)	tert-Butylbenzene	18.27	134	162662	1.63	ug/l	99
86)	1,2,4-Trimethylbenzene	18.32	105	742884	1.69	ug/l	97
87)	sec-Butylbenzene	18.53	105	1034357	1.65	ug/l	96
88)	p-Isopropyltoluene	18.70	119	828606	1.67	ug/l	99
89)	1,3-Dichlorobenzene	18.79	146	382170	1.70	ug/l	99
90)	1,2,3-Trimethylbenzene	18.87	105	687085	1.77	ug/l	98
91)	1,4-Dichlorobenzene	18.92	146	378153	1.75	ug/l	99
92)	n-Butylbenzene	19.14	91	763375	1.57	ug/l	98
93)	1,2-Dichlorobenzene	19.31	146	323870	1.77	ug/l	100
94)	1,2-Dibromo-3-chloropropan	20.09	157	20160	1.83	ug/l	82
95)	1,2,4-Trichlorobenzene	20.91	180	167442	1.58	ug/l	99
96)	Hexachlorobutadiene	21.04	225	94982	1.43	ug/l	97
97)	Naphthalene	21.17	128	248969	1.67	ug/l	99

(#) = qualifier out of range (m) = manual integration

11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW362.D Vial: 5
Acq On : 19 Oct 2024 5:19 pm Operator: DHguye
Sample : VO06J194 0.20/1.00uL Inst : 06
Misc : 2.0ppb 8260/10ppb KET-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	125391	1.57	ug/l	95

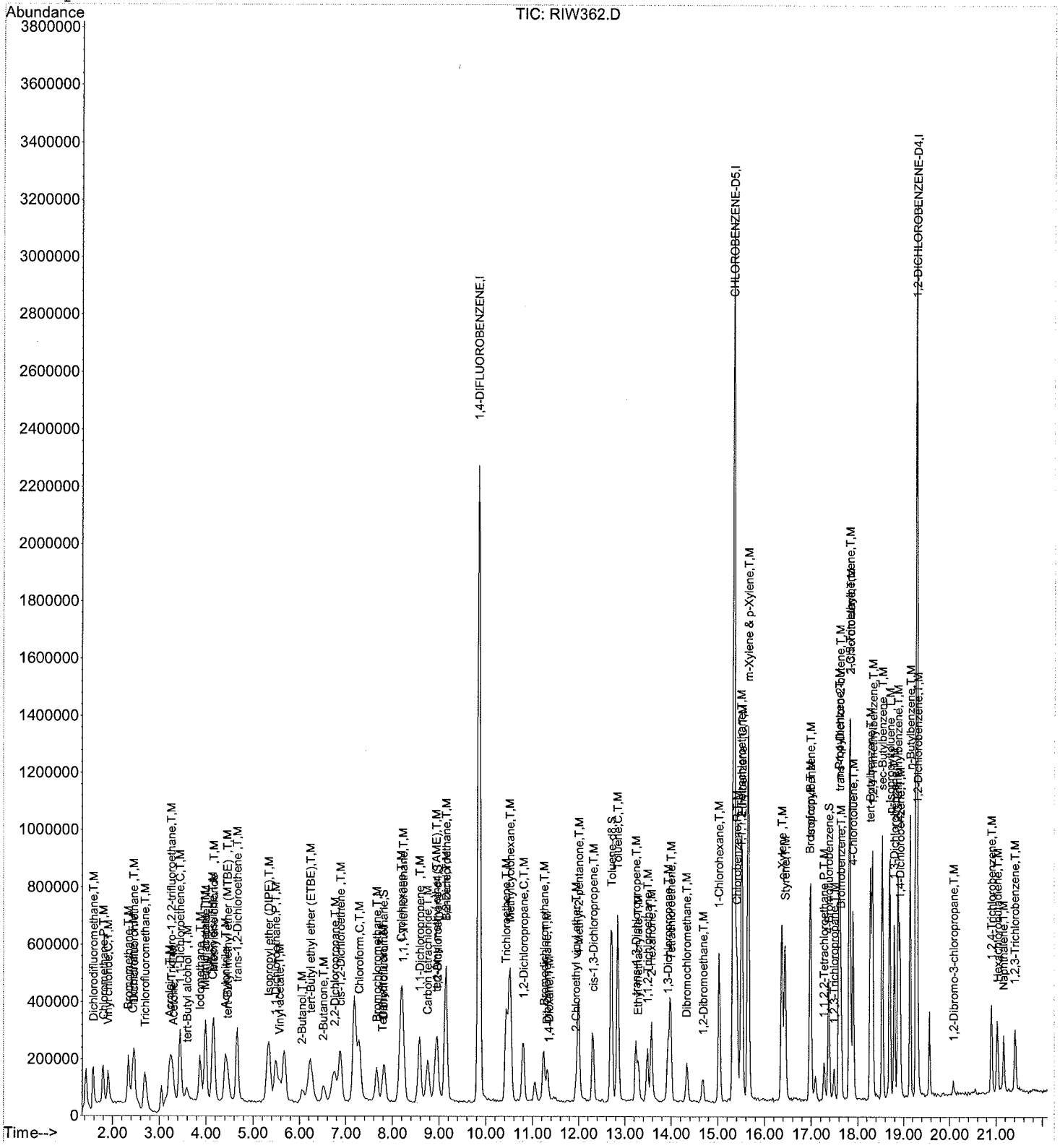
SU 11/15/24

(#) = qualifier out of range (m) = manual integration
RIW362.D VO06J19.M Thu Nov 14 17:15:20 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW362.D Vial: 5
Acq On : 19 Oct 2024 5:19 pm Operator: DHguye
Sample : VO06J194 0.20/1.00uL Inst : 06
Misc : 2.0ppb 8260/10ppb KET-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW363.D Vial: 6
Acq On : 19 Oct 2024 5:45 pm Operator: DHguye
Sample : VO06J195 0.50/2.50uL Inst : 06
Misc : 5.0ppb 8260/25ppb KET-AA/125ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4321200	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	3195275	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1264641	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	495292	4.68	ug/l	0.00
Spiked Amount 10.000			Recovery = 46.80%			
42) 1,2-Dichloroethane-d4	8.96	65	352643	4.81	ug/l	0.00
Spiked Amount 10.000			Recovery = 48.10%			
55) Toluene-d8	12.70	98	2139871	4.85	ug/l	0.00
Spiked Amount 10.000			Recovery = 48.50%			
77) 4-Bromofluorobenzene	17.38	95	617573	4.37	ug/l	0.00
Spiked Amount 10.000			Recovery = 43.70%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	777575	5.06	ug/l	100
3) Chloromethane	1.79	50	796312	5.33	ug/l	99
4) Vinyl chloride	1.91	62	643085	5.37	ug/l	98
5) Bromomethane	2.35	94	555468	5.10	ug/l	98
6) Chloroethane	2.43	64	427134	5.18	ug/l	98
7) Dichlorofluoromethane	2.47	67	1020451	5.05	ug/l	100
8) Trichlorofluoromethane	2.70	101	820550	5.11	ug/l	99
9) Acrolein	3.22	56	109443	24.47	ug/l	92
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	456819	4.97	ug/l	100
11) Acetone	3.30	43	324375	24.26	ug/l	98
12) 1,1-Dichloroethene	3.45	61	989264	5.06	ug/l	99
13) tert-Butyl alcohol	3.59	59	508328	137.52	ug/l	99
15) Methyl acetate	3.97	74	43807	4.82	ug/l	84
16) Iodomethane	3.87	142	1040365	5.19	ug/l	100
17) Allyl chloride	3.99	76	387438	4.95	ug/l	97
18) Methylene chloride	4.16	49	723677	5.04	ug/l	99
19) Carbon disulfide	4.14	76	1221551	4.99	ug/l	98
20) Acrylonitrile	4.39	53	457742	25.66	ug/l	98
21) tert-Butyl methyl ether (M	4.45	73	1077655	5.17	ug/l	99
22) trans-1,2-Dichloroethene	4.66	96	732155	5.00	ug/l	98
23) Isopropyl ether (DIPE)	5.33	45	2023190	5.23	ug/l	98
24) Vinyl acetate	5.57	43	682707	5.09	ug/l	98
25) 1,1-Dichloroethane	5.48	63	1101105	5.05	ug/l	99
26) 2-Butanol	6.05	45	448822	121.09	ug/l	98
27) tert-Butyl ethyl ether (ET	6.24	59	1452018	5.08	ug/l	99
28) 2-Butanone	6.51	43	585514	25.97	ug/l	100
29) 2,2-Dichloropropane	6.76	77	685068	5.25	ug/l	99
30) cis-1,2-Dichloroethene	6.89	96	708337	5.01	ug/l	99
31) Chloroform	7.28	83	1065274	4.90	ug/l	99
32) Bromochloromethane	7.66	130	306920	5.10	ug/l	98
33) Tetrahydrofuran	7.79	42	64331	4.98	ug/l	97
36) 1,1,1-Trichloroethane	8.21	97	869413	5.01	ug/l	100
37) Cyclohexane	8.19	84	1074090	4.95	ug/l	96
39) 1,1-Dichloropropene	8.58	110	305739	4.78	ug/l	97
40) Carbon tetrachloride	8.75	119	732714	5.18	ug/l	100
41) tert-Amyl methyl ether (TA	8.94	73	1234117	5.10	ug/l	99

(#) = qualifier out of range (m) = manual integration
RIW363.D VO06J19.M Thu Nov 14 17:15:31 2024 11/15/24 Page 1

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW363.D Vial: 6
Acq On : 19 Oct 2024 5:45 pm Operator: DHguye
Sample : VO06J195 0.50/2.50uL Inst : 06
Misc : 5.0ppb 8260/25ppb KET-AA/125ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	460646	5.23	ug/l	99
44)	Benzene	9.13	78	2680890	5.35	ug/l	99
45)	Trichloroethene	10.43	130	687235	5.20	ug/l	99
46)	Methylcyclohexane	10.51	83	1302948	4.83	ug/l	99
47)	1,2-Dichloropropane	10.79	63	555376	5.10	ug/l	98
48)	1,4-Dioxane	11.33	88	38252	96.77	ug/l	90
49)	Bromodichloromethane	11.23	83	713857	5.07	ug/l	99
50)	Dibromomethane	11.31	93	262350	4.98	ug/l	98
51)	2-Chloroethyl vinyl ether	11.94	63	169481	4.75	ug/l	97
52)	4-Methyl-2-pentanone	11.98	43	1641024	27.29	ug/l	98
53)	cis-1,3-Dichloropropene	12.30	75	889297	5.27	ug/l	99
56)	Toluene	12.84	91	2810025	5.30	ug/l	98
57)	Ethyl methacrylate	13.28	69	445141	5.18	ug/l	99
58)	trans-1,3-Dichloropropene	13.24	75	648038	5.20	ug/l	99
59)	1,1,2-Trichloroethane	13.49	97	338466	5.08	ug/l	97
60)	2-Hexanone	13.55	43	1014397	26.85	ug/l	99
61)	1,3-Dichloropropane	13.93	76	612861	5.16	ug/l	99
62)	Tetrachloroethene	14.00	164	571090	5.07	ug/l	97
63)	Dibromochloromethane	14.33	129	426622	5.17	ug/l	98
65)	1,2-Dibromoethane	14.67	107	326270	5.36	ug/l	99
66)	1-Chlorohexane	15.02	91	1107319	5.12	ug/l	92
67)	Chlorobenzene	15.40	112	1565582	5.40	ug/l	98
68)	1,1,1,2-Tetrachloroethane	15.49	131	497418	5.08	ug/l	100
69)	Ethylbenzene	15.51	91	3037982	5.31	ug/l	99
70)	m-Xylene & p-Xylene	15.65	91	4487257	10.47	ug/l	99
71)	o-Xylene	16.36	91	2248949	5.21	ug/l	99
72)	Styrene	16.44	104	1651432	5.35	ug/l	99
73)	Isopropylbenzene	16.99	105	3001756	5.36	ug/l	99
75)	Bromoform	16.97	173	188949	4.79	ug/l	96
76)	1,1,2,2-Tetrachloroethane	17.27	83	365138	5.31	ug/l	95
78)	1,2,3-Trichloropropane	17.49	110	87454	4.97	ug/l	99
79)	trans-1,4-Dichloro-2-buten	17.61	53	79220	4.86	ug/l	96
80)	n-Propylbenzene	17.60	91	3693307	5.24	ug/l	99
81)	Bromobenzene	17.64	156	579110	5.14	ug/l	100
82)	1,3,5-Trimethylbenzene	17.82	105	2323531	5.28	ug/l	100
83)	2-Chlorotoluene	17.83	91	2337594	5.49	ug/l	94
84)	4-Chlorotoluene	17.90	91	1825593	5.00	ug/l	95
85)	tert-Butylbenzene	18.28	134	507873	5.19	ug/l	98
86)	1,2,4-Trimethylbenzene	18.32	105	2276114	5.29	ug/l	100
87)	sec-Butylbenzene	18.53	105	3191817	5.21	ug/l	99
88)	p-Isopropyltoluene	18.70	119	2611617	5.39	ug/l	99
89)	1,3-Dichlorobenzene	18.79	146	1177946	5.37	ug/l	99
90)	1,2,3-Trimethylbenzene	18.87	105	2030428	5.34	ug/l	98
91)	1,4-Dichlorobenzene	18.92	146	1119300	5.29	ug/l	99
92)	n-Butylbenzene	19.14	91	2502569	5.25	ug/l	99
93)	1,2-Dichlorobenzene	19.31	146	942543	5.27	ug/l	100
94)	1,2-Dibromo-3-chloropropan	20.08	157	49869	4.64	ug/l	92
95)	1,2,4-Trichlorobenzene	20.91	180	528214	5.10	ug/l	99
96)	Hexachlorobutadiene	21.04	225	343113	5.44	ug/l	95
97)	Naphthalene	21.17	128	714287	4.92	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW363.D Vial: 6
Acq On : 19 Oct 2024 5:45 pm Operator: DHguye
Sample : VO06J195 0.50/2.50uL Inst : 06
Misc : 5.0ppb 8260/25ppb KET-AA/125ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	383160	4.90	ug/l	97

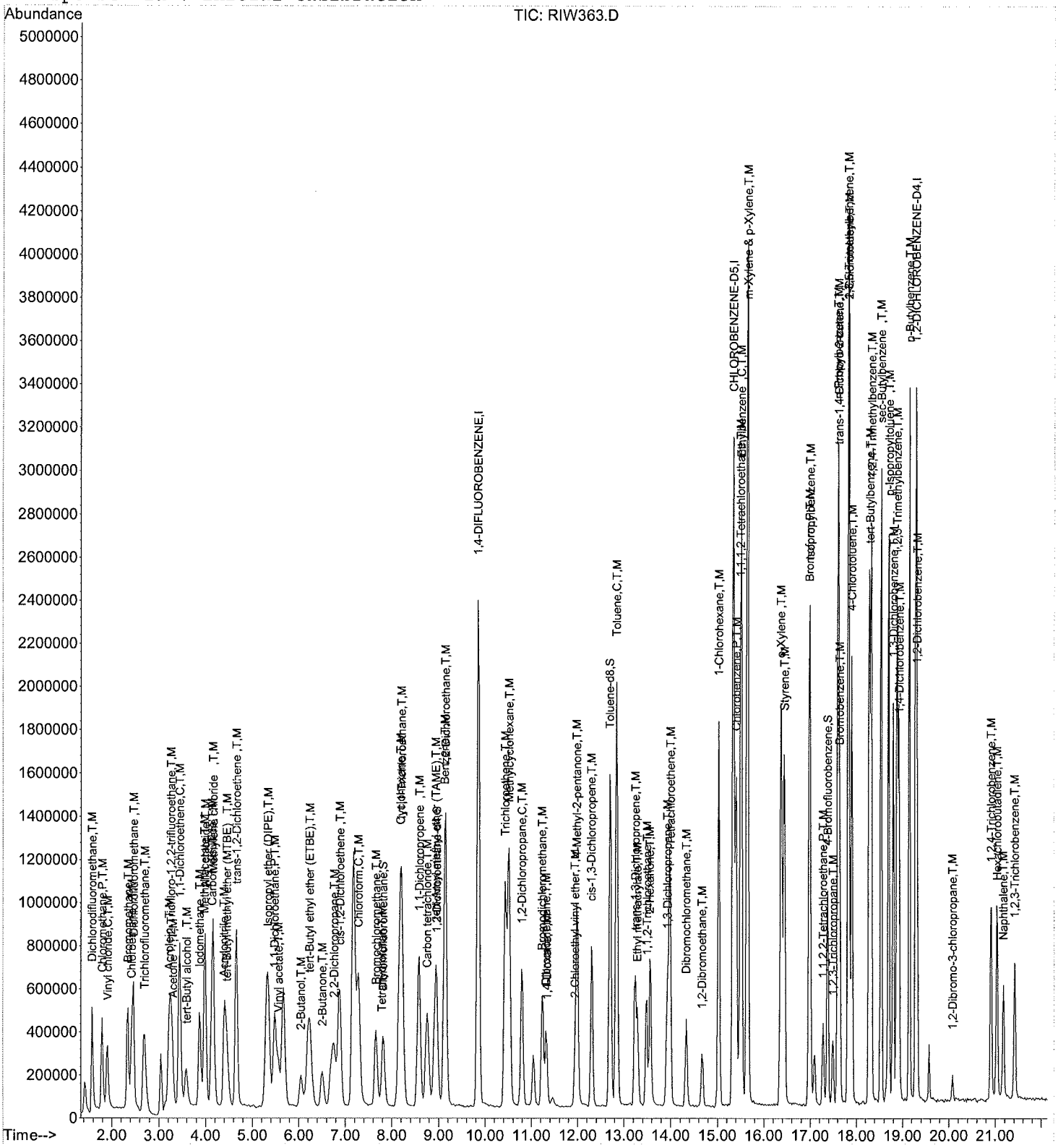
(#) = qualifier out of range (m) = manual integration
RIW363.D VO06J19.M Thu Nov 14 17:15:32 2024

11/15/24

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW363.D Vial: 6
Acq On : 19 Oct 2024 5:45 pm Operator: DHguye
Sample : VO06J195 0.50/2.50uL Inst : 06
Misc : 5.0ppb 8260/25ppb KET-AA/125ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW364.D Vial: 7
Acq On : 19 Oct 2024 6:11 pm Operator: DHguye
Sample : VO06J196 1.00/5.00uL Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	3831558	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	2808641	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1084745	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	1204789	12.84	ug/l	0.00
Spiked Amount 10.000			Recovery = 128.40%			
42) 1,2-Dichloroethane-d4	8.96	65	851123	13.10	ug/l	0.00
Spiked Amount 10.000			Recovery = 131.00%			
55) Toluene-d8	12.69	98	5040192	12.98	ug/l	0.00
Spiked Amount 10.000			Recovery = 129.80%			
77) 4-Bromofluorobenzene	17.38	95	1500762	12.39	ug/l	0.00
Spiked Amount 10.000			Recovery = 123.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.56	85	1627773	11.95	ug/l	100
3) Chloromethane	1.80	50	1635580	12.35	ug/l	100
4) Vinyl chloride	1.90	62	1383953	13.03	ug/l	100
5) Bromomethane	2.33	94	1156147	11.97	ug/l	100
6) Chloroethane	2.41	64	895541	12.25	ug/l	100
7) Dichlorofluoromethane	2.45	67	2123876	11.85	ug/l	100
8) Trichlorofluoromethane	2.69	101	1731158	12.17	ug/l	100
9) Acrolein	3.19	56	222736	56.16	ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	994769	12.20	ug/l	100
11) Acetone	3.30	43	638282	53.83	ug/l	100
12) 1,1-Dichloroethene	3.45	61	2065629	11.91	ug/l	100
13) tert-Butyl alcohol	3.59	59	910341	277.75	ug/l	100
15) Methyl acetate	3.97	74	79967	9.92	ug/l	100
16) Iodomethane	3.87	142	2131757	11.99	ug/l	100
17) Allyl chloride	3.99	76	813393	11.71	ug/l	100
18) Methylene chloride	4.16	49	1486303	11.68	ug/l	100
19) Carbon disulfide	4.14	76	2741184	12.62	ug/l	100
20) Acrylonitrile	4.39	53	922398	58.31	ug/l	100
21) tert-Butyl methyl ether (M	4.43	73	2219072	12.00	ug/l	100
22) trans-1,2-Dichloroethene	4.66	96	1496558	11.52	ug/l	100
23) Isopropyl ether (DIPE)	5.33	45	4157682	12.12	ug/l	100
24) Vinyl acetate	5.56	43	1450405	12.19	ug/l	100
25) 1,1-Dichloroethane	5.48	63	2262946	11.72	ug/l	100
26) 2-Butanol	6.05	45	873678	265.83	ug/l	100
27) tert-Butyl ethyl ether (ET	6.21	59	2926993	11.55	ug/l	100
28) 2-Butanone	6.51	43	1170745	58.55	ug/l	100
29) 2,2-Dichloropropane	6.76	77	1443098	12.47	ug/l	100
30) cis-1,2-Dichloroethene	6.89	96	1459633	11.64	ug/l	100
31) Chloroform	7.28	83	2187036	11.34	ug/l	100
32) Bromochloromethane	7.66	130	635749	11.91	ug/l	100
33) Tetrahydrofuran	7.77	42	110470	9.64	ug/l	100
36) 1,1,1-Trichloroethane	8.21	97	1803491	11.72	ug/l	100
37) Cyclohexane	8.19	84	2269708	11.80	ug/l	100
39) 1,1-Dichloropropene	8.58	110	645607	11.39	ug/l	100
40) Carbon tetrachloride	8.75	119	1499973	11.95	ug/l	100
41) tert-Amyl methyl ether (TA	8.94	73	2538408	11.83	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW364.D Vial: 7
Acq On : 19 Oct 2024 6:11 pm Operator: DHguye
Sample : VO06J196 1.00/5.00uL Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	948971	12.15	ug/l	100
44)	Benzene	9.13	78	5391220	12.14	ug/l	100
45)	Trichloroethene	10.43	130	1403154	11.96	ug/l	100
46)	Methylcyclohexane	10.51	83	2641379	11.04	ug/l	100
47)	1,2-Dichloropropane	10.79	63	1134275	11.74	ug/l	100
48)	1,4-Dioxane	11.33	88	73052	208.41	ug/l	100
49)	Bromodichloromethane	11.23	83	1453630	11.64	ug/l	100
50)	Dibromomethane	11.31	93	542664	11.62	ug/l	100
51)	2-Chloroethyl vinyl ether	11.94	63	354863	11.22	ug/l	100
52)	4-Methyl-2-pentanone	11.98	43	3310190	62.08	ug/l	100
53)	cis-1,3-Dichloropropene	12.30	75	1854445	12.39	ug/l	100
56)	Toluene	12.84	91	5570940	11.95	ug/l	100
57)	Ethyl methacrylate	13.28	69	925311	12.24	ug/l	100
58)	trans-1,3-Dichloropropene	13.24	75	1358441	12.39	ug/l	100
59)	1,1,2-Trichloroethane	13.49	97	705390	12.03	ug/l	100
60)	2-Hexanone	13.55	43	2015131	60.68	ug/l	100
61)	1,3-Dichloropropane	13.93	76	1277823	12.24	ug/l	100
62)	Tetrachloroethene	13.99	164	1190078	12.03	ug/l	100
63)	Dibromochloromethane	14.33	129	864749	11.93	ug/l	100
65)	1,2-Dibromoethane	14.67	107	664845	12.42	ug/l	100
66)	1-Chlorohexane	15.02	91	2155922	11.35	ug/l	100
67)	Chlorobenzene	15.40	112	3158785	12.40	ug/l	100
68)	1,1,1,2-Tetrachloroethane	15.49	131	1037366	12.06	ug/l	100
69)	Ethylbenzene	15.51	91	6105697	12.14	ug/l	100
70)	m-Xylene & p-Xylene	15.65	91	8916707	23.68	ug/l	100
71)	o-Xylene	16.36	91	4478947	11.80	ug/l	100
72)	Styrene	16.44	104	3367429	12.41	ug/l	100
73)	Isopropylbenzene	16.99	105	5894659	11.98	ug/l	100
75)	Bromoform	16.97	173	392934	11.60	ug/l	100
76)	1,1,2,2-Tetrachloroethane	17.27	83	721608	12.23	ug/l	100
78)	1,2,3-Trichloropropane	17.49	110	172311	11.41	ug/l	100
79)	trans-1,4-Dichloro-2-buten	17.60	53	164643	11.77	ug/l	100
80)	n-Propylbenzene	17.60	91	7301973	12.07	ug/l	100
81)	Bromobenzene	17.64	156	1194188	12.36	ug/l	100
82)	1,3,5-Trimethylbenzene	17.82	105	4620633	12.25	ug/l	100
83)	2-Chlorotoluene	17.83	91	4235662	11.61	ug/l	100
84)	4-Chlorotoluene	17.90	91	4027698	12.85	ug/l	100
85)	tert-Butylbenzene	18.29	134	1029989	12.27	ug/l	100
86)	1,2,4-Trimethylbenzene	18.32	105	4503661	12.21	ug/l	100
87)	sec-Butylbenzene	18.53	105	6379926	12.15	ug/l	100
88)	p-Isopropyltoluene	18.70	119	5098335	12.27	ug/l	100
89)	1,3-Dichlorobenzene	18.79	146	2344329	12.47	ug/l	100
90)	1,2,3-Trimethylbenzene	18.87	105	3994807	12.26	ug/l	100
91)	1,4-Dichlorobenzene	18.92	146	2294698	12.65	ug/l	100
92)	n-Butylbenzene	19.14	91	4897607	11.98	ug/l	100
93)	1,2-Dichlorobenzene	19.31	146	1890573	12.34	ug/l	100
94)	1,2-Dibromo-3-chloropropan	20.08	157	94907	10.30	ug/l	100
95)	1,2,4-Trichlorobenzene	20.91	180	1048013	11.79	ug/l	100
96)	Hexachlorobutadiene	21.04	225	651278	12.41	ug/l	100
97)	Naphthalene	21.17	128	1456951	11.69	ug/l	100

(#) = qualifier out of range (m) = manual integration

SA 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW364.D Vial: 7
Acq On : 19 Oct 2024 6:11 pm Operator: DHguye
Sample : VO06J196 1.00/5.00uL Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	1,2,3-Trichlorobenzene	21.41	180	785162	11.72	ug/l	100

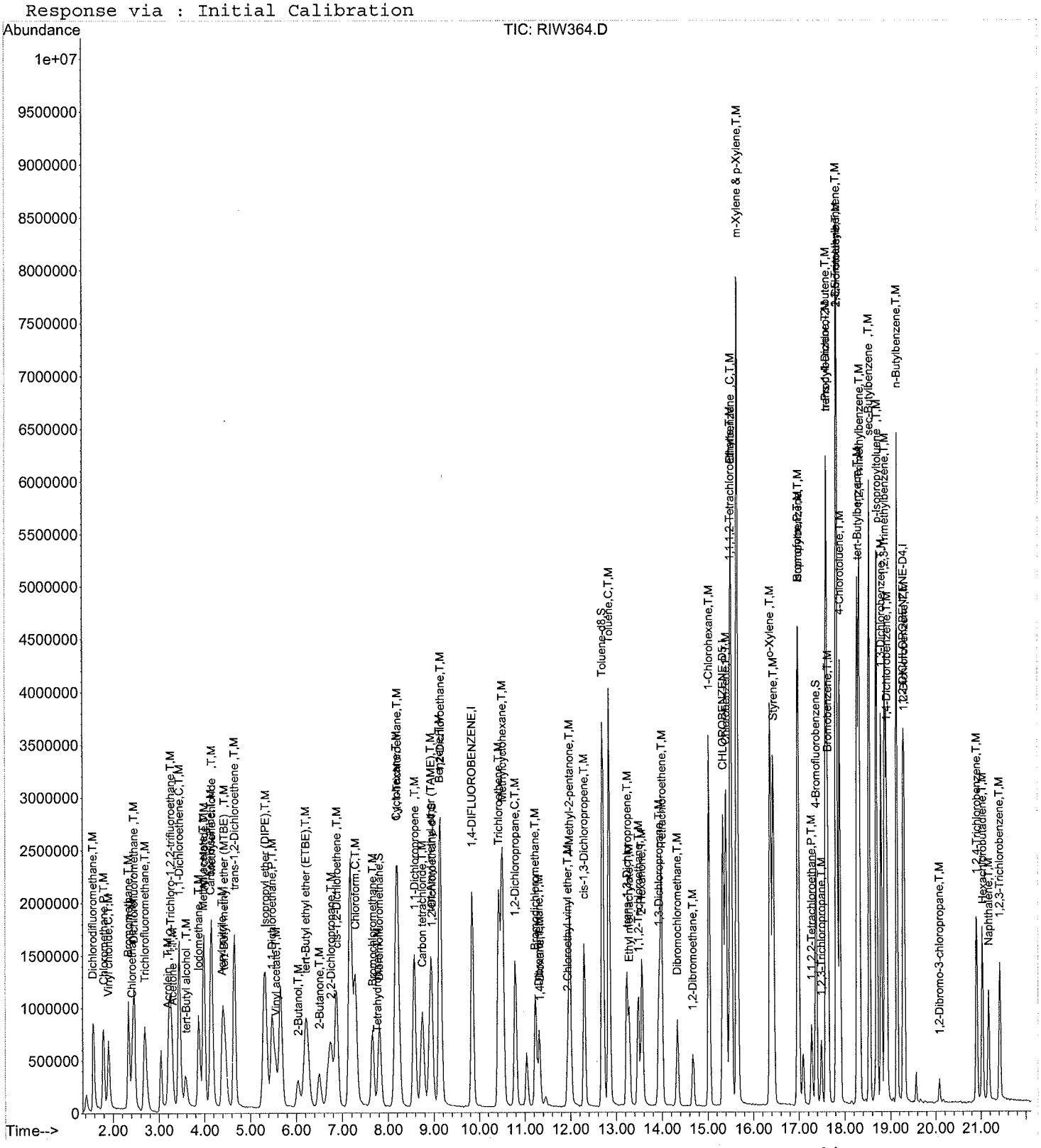
SU 11/15/24

(#) = qualifier out of range (m) = manual integration
RIW364.D VO06J19.M Thu Nov 14 17:15:42 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW364.D Vial: 7
Acq On : 19 Oct 2024 6:11 pm Operator: DHguye
Sample : VO06J196 1.00/5.00uL Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW365.D Vial: 8
Acq On : 19 Oct 2024 6:38 pm Operator: DHguye
Sample : VO06J197 2.00/10.0uL Inst : 06
Misc : 20ppb 8260/100ppb KET-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4614925	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	3440435	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1287635	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	2371965	20.98	ug/l	0.00
Spiked Amount 10.000			Recovery = 209.80%			
42) 1,2-Dichloroethane-d4	8.96	65	1654702	21.14	ug/l	0.00
Spiked Amount 10.000			Recovery = 211.40%			
55) Toluene-d8	12.69	98	9305353	19.57	ug/l	0.00
Spiked Amount 10.000			Recovery = 195.70%			
77) 4-Bromofluorobenzene	17.36	95	2859525	19.89	ug/l	-0.01
Spiked Amount 10.000			Recovery = 198.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	3248445	19.80	ug/l	99
3) Chloromethane	1.80	50	3380945	21.19	ug/l	100
4) Vinyl chloride	1.89	62	2715217	21.22	ug/l	98
5) Bromomethane	2.33	94	2401608	20.64	ug/l	99
6) Chloroethane	2.43	64	1853197	21.04	ug/l	98
7) Dichlorofluoromethane	2.47	67	4115845	19.07	ug/l	98
8) Trichlorofluoromethane	2.68	101	3640305	21.25	ug/l	99
9) Acrolein	3.20	56	432502	90.53	ug/l	93
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	1896316	19.30	ug/l	98
11) Acetone	3.28	43	1369803	95.91	ug/l	98
12) 1,1-Dichloroethene	3.43	61	4051177	19.39	ug/l	98
13) tert-Butyl alcohol	3.57	59	2046403	518.38	ug/l	98
15) Methyl acetate	3.95	74	194582	20.05	ug/l	83
16) Iodomethane	3.87	142	4243033	19.81	ug/l	99
17) Allyl chloride	3.99	76	1647345	19.70	ug/l	96
18) Methylene chloride	4.16	49	2989635	19.51	ug/l	99
19) Carbon disulfide	4.12	76	5107001	19.52	ug/l	100
20) Acrylonitrile	4.39	53	1943047	101.97	ug/l	98
21) tert-Butyl methyl ether (M	4.43	73	4418416	19.84	ug/l	98
22) trans-1,2-Dichloroethene	4.66	96	2990800	19.12	ug/l	98
23) Isopropyl ether (DIPE)	5.31	45	8406440	20.35	ug/l	100
24) Vinyl acetate	5.54	43	3095129	21.59	ug/l	99
25) 1,1-Dichloroethane	5.48	63	4542987	19.53	ug/l	99
26) 2-Butanol	6.03	45	2081260	525.76	ug/l	99
27) tert-Butyl ethyl ether (ET	6.21	59	5950717	19.49	ug/l	98
28) 2-Butanone	6.49	43	2507871	104.14	ug/l	98
29) 2,2-Dichloropropane	6.74	77	2781118	19.95	ug/l	98
30) cis-1,2-Dichloroethene	6.86	96	2950046	19.54	ug/l	99
31) Chloroform	7.28	83	4437814	19.10	ug/l	99
32) Bromochloromethane	7.66	130	1281469	19.92	ug/l	99
33) Tetrahydrofuran	7.77	42	253663	18.39	ug/l	96
36) 1,1,1-Trichloroethane	8.21	97	3611337	19.48	ug/l	99
37) Cyclohexane	8.19	84	4734132	20.44	ug/l	100
39) 1,1-Dichloropropene	8.58	110	1341615	19.64	ug/l	98
40) Carbon tetrachloride	8.75	119	2984797	19.75	ug/l	99
41) tert-Amyl methyl ether (TA	8.92	73	5151692	19.93	ug/l	99

(#) = qualifier out of range (m) = manual integration
RIW365.D VO06J19.M Thu Nov 14 17:15:51 2024

11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW365.D Vial: 8
Acq On : 19 Oct 2024 6:38 pm Operator: DHguye
Sample : VO06J197 2.00/10.0uL Inst : 06
Misc : 20ppb 8260/100ppb KET-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	1949803	20.72	ug/l	100
44)	Benzene	9.13	78	10701541	20.01	ug/l	98
45)	Trichloroethene	10.43	130	2852619	20.19	ug/l	99
46)	Methylcyclohexane	10.51	83	5701611	19.78	ug/l	99
47)	1,2-Dichloropropane	10.79	63	2351755	20.21	ug/l	100
48)	1,4-Dioxane	11.33	88	144641	342.61	ug/l	96
49)	Bromodichloromethane	11.23	83	2976262	19.78	ug/l	100
50)	Dibromomethane	11.31	93	1108731	19.71	ug/l	99
51)	2-Chloroethyl vinyl ether	11.94	63	750454	19.70	ug/l	99
52)	4-Methyl-2-pentanone	11.98	43	6733709	104.86	ug/l	99
53)	cis-1,3-Dichloropropene	12.30	75	3716601	20.61	ug/l	99
56)	Toluene	12.84	91	11026521	19.31	ug/l	98
57)	Ethyl methacrylate	13.28	69	1877949	20.28	ug/l	100
58)	trans-1,3-Dichloropropene	13.22	75	2739911	20.41	ug/l	100
59)	1,1,2-Trichloroethane	13.47	97	1419911	19.77	ug/l	99
60)	2-Hexanone	13.55	43	4175232	102.63	ug/l	98
61)	1,3-Dichloropropane	13.93	76	2585254	20.21	ug/l	100
62)	Tetrachloroethene	13.97	164	2406104	19.85	ug/l	99
63)	Dibromochloromethane	14.33	129	1725071	19.43	ug/l	98
65)	1,2-Dibromoethane	14.67	107	1354134	20.65	ug/l	99
66)	1-Chlorohexane	15.02	91	4442580	19.09	ug/l	94
67)	Chlorobenzene	15.40	112	6327568	20.27	ug/l	99
68)	1,1,1,2-Tetrachloroethane	15.49	131	2083860	19.77	ug/l	100
69)	Ethylbenzene	15.51	91	11845809	19.23	ug/l	98
70)	m-Xylene & p-Xylene	15.64	91	17446588	37.82	ug/l	98
71)	o-Xylene	16.36	91	8799239	18.93	ug/l	100
72)	Styrene	16.43	104	6703022	20.17	ug/l	99
73)	Isopropylbenzene	16.99	105	11558648	19.18	ug/l	99
75)	Bromoform	16.97	173	831183	20.68	ug/l	99
76)	1,1,2,2-Tetrachloroethane	17.27	83	1446440	20.66	ug/l	99
78)	1,2,3-Trichloropropane	17.49	110	357337	19.94	ug/l	95
79)	trans-1,4-Dichloro-2-buten	17.60	53	346749	20.89	ug/l	94
80)	n-Propylbenzene	17.60	91	13992243	19.48	ug/l	99
81)	Bromobenzene	17.64	156	2341801	20.42	ug/l	97
82)	1,3,5-Trimethylbenzene	17.82	105	8902766	19.89	ug/l	99
83)	2-Chlorotoluene	17.83	91	8334603	19.24	ug/l	98
84)	4-Chlorotoluene	17.90	91	7816819	21.02	ug/l	99
85)	tert-Butylbenzene	18.27	134	2018059	20.26	ug/l	100
86)	1,2,4-Trimethylbenzene	18.32	105	8635671	19.72	ug/l	99
87)	sec-Butylbenzene	18.53	105	11894226	19.08	ug/l	99
88)	p-Isopropyltoluene	18.70	119	9412411	19.09	ug/l	98
89)	1,3-Dichlorobenzene	18.79	146	4555149	20.41	ug/l	98
90)	1,2,3-Trimethylbenzene	18.87	105	7524401	19.45	ug/l	99
91)	1,4-Dichlorobenzene	18.91	146	4442874	20.63	ug/l	99
92)	n-Butylbenzene	19.14	91	9043474	18.64	ug/l	99
93)	1,2-Dichlorobenzene	19.31	146	3610490	19.85	ug/l	99
94)	1,2-Dibromo-3-chloropropan	20.08	157	183307	16.76	ug/l	97
95)	1,2,4-Trichlorobenzene	20.91	180	2182660	20.68	ug/l	99
96)	Hexachlorobutadiene	21.04	225	1182704	19.60	ug/l	94
97)	Naphthalene	21.17	128	3027743	20.47	ug/l	98

(#) = qualifier out of range (m) = manual integration

11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW365.D Vial: 8
Acq On : 19 Oct 2024 6:38 pm Operator: DHguye
Sample : VO06J197 2.00/10.0uL Inst : 06
Misc : 20ppb 8260/100ppb KET-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	1668051	20.97	ug/l	100

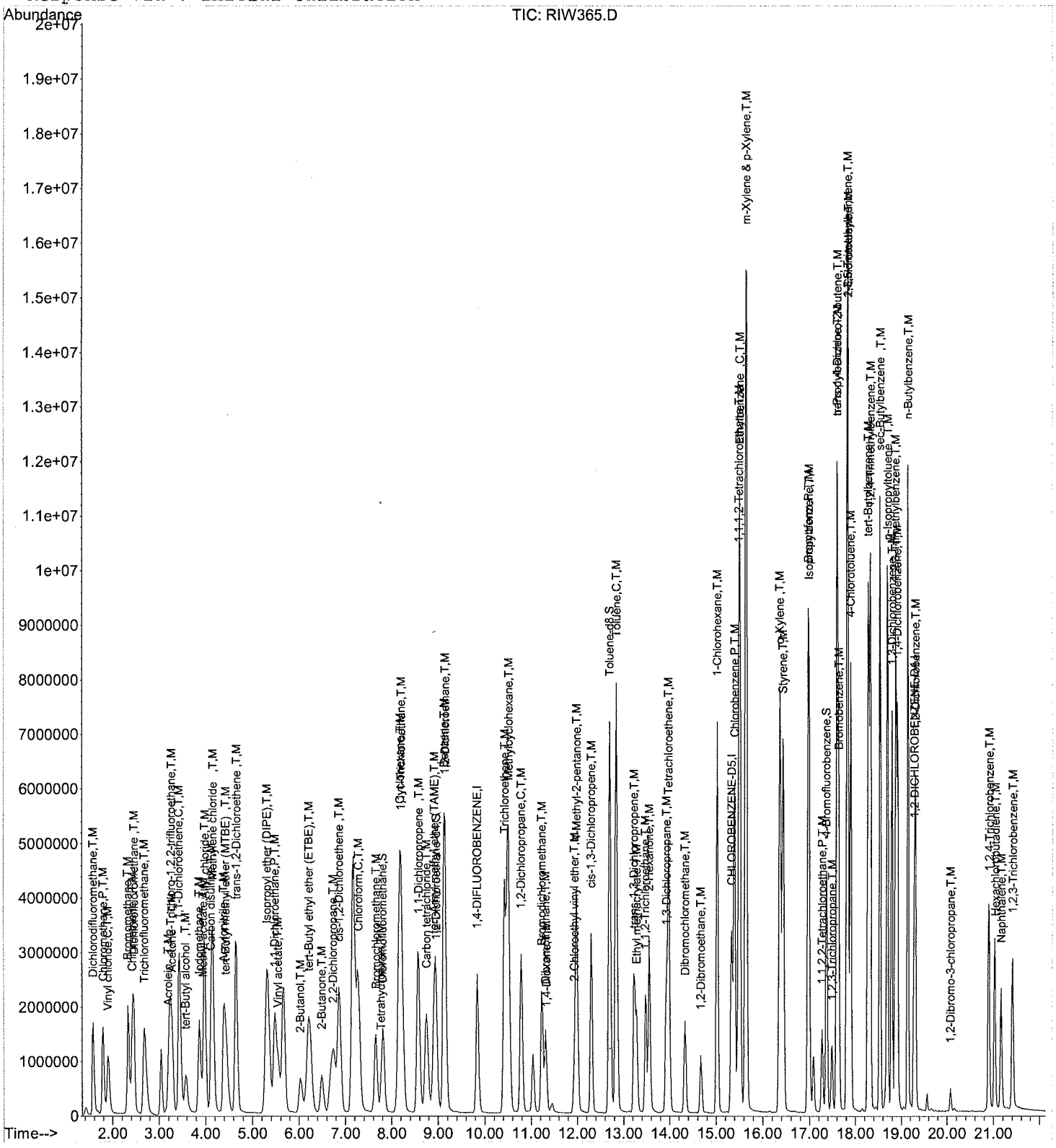
(#) = qualifier out of range (m) = manual integration
RIW365.D VO06J19.M Thu Nov 14 17:15:52 2024

SA 11/15/24

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW365.D Vial: 8
Acq On : 19 Oct 2024 6:38 pm Operator: DHguye
Sample : VO06J197 2.00/10.0uL Inst : 06
Misc : 20ppb 8260/100ppb KET-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW366.D Vial: 9
Acq On : 19 Oct 2024 7:04 pm Operator: DHguye
Sample : VO06J198 3.00/15.0uL Inst : 06
Misc : 30ppb 8260/150ppb KET-AA/750ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4915340	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	3643898	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1372360	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	3701541	30.75	ug/l	0.00
Spiked Amount 10.000			Recovery = 307.50%			
42) 1,2-Dichloroethane-d4	8.94	65	2616130	31.39	ug/l	-0.02
Spiked Amount 10.000			Recovery = 313.90%			
55) Toluene-d8	12.69	98	14458578	28.71	ug/l	0.00
Spiked Amount 10.000			Recovery = 287.10%			
77) 4-Bromofluorobenzene	17.36	95	4521170	29.51	ug/l	-0.01
Spiked Amount 10.000			Recovery = 295.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	4798932	27.46	ug/l	98
3) Chloromethane	1.80	50	5038208	29.65	ug/l	98
4) Vinyl chloride	1.92	62	3746784	27.50	ug/l	98
5) Bromomethane	2.33	94	3533602	28.51	ug/l	99
6) Chloroethane	2.43	64	2744194	29.25	ug/l	100
7) Dichlorofluoromethane	2.47	67	6393926	27.81	ug/l	97
8) Trichlorofluoromethane	2.69	101	5471356	29.98	ug/l	100
9) Acrolein	3.19	56	728268	143.12	ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	3042286	29.08	ug/l	97
11) Acetone	3.28	43	2136554	140.45	ug/l	98
12) 1,1-Dichloroethene	3.42	61	6494371	29.19	ug/l	98
13) tert-Butyl alcohol	3.57	59	3500009	832.41	ug/l	99
15) Methyl acetate	3.95	74	285575	27.63	ug/l	95
16) Iodomethane	3.86	142	6715318	29.44	ug/l	98
17) Allyl chloride	3.99	76	2682189	30.11	ug/l	96
18) Methylene chloride	4.16	49	4788317	29.34	ug/l	98
19) Carbon disulfide	4.12	76	7606863	27.30	ug/l	99
20) Acrylonitrile	4.39	53	3067809	151.16	ug/l	100
21) tert-Butyl methyl ether (M	4.43	73	7081295	29.86	ug/l	98
22) trans-1,2-Dichloroethene	4.64	96	4857054	29.15	ug/l	98
23) Isopropyl ether (DIPE)	5.31	45	13456278	30.58	ug/l	98
24) Vinyl acetate	5.54	43	4834412	31.67	ug/l	98
25) 1,1-Dichloroethane	5.48	63	7370790	29.75	ug/l	99
26) 2-Butanol	6.02	45	3234085	767.06	ug/l	96
27) tert-Butyl ethyl ether (ET	6.21	59	9581292	29.47	ug/l	98
28) 2-Butanone	6.49	43	3963809	154.53	ug/l	99
29) 2,2-Dichloropropane	6.74	77	4291303	28.90	ug/l	99
30) cis-1,2-Dichloroethene	6.86	96	4808945	29.90	ug/l	97
31) Chloroform	7.28	83	7133142	28.83	ug/l	98
32) Bromochloromethane	7.66	130	2109747	30.80	ug/l	100
33) Tetrahydrofuran	7.77	42	409055	27.84	ug/l	95
36) 1,1,1-Trichloroethane	8.21	97	5773278	29.24	ug/l	99
37) Cyclohexane	8.18	84	6883652	27.91	ug/l	99
39) 1,1-Dichloropropene	8.58	110	2173619	29.88	ug/l	95
40) Carbon tetrachloride	8.75	119	4875110	30.28	ug/l	99
41) tert-Amyl methyl ether (TA	8.92	73	8307702	30.18	ug/l	99

(#) = qualifier out of range (m) = manual integration

SA 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW366.D Vial: 9
Acq On : 19 Oct 2024 7:04 pm Operator: DHguye
Sample : VO06J198 3.00/15.0uL Inst : 06
Misc : 30ppb 8260/150ppb KET-AA/750ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	3178250	31.72	ug/l	98
44)	Benzene	9.13	78	17329009	30.42	ug/l	98
45)	Trichloroethene	10.43	130	4564907	30.34	ug/l	99
46)	Methylcyclohexane	10.51	83	8389280	27.33	ug/l	99
47)	1,2-Dichloropropane	10.79	63	3835966	30.95	ug/l	100
48)	1,4-Dioxane	11.33	88	256493	570.41	ug/l	98
49)	Bromodichloromethane	11.23	83	4777886	29.81	ug/l	100
50)	Dibromomethane	11.31	93	1817866	30.34	ug/l	99
51)	2-Chloroethyl vinyl ether	11.94	63	1233805	30.41	ug/l	100
52)	4-Methyl-2-pentanone	11.98	43	10476280	153.16	ug/l	99
53)	cis-1,3-Dichloropropene	12.30	75	5947577	30.97	ug/l	98
56)	Toluene	12.84	91	17437668	28.83	ug/l	97
57)	Ethyl methacrylate	13.28	69	3077668	31.38	ug/l	100
58)	trans-1,3-Dichloropropene	13.22	75	4426907	31.13	ug/l	99
59)	1,1,2-Trichloroethane	13.47	97	2297153	30.21	ug/l	99
60)	2-Hexanone	13.55	43	6467559	150.10	ug/l	98
61)	1,3-Dichloropropane	13.93	76	4165867	30.75	ug/l	98
62)	Tetrachloroethene	13.97	164	3835877	29.88	ug/l	99
63)	Dibromochloromethane	14.33	129	2840129	30.20	ug/l	99
65)	1,2-Dibromoethane	14.66	107	2182540	31.43	ug/l	97
66)	1-Chlorohexane	15.02	91	7505543	30.46	ug/l	91
67)	Chlorobenzene	15.40	112	10144829	30.69	ug/l	98
68)	1,1,1,2-Tetrachloroethane	15.49	131	3420645	30.65	ug/l	99
69)	Ethylbenzene	15.51	91	18474016	28.31	ug/l	96
70)	m-Xylene & p-Xylene	15.64	91	23462015	48.02	ug/l	83
71)	o-Xylene	16.36	91	14051626	28.54	ug/l	98
72)	Styrene	16.43	104	10946528	31.11	ug/l	99
73)	Isopropylbenzene	16.97	105	18106595	28.37	ug/l	98
75)	Bromoform	16.97	173	1376537	32.13	ug/l	99
76)	1,1,2,2-Tetrachloroethane	17.27	83	2373598	31.81	ug/l	99
78)	1,2,3-Trichloropropane	17.49	110	596765	31.24	ug/l	93
79)	trans-1,4-Dichloro-2-buten	17.60	53	548023	30.97	ug/l	99
80)	n-Propylbenzene	17.60	91	19152223	25.02	ug/l	92
81)	Bromobenzene	17.64	156	3750590	30.69	ug/l	97
82)	1,3,5-Trimethylbenzene	17.82	105	13922896	29.18	ug/l	97
83)	2-Chlorotoluene	17.83	91	13249338	28.70	ug/l	97
84)	4-Chlorotoluene	17.90	91	12509010	31.56	ug/l	98
85)	tert-Butylbenzene	18.27	134	3259235	30.70	ug/l	98
86)	1,2,4-Trimethylbenzene	18.32	105	13658279	29.27	ug/l	97
87)	sec-Butylbenzene	18.53	105	16947927	25.51	ug/l	93
88)	p-Isopropyltoluene	18.69	119	14532813	27.65	ug/l	97
89)	1,3-Dichlorobenzene	18.79	146	7155508	30.09	ug/l	98
90)	1,2,3-Trimethylbenzene	18.87	105	11977877	29.05	ug/l	98
91)	1,4-Dichlorobenzene	18.91	146	7101020	30.94	ug/l	98
92)	n-Butylbenzene	19.14	91	13310764	25.74	ug/l	95
93)	1,2-Dichlorobenzene	19.31	146	5831297	30.07	ug/l	98
94)	1,2-Dibromo-3-chloropropan	20.08	157	318020	27.28	ug/l	96
95)	1,2,4-Trichlorobenzene	20.89	180	3258240	28.97	ug/l	98
96)	Hexachlorobutadiene	21.02	225	1600129	25.56	ug/l	94
97)	Naphthalene	21.17	128	4771841	30.27	ug/l	98

(#) = qualifier out of range (m) = manual integration

Sw 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW366.D Vial: 9
Acq On : 19 Oct 2024 7:04 pm Operator: DHguye
Sample : VO06J198 3.00/15.0uL Inst : 06
Misc : 30ppb 8260/150ppb KET-AA/750ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	2555906	30.15	ug/l	100

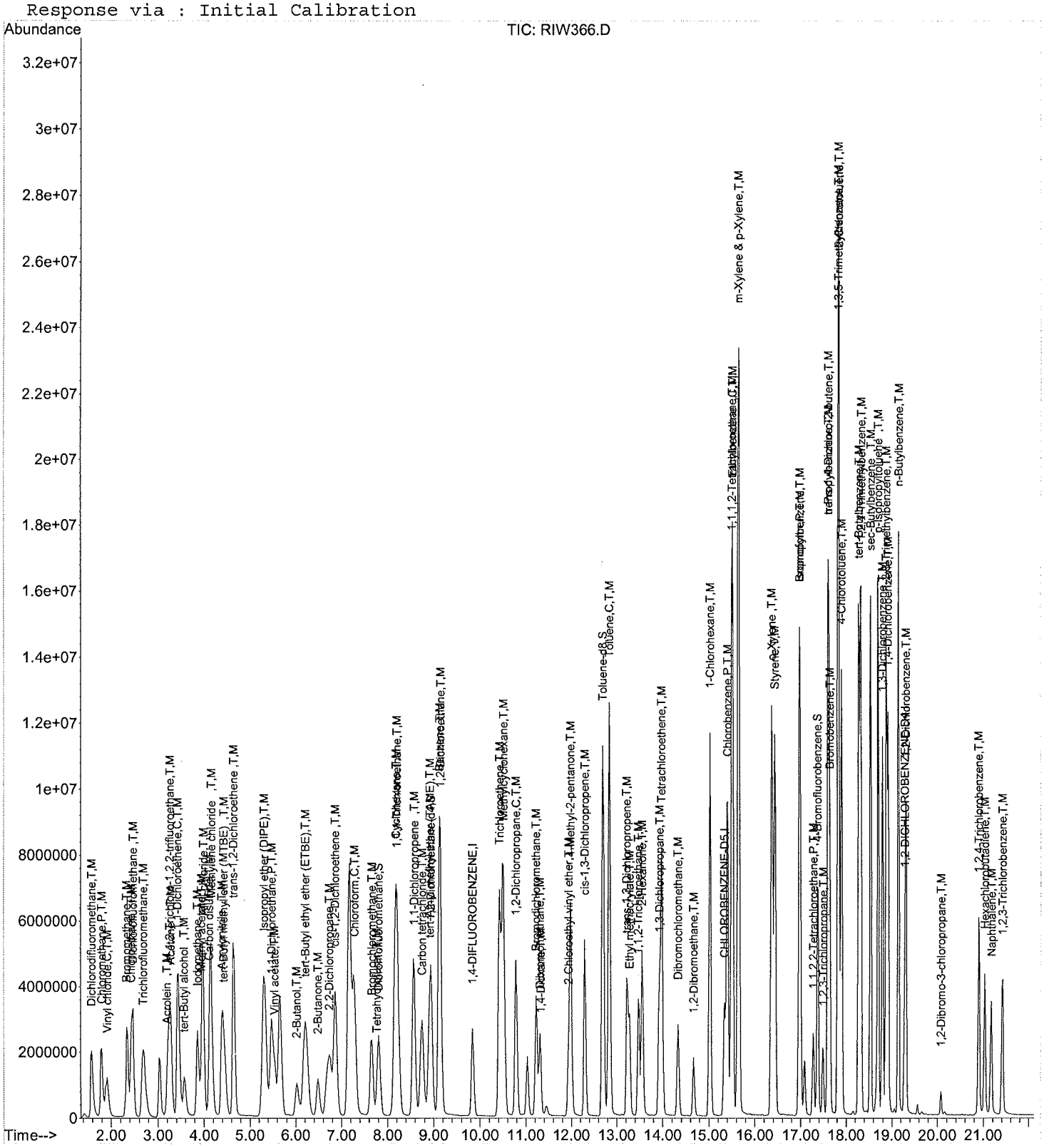
(#) = qualifier out of range (m) = manual integration
RIW366.D VO06J19.M Thu Nov 14 17:16:02 2024 Page 3

SA 11/15/24

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW366.D Vial: 9
Acq On : 19 Oct 2024 7:04 pm Operator: DHguye
Sample : VO06J198 3.00/15.0uL Inst : 06
Misc : 30ppb 8260/150ppb KET-AA/750ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW367.D Vial: 10
Acq On : 19 Oct 2024 7:30 pm Operator: DHguye
Sample : VO06J199 5.00/25.0uL Inst : 06
Misc : 50ppb 8260/250ppb KET-AA/1250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4676880	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	3405796	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1215571	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	9296	0.08	ug/l	0.00
Spiked Amount 10.000			Recovery =	0.80%		
42) 1,2-Dichloroethane-d4	8.94	65	17011	0.21	ug/l	-0.02
Spiked Amount 10.000			Recovery =	2.10%		
55) Toluene-d8	12.70	98	75214	0.16	ug/l	0.00
Spiked Amount 10.000			Recovery =	1.60%		
77) 4-Bromofluorobenzene	17.38	95	59158	0.44	ug/l	0.00
Spiked Amount 10.000			Recovery =	4.40%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.56	85	7724183	46.45	ug/l	97
3) Chloromethane	1.78	50	8398158	51.94	ug/l	97
4) Vinyl chloride	1.88	62	5864653	45.24	ug/l	98
5) Bromomethane	2.33	94	6019928	51.04	ug/l	99
6) Chloroethane	2.41	64	4594474	51.47	ug/l	100
7) Dichlorofluoromethane	2.45	67	10304925	47.11	ug/l	96
8) Trichlorofluoromethane	2.69	101	9003702	51.85	ug/l	100
9) Acrolein	3.20	56	1218992	251.78	ug/l	93
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	4960844	49.83	ug/l	97
11) Acetone	3.28	43	3535231	244.24	ug/l	98
12) 1,1-Dichloroethene	3.43	61	10165757	48.02	ug/l	97
13) tert-Butyl alcohol	3.59	59	5589632	1397.16	ug/l	100
15) Methyl acetate	3.95	74	476860	48.48	ug/l	90
16) Iodomethane	3.87	142	10648582	49.07	ug/l	99
17) Allyl chloride	3.97	76	4378807	51.66	ug/l	95
18) Methylene chloride	4.16	49	7606383	48.98	ug/l	98
19) Carbon disulfide	4.12	76	52676	0.20	ug/l	87
20) Acrylonitrile	4.39	53	5017831	259.86	ug/l	99
21) tert-Butyl methyl ether (M	4.43	73	10996124	48.73	ug/l	97
22) trans-1,2-Dichloroethene	4.64	96	7707488	48.61	ug/l	97
23) Isopropyl ether (DIPE)	5.31	45	21026543	50.23	ug/l	97
24) Vinyl acetate	5.54	43	7767787	53.48	ug/l	97
25) 1,1-Dichloroethane	5.48	63	11647126	49.40	ug/l	97
26) 2-Butanol	6.03	45	5289776	1318.59	ug/l	94
27) tert-Butyl ethyl ether (ET	6.22	59	15008567	48.51	ug/l	98
28) 2-Butanone	6.49	43	6463699	264.84	ug/l	97
29) 2,2-Dichloropropane	6.74	77	6582766	46.59	ug/l	98
30) cis-1,2-Dichloroethene	6.87	96	7646142	49.97	ug/l	97
31) Chloroform	7.28	83	11243847	47.76	ug/l	97
32) Bromochloromethane	7.66	130	3330351	51.09	ug/l	100
33) Tetrahydrofuran	7.77	42	659487	47.17	ug/l	95
36) 1,1,1-Trichloroethane	8.21	97	9121392	48.55	ug/l	98
37) Cyclohexane	8.19	84	11033687	47.01	ug/l	98
39) 1,1-Dichloropropene	8.58	110	3490884	50.44	ug/l	96
40) Carbon tetrachloride	8.75	119	7558795	49.35	ug/l	100
41) tert-Amyl methyl ether (TA	8.92	73	12780227	48.79	ug/l	99

(#) = qualifier out of range (m) = manual integration

11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW367.D Vial: 10
Acq On : 19 Oct 2024 7:30 pm Operator: DHguye
Sample : VO06J199 5.00/25.0uL Inst : 06
Misc : 50ppb 8260/250ppb KET-AA/1250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	4874986	51.13	ug/l	96
44)	Benzene	9.13	78	26666982	49.20	ug/l	97
45)	Trichloroethene	10.43	130	7211481	50.37	ug/l	99
46)	Methylcyclohexane	10.51	83	13205375	45.21	ug/l	99
47)	1,2-Dichloropropane	10.79	63	5964998	50.58	ug/l	98
48)	1,4-Dioxane	11.33	88	410747	960.03	ug/l	100
49)	Bromodichloromethane	11.23	83	7363880	48.29	ug/l	99
50)	Dibromomethane	11.31	93	2834688	49.72	ug/l	100
51)	2-Chloroethyl vinyl ether	11.94	63	1937692	50.20	ug/l	100
52)	4-Methyl-2-pentanone	11.98	43	16334180	250.98	ug/l	97
53)	cis-1,3-Dichloropropene	12.30	75	9186997	50.27	ug/l	97
56)	Toluene	12.84	91	24365948	43.10	ug/l	88
57)	Ethyl methacrylate	13.28	69	4651286	50.73	ug/l	99
58)	trans-1,3-Dichloropropene	13.22	75	6846977	51.51	ug/l	99
59)	1,1,2-Trichloroethane	13.47	97	3568132	50.20	ug/l	99
60)	2-Hexanone	13.56	43	10115857	251.19	ug/l	97
61)	1,3-Dichloropropane	13.93	76	6335302	50.03	ug/l	97
62)	Tetrachloroethene	13.97	164	6049184	50.41	ug/l	99
63)	Dibromochloromethane	14.33	129	4376887	49.79	ug/l	99
65)	1,2-Dibromoethane	14.67	107	3356917	51.72	ug/l	96
66)	1-Chlorohexane	15.02	91	11179727	48.54	ug/l	92
67)	Chlorobenzene	15.40	112	15792055	51.11	ug/l	98
68)	1,1,1,2-Tetrachloroethane	15.49	131	5316643	50.96	ug/l	100
69)	Ethylbenzene	15.51	91	23918493	39.22	ug/l	82
70)	m-Xylene & p-Xylene	15.65	91	27836894	60.96	ug/l	65
71)	o-Xylene	16.36	91	20291732	44.10	ug/l	93
72)	Styrene	16.43	104	16771786	50.99	ug/l	98
73)	Isopropylbenzene	16.99	105	23966601	40.17	ug/l	91
75)	Bromoform	16.97	173	2116750	55.78	ug/l	99
76)	1,1,2,2-Tetrachloroethane	17.27	83	3536225	53.50	ug/l	99
78)	1,2,3-Trichloropropane	17.49	110	918835	54.30	ug/l	92
79)	trans-1,4-Dichloro-2-buten	17.60	53	858312	54.76	ug/l	98
80)	n-Propylbenzene	17.60	91	22998147	33.92	ug/l	78
81)	Bromobenzene	17.64	156	5825578	53.81	ug/l	98
82)	1,3,5-Trimethylbenzene	17.82	105	18621012	44.06	ug/l	89
83)	2-Chlorotoluene	17.83	91	18048310	44.14	ug/l	90
84)	4-Chlorotoluene	17.90	91	17352272	49.42	ug/l	92
85)	tert-Butylbenzene	18.28	134	4928324	52.41	ug/l	97
86)	1,2,4-Trimethylbenzene	18.32	105	17654067	42.71	ug/l	84
87)	sec-Butylbenzene	18.53	105	19994673	33.98	ug/l	80
88)	p-Isopropyltoluene	18.70	119	18174252	39.04	ug/l	87
89)	1,3-Dichlorobenzene	18.79	146	10786008	51.20	ug/l	97
90)	1,2,3-Trimethylbenzene	18.87	105	15837658	43.36	ug/l	90
91)	1,4-Dichlorobenzene	18.92	146	10487857	51.59	ug/l	97
92)	n-Butylbenzene	19.14	91	16967221	37.04	ug/l	85
93)	1,2-Dichlorobenzene	19.31	146	8434336	49.11	ug/l	98
94)	1,2-Dibromo-3-chloropropan	20.08	157	455685	44.13	ug/l	99
95)	1,2,4-Trichlorobenzene	20.91	180	5079126	50.98	ug/l	99
96)	Hexachlorobutadiene	21.04	225	2572623	52.99	ug/l	94
97)	Naphthalene	21.17	128	7288171	52.19	ug/l	98

(#) = qualifier out of range (m) = manual integration

SM 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW367.D Vial: 10
Acq On : 19 Oct 2024 7:30 pm Operator: DHguye
Sample : VO06J199 5.00/25.0uL Inst : 06
Misc : 50ppb 8260/250ppb KET-AA/1250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	1,2,3-Trichlorobenzene	21.41	180	3952039	52.63	ug/l	98

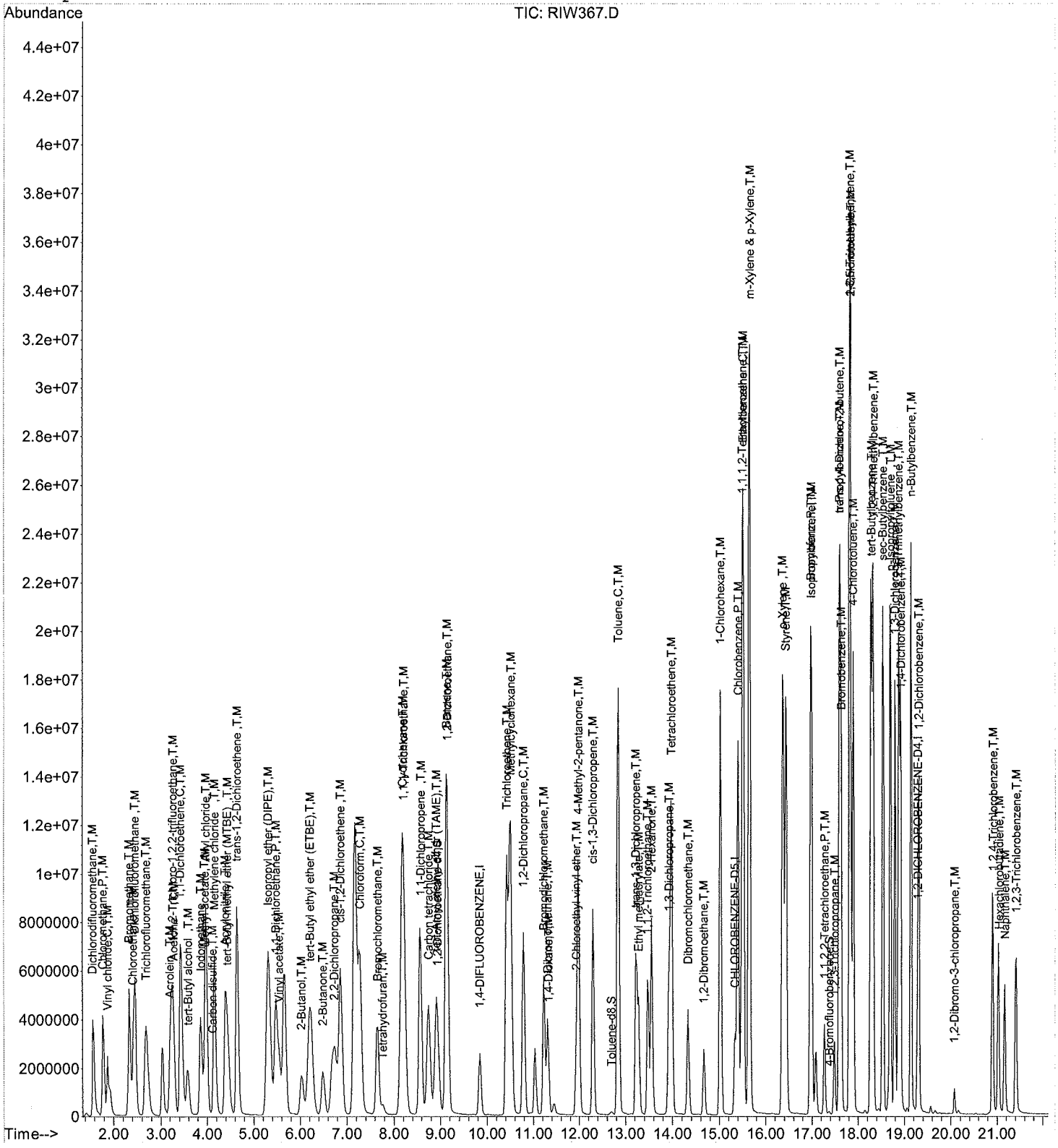
SY 11/15/24

(#) = qualifier out of range (m) = manual integration
RIW367.D VO06J19.M Thu Nov 14 17:16:12 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW367.D Vial: 10
Acq On : 19 Oct 2024 7:30 pm Operator: DHguye
Sample : VO06J199 5.00/25.0uL Inst : 06
Misc : 50ppb 8260/250ppb KET-AA/1250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW368.D Vial: 11
Acq On : 19 Oct 2024 7:57 pm Operator: DHguye
Sample : VO06J1910 10.0/50.0uL Inst : 06
Misc : 100ppb 8260/500ppb KET-AA/2500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4653059	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	3414542	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.29	152	1259573	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	8074	0.07	ug/l	0.00
Spiked Amount 10.000			Recovery = 0.70%			
42) 1,2-Dichloroethane-d4	8.92	65	27788	0.35	ug/l	-0.04
Spiked Amount 10.000			Recovery = 3.50%			
55) Toluene-d8	12.69	98	44048	0.09	ug/l	0.00
Spiked Amount 10.000			Recovery = 0.90%			
77) 4-Bromofluorobenzene	17.36	95	48276	0.34	ug/l	-0.01
Spiked Amount 10.000			Recovery = 3.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.56	85	14977583	90.52	ug/l	96
3) Chloromethane	1.78	50	16216899	100.82	ug/l	95
4) Vinyl chloride	1.87	62	10157499	78.75	ug/l	96
5) Bromomethane	2.33	94	12069386	102.86	ug/l	99
6) Chloroethane	2.41	64	9256383	104.22	ug/l	97
7) Dichlorofluoromethane	2.45	67	19981742	91.81	ug/l	93
8) Trichlorofluoromethane	2.68	101	17282141	100.04	ug/l	99
9) Acrolein	3.19	56	2451225	508.89	ug/l	93
10) 1,1,2-Trichloro-1,2,2-trif	3.24	151	9591596	96.84	ug/l	95
11) Acetone	3.28	43	7236910	502.54	ug/l	96
12) 1,1-Dichloroethene	3.43	61	20144282	95.63	ug/l	96
13) tert-Butyl alcohol	3.59	59	11389758	2861.51	ug/l	100
15) Methyl acetate	3.95	74	1018643	104.09	ug/l	83
16) Iodomethane	3.84	142	21455943	99.38	ug/l	99
17) Allyl chloride	3.97	76	8913849	105.71	ug/l	94
18) Methylene chloride	4.14	49	15465879	100.11	ug/l	98
20) Acrylonitrile	4.39	53	10277816	534.98	ug/l	99
21) tert-Butyl methyl ether (M	4.43	73	23334699	103.94	ug/l	96
22) trans-1,2-Dichloroethene	4.64	96	15238985	96.61	ug/l	96
23) Isopropyl ether (DIPE)	5.31	45	41386614	99.37	ug/l	93
24) Vinyl acetate	5.54	43	15449230	106.90	ug/l	96
25) 1,1-Dichloroethane	5.46	63	23299461	99.33	ug/l	95
26) 2-Butanol	6.05	45	10631641	2663.74	ug/l	97
27) tert-Butyl ethyl ether (ET	6.21	59	33903940	110.14	ug/l	100
28) 2-Butanone	6.49	43	13237360	545.16	ug/l	96
29) 2,2-Dichloropropane	6.74	77	11416196	81.22	ug/l	95
30) cis-1,2-Dichloroethene	6.86	96	15612039	102.55	ug/l	96
31) Chloroform	7.28	83	22874379	97.65	ug/l	96
32) Bromochloromethane	7.66	130	7011378	108.12	ug/l	99
33) Tetrahydrofuran	7.77	42	1471001	105.74	ug/l	94
36) 1,1,1-Trichloroethane	8.21	97	17610020	94.21	ug/l	97
37) Cyclohexane	8.19	84	21515403	92.14	ug/l	96
39) 1,1-Dichloropropene	8.56	110	7026912	102.05	ug/l	96
40) Carbon tetrachloride	8.75	119	14826776	97.30	ug/l	99
41) tert-Amyl methyl ether (TA	8.92	73	26544625	101.86	ug/l	97
43) 1,2-Dichloroethane	9.15	62	10022901	105.66	ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW368.D Vial: 11
Acq On : 19 Oct 2024 7:57 pm Operator: DHguye
Sample : VO06J1910 10.0/50.0uL Inst : 06
Misc : 100ppb 8260/500ppb KET-AA/2500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

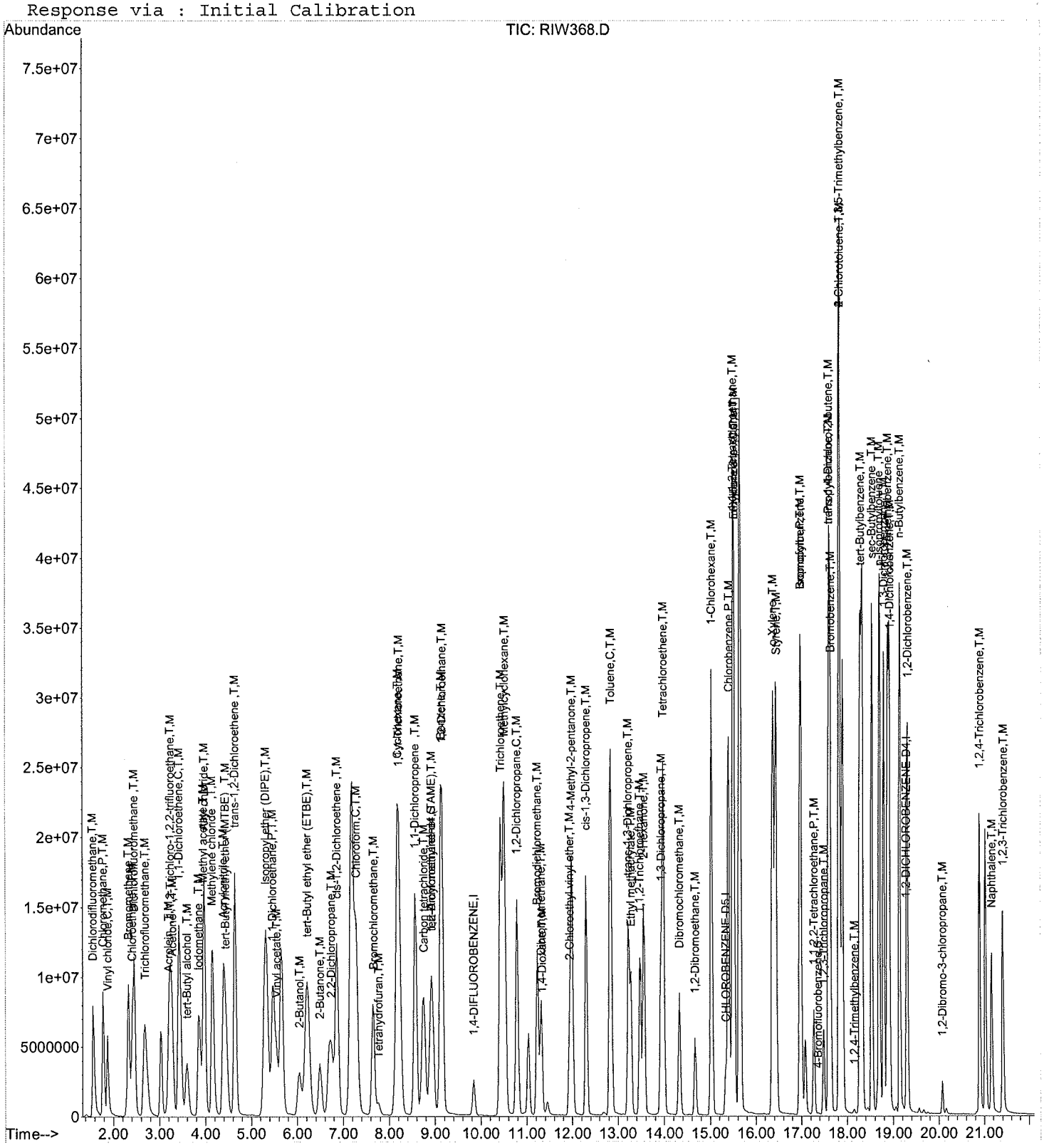
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
44)	Benzene	9.13	78	39650618	73.54	ug/l		81
45)	Trichloroethene	10.43	130	14236677	99.96	ug/l		98
46)	Methylcyclohexane	10.51	83	25299136	87.07	ug/l		97
47)	1,2-Dichloropropane	10.79	63	12295706	104.80	ug/l		99
48)	1,4-Dioxane	11.33	88	889072	2088.66	ug/l		99
49)	Bromodichloromethane	11.23	83	15082558	99.41	ug/l		98
50)	Dibromomethane	11.31	93	5893028	103.89	ug/l		99
51)	2-Chloroethyl vinyl ether	11.94	63	4114303	107.13	ug/l		99
52)	4-Methyl-2-pentanone	11.98	43	29132986	449.94	ug/l		90
53)	cis-1,3-Dichloropropene	12.30	75	18660398	102.63	ug/l		96
56)	Toluene	12.84	91	31886302	56.26	ug/l		66
57)	Ethyl methacrylate	13.28	69	9769841	106.29	ug/l		99
58)	trans-1,3-Dichloropropene	13.22	75	13910943	104.39	ug/l		98
59)	1,1,2-Trichloroethane	13.47	97	7266856	101.97	ug/l		98
60)	2-Hexanone	13.55	43	19202117	475.59	ug/l		92
61)	1,3-Dichloropropane	13.93	76	12838612	101.12	ug/l		95
62)	Tetrachloroethene	13.97	164	11830542	98.33	ug/l		98
63)	Dibromochloromethane	14.33	129	9019250	102.34	ug/l		100
65)	1,2-Dibromoethane	14.67	107	6820394	104.81	ug/l		95
66)	1-Chlorohexane	15.02	91	19098846	82.70	ug/l		95
67)	Chlorobenzene	15.40	112	24832674	80.17	ug/l		79
68)	1,1,1,2-Tetrachloroethane	15.49	131	10844225	103.68	ug/l		98
69)	Ethylbenzene	15.52	91	30736898	50.27	ug/l		45
70)	m-Xylene & p-Xylene	15.52	91	23979929	52.38	ug/l		76
71)	o-Xylene	16.36	91	28035182	60.77	ug/l		63
72)	Styrene	16.44	104	25697054	77.93	ug/l		74
73)	Isopropylbenzene	16.97	105	30834814	51.55	ug/l		64
75)	Bromoform	16.97	173	4355828	110.78	ug/l		99
76)	1,1,2,2-Tetrachloroethane	17.27	83	7172828	104.73	ug/l		100
78)	1,2,3-Trichloropropane	17.49	110	1860317	106.10	ug/l		95
79)	trans-1,4-Dichloro-2-buten	17.60	53	1773023	109.17	ug/l		100
80)	n-Propylbenzene	17.60	91	28473211	40.53	ug/l	#	42
81)	Bromobenzene	17.64	156	11949663	106.52	ug/l		96
82)	1,3,5-Trimethylbenzene	17.82	105	24393419	55.70	ug/l		64
83)	2-Chlorotoluene	17.83	91	27063361	63.87	ug/l		68
84)	4-Chlorotoluene	17.83	91	27063361	74.39	ug/l		64
85)	tert-Butylbenzene	18.29	134	10024227	102.88	ug/l		96
86)	1,2,4-Trimethylbenzene	18.16	105	265124	0.62	ug/l		61
87)	sec-Butylbenzene	18.53	105	25585775	41.96	ug/l		42
88)	p-Isopropyltoluene	18.69	119	24515314	50.82	ug/l		52
89)	1,3-Dichlorobenzene	18.79	146	18307471	83.87	ug/l		83
90)	1,2,3-Trimethylbenzene	18.88	105	22256819	58.80	ug/l		62
91)	1,4-Dichlorobenzene	18.92	146	17966829	85.28	ug/l		82
92)	n-Butylbenzene	19.14	91	22027226	46.41	ug/l		61
93)	1,2-Dichlorobenzene	19.31	146	16377204	92.02	ug/l		89
94)	1,2-Dibromo-3-chloropropan	20.08	157	1056098	98.70	ug/l		98
95)	1,2,4-Trichlorobenzene	20.89	180	11504784	111.44	ug/l		98
96)	Hexachlorobutadiene	21.02	225	7277719	Below Cal			94
97)	Naphthalene	21.17	128	15677824	108.35	ug/l		96
98)	1,2,3-Trichlorobenzene	21.41	180	8853551	113.78	ug/l		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW368.D Vial: 11
Acq On : 19 Oct 2024 7:57 pm Operator: DHguye
Sample : VO06J1910 10.0/50.0uL Inst : 06
Misc : 100ppb 8260/500ppb KET-AA/2500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :06
IC Beginning DateTime :10/19/24 15:59
Spike Amount :10_PPB
CC/CV File :RIW371
IC File :RIW364

Column Spec :RTX502.2 ID :0.25MM
IC Ending DateTime :10/19/24 19:57
HPChem Method :V006J19
Date_Time :10/19/24 21:15

M	IDX	Parameters	CC_Con	CC% D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	% RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,4-DIFLUOROBENZENE	10.000	0	4162272	1	1	9.842	9.842	0				
	2	Dichlorodifluoromethane	10.015	0.2	1482386	0.356	0.356	1.578	1.573	12.33				
	3	Chloromethane	11.640	16.4	1674934	0.402	0.346	1.795	1.792	12.43				
	4	Vinyl chloride	12.009	20.1	1385719	0.333	0.277	1.894	1.900	14.95				
	5	Bromomethane	11.737	17.4	1231998	0.296	0.252	2.328	2.333	13.23				
	6	Chloroethane	11.566	15.7	918929	0.221	0.191	2.407	2.420	11.28				
	7	Dichlorofluoromethane	10.927	9.3	2127547	0.511	0.468	2.466	2.460	10.00				
	8	Trichlorofluoromethane	10.491	4.9	1621305	0.390	0.371	2.684	2.691	11.49				
5	9	Acrolein	49.453	-1.1	213086	0.010	0.010	3.194	3.204	5.97				
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	9.595	-4.0	850149	0.204	0.213	3.236	3.256	13.61				
5	11	Acetone	48.582	-2.8	625827	0.030	0.031	3.278	3.290	6.01				
	12	1,1-Dichloroethene	10.428	4.3	1964938	0.472	0.453	3.425	3.438	10.84				
25	13	tert-Butyl alcohol	242.198	-3.1	862347	0.008	0.009	3.572	3.586	14.67				
	14	Acetonitrile												
	15	Methyl acetate	9.708	-2.9	84986	0.020	0.021	3.970	3.964	4.29				
	16	Iodomethane	11.039	10.4	2132130	0.512	0.464	3.865	3.864	8.54				
	17	Allyl chloride	10.577	5.8	797865	0.192	0.181	3.991	3.987	8.24				
	18	Methylene chloride	10.841	8.4	1498306	0.360	0.332	4.159	4.157	8.33				
	19	Carbon disulfide	10.885	8.9	2568453	0.617	0.567	4.117	4.131	13.30				
5	20	Acrylonitrile	53.573	7.1	920676	0.044	0.041	4.389	4.398	8.82				
	21	tert-Butyl methyl ether (MTBE)	10.927	9.3	2194529	0.527	0.482	4.431	4.443	9.00				
	22	trans-1,2-Dichloroethene	10.707	7.1	1510803	0.363	0.339	4.662	4.656	11.64				
	23	Isopropyl ether (DIPE)	11.184	11.8	4166807	1.001	0.895	5.312	5.325	9.09				
	24	Vinyl acetate	10.758	7.6	1390779	0.334	0.311	5.543	5.557	14.53				
	25	1,1-Dichloroethane	10.885	8.9	2283914	0.549	0.504	5.480	5.478	8.18				
25	26	2-Butanol	254.663	1.9	909216	0.009	0.009	6.025	6.038	10.55				
	27	tert-Butyl ethyl ether (ETBE)	10.578	5.8	2912787	0.700	0.662	6.214	6.225	7.94				
5	28	2-Butanone	51.859	3.7	1126406	0.054	0.052	6.486	6.501	14.55				
	29	2,2-Dichloropropane	10.625	6.3	1335971	0.321	0.302	6.738	6.750	11.90				
	30	cis-1,2-Dichloroethene	10.844	8.4	1476730	0.355	0.327	6.864	6.877	8.13				
	31	Chloroform	10.465	4.7	2192925	0.527	0.503	7.262	7.284	9.43				
	32	Bromochloromethane	11.171	11.7	648018	0.156	0.139	7.661	7.661	9.49				
	33	Tetrahydrofuran	9.682	-3.2	120486	0.029	0.030	7.766	7.785	10.62				
5	34	tert-Amyl alcohol												
	35	Dibromofluoromethane	12.000	20.0	1223430	0.294	0.245	7.808	7.808	14.43				
	36	1,1,1-Trichloroethane	10.592	5.9	1771028	0.425	0.402	8.206	8.209	10.25				
	37	Cyclohexane	10.436	4.4	2180112	0.524	0.502	8.185	8.190	11.11				
	38	2,2,4-Trimethylpentane												
	39	1,1-Dichloropropene	10.270	2.7	632607	0.152	0.148	8.563	8.582	9.27				
	40	Carbon tetrachloride	10.451	4.5	1424683	0.342	0.327	8.751	8.756	9.00				
	41	tert-Amyl methyl ether (TAME)	10.813	8.1	2520660	0.606	0.560	8.919	8.932	7.54				
	42	1,2-Dichloroethane-d4	11.918	19.2	841219	0.202	0.170	8.940	8.959	14.43				
	43	1,2-Dichloroethane	11.206	12.1	950929	0.228	0.204	9.150	9.155	11.62				
	44	Benzene	11.206	12.1	5405418	1.299	1.159	9.129	9.138	12.05				
	45	Trichloroethene	11.160	11.6	1421894	0.342	0.306	10.429	10.432	9.05				
	46	Methylcyclohexane	10.125	1.3	2631829	0.632	0.624	10.492	10.514	14.68				
	47	1,2-Dichloropropane	10.983	9.8	1152775	0.277	0.252	10.785	10.792	8.38				
20	48	1,4-Dioxane	183.699	-8.2	69947	0.001	0.001	11.331	11.337	11.50				
	49	Bromodichloromethane	10.599	6.0	1436541	0.346	0.326	11.226	11.233	7.01				
	50	Dibromomethane	10.528	5.3	534221	0.128	0.122	11.310	11.310	8.82				
	51	2-Chloroethyl vinyl ether	10.501	5.0	360758	0.087	0.083	11.939	11.939	8.53				
5	52	4-Methyl-2-pentanone	56.570	13.1	3276564	0.157	0.139	11.981	11.988	14.61				
	53	cis-1,3-Dichloropropene	11.144	11.4	1812567	0.435	0.391	12.295	12.304	11.87				
	54	CHLOROBENZENE-D5	10.000	0	3018237	1	1	15.339	15.339	0				
	55	Toluene-d8	11.858	18.6	4946713	1.639	1.382	12.694	12.703	13.88				
	56	Toluene	11.090	10.9	5555774	1.841	1.660	12.841	12.841	9.78				
	57	Ethyl methacrylate	11.115	11.1	903052	0.299	0.269	13.281	13.286	11.16				
	58	trans-1,3-Dichloropropene	11.268	12.7	1327325	0.440	0.390	13.218	13.231	12.81				
	59	1,1,2-Trichloroethane	10.978	9.8	691555	0.229	0.209	13.470	13.483	10.33				
5	60	2-Hexanone	55.362	10.7	1975833	0.131	0.118	13.554	13.565	10.99				
	61	1,3-Dichloropropane	11.177	11.8	1254401	0.416	0.372	13.931	13.932	10.10				
	62	Tetrachloroethene	10.578	5.8	1125068	0.373	0.352	13.973	13.986	9.93				
	63	Dibromochloromethane	10.742	7.4	836868	0.277	0.258	14.330	14.332	9.14				
	64	2-Ethyl-1-butanol												
	65	1,2-Dibromoethane	11.338	13.4	652205	0.216	0.191	14.665	14.672	12.90				
	66	1-Chlorohexane	9.963	-0.4	2033826	0.674	0.676	15.022	15.022	11.14				
	67	Chlorobenzene	11.312	13.1	3097495	1.026	0.907	15.391	15.404	11.92				
	68	1,1,1,2-Tetrachloroethane	10.922	9.2	1009857	0.335	0.306	15.494	15.495	9.38				
	69	Ethylbenzene	10.819	8.2	5848074	1.938	1.791	15.507	15.513	12.23				
2	70	m-Xylene & p-Xylene	21.443	7.2	8677728	1.438	1.341	15.637	15.647	11.99				
	71	o-Xylene	10.810	8.1	4408402	1.461	1.351	16.364	16.368	9.54				
	72	Styrene	11.245	12.4	3277729	1.086	0.966	16.429	16.438	12.84				
	73	Isopropylbenzene	10.664	6.6	5638140	1.868	1.752	16.974	16.986	12.29				
	74	1,2-DICHLOROBENZENE-D4	10.000	0	1111743	1	1	19.285	19.285	0				
	75	Bromoform	10.910	9.1	378667	0.341	0.312	16.974	16.974	12.92				
	76	1,1,2,2-Tetrachloroethane	11.398	14.0	689074	0.620	0.544	17.273	17.273	12.96				
	77	4-Bromofluorobenzene	11.689	16.9	1450999	1.305	1.116	17.364	17.372	14.29				
	78	1,2,3-Trichloropropane	11.051	10.5	171032	0.154	0.139	17.493	17.493	12.14				
	79	trans-1,4-Dichloro-2-butene	10.772	7.7	154413	0.139	0.129	17.597	17.604	14.30				
	80	n-Propylbenzene	11.283	12.8	6997014	6.294	5.578	17.597	17.599	13.24				
	81	Bromobenzene	11.378	13.8	1126592	1.013	0.891	17.636	17.638	14.69				
	82	1,3,5-Trimethylbenzene	11.165	11.6	4315957	3.882	3.477	17.818	17.818	11.80				
	83	2-Chlorotoluene	11.033	10.3	4126516	3.712	3.364	17.831	17.831	10.55				
	84	4-Chlorotoluene	11.601	16.0	3725365	3.351	2.888	17.896	17.896	14.25				
	85	tert-Butylbenzene	11.053	10.5	950635	0.855	0.774	18.272	18.279	11.90				
	86	1,2,4-Trimethylbenzene	11.077	10.8	4187243	3.766	3.400	18.311	18.324	12.47				
	87	sec-Butylbenzene	10.516	5.2	5660075	5.091	4.841	18.532	18.532	12.46				
	88	p-Isopropyltoluene	10.771	7.7	4586332	4.125	3.830	18.688	18.699	13.96				
	89	1,3-Dichlorobenzene	11.219	12.2	2161614	1.944	1.733	18.792	18.792	12.70				
	90	1,2,3-Trimethylbenzene	10.987	9.9	3670620	3.302	3.005	18.869	18.871	10.74				
	91	1,4-Dichlorobenzene	11.426	14.3	2124602	1.911	1.673	18.908	18.919	12.63				
	92	n-Butylbenzene	10.358	3.6	4339989	3.904	3.769	19.142	19.142	13.67				
	93	1,2-Dichlorobenzene	11.130	11.3	1748399	1.573	1.413	19.311	19.311	10.06				
	94	1,2-Dibromo-3-chloropropane	8.964	-10.4	84657	0.076	0.085	20.077	20.078	13.87				
	95	1,2,4-Trichlorobenzene	10.334	3.3	941613	0.847	0.820	20.894	20.905	11.66				
	96	Hexachlorobutadiene	10.897	9.0	589859	0.531	0.489	21.024	21.034	19.00	0.0009	0.5085	-0.0206	0.9928
	97	Naphthalene	10.401	4.0	1328412	1.195	1.149	21.167	21.168	10.32				
	98	1,2,3-Trichlorobenzene	10.651	6.5	731559	0.658	0.618	21.414	21.414	13.43				

Spike Amount = Nominal Amount * M

11/15/24

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D Vial: 14
Acq On : 19 Oct 2024 9:15 pm Operator: DHguye
Sample : IVO06J191 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	109	0.00
2	T,M	Dichlorodifluoromethane	10.000	10.016	-0.2	91	0.01
3	P,T,M	Chloromethane	10.000	11.640	-16.4	102	0.00
4	C,T,M	Vinyl chloride	10.000	12.010	-20.1#	100	0.00
5	T,M	Bromomethane	10.000	11.737	-17.4	107	0.00
6	T,M	Chloroethane	10.000	11.567	-15.7	103	0.00
7	T,M	Dichlorofluoromethane	10.000	10.928	-9.3	100	0.01
8	T,M	Trichlorofluoromethane	10.000	10.491	-4.9	94	0.00
9	T,M	Acrolein	50.000	49.454	1.1	96	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	9.595	4.0	85	-0.02
11	T,M	Acetone	50.000	48.583	2.8	98	-0.02
12	C,T,M	1,1-Dichloroethene	10.000	10.428	-4.3	95	-0.02
13	T,M	tert-Butyl alcohol	250.000	242.199	3.1	95	-0.02
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	9.709	2.9	106	0.00
16	T,M	Iodomethane	10.000	11.040	-10.4	100	0.00
17	T,M	Allyl chloride	10.000	10.578	-5.8	98	0.00
18	T,M	Methylene chloride	10.000	10.842	-8.4	101	0.00
19	T,M	Carbon disulfide	10.000	10.886	-8.9	94	-0.02
20	T,M	Acrylonitrile	50.000	53.573	-7.1	100	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	10.927	-9.3	99	0.00
22	T,M	trans-1,2-Dichloroethene	10.000	10.707	-7.1	101	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	11.184	-11.8	100	-0.02
24	T,M	Vinyl acetate	10.000	10.758	-7.6	96	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.885	-8.8	101	0.00
26	T,M	2-Butanol	250.000	254.663	-1.9	104	-0.02
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.579	-5.8	100	0.00
28	T,M	2-Butanone	50.000	51.860	-3.7	96	-0.02
29	T,M	2,2-Dichloropropane	10.000	10.625	-6.3	93	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	10.844	-8.4	101	-0.02
31	C,T,M	Chloroform	10.000	10.466	-4.7	100	-0.02
32	T,M	Bromochloromethane	10.000	11.171	-11.7	102	0.00
33	T,M	Tetrahydrofuran	10.000	9.682	3.2	109	0.00
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	-0.02
35	S	Dibromofluoromethane	10.000	12.000	-20.0	102	0.00
36	T,M	1,1,1-Trichloroethane	10.000	10.592	-5.9	98	0.00
37	T,M	Cyclohexane	10.000	10.437	-4.4	96	0.00
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	-8.56#
39	T,M	1,1-Dichloropropene	10.000	10.270	-2.7	98	-0.02
40	T,M	Carbon tetrachloride	10.000	10.451	-4.5	95	0.00
41	T,M	tert-Amyl methyl ether (TAM	10.000	10.813	-8.1	99	-0.02
42	S	1,2-Dichloroethane-d4	10.000	11.918	-19.2	99	-0.02
43	T,M	1,2-Dichloroethane	10.000	11.207	-12.1	100	0.00
44	T,M	Benzene	10.000	11.207	-12.1	100	0.00
45	T,M	Trichloroethene	10.000	11.160	-11.6	101	0.00
46	T,M	Methylcyclohexane	10.000	10.125	-1.3	100	-0.02
47	C,T,M	1,2-Dichloropropane	10.000	10.984	-9.8	102	0.00
48	T,M	1,4-Dioxane	200.000	183.699	8.2	96	0.00
49	T,M	Bromodichloromethane	10.000	10.599	-6.0	99	0.00
50	T,M	Dibromomethane	10.000	10.528	-5.3	98	0.00

(#) = Out of Range

11/15/24

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D Vial: 14
Acq On : 19 Oct 2024 9:15 pm Operator: DHguye
Sample : IVO06J191 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	10.502	-5.0	102	0.00
52	T,M	4-Methyl-2-pentanone	50.000	56.571	-13.1	99	0.00
53	T,M	cis-1,3-Dichloropropene	10.000	11.145	-11.4	98	0.00
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	107	0.00
55	S	Toluene-d8	10.000	11.859	-18.6	98	0.00
56	C,T,M	Toluene	10.000	11.090	-10.9	100	0.00
57	T,M	Ethyl methacrylate	10.000	11.115	-11.2	98	0.00
58	T,M	trans-1,3-Dichloropropene	10.000	11.268	-12.7	98	-0.02
59	T,M	1,1,2-Trichloroethane	10.000	10.978	-9.8	98	-0.02
60	T,M	2-Hexanone	50.000	55.363	-10.7	98	0.00
61	T,M	1,3-Dichloropropane	10.000	11.178	-11.8	98	0.00
62	T,M	Tetrachloroethene	10.000	10.579	-5.8	95	-0.02
63	T,M	Dibromochloromethane	10.000	10.743	-7.4	97	0.00
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	11.338	-13.4	98	0.00
66	T,M	1-Chlorohexane	10.000	9.963	0.4	94	0.00
67	P,T,M	Chlorobenzene	10.000	11.313	-13.1	98	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	10.000	10.923	-9.2	97	0.00
69	C,T,M	Ethylbenzene	10.000	10.820	-8.2	96	0.00
70	T,M	m-Xylene & p-Xylene	20.000	21.444	-7.2	97	-0.01
71	T,M	o-Xylene	10.000	10.811	-8.1	98	0.00
72	T,M	Styrene	10.000	11.245	-12.4	97	-0.01
73	T,M	Isopropylbenzene	10.000	10.665	-6.6	96	-0.01
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	102	0.00
75	P,T,M	Bromoform	10.000	10.911	-9.1	96	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	11.399	-14.0	95	0.00
77	S	4-Bromofluorobenzene	10.000	11.690	-16.9	97	-0.01
78	T,M	1,2,3-Trichloropropane	10.000	11.051	-10.5	99	0.00
79	T,M	trans-1,4-Dichloro-2-butene	10.000	10.772	-7.7	94	0.00
80	T,M	n-Propylbenzene	10.000	11.283	-12.8	96	0.00
81	T,M	Bromobenzene	10.000	11.378	-13.8	94	0.00
82	T,M	1,3,5-Trimethylbenzene	10.000	11.166	-11.7	93	0.00
83	T,M	2-Chlorotoluene	10.000	11.033	-10.3	97	0.00
84	T,M	4-Chlorotoluene	10.000	11.601	-16.0	92	0.00
85	T,M	tert-Butylbenzene	10.000	11.054	-10.5	92	-0.01
86	T,M	1,2,4-Trimethylbenzene	10.000	11.077	-10.8	93	-0.01
87	T,M	sec-Butylbenzene	10.000	10.516	-5.2	89	0.00
88	T,M	p-Isopropyltoluene	10.000	10.772	-7.7	90	-0.01
89	T,M	1,3-Dichlorobenzene	10.000	11.219	-12.2	92	0.00
90	T,M	1,2,3-Trimethylbenzene	10.000	10.988	-9.9	92	0.00
91	T,M	1,4-Dichlorobenzene	10.000	11.426	-14.3	93	-0.01
92	T,M	n-Butylbenzene	10.000	10.359	-3.6	89	0.00
93	T,M	1,2-Dichlorobenzene	10.000	11.131	-11.3	92	0.00
94	T,M	1,2-Dibromo-3-chloropropane	10.000	8.964	10.4	89	0.00
95	T,M	1,2,4-Trichlorobenzene	10.000	10.334	-3.3	90	-0.01
96	T,M	Hexachlorobutadiene	10.000	10.897	-9.0	91	-0.01
97	T,M	Naphthalene	10.000	10.401	-4.0	91	0.00
98	T,M	1,2,3-Trichlorobenzene	10.000	10.652	-6.5	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

RIW371.D VO06J19.M Fri Nov 15 10:43:01 2024 SA 11/15/24

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D Vial: 14
Acq On : 19 Oct 2024 9:15 pm Operator: DHguye
Sample : IVO06J191 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	109	0.00
2	T,M	Dichlorodifluoromethane	0.356	0.356	0.0	91	0.01
3	P,T,M	Chloromethane	0.346	0.402	-16.2	102	0.00
4	C,T,M	Vinyl chloride	0.277	0.333	-20.2#	100	0.00
5	T,M	Bromomethane	0.252	0.296	-17.5	107	0.00
6	T,M	Chloroethane	0.191	0.221	-15.7	103	0.00
7	T,M	Dichlorofluoromethane	0.468	0.511	-9.2	100	0.01
8	T,M	Trichlorofluoromethane	0.371	0.390	-5.1	94	0.00
9	T,M	Acrolein	0.010	0.010	0.0	96	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.204	4.2	85	-0.02
11	T,M	Acetone	0.031	0.030	3.2	98	-0.02
12	C,T,M	1,1-Dichloroethene	0.453	0.472	-4.2	95	-0.02
13	T,M	tert-Butyl alcohol	0.009	0.008	11.1	95	-0.02
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.020	4.8	106	0.00
16	T,M	Iodomethane	0.464	0.512	-10.3	100	0.00
17	T,M	Allyl chloride	0.181	0.192	-6.1	98	0.00
18	T,M	Methylene chloride	0.332	0.360	-8.4	101	0.00
19	T,M	Carbon disulfide	0.567	0.617	-8.8	94	-0.02
20	T,M	Acrylonitrile	0.041	0.044	-7.3	100	0.00
21	T,M	tert-Butyl methyl ether (MT	0.482	0.527	-9.3	99	0.00
22	T,M	trans-1,2-Dichloroethene	0.339	0.363	-7.1	101	0.00
23	T,M	Isopropyl ether (DIPE)	0.895	1.001	-11.8	100	-0.02
24	T,M	Vinyl acetate	0.311	0.334	-7.4	96	-0.02
25	P,T,M	1,1-Dichloroethane	0.504	0.549	-8.9	101	0.00
26	T,M	2-Butanol	0.009	0.009	0.0	104	-0.02
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.700	-5.7	100	0.00
28	T,M	2-Butanone	0.052	0.054	-3.8	96	-0.02
29	T,M	2,2-Dichloropropane	0.302	0.321	-6.3	93	-0.02
30	T,M	cis-1,2-Dichloroethene	0.327	0.355	-8.6	101	-0.02
31	C,T,M	Chloroform	0.503	0.527	-4.8	100	-0.02
32	T,M	Bromochloromethane	0.139	0.156	-12.2	102	0.00
33	T,M	Tetrahydrofuran	0.030	0.029	3.3	109	0.00
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	-0.02
35	S	Dibromofluoromethane	0.245	0.294	-20.0	102	0.00
36	T,M	1,1,1-Trichloroethane	0.402	0.425	-5.7	98	0.00
37	T,M	Cyclohexane	0.502	0.524	-4.4	96	0.00
38	T,M	2,2,4-Trimethylpentane	0.000	0.000	0.0	0#	-8.56#
39	T,M	1,1-Dichloropropene	0.148	0.152	-2.7	98	-0.02
40	T,M	Carbon tetrachloride	0.327	0.342	-4.6	95	0.00
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.606	-8.2	99	-0.02
42	S	1,2-Dichloroethane-d4	0.170	0.202	-18.8	99	-0.02
43	T,M	1,2-Dichloroethane	0.204	0.228	-11.8	100	0.00
44	T,M	Benzene	1.159	1.299	-12.1	100	0.00
45	T,M	Trichloroethene	0.306	0.342	-11.8	101	0.00
46	T,M	Methylcyclohexane	0.624	0.632	-1.3	100	-0.02
47	C,T,M	1,2-Dichloropropane	0.252	0.277	-9.9	102	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	96	0.00
49	T,M	Bromodichloromethane	0.326	0.346	-6.1	99	0.00
50	T,M	Dibromomethane	0.122	0.128	-4.9	98	0.00

(#) = Out of Range

SA 11/15/24

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D Vial: 14
Acq On : 19 Oct 2024 9:15 pm Operator: DHguye
Sample : IVO06J191 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.083	0.087	-4.8	102	0.00
52	T,M	4-Methyl-2-pentanone	0.139	0.157	-12.9	99	0.00
53	T,M	cis-1,3-Dichloropropene	0.391	0.435	-11.3	98	0.00
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	107	0.00
55	S	Toluene-d8	1.382	1.639	-18.6	98	0.00
56	C,T,M	Toluene	1.660	1.841	-10.9	100	0.00
57	T,M	Ethyl methacrylate	0.269	0.299	-11.2	98	0.00
58	T,M	trans-1,3-Dichloropropene	0.390	0.440	-12.8	98	-0.02
59	T,M	1,1,2-Trichloroethane	0.209	0.229	-9.6	98	-0.02
60	T,M	2-Hexanone	0.118	0.131	-11.0	98	0.00
61	T,M	1,3-Dichloropropane	0.372	0.416	-11.8	98	0.00
62	T,M	Tetrachloroethene	0.352	0.373	-6.0	95	-0.02
63	T,M	Dibromochloromethane	0.258	0.277	-7.4	97	0.00
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.216	-13.1	98	0.00
66	T,M	1-Chlorohexane	0.676	0.674	0.3	94	0.00
67	P,T,M	Chlorobenzene	0.907	1.026	-13.1	98	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.335	-9.5	97	0.00
69	C,T,M	Ethylbenzene	1.791	1.938	-8.2	96	0.00
70	T,M	m-Xylene & p-Xylene	1.341	1.438	-7.2	97	-0.01
71	T,M	o-Xylene	1.351	1.461	-8.1	98	0.00
72	T,M	Styrene	0.966	1.086	-12.4	97	-0.01
73	T,M	Isopropylbenzene	1.752	1.868	-6.6	96	-0.01
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	102	0.00
75	P,T,M	Bromoform	0.312	0.341	-9.3	96	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.620	-14.0	95	0.00
77	S	4-Bromofluorobenzene	1.116	1.305	-16.9	97	-0.01
78	T,M	1,2,3-Trichloropropane	0.139	0.154	-10.8	99	0.00
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.139	-7.8	94	0.00
80	T,M	n-Propylbenzene	5.578	6.294	-12.8	96	0.00
81	T,M	Bromobenzene	0.891	1.013	-13.7	94	0.00
82	T,M	1,3,5-Trimethylbenzene	3.477	3.882	-11.6	93	0.00
83	T,M	2-Chlorotoluene	3.364	3.712	-10.3	97	0.00
84	T,M	4-Chlorotoluene	2.888	3.351	-16.0	92	0.00
85	T,M	tert-Butylbenzene	0.774	0.855	-10.5	92	-0.01
86	T,M	1,2,4-Trimethylbenzene	3.400	3.766	-10.8	93	-0.01
87	T,M	sec-Butylbenzene	4.841	5.091	-5.2	89	0.00
88	T,M	p-Isopropyltoluene	3.830	4.125	-7.7	90	-0.01
89	T,M	1,3-Dichlorobenzene	1.733	1.944	-12.2	92	0.00
90	T,M	1,2,3-Trimethylbenzene	3.005	3.302	-9.9	92	0.00
91	T,M	1,4-Dichlorobenzene	1.673	1.911	-14.2	93	-0.01
92	T,M	n-Butylbenzene	3.769	3.904	-3.6	89	0.00
93	T,M	1,2-Dichlorobenzene	1.413	1.573	-11.3	92	0.00
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.076	10.6	89	0.00
95	T,M	1,2,4-Trichlorobenzene	0.820	0.847	-3.3	90	-0.01
96	T,M	Hexachlorobutadiene	0.489	0.531	-8.6	91	-0.01
97	T,M	Naphthalene	1.149	1.195	-4.0	91	0.00
98	T,M	1,2,3-Trichlorobenzene	0.618	0.658	-6.5	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

RIW371.D VO06J19.M Fri Nov 15 10:45:43 2024 Page 2

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D Vial: 14
Acq On : 19 Oct 2024 9:15 pm Operator: DHguye
Sample : IVO06J191 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4162272	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	3018237	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1111743	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	1223430	12.00	ug/l	0.00
Spiked Amount 10.000			Recovery = 120.00%			
42) 1,2-Dichloroethane-d4	8.94	65	841219	11.92	ug/l	-0.02
Spiked Amount 10.000			Recovery = 119.20%			
55) Toluene-d8	12.69	98	4946713	11.86	ug/l	0.00
Spiked Amount 10.000			Recovery = 118.60%			
77) 4-Bromofluorobenzene	17.36	95	1450999	11.69	ug/l	-0.01
Spiked Amount 10.000			Recovery = 116.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	1482386	10.02	ug/l	98
3) Chloromethane	1.79	50	1674934	11.64	ug/l	100
4) Vinyl chloride	1.89	62	1385719	12.01	ug/l	99
5) Bromomethane	2.33	94	1231998	11.74	ug/l	97
6) Chloroethane	2.41	64	918929	11.57	ug/l	98
7) Dichlorofluoromethane	2.47	67	2127547	10.93	ug/l	99
8) Trichlorofluoromethane	2.68	101	1621305	10.49	ug/l	98
9) Acrolein	3.19	56	213086	49.45	ug/l	97
10) 1,1,2-Trichloro-1,2,2-trif	3.24	151	850149	9.60	ug/l	100
11) Acetone	3.28	43	625827	48.58	ug/l	100
12) 1,1-Dichloroethene	3.42	61	1964938	10.43	ug/l	99
13) tert-Butyl alcohol	3.57	59	862347	242.20	ug/l	100
15) Methyl acetate	3.97	74	84986	9.71	ug/l	93
16) Iodomethane	3.87	142	2132130	11.04	ug/l	100
17) Allyl chloride	3.99	76	797865	10.58	ug/l	97
18) Methylene chloride	4.16	49	1498306	10.84	ug/l	99
19) Carbon disulfide	4.12	76	2568453	10.89	ug/l	99
20) Acrylonitrile	4.39	53	920676	53.57	ug/l	99
21) tert-Butyl methyl ether (M	4.43	73	2194529	10.93	ug/l	100
22) trans-1,2-Dichloroethene	4.66	96	1510803	10.71	ug/l	99
23) Isopropyl ether (DIPE)	5.31	45	4166807	11.18	ug/l	99
24) Vinyl acetate	5.54	43	1390779	10.76	ug/l	100
25) 1,1-Dichloroethane	5.48	63	2283914	10.89	ug/l	100
26) 2-Butanol	6.03	45	909216	254.66	ug/l	98
27) tert-Butyl ethyl ether (ET	6.21	59	2912787	10.58	ug/l	100
28) 2-Butanone	6.49	43	1126406	51.86	ug/l	98
29) 2,2-Dichloropropane	6.74	77	1335971	10.63	ug/l	100
30) cis-1,2-Dichloroethene	6.86	96	1476730	10.84	ug/l	99
31) Chloroform	7.26	83	2192925	10.47	ug/l	99
32) Bromochloromethane	7.66	130	648018	11.17	ug/l	98
33) Tetrahydrofuran	7.77	42	120486	9.68	ug/l	96
36) 1,1,1-Trichloroethane	8.21	97	1771028	10.59	ug/l	99
37) Cyclohexane	8.19	84	2180112	10.44	ug/l	99
39) 1,1-Dichloropropene	8.56	110	632607	10.27	ug/l	100
40) Carbon tetrachloride	8.75	119	1424683	10.45	ug/l	100
41) tert-Amyl methyl ether (TA	8.92	73	2520660	10.81	ug/l	99

(#) = qualifier out of range (m) = manual integration
RIW371.D VO06J19.M Fri Nov 15 10:39:28 2024 Sa 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D Vial: 14
Acq On : 19 Oct 2024 9:15 pm Operator: DHguye
Sample : IVO06J191 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	950929	11.21	ug/l	97
44)	Benzene	9.13	78	5405418	11.21	ug/l	99
45)	Trichloroethene	10.43	130	1421894	11.16	ug/l	99
46)	Methylcyclohexane	10.49	83	2631829	10.13	ug/l	100
47)	1,2-Dichloropropane	10.79	63	1152775	10.98	ug/l	98
48)	1,4-Dioxane	11.33	88	69947	183.70	ug/l	89
49)	Bromodichloromethane	11.23	83	1438541	10.60	ug/l	99
50)	Dibromomethane	11.31	93	534221	10.53	ug/l	99
51)	2-Chloroethyl vinyl ether	11.94	63	360758	10.50	ug/l	95
52)	4-Methyl-2-pentanone	11.98	43	3276564	56.57	ug/l	99
53)	cis-1,3-Dichloropropene	12.30	75	1812567	11.14	ug/l	99
56)	Toluene	12.84	91	5555774	11.09	ug/l	99
57)	Ethyl methacrylate	13.28	69	903052	11.11	ug/l	100
58)	trans-1,3-Dichloropropene	13.22	75	1327325	11.27	ug/l	98
59)	1,1,2-Trichloroethane	13.47	97	691555	10.98	ug/l	98
60)	2-Hexanone	13.55	43	1975833	55.36	ug/l	100
61)	1,3-Dichloropropane	13.93	76	1254401	11.18	ug/l	98
62)	Tetrachloroethene	13.97	164	1125068	10.58	ug/l	98
63)	Dibromochloromethane	14.33	129	836868	10.74	ug/l	99
65)	1,2-Dibromoethane	14.67	107	652205	11.34	ug/l	100
66)	1-Chlorohexane	15.02	91	2033826	9.96	ug/l	97
67)	Chlorobenzene	15.39	112	3097495	11.31	ug/l	100
68)	1,1,1,2-Tetrachloroethane	15.49	131	1009857	10.92	ug/l	100
69)	Ethylbenzene	15.51	91	5848074	10.82	ug/l	100
70)	m-Xylene & p-Xylene	15.64	91	8677728	21.44	ug/l	100
71)	o-Xylene	16.36	91	4408402	10.81	ug/l	98
72)	Styrene	16.43	104	3277729	11.25	ug/l	100
73)	Isopropylbenzene	16.97	105	5638140	10.66	ug/l	100
75)	Bromoform	16.97	173	378667	10.91	ug/l	99
76)	1,1,2,2-Tetrachloroethane	17.27	83	689074	11.40	ug/l	99
78)	1,2,3-Trichloropropane	17.49	110	171032	11.05	ug/l	91
79)	trans-1,4-Dichloro-2-buten	17.60	53	154413	10.77	ug/l	96
80)	n-Propylbenzene	17.60	91	6997014	11.28	ug/l	99
81)	Bromobenzene	17.64	156	1126592	11.38	ug/l	98
82)	1,3,5-Trimethylbenzene	17.82	105	4315957	11.17	ug/l	99
83)	2-Chlorotoluene	17.83	91	4126516	11.03	ug/l	96
84)	4-Chlorotoluene	17.90	91	3725365	11.60	ug/l	95
85)	tert-Butylbenzene	18.27	134	950635	11.05	ug/l	99
86)	1,2,4-Trimethylbenzene	18.31	105	4187243	11.08	ug/l	99
87)	sec-Butylbenzene	18.53	105	5660075	10.52	ug/l	100
88)	p-Isopropyltoluene	18.69	119	4586332	10.77	ug/l	100
89)	1,3-Dichlorobenzene	18.79	146	2161614	11.22	ug/l	100
90)	1,2,3-Trimethylbenzene	18.87	105	3670620	10.99	ug/l	100
91)	1,4-Dichlorobenzene	18.91	146	2124602	11.43	ug/l	99
92)	n-Butylbenzene	19.14	91	4339989	10.36	ug/l	99
93)	1,2-Dichlorobenzene	19.31	146	1748399	11.13	ug/l	100
94)	1,2-Dibromo-3-chloropropan	20.08	157	84657	8.96	ug/l	96
95)	1,2,4-Trichlorobenzene	20.89	180	941613	10.33	ug/l	98
96)	Hexachlorobutadiene	21.02	225	589859	10.90	ug/l	96
97)	Naphthalene	21.17	128	1328412	10.40	ug/l	100

(#) = qualifier out of range (m) = manual integration

SG 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D Vial: 14
Acq On : 19 Oct 2024 9:15 pm Operator: DHguye
Sample : IVO06J191 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	1,2,3-Trichlorobenzene	21.41	180	731559	10.65	ug/l	100

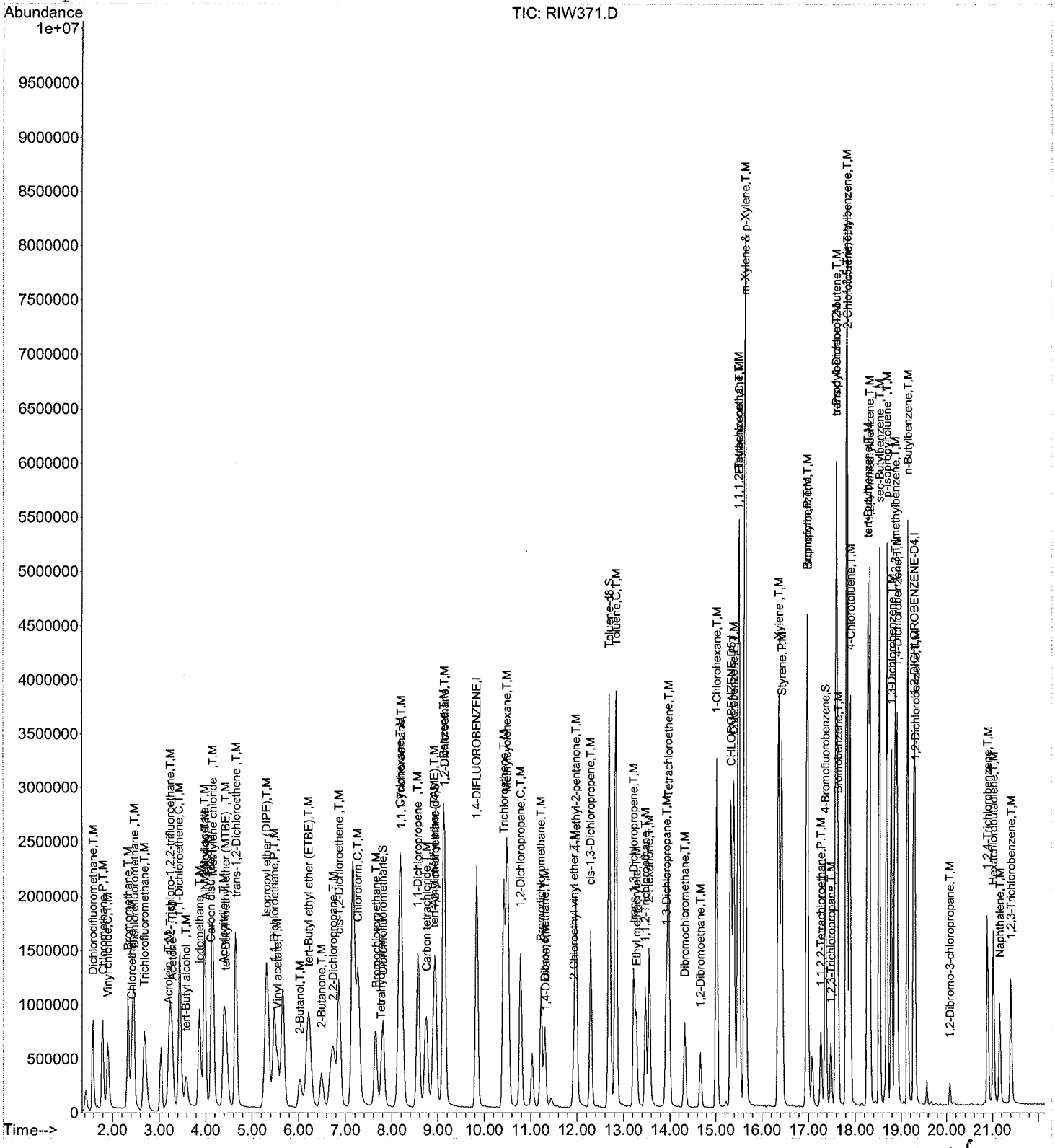
SA 11/15/24

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D Vial: 14
Acq On : 19 Oct 2024 9:15 pm Operator: DHguye
Sample : IVO06J191 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



SN 11/15/24

DAILY CALIBRATIONS

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : TITAN 1-A
Lab Code : EMAX SDG No : 24J145
Lab File ID: RIW477 BFB Injection Date: 10/24/24
Instrument ID: 06 BFB Injection Time: 17:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	16.040
75	30 - 60% of mass 95	44.164
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	6.041
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	76.266
175	5 - 9% of mass 174	5.041(6.61)1
176	95 - 101% % of mass 174	73.826(96.8)1
177	5 - 9% % of mass 176	4.318(5.85)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, Lab QCs and Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD10	CV006J195	RIW478	10/24/24	19:04
2	LCS1W	V006J22L	RIW479	10/24/24	19:32
3	LCD1W	V006J22C	RIW480	10/24/24	19:58
4	MBLK1W	V006J22B	RIW482	10/24/24	20:50
5	T1AMF-MW053_OCT24	24J145-02	RIW487	10/24/24	23:02
6	T1AMF-MW066_OCT24	24J145-03	RIW488	10/25/24	08:13
7	VSTD10	EV006J195	RIW489	10/25/24	08:39

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

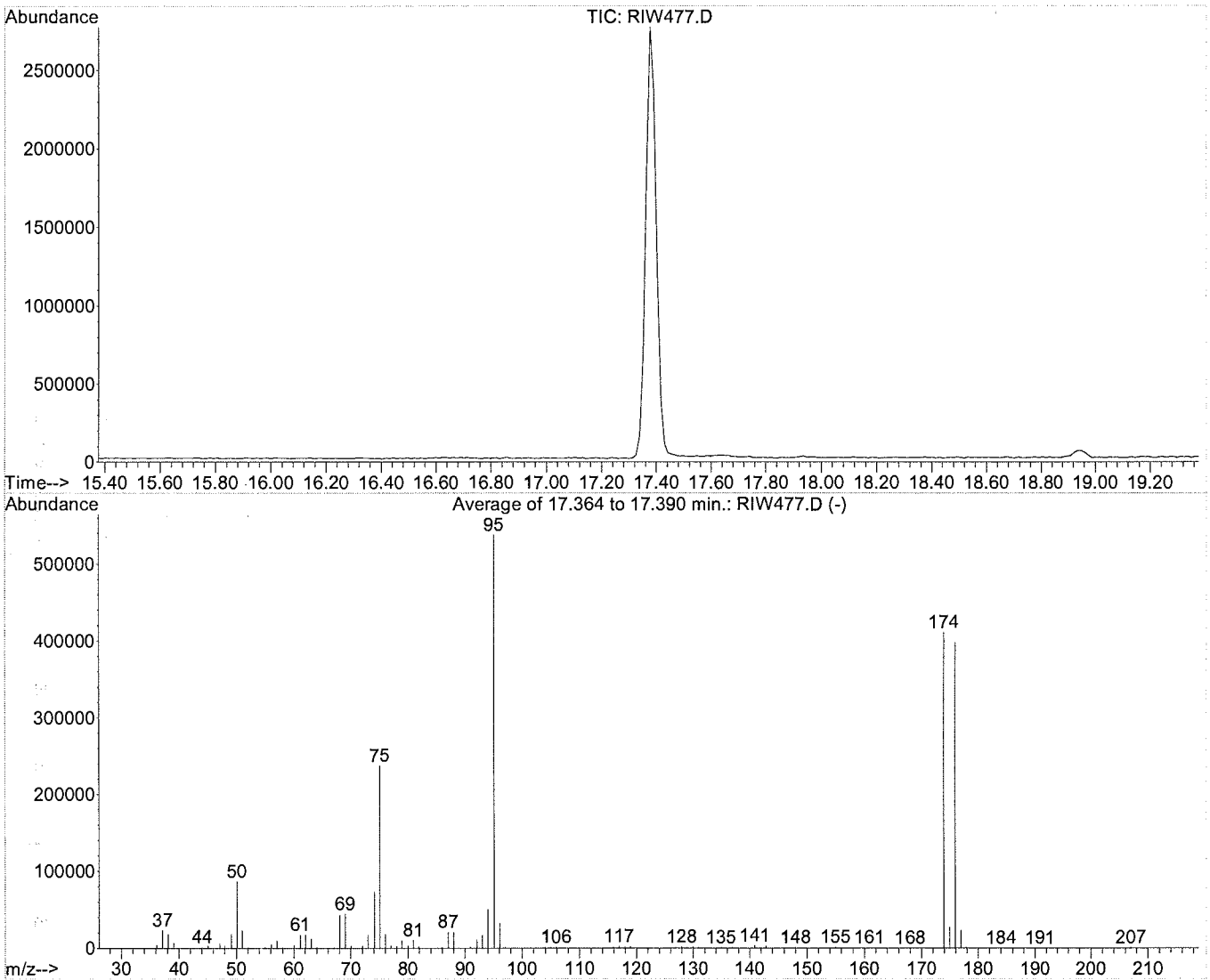
Lab Name: EMAX Laboratories, Inc.
Lab Code: EMAX
Lab File ID: RIW364
Instrument ID: 06

Project: TITAN 1-A
SDG No: 24J145
Date Analyzed: 10/19/24
Time Analyzed: 18:11

	INTERNAL STANDARD (IS)	1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5		1,2-DICHLOROBENZENE-D4	
		Area #	RT #	Area #	RT #	Area #	RT #
	12 HOUR STD	3831558	9.84	2808641	15.34	1084745	19.28
	UPPER LIMIT	7663116	10.0	5617282	15.51	2169490	19.45
	LOWER LIMIT	1915779	9.67	1404321	15.17	542373	19.11
		Area #	RT #	Area #	RT #	Area #	RT #
1	VSTD10	4181638	9.86	2695837	15.35	1061560	19.29
2	LCS1W	4960038	9.86	3648999	15.35	1334272	19.28
3	LCD1W	4975114	9.86	3612611	15.35	1343590	19.28
4	MBLK1W	4883802	9.86	3636236	15.34	1413530	19.29
5	T1AMF-MW053_OCT24	4596043	9.86	3510018	15.34	1334985	19.28
6	T1AMF-MW066_OCT24	2857054	9.84	2194978	15.34	931558	19.28
7	VSTD10	3842434	9.84	2838286	15.34	1013026	19.28

Area Upper Limit = +100% of ICAL Midpoint IS Area
Area Lower Limit = -50% of ICAL Midpoint IS Area
Retention Time(RT) Upper Limit = +10 seconds of ICAL Midpoint IS RT
Retention Time(RT) Lower Limit = -10 seconds of ICAL Midpoint IS RT

Data File : D:\HPCHEM\1\DATA\24J24\RIW477.D Vial: 20
Acq On : 24 Oct 2024 5:03 pm Operator: PMai
Sample : BFB06J22 Inst : 06
Misc : T/CHK Multiplr: 1.00
MS Integration Params: RTE.P
Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260



AutoFind: Scans 833, 834, 835; Background Corrected with Scan 827

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	86246	PASS
75	95	30	60	44.2	237461	PASS
95	95	100	100	100.0	537685	PASS
96	95	5	9	6.0	32479	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.3	410069	PASS
175	174	5	9	6.6	27107	PASS
176	174	95	101	96.8	396949	PASS
177	176	5	9	5.8	23218	PASS

RIW477.D VO06J19.M Thu Nov 21 09:39:09 2024

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW478.D Vial: 21
Acq On : 24 Oct 2024 7:04 pm Operator: PMai
Sample : CVO06J195 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	109	0.02
2	T,M	Dichlorodifluoromethane	10.000	11.240	-12.4	103	0.02
3	P,T,M	Chloromethane	10.000	11.785	-17.9	104	0.00
4	C,T,M	Vinyl chloride	10.000	11.959	-19.6	100	0.02
5	T,M	Bromomethane	10.000	11.225	-12.2	102	0.02
6	T,M	Chloroethane	10.000	11.722	-17.2	104	0.02
7	T,M	Dichlorofluoromethane	10.000	11.921	-19.2	110	0.02
8	T,M	Trichlorofluoromethane	10.000	11.599	-16.0	104	0.02
9	T,M	Acrolein	50.000	46.246	7.5	90	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	11.195	-12.0	100	0.00
11	T,M	Acetone	50.000	48.827	2.3	99	0.00
12	C,T,M	1,1-Dichloroethene	10.000	11.513	-15.1	106	0.00
13	T,M	tert-Butyl alcohol	250.000	201.866	19.3	79	0.00
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	7.400	26.0#	81	0.00
16	T,M	Iodomethane	10.000	10.774	-7.7	98	0.02
17	T,M	Allyl chloride	10.000	11.114	-11.1	104	0.02
18	T,M	Methylene chloride	10.000	11.902	-19.0	111	0.02
19	T,M	Carbon disulfide	10.000	9.957	0.4	86	0.00
20	T,M	Acrylonitrile	50.000	50.285	-0.6	94	0.02
21	T,M	tert-Butyl methyl ether (MT	10.000	9.975	0.3	91	0.02
22	T,M	trans-1,2-Dichloroethene	10.000	10.811	-8.1	102	0.02
23	T,M	Isopropyl ether (DIPE)	10.000	11.028	-10.3	99	0.00
24	T,M	Vinyl acetate	10.000	8.579	14.2	77	0.02
25	P,T,M	1,1-Dichloroethane	10.000	11.207	-12.1	104	0.02
26	T,M	2-Butanol	250.000	151.543	39.4#	62	0.02
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.091	-0.9	95	0.02
28	T,M	2-Butanone	50.000	44.699	10.6	83	0.02
29	T,M	2,2-Dichloropropane	10.000	14.867	-48.7#	130	0.02
30	T,M	cis-1,2-Dichloroethene	10.000	10.605	-6.1	99	0.02
31	C,T,M	Chloroform	10.000	10.601	-6.0	102	0.02
32	T,M	Bromochloromethane	10.000	9.780	2.2	90	0.02
33	T,M	Tetrahydrofuran	10.000	6.890	31.1#	78	0.02
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	0.00
35	S	Dibromofluoromethane	10.000	11.468	-14.7	97	0.02
36	T,M	1,1,1-Trichloroethane	10.000	11.625	-16.3	108	0.02
37	T,M	Cyclohexane	10.000	10.535	-5.4	97	0.02
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	0.00
39	T,M	1,1-Dichloropropene	10.000	9.475	5.3	91	0.02
40	T,M	Carbon tetrachloride	10.000	11.505	-15.1	105	0.02
41	T,M	tert-Amyl methyl ether (TAM	10.000	9.612	3.9	89	0.00
42	S	1,2-Dichloroethane-d4	10.000	10.960	-9.6	91	0.02
43	T,M	1,2-Dichloroethane	10.000	10.297	-3.0	93	0.02
44	T,M	Benzene	10.000	10.481	-4.8	94	0.02
45	T,M	Trichloroethene	10.000	10.106	-1.1	92	0.02
46	T,M	Methylcyclohexane	10.000	9.775	2.2	97	0.02
47	C,T,M	1,2-Dichloropropane	10.000	9.613	3.9	89	0.02
48	T,M	1,4-Dioxane	200.000	122.178	38.9#	64	0.02
49	T,M	Bromodichloromethane	10.000	9.644	3.6	90	0.02
50	T,M	Dibromomethane	10.000	8.685	13.1	82	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW478.D Vial: 21
Acq On : 24 Oct 2024 7:04 pm Operator: PMai
Sample : CVO06J195 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	6.123	38.8#	60	0.02
52	T,M	4-Methyl-2-pentanone	50.000	47.575	4.8	84	0.02
53	T,M	cis-1,3-Dichloropropene	10.000	9.018	9.8	79	0.02
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	96	0.01
55	S	Toluene-d8	10.000	11.303	-13.0	84	0.02
56	C,T,M	Toluene	10.000	10.641	-6.4	85	0.02
57	T,M	Ethyl methacrylate	10.000	8.083	19.2	63	0.02
58	T,M	trans-1,3-Dichloropropene	10.000	9.689	3.1	75	0.00
59	T,M	1,1,2-Trichloroethane	10.000	8.986	10.1	72	0.00
60	T,M	2-Hexanone	50.000	47.044	5.9	74	0.02
61	T,M	1,3-Dichloropropane	10.000	9.076	9.2	71	0.02
62	T,M	Tetrachloroethene	10.000	10.385	-3.8	83	0.00
63	T,M	Dibromochloromethane	10.000	9.273	7.3	75	0.02
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	8.956	10.4	69	0.02
66	T,M	1-Chlorohexane	10.000	9.319	6.8	79	0.02
67	P,T,M	Chlorobenzene	10.000	9.915	0.9	77	0.01
68	T,M	1,1,1,2-Tetrachloroethane	10.000	11.708	-17.1	93	0.01
69	C,T,M	Ethylbenzene	10.000	10.293	-2.9	81	0.01
70	T,M	m-Xylene & p-Xylene	20.000	20.037	-0.2	81	0.00
71	T,M	o-Xylene	10.000	10.850	-8.5	88	0.01
72	T,M	Styrene	10.000	9.296	7.0	72	0.00
73	T,M	Isopropylbenzene	10.000	11.276	-12.8	90	0.01
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	98	0.00
75	P,T,M	Bromoform	10.000	7.289	27.1#	61	0.01
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	9.484	5.2	76	0.01
77	S	4-Bromofluorobenzene	10.000	9.287	7.1	73	0.00
78	T,M	1,2,3-Trichloropropane	10.000	8.500	15.0	73	0.01
79	T,M	trans-1,4-Dichloro-2-butene	10.000	7.721	22.8#	64	0.01
80	T,M	n-Propylbenzene	10.000	10.178	-1.8	83	0.01
81	T,M	Bromobenzene	10.000	8.555	14.5	68	0.01
82	T,M	1,3,5-Trimethylbenzene	10.000	10.894	-8.9	87	0.01
83	T,M	2-Chlorotoluene	10.000	10.273	-2.7	87	0.00
84	T,M	4-Chlorotoluene	10.000	9.763	2.4	74	0.01
85	T,M	tert-Butylbenzene	10.000	11.435	-14.4	91	0.00
86	T,M	1,2,4-Trimethylbenzene	10.000	10.634	-6.3	85	0.00
87	T,M	sec-Butylbenzene	10.000	10.940	-9.4	88	0.01
88	T,M	p-Isopropyltoluene	10.000	11.070	-10.7	88	0.00
89	T,M	1,3-Dichlorobenzene	10.000	9.401	6.0	74	0.01
90	T,M	1,2,3-Trimethylbenzene	10.000	10.811	-8.1	86	0.01
91	T,M	1,4-Dichlorobenzene	10.000	9.383	6.2	73	0.00
92	T,M	n-Butylbenzene	10.000	10.822	-8.2	88	0.01
93	T,M	1,2-Dichlorobenzene	10.000	10.003	-0.0	79	0.00
94	T,M	1,2-Dibromo-3-chloropropane	10.000	7.950	20.5#	76	0.01
95	T,M	1,2,4-Trichlorobenzene	10.000	10.708	-7.1	89	0.00
96	T,M	Hexachlorobutadiene	10.000	11.408	-14.1	90	0.00
97	T,M	Naphthalene	10.000	9.994	0.1	84	0.01
98	T,M	1,2,3-Trichlorobenzene	10.000	10.014	-0.1	84	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW478.D Vial: 21
Acq On : 24 Oct 2024 7:04 pm Operator: PMai
Sample : CVO06J195 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	109	0.02
2	T,M	Dichlorodifluoromethane	0.356	0.400	-12.4	103	0.02
3	P,T,M	Chloromethane	0.346	0.407	-17.6	104	0.00
4	C,T,M	Vinyl chloride	0.277	0.332	-19.9	100	0.02
5	T,M	Bromomethane	0.252	0.283	-12.3	102	0.02
6	T,M	Chloroethane	0.191	0.224	-17.3	104	0.02
7	T,M	Dichlorofluoromethane	0.468	0.558	-19.2	110	0.02
8	T,M	Trichlorofluoromethane	0.371	0.431	-16.2	104	0.02
9	T,M	Acrolein	0.010	0.010	0.0	90	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.238	-11.7	100	0.00
11	T,M	Acetone	0.031	0.030	3.2	99	0.00
12	C,T,M	1,1-Dichloroethene	0.453	0.521	-15.0	106	0.00
13	T,M	tert-Butyl alcohol	0.009	0.007	22.2#	79	0.00
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.016	23.8#	81	0.00
16	T,M	Iodomethane	0.464	0.500	-7.8	98	0.02
17	T,M	Allyl chloride	0.181	0.201	-11.0	104	0.02
18	T,M	Methylene chloride	0.332	0.395	-19.0	111	0.02
19	T,M	Carbon disulfide	0.567	0.564	0.5	86	0.00
20	T,M	Acrylonitrile	0.041	0.042	-2.4	94	0.02
21	T,M	tert-Butyl methyl ether (MT	0.482	0.481	0.2	91	0.02
22	T,M	trans-1,2-Dichloroethene	0.339	0.366	-8.0	102	0.02
23	T,M	Isopropyl ether (DIPE)	0.895	0.987	-10.3	99	0.00
24	T,M	Vinyl acetate	0.311	0.266	14.5	77	0.02
25	P,T,M	1,1-Dichloroethane	0.504	0.565	-12.1	104	0.02
26	T,M	2-Butanol	0.009	0.005	44.4#	62	0.02
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.668	-0.9	95	0.02
28	T,M	2-Butanone	0.052	0.047	9.6	83	0.02
29	T,M	2,2-Dichloropropane	0.302	0.449	-48.7#	130	0.02
30	T,M	cis-1,2-Dichloroethene	0.327	0.347	-6.1	99	0.02
31	C,T,M	Chloroform	0.503	0.534	-6.2	102	0.02
32	T,M	Bromochloromethane	0.139	0.136	2.2	90	0.02
33	T,M	Tetrahydrofuran	0.030	0.021	30.0#	78	0.02
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	0.00
35	S	Dibromofluoromethane	0.245	0.281	-14.7	97	0.02
36	T,M	1,1,1-Trichloroethane	0.402	0.467	-16.2	108	0.02
37	T,M	Cyclohexane	0.502	0.529	-5.4	97	0.02
38	T,M	2,2,4-Trimethylpentane	0.000	0.000	0.0	0#	0.00
39	T,M	1,1-Dichloropropene	0.148	0.140	5.4	91	0.02
40	T,M	Carbon tetrachloride	0.327	0.377	-15.3	105	0.02
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.538	3.9	89	0.00
42	S	1,2-Dichloroethane-d4	0.170	0.186	-9.4	91	0.02
43	T,M	1,2-Dichloroethane	0.204	0.210	-2.9	93	0.02
44	T,M	Benzene	1.159	1.215	-4.8	94	0.02
45	T,M	Trichloroethene	0.306	0.309	-1.0	92	0.02
46	T,M	Methylcyclohexane	0.624	0.610	2.2	97	0.02
47	C,T,M	1,2-Dichloropropane	0.252	0.242	4.0	89	0.02
48	T,M	1,4-Dioxane	0.001	0.001	0.0	64	0.02
49	T,M	Bromodichloromethane	0.326	0.314	3.7	90	0.02
50	T,M	Dibromomethane	0.122	0.106	13.1	82	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW478.D Vial: 21
Acq On : 24 Oct 2024 7:04 pm Operator: PMai
Sample : CVO06J195 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.083	0.051	38.6#	60	0.02
52	T,M	4-Methyl-2-pentanone	0.139	0.132	5.0	84	0.02
53	T,M	cis-1,3-Dichloropropene	0.391	0.352	10.0	79	0.02
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	96	0.01
55	S	Toluene-d8	1.382	1.562	-13.0	84	0.02
56	C,T,M	Toluene	1.660	1.766	-6.4	85	0.02
57	T,M	Ethyl methacrylate	0.269	0.218	19.0	63	0.02
58	T,M	trans-1,3-Dichloropropene	0.390	0.378	3.1	75	0.00
59	T,M	1,1,2-Trichloroethane	0.209	0.188	10.0	72	0.00
60	T,M	2-Hexanone	0.118	0.111	5.9	74	0.02
61	T,M	1,3-Dichloropropane	0.372	0.337	9.4	71	0.02
62	T,M	Tetrachloroethene	0.352	0.366	-4.0	83	0.00
63	T,M	Dibromochloromethane	0.258	0.239	7.4	75	0.02
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.171	10.5	69	0.02
66	T,M	1-Chlorohexane	0.676	0.630	6.8	79	0.02
67	P,T,M	Chlorobenzene	0.907	0.899	0.9	77	0.01
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.359	-17.3	93	0.01
69	C,T,M	Ethylbenzene	1.791	1.843	-2.9	81	0.01
70	T,M	m-Xylene & p-Xylene	1.341	1.343	-0.1	81	0.00
71	T,M	o-Xylene	1.351	1.466	-8.5	88	0.01
72	T,M	Styrene	0.966	0.898	7.0	72	0.00
73	T,M	Isopropylbenzene	1.752	1.975	-12.7	90	0.01
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	98	0.00
75	P,T,M	Bromoform	0.312	0.228	26.9#	61	0.01
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.516	5.1	76	0.01
77	S	4-Bromofluorobenzene	1.116	1.037	7.1	73	0.00
78	T,M	1,2,3-Trichloropropane	0.139	0.118	15.1	73	0.01
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.100	22.5#	64	0.01
80	T,M	n-Propylbenzene	5.578	5.677	-1.8	83	0.01
81	T,M	Bromobenzene	0.891	0.762	14.5	68	0.01
82	T,M	1,3,5-Trimethylbenzene	3.477	3.788	-8.9	87	0.01
83	T,M	2-Chlorotoluene	3.364	3.456	-2.7	87	0.00
84	T,M	4-Chlorotoluene	2.888	2.820	2.4	74	0.01
85	T,M	tert-Butylbenzene	0.774	0.885	-14.3	91	0.00
86	T,M	1,2,4-Trimethylbenzene	3.400	3.616	-6.4	85	0.00
87	T,M	sec-Butylbenzene	4.841	5.296	-9.4	88	0.01
88	T,M	p-Isopropyltoluene	3.830	4.240	-10.7	88	0.00
89	T,M	1,3-Dichlorobenzene	1.733	1.629	6.0	74	0.01
90	T,M	1,2,3-Trimethylbenzene	3.005	3.249	-8.1	86	0.01
91	T,M	1,4-Dichlorobenzene	1.673	1.569	6.2	73	0.00
92	T,M	n-Butylbenzene	3.769	4.078	-8.2	88	0.01
93	T,M	1,2-Dichlorobenzene	1.413	1.413	0.0	79	0.00
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.068	20.0	76	0.01
95	T,M	1,2,4-Trichlorobenzene	0.820	0.878	-7.1	89	0.00
96	T,M	Hexachlorobutadiene	0.489	0.554	-13.3	90	0.00
97	T,M	Naphthalene	1.149	1.148	0.1	84	0.01
98	T,M	1,2,3-Trichlorobenzene	0.618	0.619	-0.2	84	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J24\RIW478.D Vial: 21
Acq On : 24 Oct 2024 7:04 pm Operator: PMai
Sample : CVO06J195 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:31 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.86	114	4181638	10.00	ug/l	0.02
54) CHLOROBENZENE-D5	15.35	117	2695837	10.00	ug/l	0.01
74) 1,2-DICHLOROBENZENE-D4	19.29	152	1061560	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.83	111	1174636	11.47	ug/l	0.02
Spiked Amount 10.000			Recovery = 114.70%			
42) 1,2-Dichloroethane-d4	8.98	65	777159	10.96	ug/l	0.02
Spiked Amount 10.000			Recovery = 109.60%			
55) Toluene-d8	12.72	98	4211254	11.30	ug/l	0.02
Spiked Amount 10.000			Recovery = 113.00%			
77) 4-Bromofluorobenzene	17.38	95	1100696	9.29	ug/l	0.00
Spiked Amount 10.000			Recovery = 92.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	1671294	11.24	ug/l	99
3) Chloromethane	1.80	50	1703575	11.78	ug/l	99
4) Vinyl chloride	1.92	62	1386236	11.96	ug/l	99
5) Bromomethane	2.35	94	1183749	11.23	ug/l	97
6) Chloroethane	2.43	64	935558	11.72	ug/l	99
7) Dichlorofluoromethane	2.47	67	2331702	11.92	ug/l	99
8) Trichlorofluoromethane	2.71	101	1800754	11.60	ug/l	99
9) Acrolein	3.22	56	200192	46.25	ug/l	93
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	996521	11.20	ug/l	97
11) Acetone	3.30	43	631895	48.83	ug/l	97
12) 1,1-Dichloroethene	3.45	61	2179349	11.51	ug/l	98
13) tert-Butyl alcohol	3.59	59	722088	201.87	ug/l	99
15) Methyl acetate	3.97	74	65075	7.40	ug/l	85
16) Iodomethane	3.89	142	2090507	10.77	ug/l	96
17) Allyl chloride	4.01	76	842249	11.11	ug/l	98
18) Methylene chloride	4.18	49	1652479	11.90	ug/l	98
19) Carbon disulfide	4.14	76	2360308	9.96	ug/l	99
20) Acrylonitrile	4.41	53	868185	50.29	ug/l	99
21) tert-Butyl methyl ether (M	4.45	73	2012557	9.97	ug/l	99
22) trans-1,2-Dichloroethene	4.68	96	1532569	10.81	ug/l	100
23) Isopropyl ether (DIPE)	5.33	45	4127807	11.03	ug/l	97
24) Vinyl acetate	5.59	43	1114199	8.58	ug/l	100
25) 1,1-Dichloroethane	5.50	63	2362388	11.21	ug/l	100
26) 2-Butanol	6.07	45	543568	151.54	ug/l	98
27) tert-Butyl ethyl ether (ET	6.24	59	2791407	10.09	ug/l	98
28) 2-Butanone	6.53	43	975394	44.70	ug/l	98
29) 2,2-Dichloropropane	6.78	77	1877921	14.87	ug/l	98
30) cis-1,2-Dichloroethene	6.91	96	1450815	10.60	ug/l	99
31) Chloroform	7.30	83	2231597	10.60	ug/l	98
32) Bromochloromethane	7.68	130	569967	9.78	ug/l	98
33) Tetrahydrofuran	7.79	42	86140	6.89	ug/l	98
36) 1,1,1-Trichloroethane	8.23	97	1952719	11.62	ug/l	98
37) Cyclohexane	8.21	84	2210879	10.54	ug/l	100
39) 1,1-Dichloropropene	8.61	110	586349	9.48	ug/l	97
40) Carbon tetrachloride	8.77	119	1575615	11.51	ug/l	100
41) tert-Amyl methyl ether (TA	8.94	73	2251200	9.61	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J24\RIW478.D Vial: 21
Acq On : 24 Oct 2024 7:04 pm Operator: PMai
Sample : CVO06J195 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:31 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.17	62	877836	10.30	ug/l	100
44)	Benzene	9.15	78	5078672	10.48	ug/l	99
45)	Trichloroethene	10.45	130	1293562	10.11	ug/l	97
46)	Methylcyclohexane	10.53	83	2552686	9.78	ug/l	97
47)	1,2-Dichloropropane	10.81	63	1013628	9.61	ug/l	99
48)	1,4-Dioxane	11.35	88	46738	122.18	ug/l	96
49)	Bromodichloromethane	11.25	83	1314965	9.64	ug/l	98
50)	Dibromomethane	11.33	93	442750	8.68	ug/l	99
51)	2-Chloroethyl vinyl ether	11.96	63	211324	6.12	ug/l	98
52)	4-Methyl-2-pentanone	12.00	43	2768350	47.58	ug/l	99
53)	cis-1,3-Dichloropropene	12.32	75	1473530	9.02	ug/l	97
56)	Toluene	12.86	91	4761518	10.64	ug/l	100
57)	Ethyl methacrylate	13.30	69	586531	8.08	ug/l	98
58)	trans-1,3-Dichloropropene	13.24	75	1019370	9.69	ug/l	98
59)	1,1,2-Trichloroethane	13.49	97	505561	8.99	ug/l	98
60)	2-Hexanone	13.58	43	1499606	47.04	ug/l	97
61)	1,3-Dichloropropane	13.95	76	909714	9.08	ug/l	100
62)	Tetrachloroethene	13.99	164	986472	10.38	ug/l	98
63)	Dibromochloromethane	14.35	129	645177	9.27	ug/l	100
65)	1,2-Dibromoethane	14.69	107	460137	8.96	ug/l	97
66)	1-Chlorohexane	15.04	91	1698993	9.32	ug/l	97
67)	Chlorobenzene	15.42	112	2424844	9.92	ug/l	100
68)	1,1,1,2-Tetrachloroethane	15.51	131	966797	11.71	ug/l	98
69)	Ethylbenzene	15.52	91	4969009	10.29	ug/l	98
70)	m-Xylene & p-Xylene	15.65	91	7242435	20.04	ug/l	98
71)	o-Xylene	16.38	91	3951934	10.85	ug/l	96
72)	Styrene	16.44	104	2420209	9.30	ug/l	94
73)	Isopropylbenzene	17.00	105	5324434	11.28	ug/l	99
75)	Bromoform	16.99	173	241540	7.29	ug/l	98
76)	1,1,2,2-Tetrachloroethane	17.29	83	547451	9.48	ug/l	93
78)	1,2,3-Trichloropropane	17.51	110	125612	8.50	ug/l	89
79)	trans-1,4-Dichloro-2-buten	17.61	53	105684	7.72	ug/l	94
80)	n-Propylbenzene	17.61	91	6026843	10.18	ug/l	99
81)	Bromobenzene	17.65	156	808835	8.56	ug/l	97
82)	1,3,5-Trimethylbenzene	17.83	105	4020758	10.89	ug/l	99
83)	2-Chlorotoluene	17.83	91	3668521	10.27	ug/l	93
84)	4-Chlorotoluene	17.91	91	2993712	9.76	ug/l	97
85)	tert-Butylbenzene	18.29	134	939025	11.43	ug/l	97
86)	1,2,4-Trimethylbenzene	18.33	105	3838135	10.63	ug/l	100
87)	sec-Butylbenzene	18.55	105	5622471	10.94	ug/l	99
88)	p-Isopropyltoluene	18.70	119	4500653	11.07	ug/l	99
89)	1,3-Dichlorobenzene	18.81	146	1729545	9.40	ug/l	99
90)	1,2,3-Trimethylbenzene	18.88	105	3448558	10.81	ug/l	100
91)	1,4-Dichlorobenzene	18.92	146	1665886	9.38	ug/l	98
92)	n-Butylbenzene	19.16	91	4329317	10.82	ug/l	99
93)	1,2-Dichlorobenzene	19.31	146	1500377	10.00	ug/l	100
94)	1,2-Dibromo-3-chloropropan	20.09	157	71687	7.95	ug/l	100
95)	1,2,4-Trichlorobenzene	20.91	180	931649	10.71	ug/l	97
96)	Hexachlorobutadiene	21.04	225	588294	11.41	ug/l	97
97)	Naphthalene	21.18	128	1218740	9.99	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J24\RIW478.D Vial: 21
Acq On : 24 Oct 2024 7:04 pm Operator: PMai
Sample : CVO06J195 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:31 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

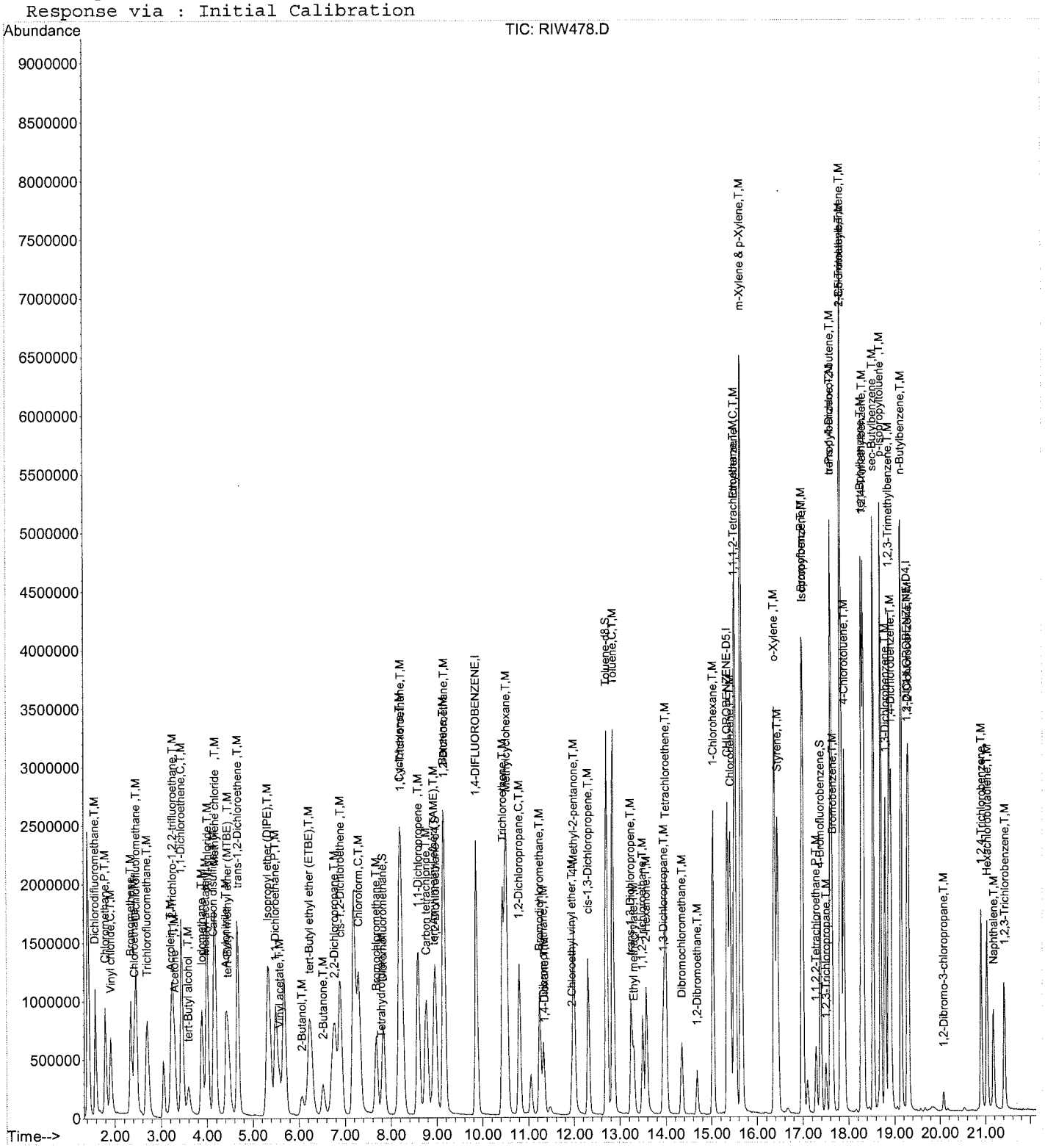
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	1,2,3-Trichlorobenzene	21.43	180	656724	10.01	ug/l	99

(#) = qualifier out of range (m) = manual integration
RIW478.D VO06J19.M Thu Nov 21 09:40:31 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW478.D Vial: 21
Acq On : 24 Oct 2024 7:04 pm Operator: PMai
Sample : CVO06J195 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:31 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW489.D Vial: 45
Acq On : 25 Oct 2024 8:39 am Operator: PMai
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	100	0.00
2	T,M	Dichlorodifluoromethane	10.000	7.911	20.9#	66	0.02
3	P,T,M	Chloromethane	10.000	8.892	11.1	72	0.00
4	C,T,M	Vinyl chloride	10.000	7.830	21.7#	60	0.00
5	T,M	Bromomethane	10.000	8.460	15.4	71	0.00
6	T,M	Chloroethane	10.000	8.084	19.2	66	0.02
7	T,M	Dichlorofluoromethane	10.000	10.126	-1.3	86	0.02
8	T,M	Trichlorofluoromethane	10.000	7.789	22.1#	64	0.00
9	T,M	Acrolein	50.000	27.325	45.4#	49	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	7.126	28.7#	59	0.00
11	T,M	Acetone	50.000	51.360	-2.7	96	0.00
12	C,T,M	1,1-Dichloroethene	10.000	9.866	1.3	83	0.00
13	T,M	tert-Butyl alcohol	250.000	192.848	22.9#	70	-0.02
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	6.760	32.4#	68	0.00
16	T,M	Iodomethane	10.000	9.306	6.9	78	0.00
17	T,M	Allyl chloride	10.000	8.829	11.7	76	0.00
18	T,M	Methylene chloride	10.000	11.792	-17.9	101	0.00
19	T,M	Carbon disulfide	10.000	8.531	14.7	68	0.00
20	T,M	Acrylonitrile	50.000	54.383	-8.8	94	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	9.776	2.2	82	0.00
22	T,M	trans-1,2-Dichloroethene	10.000	9.092	9.1	79	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	12.147	-21.5#	100	-0.02
24	T,M	Vinyl acetate	10.000	7.326	26.7#	60	0.00
25	P,T,M	1,1-Dichloroethane	10.000	10.567	-5.7	90	0.00
26	T,M	2-Butanol	250.000	179.790	28.1#	68	0.00
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.424	-4.2	91	0.00
28	T,M	2-Butanone	50.000	55.751	-11.5	95	-0.02
29	T,M	2,2-Dichloropropane	10.000	8.421	15.8	68	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	9.764	2.4	84	-0.02
31	C,T,M	Chloroform	10.000	9.884	1.2	87	0.00
32	T,M	Bromochloromethane	10.000	8.407	15.9	71	0.00
33	T,M	Tetrahydrofuran	10.000	6.614	33.9#	69	0.00
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	-0.04
35	S	Dibromofluoromethane	10.000	10.672	-6.7	83	0.00
36	T,M	1,1,1-Trichloroethane	10.000	10.302	-3.0	88	0.00
37	T,M	Cyclohexane	10.000	6.843	31.6#	58	0.00
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	-0.02
39	T,M	1,1-Dichloropropene	10.000	7.972	20.3#	70	0.00
40	T,M	Carbon tetrachloride	10.000	9.475	5.3	79	0.00
41	T,M	tert-Amyl methyl ether (TAM	10.000	10.147	-1.5	86	-0.02
42	S	1,2-Dichloroethane-d4	10.000	11.636	-16.4	89	0.00
43	T,M	1,2-Dichloroethane	10.000	11.258	-12.6	93	0.00
44	T,M	Benzene	10.000	10.749	-7.5	89	0.00
45	T,M	Trichloroethene	10.000	9.624	3.8	81	0.00
46	T,M	Methylcyclohexane	10.000	6.909	30.9#	63	0.00
47	C,T,M	1,2-Dichloropropane	10.000	10.532	-5.3	90	0.00
48	T,M	1,4-Dioxane	200.000	114.122	42.9#	55	0.00
49	T,M	Bromodichloromethane	10.000	10.372	-3.7	89	0.00
50	T,M	Dibromomethane	10.000	8.887	11.1	77	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW489.D Vial: 45
Acq On : 25 Oct 2024 8:39 am Operator: PMai
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	7.459	25.4#	67	0.00
52	T,M	4-Methyl-2-pentanone	50.000	65.502	-31.0#	106	0.00
53	T,M	cis-1,3-Dichloropropene	10.000	10.018	-0.2	81	0.00
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	101	0.00
55	S	Toluene-d8	10.000	10.925	-9.3	85	0.00
56	C,T,M	Toluene	10.000	10.358	-3.6	88	0.00
57	T,M	Ethyl methacrylate	10.000	9.740	2.6	80	0.00
58	T,M	trans-1,3-Dichloropropene	10.000	9.738	2.6	79	0.00
59	T,M	1,1,2-Trichloroethane	10.000	9.489	5.1	80	0.00
60	T,M	2-Hexanone	50.000	61.873	-23.7#	103	0.00
61	T,M	1,3-Dichloropropane	10.000	10.099	-1.0	83	0.00
62	T,M	Tetrachloroethene	10.000	8.593	14.1	72	0.00
63	T,M	Dibromochloromethane	10.000	8.918	10.8	76	0.00
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	9.355	6.4	76	0.00
66	T,M	1-Chlorohexane	10.000	10.602	-6.0	94	0.00
67	P,T,M	Chlorobenzene	10.000	10.595	-6.0	86	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	10.000	9.423	5.8	79	0.00
69	C,T,M	Ethylbenzene	10.000	10.483	-4.8	87	0.00
70	T,M	m-Xylene & p-Xylene	20.000	20.844	-4.2	89	-0.01
71	T,M	o-Xylene	10.000	10.368	-3.7	89	0.00
72	T,M	Styrene	10.000	10.836	-8.4	88	-0.01
73	T,M	Isopropylbenzene	10.000	10.277	-2.8	87	-0.01
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	93	0.00
75	P,T,M	Bromoform	10.000	8.508	14.9	68	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	9.837	1.6	75	0.00
77	S	4-Bromofluorobenzene	10.000	11.028	-10.3	83	-0.01
78	T,M	1,2,3-Trichloropropane	10.000	8.515	14.8	70	-0.01
79	T,M	trans-1,4-Dichloro-2-butene	10.000	8.944	10.6	71	0.00
80	T,M	n-Propylbenzene	10.000	10.984	-9.8	85	0.00
81	T,M	Bromobenzene	10.000	9.766	2.3	74	0.00
82	T,M	1,3,5-Trimethylbenzene	10.000	10.938	-9.4	83	0.00
83	T,M	2-Chlorotoluene	10.000	11.080	-10.8	89	0.00
84	T,M	4-Chlorotoluene	10.000	11.583	-15.8	84	0.00
85	T,M	tert-Butylbenzene	10.000	10.121	-1.2	77	-0.01
86	T,M	1,2,4-Trimethylbenzene	10.000	11.051	-10.5	85	0.00
87	T,M	sec-Butylbenzene	10.000	10.866	-8.7	84	0.00
88	T,M	p-Isopropyltoluene	10.000	10.566	-5.7	80	-0.01
89	T,M	1,3-Dichlorobenzene	10.000	10.292	-2.9	77	0.00
90	T,M	1,2,3-Trimethylbenzene	10.000	11.121	-11.2	85	0.00
91	T,M	1,4-Dichlorobenzene	10.000	10.207	-2.1	75	-0.01
92	T,M	n-Butylbenzene	10.000	10.555	-5.5	82	0.00
93	T,M	1,2-Dichlorobenzene	10.000	9.851	1.5	75	0.00
94	T,M	1,2-Dibromo-3-chloropropane	10.000	5.414	45.9#	49	0.00
95	T,M	1,2,4-Trichlorobenzene	10.000	8.959	10.4	71	0.00
96	T,M	Hexachlorobutadiene	10.000	8.800	12.0	67	-0.01
97	T,M	Naphthalene	10.000	8.247	17.5	66	0.00
98	T,M	1,2,3-Trichlorobenzene	10.000	7.827	21.7#	62	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW489.D Vial: 45
Acq On : 25 Oct 2024 8:39 am Operator: PMai
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	100	0.00
2	T,M	Dichlorodifluoromethane	0.356	0.281	21.1#	66	0.02
3	P,T,M	Chloromethane	0.346	0.307	11.3	72	0.00
4	C,T,M	Vinyl chloride	0.277	0.217	21.7#	60	0.00
5	T,M	Bromomethane	0.252	0.213	15.5	71	0.00
6	T,M	Chloroethane	0.191	0.154	19.4	66	0.02
7	T,M	Dichlorofluoromethane	0.468	0.474	-1.3	86	0.02
8	T,M	Trichlorofluoromethane	0.371	0.289	22.1#	64	0.00
9	T,M	Acrolein	0.010	0.006	40.0#	49#	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.152	28.6#	59	0.00
11	T,M	Acetone	0.031	0.032	-3.2	96	0.00
12	C,T,M	1,1-Dichloroethene	0.453	0.447	1.3	83	0.00
13	T,M	tert-Butyl alcohol	0.009	0.007	22.2#	70	-0.02
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.014	33.3#	68	0.00
16	T,M	Iodomethane	0.464	0.432	6.9	78	0.00
17	T,M	Allyl chloride	0.181	0.160	11.6	76	0.00
18	T,M	Methylene chloride	0.332	0.392	-18.1	101	0.00
19	T,M	Carbon disulfide	0.567	0.484	14.6	68	0.00
20	T,M	Acrylonitrile	0.041	0.045	-9.8	94	0.00
21	T,M	tert-Butyl methyl ether (MT	0.482	0.472	2.1	82	0.00
22	T,M	trans-1,2-Dichloroethene	0.339	0.308	9.1	79	0.00
23	T,M	Isopropyl ether (DIPE)	0.895	1.087	-21.5#	100	-0.02
24	T,M	Vinyl acetate	0.311	0.228	26.7#	60	0.00
25	P,T,M	1,1-Dichloroethane	0.504	0.533	-5.8	90	0.00
26	T,M	2-Butanol	0.009	0.006	33.3#	68	0.00
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.690	-4.2	91	0.00
28	T,M	2-Butanone	0.052	0.058	-11.5	95	-0.02
29	T,M	2,2-Dichloropropane	0.302	0.254	15.9	68	-0.02
30	T,M	cis-1,2-Dichloroethene	0.327	0.319	2.4	84	-0.02
31	C,T,M	Chloroform	0.503	0.498	1.0	87	0.00
32	T,M	Bromochloromethane	0.139	0.117	15.8	71	0.00
33	T,M	Tetrahydrofuran	0.030	0.020	33.3#	69	0.00
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	-0.04
35	S	Dibromofluoromethane	0.245	0.261	-6.5	83	0.00
36	T,M	1,1,1-Trichloroethane	0.402	0.414	-3.0	88	0.00
37	T,M	Cyclohexane	0.502	0.343	31.7#	58	0.00
38	T,M	2,2,4-Trimethylpentane	0.000	0.000	0.0	0#	-0.02
39	T,M	1,1-Dichloropropene	0.148	0.118	20.3#	70	0.00
40	T,M	Carbon tetrachloride	0.327	0.310	5.2	79	0.00
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.568	-1.4	86	-0.02
42	S	1,2-Dichloroethane-d4	0.170	0.197	-15.9	89	0.00
43	T,M	1,2-Dichloroethane	0.204	0.230	-12.7	93	0.00
44	T,M	Benzene	1.159	1.246	-7.5	89	0.00
45	T,M	Trichloroethene	0.306	0.295	3.6	81	0.00
46	T,M	Methylcyclohexane	0.624	0.431	30.9#	63	0.00
47	C,T,M	1,2-Dichloropropane	0.252	0.266	-5.6	90	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	55	0.00
49	T,M	Bromodichloromethane	0.326	0.338	-3.7	89	0.00
50	T,M	Dibromomethane	0.122	0.108	11.5	77	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J24\RIW489.D Vial: 45
Acq On : 25 Oct 2024 8:39 am Operator: PMai
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.083	0.062	25.3#	67	0.00
52	T,M	4-Methyl-2-pentanone	0.139	0.182	-30.9#	106	0.00
53	T,M	cis-1,3-Dichloropropene	0.391	0.391	0.0	81	0.00
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	101	0.00
55	S	Toluene-d8	1.382	1.510	-9.3	85	0.00
56	C,T,M	Toluene	1.660	1.719	-3.6	88	0.00
57	T,M	Ethyl methacrylate	0.269	0.262	2.6	80	0.00
58	T,M	trans-1,3-Dichloropropene	0.390	0.380	2.6	79	0.00
59	T,M	1,1,2-Trichloroethane	0.209	0.198	5.3	80	0.00
60	T,M	2-Hexanone	0.118	0.146	-23.7#	103	0.00
61	T,M	1,3-Dichloropropane	0.372	0.375	-0.8	83	0.00
62	T,M	Tetrachloroethene	0.352	0.303	13.9	72	0.00
63	T,M	Dibromochloromethane	0.258	0.230	10.9	76	0.00
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.178	6.8	76	0.00
66	T,M	1-Chlorohexane	0.676	0.717	-6.1	94	0.00
67	P,T,M	Chlorobenzene	0.907	0.961	-6.0	86	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.289	5.6	79	0.00
69	C,T,M	Ethylbenzene	1.791	1.877	-4.8	87	0.00
70	T,M	m-Xylene & p-Xylene	1.341	1.397	-4.2	89	-0.01
71	T,M	o-Xylene	1.351	1.401	-3.7	89	0.00
72	T,M	Styrene	0.966	1.046	-8.3	88	-0.01
73	T,M	Isopropylbenzene	1.752	1.800	-2.7	87	-0.01
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	93	0.00
75	P,T,M	Bromoform	0.312	0.266	14.7	68	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.535	1.7	75	0.00
77	S	4-Bromofluorobenzene	1.116	1.231	-10.3	83	-0.01
78	T,M	1,2,3-Trichloropropane	0.139	0.119	14.4	70	-0.01
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.115	10.9	71	0.00
80	T,M	n-Propylbenzene	5.578	6.127	-9.8	85	0.00
81	T,M	Bromobenzene	0.891	0.870	2.4	74	0.00
82	T,M	1,3,5-Trimethylbenzene	3.477	3.803	-9.4	83	0.00
83	T,M	2-Chlorotoluene	3.364	3.727	-10.8	89	0.00
84	T,M	4-Chlorotoluene	2.888	3.346	-15.9	84	0.00
85	T,M	tert-Butylbenzene	0.774	0.783	-1.2	77	-0.01
86	T,M	1,2,4-Trimethylbenzene	3.400	3.757	-10.5	85	0.00
87	T,M	sec-Butylbenzene	4.841	5.261	-8.7	84	0.00
88	T,M	p-Isopropyltoluene	3.830	4.047	-5.7	80	-0.01
89	T,M	1,3-Dichlorobenzene	1.733	1.784	-2.9	77	0.00
90	T,M	1,2,3-Trimethylbenzene	3.005	3.342	-11.2	85	0.00
91	T,M	1,4-Dichlorobenzene	1.673	1.707	-2.0	75	-0.01
92	T,M	n-Butylbenzene	3.769	3.978	-5.5	82	0.00
93	T,M	1,2-Dichlorobenzene	1.413	1.392	1.5	75	0.00
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.046	45.9#	49#	0.00
95	T,M	1,2,4-Trichlorobenzene	0.820	0.734	10.5	71	0.00
96	T,M	Hexachlorobutadiene	0.489	0.432	11.7	67	-0.01
97	T,M	Naphthalene	1.149	0.947	17.6	66	0.00
98	T,M	1,2,3-Trichlorobenzene	0.618	0.484	21.7#	62	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J24\RIW489.D Vial: 45
Acq On : 25 Oct 2024 8:39 am Operator: PMai
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:33 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	3842434	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	2838286	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1013026	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	1004416	10.67	ug/l	0.00
Spiked Amount 10.000			Recovery =	106.70%		
42) 1,2-Dichloroethane-d4	8.96	65	758148	11.64	ug/l	0.00
Spiked Amount 10.000			Recovery =	116.40%		
55) Toluene-d8	12.69	98	4285330	10.92	ug/l	0.00
Spiked Amount 10.000			Recovery =	109.20%		
77) 4-Bromofluorobenzene	17.36	95	1247305	11.03	ug/l	-0.01
Spiked Amount 10.000			Recovery =	110.30%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	1080891	7.91	ug/l	96
3) Chloromethane	1.80	50	1181206	8.89	ug/l	95
4) Vinyl chloride	1.90	62	833992	7.83	ug/l	95
5) Bromomethane	2.33	94	819794	8.46	ug/l	99
6) Chloroethane	2.43	64	592902	8.08	ug/l	99
7) Dichlorofluoromethane	2.47	67	1820012	10.13	ug/l	98
8) Trichlorofluoromethane	2.69	101	1111224	7.79	ug/l	94
9) Acrolein	3.22	56	108689	27.32	ug/l	82
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	582854	7.13	ug/l	100
11) Acetone	3.30	43	610760	51.36	ug/l	92
12) 1,1-Dichloroethene	3.45	61	1716128	9.87	ug/l	94
13) tert-Butyl alcohol	3.57	59	633873	192.85	ug/l	98
15) Methyl acetate	3.97	74	54630	6.76	ug/l	88
16) Iodomethane	3.87	142	1659230	9.31	ug/l	98
17) Allyl chloride	3.99	76	614796	8.83	ug/l	96
18) Methylene chloride	4.16	49	1504440	11.79	ug/l	88
19) Carbon disulfide	4.14	76	1858201	8.53	ug/l	96
20) Acrylonitrile	4.39	53	862776	54.38	ug/l	98
21) tert-Butyl methyl ether (M	4.43	73	1812334	9.78	ug/l	98
22) trans-1,2-Dichloroethene	4.66	96	1184310	9.09	ug/l	98
23) Isopropyl ether (DIPE)	5.31	45	4178015	12.15	ug/l	90
24) Vinyl acetate	5.56	43	874257	7.33	ug/l	95
25) 1,1-Dichloroethane	5.48	63	2046833	10.57	ug/l	94
26) 2-Butanol	6.05	45	592575	179.79	ug/l	94
27) tert-Butyl ethyl ether (ET	6.21	59	2649678	10.42	ug/l	92
28) 2-Butanone	6.49	43	1117876	55.75	ug/l	91
29) 2,2-Dichloropropane	6.74	77	977480	8.42	ug/l	95
30) cis-1,2-Dichloroethene	6.86	96	1227434	9.76	ug/l	96
31) Chloroform	7.28	83	1911930	9.88	ug/l	97
32) Bromochloromethane	7.66	130	450196	8.41	ug/l	95
33) Tetrahydrofuran	7.76	42	75984	6.61	ug/l	88
36) 1,1,1-Trichloroethane	8.20	97	1590123	10.30	ug/l	98
37) Cyclohexane	8.18	84	1319647	6.84	ug/l	95
39) 1,1-Dichloropropene	8.58	110	453310	7.97	ug/l	95
40) Carbon tetrachloride	8.75	119	1192354	9.48	ug/l	98
41) tert-Amyl methyl ether (TA	8.92	73	2183676	10.15	ug/l	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J24\RIW489.D Vial: 45
Acq On : 25 Oct 2024 8:39 am Operator: PMai
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:33 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	881901	11.26	ug/l	95
44)	Benzene	9.13	78	4786214	10.75	ug/l	98
45)	Trichloroethene	10.43	130	1131931	9.62	ug/l	95
46)	Methylcyclohexane	10.51	83	1657732	6.91	ug/l	95
47)	1,2-Dichloropropane	10.78	63	1020399	10.53	ug/l	96
48)	1,4-Dioxane	11.33	88	40115	114.12	ug/l	90
49)	Bromodichloromethane	11.22	83	1299551	10.37	ug/l	96
50)	Dibromomethane	11.31	93	416314	8.89	ug/l	96
51)	2-Chloroethyl vinyl ether	11.93	63	236541	7.46	ug/l	95
52)	4-Methyl-2-pentanone	11.98	43	3502309	65.50	ug/l	91
53)	cis-1,3-Dichloropropene	12.29	75	1504098	10.02	ug/l	92
56)	Toluene	12.84	91	4879589	10.36	ug/l	100
57)	Ethyl methacrylate	13.28	69	744129	9.74	ug/l	86
58)	trans-1,3-Dichloropropene	13.23	75	1078718	9.74	ug/l	89
59)	1,1,2-Trichloroethane	13.49	97	562118	9.49	ug/l	99
60)	2-Hexanone	13.55	43	2076521	61.87	ug/l	92
61)	1,3-Dichloropropane	13.93	76	1065729	10.10	ug/l	95
62)	Tetrachloroethene	13.99	164	859343	8.59	ug/l	97
63)	Dibromochloromethane	14.32	129	653328	8.92	ug/l	98
65)	1,2-Dibromoethane	14.66	107	506023	9.35	ug/l	100
66)	1-Chlorohexane	15.02	91	2035168	10.60	ug/l	89
67)	Chlorobenzene	15.39	112	2728059	10.60	ug/l	96
68)	1,1,1,2-Tetrachloroethane	15.49	131	819224	9.42	ug/l	97
69)	Ethylbenzene	15.51	91	5328320	10.48	ug/l	97
70)	m-Xylene & p-Xylene	15.64	91	7932287	20.84	ug/l	96
71)	o-Xylene	16.36	91	3975780	10.37	ug/l	95
72)	Styrene	16.43	104	2970095	10.84	ug/l	97
73)	Isopropylbenzene	16.97	105	5109235	10.28	ug/l	97
75)	Bromoform	16.97	173	269075	8.51	ug/l	97
76)	1,1,2,2-Tetrachloroethane	17.27	83	541849	9.84	ug/l	93
78)	1,2,3-Trichloropropane	17.48	110	120075	8.51	ug/l	92
79)	trans-1,4-Dichloro-2-buten	17.60	53	116822	8.94	ug/l	86
80)	n-Propylbenzene	17.60	91	6206494	10.98	ug/l	97
81)	Bromobenzene	17.64	156	881095	9.77	ug/l	98
82)	1,3,5-Trimethylbenzene	17.82	105	3852579	10.94	ug/l	98
83)	2-Chlorotoluene	17.83	91	3776002	11.08	ug/l	93
84)	4-Chlorotoluene	17.90	91	3389232	11.58	ug/l	95
85)	tert-Butylbenzene	18.27	134	793123	10.12	ug/l	96
86)	1,2,4-Trimethylbenzene	18.32	105	3806281	11.05	ug/l	97
87)	sec-Butylbenzene	18.53	105	5329071	10.87	ug/l	96
88)	p-Isopropyltoluene	18.69	119	4099374	10.57	ug/l	98
89)	1,3-Dichlorobenzene	18.79	146	1806812	10.29	ug/l	98
90)	1,2,3-Trimethylbenzene	18.87	105	3385442	11.12	ug/l	96
91)	1,4-Dichlorobenzene	18.91	146	1729407	10.21	ug/l	97
92)	n-Butylbenzene	19.14	91	4029621	10.56	ug/l	96
93)	1,2-Dichlorobenzene	19.31	146	1409973	9.85	ug/l	100
94)	1,2-Dibromo-3-chloropropan	20.07	157	46591	5.41	ug/l	92
95)	1,2,4-Trichlorobenzene	20.91	180	743859	8.96	ug/l	98
96)	Hexachlorobutadiene	21.02	225	438094	8.80	ug/l	96
97)	Naphthalene	21.16	128	959815	8.25	ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J24\RIW489.D Vial: 45
Acq On : 25 Oct 2024 8:39 am Operator: PMai
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:33 2024 Quant Results File: VO06J19.RES

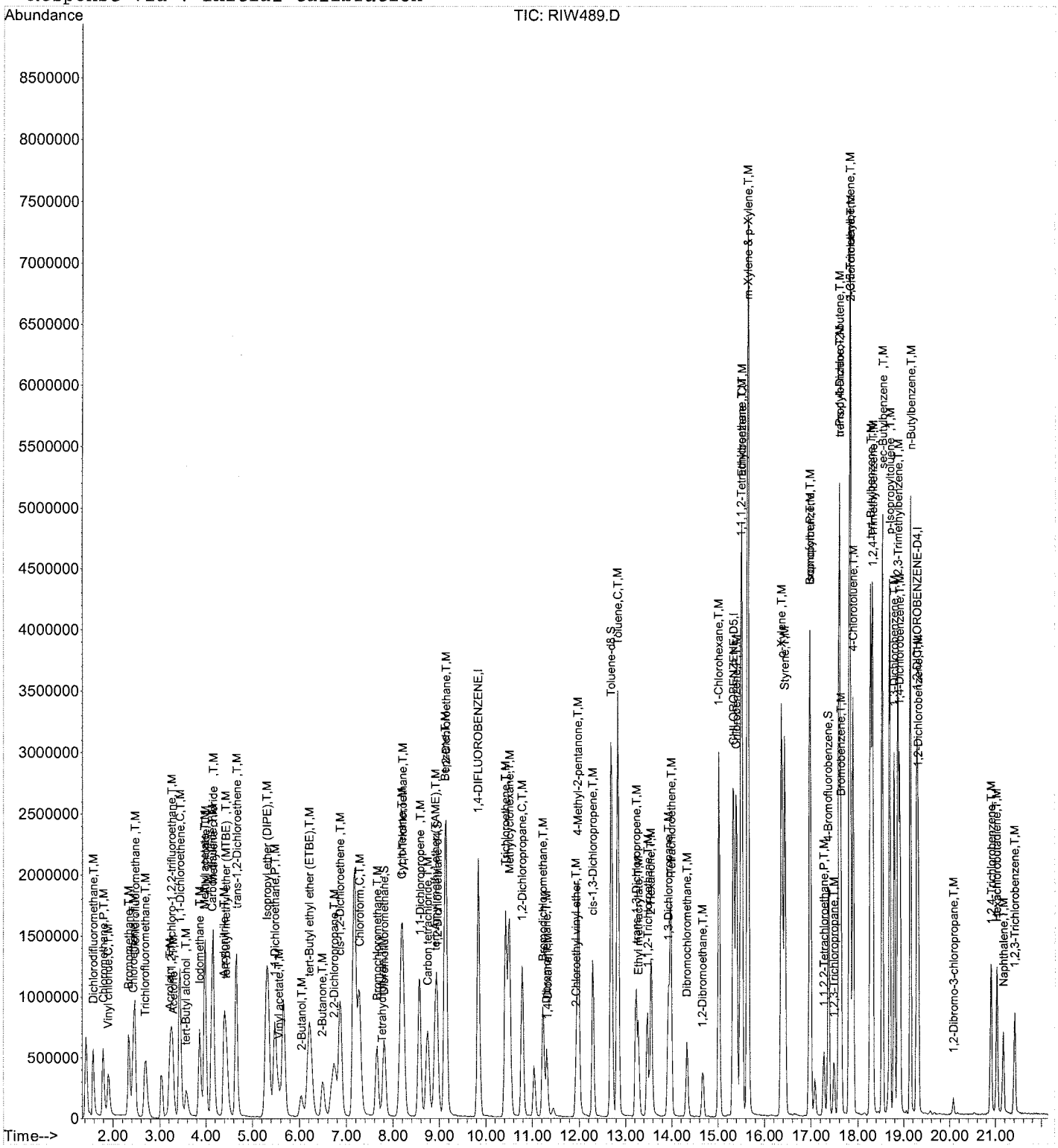
Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	489847	7.83	ug/l	95

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24J24\RIW489.D Vial: 45
Acq On : 25 Oct 2024 8:39 am Operator: PMai
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 19 11:33 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : TITAN 1-A
Lab Code : EMAX SDG No : 24J145
Lab File ID: RIW492 BFB Injection Date: 10/26/24
Instrument ID: 06 BFB Injection Time: 13:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	17.951
75	30 - 60% of mass 95	45.718
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	5.654
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	67.133
175	5 - 9% of mass 174	4.990(7.43)1
176	95 - 101% % of mass 174	65.168(97.07)1
177	5 - 9% % of mass 176	3.432(5.27)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, Lab QCs and Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD10	CVO06J196	RIW493	10/26/24	14:09
2	LCS2W	VO06J23L	RIW494	10/26/24	15:0B
3	LCD2W	VO06J23C	RIW495	10/26/24	15:34
4	MBLK2W	VO06J23B	RIW497	10/26/24	16:27
5	T1AMF-MW059_OCT24	24J145-11	RIW498	10/26/24	16:53
6	T1AMF-MW062_OCT24	24J145-04	RIW499	10/26/24	17:19
7	T1AMF-MW061_OCT24	24J145-05	RIW500	10/26/24	17:45
8	T1AMF-MW030_OCT24	24J145-06	RIW501	10/26/24	18:11
9	T1AMF-MW030_OCT24_FD	24J145-07	RIW502	10/26/24	18:38
10	T1AMF-MW057_OCT24	24J145-08	RIW503	10/26/24	19:04
11	T1AMF-MW048_OCT24	24J145-09	RIW504	10/26/24	19:30
12	T1AMF-MW060_OCT24	24J145-10	RIW505	10/26/24	19:57
13	T1AMF-MW059_OCT24MS	24J145-11M	RIW509	10/26/24	21:42
14	T1AMF-MW059_OCT24MSD	24J145-11S	RIW510	10/26/24	22:08
15	VSTD10	EVO06J196	RIW511	10/26/24	22:34

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

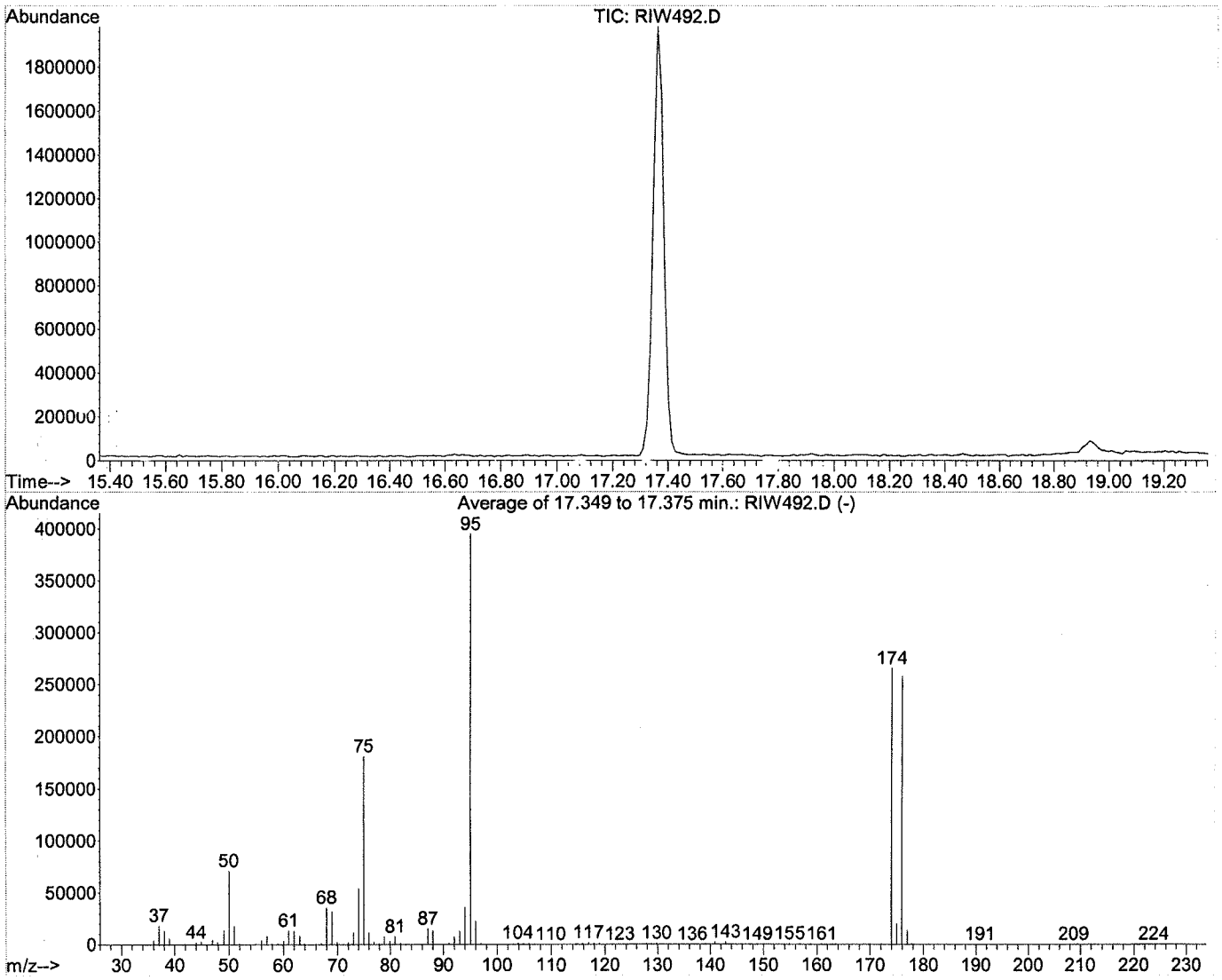
Lab Name: EMAX Laboratories, Inc.
Lab Code: EMAX
Lab File ID: RIW364
Instrument ID: 06

Project: TITAN 1-A
SDG No: 24J145
Date Analyzed: 10/19/24
Time Analyzed: 18:11

	INTERNAL STANDARD (IS)	1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5		1,2-DICHLOROBENZENE-D4	
		Area #	RT #	Area #	RT #	Area #	RT #
	12 HOUR STD	3831558	9.84	2808641	15.34	1084745	19.28
	UPPER LIMIT	7663116	10.0	5617282	15.51	2169490	19.45
	LOWER LIMIT	1915779	9.67	1404321	15.17	542373	19.11
		Area #	RT #	Area #	RT #	Area #	RT #
1	VSTD10	4329355	9.84	3201921	15.34	1059448	19.28
2	LCS2W	3344582	9.86	2227804	15.34	801767	19.28
3	LCD2W	4306769	9.84	3156215	15.34	1021343	19.28
4	MBLK2W	4008075	9.86	3002579	15.34	1031891	19.28
5	T1AMF-MW059_OCT24	3495902	9.84	2788721	15.34	999316	19.28
6	T1AMF-MW062_OCT24	3281594	9.84	2560008	15.34	886649	19.28
7	T1AMF-MW061_OCT24	3217301	9.86	2460843	15.34	821026	19.28
8	T1AMF-MW030_OCT24	2947622	9.84	2307617	15.34	808194	19.28
9	T1AMF-MW030_OCT24_FD	2929962	9.84	2285309	15.34	847260	19.28
10	T1AMF-MW057_OCT24	2997310	9.84	2332924	15.34	843934	19.28
11	T1AMF-MW048_OCT24	2859735	9.84	2172798	15.34	721734	19.28
12	T1AMF-MW060_OCT24	2741380	9.84	2129418	15.34	746929	19.28
13	T1AMF-MW059_OCT24MS	2753739	9.84	2127720	15.33	750759	19.27
14	T1AMF-MW059_OCT24MSD	2786874	9.84	2133078	15.33	752943	19.28
15	VSTD10	3124786	9.84	2361812	15.33	794339	19.27

Area Upper Limit = +100% of ICAL Midpoint IS Area
Area Lower Limit = -50% of ICAL Midpoint IS Area
Retention Time(RT) Upper Limit = +10 seconds of ICAL Midpoint IS RT
Retention Time(RT) Lower Limit = -10 seconds of ICAL Midpoint IS RT

Data File : D:\HPCHEM\1\DATA\24J26\RIW492.D Vial: 1
Acq On : 26 Oct 2024 1:01 pm Operator: DNguye
Sample : BFB06J23 Inst : 06
Misc : T/CHK Multiplr: 1.00
MS Integration Params: RTE.P
Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260



AutoFind: Scans 832, 833, 834; Background Corrected with Scan 825

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.0	70957	PASS
75	95	30	60	45.7	180715	PASS
95	95	100	100	100.0	395285	PASS
96	95	5	9	5.7	22349	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	67.1	265365	PASS
175	174	5	9	7.4	19723	PASS
176	174	95	101	97.1	257600	PASS
177	176	5	9	5.3	13565	PASS

RIW492.D VO06J19.M Wed Nov 20 13:46:10 2024

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW493.D Vial: 2
Acq On : 26 Oct 2024 2:09 pm Operator: DNguye
Sample : CVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	113	0.00
2	T,M	Dichlorodifluoromethane	10.000	8.948	10.5	85	0.02
3	P,T,M	Chloromethane	10.000	9.734	2.7	89	0.00
4	C,T,M	Vinyl chloride	10.000	9.175	8.2	80	0.02
5	T,M	Bromomethane	10.000	7.819	21.8#	74	0.02
6	T,M	Chloroethane	10.000	8.110	18.9	75	0.02
7	T,M	Dichlorofluoromethane	10.000	9.729	2.7	93	0.02
8	T,M	Trichlorofluoromethane	10.000	8.758	12.4	81	0.02
9	T,M	Acrolein	50.000	42.689	14.6	86	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	7.459	25.4#	69	0.00
11	T,M	Acetone	50.000	55.941	-11.9	117	0.00
12	C,T,M	1,1-Dichloroethene	10.000	9.984	0.2	95	0.00
13	T,M	tert-Butyl alcohol	250.000	261.242	-4.5	106	0.00
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	8.921	10.8	102	0.00
16	T,M	Iodomethane	10.000	8.230	17.7	78	0.00
17	T,M	Allyl chloride	10.000	8.953	10.5	86	0.00
18	T,M	Methylene chloride	10.000	11.766	-17.7	114	0.00
19	T,M	Carbon disulfide	10.000	7.655	23.4#	69	0.00
20	T,M	Acrylonitrile	50.000	52.434	-4.9	102	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	10.314	-3.1	97	0.02
22	T,M	trans-1,2-Dichloroethene	10.000	8.987	10.1	88	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	12.989	-29.9#	121	0.00
24	T,M	Vinyl acetate	10.000	11.636	-16.4	108	0.00
25	P,T,M	1,1-Dichloroethane	10.000	10.696	-7.0	103	0.00
26	T,M	2-Butanol	250.000	306.092	-22.4#	130	0.00
27	T,M	tert-Butyl ethyl ether (ETB	10.000	11.587	-15.9	113	0.00
28	T,M	2-Butanone	50.000	57.943	-15.9	112	0.00
29	T,M	2,2-Dichloropropane	10.000	10.928	-9.3	99	0.00
30	T,M	cis-1,2-Dichloroethene	10.000	9.492	5.1	92	0.00
31	C,T,M	Chloroform	10.000	9.723	2.8	97	0.00
32	T,M	Bromochloromethane	10.000	8.651	13.5	82	0.00
33	T,M	Tetrahydrofuran	10.000	9.566	4.3	112	0.02
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	-0.02
35	S	Dibromofluoromethane	10.000	8.742	12.6	77	0.00
36	T,M	1,1,1-Trichloroethane	10.000	10.094	-0.9	97	0.02
37	T,M	Cyclohexane	10.000	10.104	-1.0	97	0.00
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	0.12
39	T,M	1,1-Dichloropropene	10.000	8.902	11.0	88	0.00
40	T,M	Carbon tetrachloride	10.000	9.891	1.1	93	0.00
41	T,M	tert-Amyl methyl ether (TAM	10.000	10.582	-5.8	101	0.00
42	S	1,2-Dichloroethane-d4	10.000	10.427	-4.3	90	0.00
43	T,M	1,2-Dichloroethane	10.000	12.204	-22.0#	114	0.00
44	T,M	Benzene	10.000	10.286	-2.9	96	0.02
45	T,M	Trichloroethene	10.000	9.065	9.4	86	0.00
46	T,M	Methylcyclohexane	10.000	10.250	-2.5	105	0.00
47	C,T,M	1,2-Dichloropropane	10.000	11.203	-12.0	108	0.00
48	T,M	1,4-Dioxane	200.000	136.110	31.9#	74	0.02
49	T,M	Bromodichloromethane	10.000	10.171	-1.7	99	0.02
50	T,M	Dibromomethane	10.000	9.882	1.2	96	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW493.D Vial: 2
Acq On : 26 Oct 2024 2:09 pm Operator: DNguye
Sample : CVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	9.386	6.1	95	0.00
52	T,M	4-Methyl-2-pentanone	50.000	64.372	-28.7#	117	0.00
53	T,M	cis-1,3-Dichloropropene	10.000	10.573	-5.7	96	0.02
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	114	0.00
55	S	Toluene-d8	10.000	9.243	7.6	81	0.02
56	C,T,M	Toluene	10.000	10.092	-0.9	96	0.00
57	T,M	Ethyl methacrylate	10.000	10.782	-7.8	100	0.00
58	T,M	trans-1,3-Dichloropropene	10.000	10.975	-9.7	101	0.00
59	T,M	1,1,2-Trichloroethane	10.000	10.014	-0.1	95	0.00
60	T,M	2-Hexanone	50.000	63.234	-26.5#	119	0.02
61	T,M	1,3-Dichloropropane	10.000	10.321	-3.2	96	0.00
62	T,M	Tetrachloroethene	10.000	8.220	17.8	78	0.00
63	T,M	Dibromochloromethane	10.000	9.003	10.0	86	0.00
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	9.709	2.9	89	0.02
66	T,M	1-Chlorohexane	10.000	9.946	0.5	100	0.01
67	P,T,M	Chlorobenzene	10.000	10.388	-3.9	96	0.00
68	T,M	1,1,1,2-Tetrachloroethane	10.000	9.457	5.4	89	0.00
69	C,T,M	Ethylbenzene	10.000	10.058	-0.6	94	0.00
70	T,M	m-Xylene & p-Xylene	20.000	20.014	-0.1	96	-0.01
71	T,M	o-Xylene	10.000	10.006	-0.1	97	0.00
72	T,M	Styrene	10.000	10.432	-4.3	96	0.00
73	T,M	Isopropylbenzene	10.000	10.031	-0.3	95	0.00
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	98	0.00
75	P,T,M	Bromoform	10.000	9.586	4.1	81	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	12.081	-20.8#	96	0.00
77	S	4-Bromofluorobenzene	10.000	10.229	-2.3	81	0.00
78	T,M	1,2,3-Trichloropropane	10.000	10.534	-5.3	90	0.00
79	T,M	trans-1,4-Dichloro-2-butene	10.000	13.500	-35.0#	112	0.01
80	T,M	n-Propylbenzene	10.000	11.872	-18.7	96	0.00
81	T,M	Bromobenzene	10.000	10.007	-0.1	79	0.00
82	T,M	1,3,5-Trimethylbenzene	10.000	11.841	-18.4	94	0.00
83	T,M	2-Chlorotoluene	10.000	12.427	-24.3#	105	0.00
84	T,M	4-Chlorotoluene	10.000	11.694	-16.9	89	0.00
85	T,M	tert-Butylbenzene	10.000	11.047	-10.5	88	0.00
86	T,M	1,2,4-Trimethylbenzene	10.000	11.896	-19.0	95	0.00
87	T,M	sec-Butylbenzene	10.000	11.860	-18.6	95	0.00
88	T,M	p-Isopropyltoluene	10.000	11.633	-16.3	93	0.00
89	T,M	1,3-Dichlorobenzene	10.000	10.509	-5.1	82	0.00
90	T,M	1,2,3-Trimethylbenzene	10.000	11.844	-18.4	94	0.00
91	T,M	1,4-Dichlorobenzene	10.000	10.556	-5.6	82	0.00
92	T,M	n-Butylbenzene	10.000	11.760	-17.6	96	0.00
93	T,M	1,2-Dichlorobenzene	10.000	10.482	-4.8	83	0.00
94	T,M	1,2-Dibromo-3-chloropropane	10.000	7.584	24.2#	72	0.00
95	T,M	1,2,4-Trichlorobenzene	10.000	9.942	0.6	82	0.00
96	T,M	Hexachlorobutadiene	10.000	9.979	0.2	79	0.00
97	T,M	Naphthalene	10.000	10.091	-0.9	84	0.00
98	T,M	1,2,3-Trichlorobenzene	10.000	9.198	8.0	77	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW493.D Vial: 2
Acq On : 26 Oct 2024 2:09 pm Operator: DNguye
Sample : CVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	113	0.00
2	T,M	Dichlorodifluoromethane	0.356	0.318	10.7	85	0.02
3	P,T,M	Chloromethane	0.346	0.336	2.9	89	0.00
4	C,T,M	Vinyl chloride	0.277	0.254	8.3	80	0.02
5	T,M	Bromomethane	0.252	0.197	21.8#	74	0.02
6	T,M	Chloroethane	0.191	0.155	18.8	75	0.02
7	T,M	Dichlorofluoromethane	0.468	0.455	2.8	93	0.02
8	T,M	Trichlorofluoromethane	0.371	0.325	12.4	81	0.02
9	T,M	Acrolein	0.010	0.009	10.0	86	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.159	25.4#	69	0.00
11	T,M	Acetone	0.031	0.035	-12.9	117	0.00
12	C,T,M	1,1-Dichloroethene	0.453	0.452	0.2	95	0.00
13	T,M	tert-Butyl alcohol	0.009	0.009	0.0	106	0.00
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.019	9.5	102	0.00
16	T,M	Iodomethane	0.464	0.382	17.7	78	0.00
17	T,M	Allyl chloride	0.181	0.162	10.5	86	0.00
18	T,M	Methylene chloride	0.332	0.391	-17.8	114	0.00
19	T,M	Carbon disulfide	0.567	0.434	23.5#	69	0.00
20	T,M	Acrylonitrile	0.041	0.043	4.9	102	0.00
21	T,M	tert-Butyl methyl ether (MT	0.482	0.498	-3.3	97	0.02
22	T,M	trans-1,2-Dichloroethene	0.339	0.305	10.0	88	0.00
23	T,M	Isopropyl ether (DIPE)	0.895	1.163	-29.9#	121	0.00
24	T,M	Vinyl acetate	0.311	0.361	-16.1	108	0.00
25	P,T,M	1,1-Dichloroethane	0.504	0.539	-6.9	103	0.00
26	T,M	2-Butanol	0.009	0.011	-22.2#	130	0.00
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.767	-15.9	113	0.00
28	T,M	2-Butanone	0.052	0.060	-15.4	112	0.00
29	T,M	2,2-Dichloropropane	0.302	0.330	-9.3	99	0.00
30	T,M	cis-1,2-Dichloroethene	0.327	0.311	4.9	92	0.00
31	C,T,M	Chloroform	0.503	0.489	2.8	97	0.00
32	T,M	Bromochloromethane	0.139	0.121	12.9	82	0.00
33	T,M	Tetrahydrofuran	0.030	0.029	3.3	112	0.02
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	-0.02
35	S	Dibromofluoromethane	0.245	0.214	12.7	77	0.00
36	T,M	1,1,1-Trichloroethane	0.402	0.405	-0.7	97	0.02
37	T,M	Cyclohexane	0.502	0.507	-1.0	97	0.00
38	T,M	2,2,4-Trimethylpentane	0.000	0.000	0.0	0#	0.12
39	T,M	1,1-Dichloropropene	0.148	0.132	10.8	88	0.00
40	T,M	Carbon tetrachloride	0.327	0.324	0.9	93	0.00
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.593	-5.9	101	0.00
42	S	1,2-Dichloroethane-d4	0.170	0.177	-4.1	90	0.00
43	T,M	1,2-Dichloroethane	0.204	0.249	-22.1#	114	0.00
44	T,M	Benzene	1.159	1.192	-2.8	96	0.02
45	T,M	Trichloroethene	0.306	0.277	9.5	86	0.00
46	T,M	Methylcyclohexane	0.624	0.640	-2.6	105	0.00
47	C,T,M	1,2-Dichloropropane	0.252	0.282	-11.9	108	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	74	0.02
49	T,M	Bromodichloromethane	0.326	0.332	-1.8	99	0.02
50	T,M	Dibromomethane	0.122	0.120	1.6	96	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW493.D Vial: 2
Acq On : 26 Oct 2024 2:09 pm Operator: DNguye
Sample : CVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.083	0.077	7.2	95	0.00
52	T,M	4-Methyl-2-pentanone	0.139	0.179	-28.8#	117	0.00
53	T,M	cis-1,3-Dichloropropene	0.391	0.413	-5.6	96	0.02
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	114	0.00
55	S	Toluene-d8	1.382	1.277	7.6	81	0.02
56	C,T,M	Toluene	1.660	1.675	-0.9	96	0.00
57	T,M	Ethyl methacrylate	0.269	0.290	-7.8	100	0.00
58	T,M	trans-1,3-Dichloropropene	0.390	0.428	-9.7	101	0.00
59	T,M	1,1,2-Trichloroethane	0.209	0.209	0.0	95	0.00
60	T,M	2-Hexanone	0.118	0.150	-27.[illegible]#	119	0.02
61	T,M	1,3-Dichloropropane	0.372	0.384	-3.2	96	0.00
62	T,M	Tetrachloroethene	0.352	0.290	17.6	78	0.00
63	T,M	Dibromochloromethane	0.258	0.232	10.1	86	0.00
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.185	3.1	89	0.02
66	T,M	1-Chlorohexane	0.676	0.673	0.4	100	0.01
67	P,T,M	Chlorobenzene	0.907	0.942	-3.9	96	0.00
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.290	5.2	89	0.00
69	C,T,M	Ethylbenzene	1.791	1.801	-0.6	94	0.00
70	T,M	m-Xylene & p-Xylene	1.341	1.342	-0.1	96	-0.01
71	T,M	o-Xylene	1.351	1.352	-0.1	97	0.00
72	T,M	Styrene	0.966	1.007	-4.2	96	0.00
73	T,M	Isopropylbenzene	1.752	1.757	-0.3	95	0.00
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	98	0.00
75	P,T,M	Bromoform	0.312	0.299	4.2	81	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.657	-20.8#	96	0.00
77	S	4-Bromofluorobenzene	1.116	1.142	-2.3	81	0.00
78	T,M	1,2,3-Trichloropropane	0.139	0.147	-5.8	90	0.00
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.174	-34.9#	112	0.01
80	T,M	n-Propylbenzene	5.578	6.622	-18.7	96	0.00
81	T,M	Bromobenzene	0.891	0.891	0.0	79	0.00
82	T,M	1,3,5-Trimethylbenzene	3.477	4.117	-18.4	94	0.00
83	T,M	2-Chlorotoluene	3.364	4.180	-24.3#	105	0.00
84	T,M	4-Chlorotoluene	2.888	3.378	-17.0	89	0.00
85	T,M	tert-Butylbenzene	0.774	0.855	-10.5	88	0.00
86	T,M	1,2,4-Trimethylbenzene	3.400	4.045	-19.0	95	0.00
87	T,M	sec-Butylbenzene	4.841	5.742	-18.6	95	0.00
88	T,M	p-Isopropyltoluene	3.830	4.455	-16.3	93	0.00
89	T,M	1,3-Dichlorobenzene	1.733	1.821	-5.1	82	0.00
90	T,M	1,2,3-Trimethylbenzene	3.005	3.559	-18.4	94	0.00
91	T,M	1,4-Dichlorobenzene	1.673	1.765	-5.5	82	0.00
92	T,M	n-Butylbenzene	3.769	4.432	-17.6	96	0.00
93	T,M	1,2-Dichlorobenzene	1.413	1.481	-4.8	83	0.00
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.064	24.7#	72	0.00
95	T,M	1,2,4-Trichlorobenzene	0.820	0.815	0.6	82	0.00
96	T,M	Hexachlorobutadiene	0.489	0.488	0.2	79	0.00
97	T,M	Naphthalene	1.149	1.159	-0.9	84	0.00
98	T,M	1,2,3-Trichlorobenzene	0.618	0.568	8.1	77	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW493.D Vial: 2
Acq On : 26 Oct 2024 2:09 pm Operator: DNguye
Sample : CVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 20 13:46 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4329355	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	3201921	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1059448	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	927014	8.74	ug/l	0.00
Spiked Amount 10.000			Recovery = 87.40%			
42) 1,2-Dichloroethane-d4	8.96	65	765522	10.43	ug/l	0.00
Spiked Amount 10.000			Recovery = 104.30%			
55) Toluene-d8	12.71	98	4090087	9.24	ug/l	0.02
Spiked Amount 10.000			Recovery = 92.40%			
77) 4-Bromofluorobenzene	17.38	95	1209986	10.23	ug/l	0.00
Spiked Amount 10.000			Recovery = 102.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	1377562	8.95	ug/l	96
3) Chloromethane	1.80	50	1456796	9.73	ug/l	97
4) Vinyl chloride	1.92	62	1101105	9.17	ug/l	97
5) Bromomethane	2.35	94	853635	7.82	ug/l	95
6) Chloroethane	2.43	64	670175	8.11	ug/l	94
7) Dichlorofluoromethane	2.47	67	1970204	9.73	ug/l	99
8) Trichlorofluoromethane	2.71	101	1407734	8.76	ug/l	97
9) Acrolein	3.22	56	191321	42.69	ug/l	96
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	687374	7.46	ug/l	98
11) Acetone	3.30	43	749542	55.94	ug/l	91
12) 1,1-Dichloroethene	3.45	61	1956673	9.98	ug/l	93
13) tert-Butyl alcohol	3.59	59	967489	261.24	ug/l	100
15) Methyl acetate	3.97	74	81230	8.92	ug/l	96
16) Iodomethane	3.87	142	1653326	8.23	ug/l	93
17) Allyl chloride	3.99	76	702423	8.95	ug/l	99
18) Methylene chloride	4.16	49	1691348	11.77	ug/l	83
19) Carbon disulfide	4.14	76	1878711	7.66	ug/l	99
20) Acrylonitrile	4.39	53	937264	52.43	ug/l	97
21) tert-Butyl methyl ether (M	4.45	73	2154397	10.31	ug/l	98
22) trans-1,2-Dichloroethene	4.66	96	1318999	8.99	ug/l	99
23) Isopropyl ether (DIPE)	5.33	45	5033653	12.99	ug/l	89
24) Vinyl acetate	5.56	43	1564629	11.64	ug/l	94
25) 1,1-Dichloroethane	5.48	63	2334374	10.70	ug/l	97
26) 2-Butanol	6.05	45	1136700	306.09	ug/l	93
27) tert-Butyl ethyl ether (ET	6.21	59	3318476	11.59	ug/l	90
28) 2-Butanone	6.51	43	1309056	57.94	ug/l	91
29) 2,2-Dichloropropane	6.76	77	1429212	10.93	ug/l	94
30) cis-1,2-Dichloroethene	6.88	96	1344417	9.49	ug/l	99
31) Chloroform	7.28	83	2118955	9.72	ug/l	97
32) Bromochloromethane	7.66	130	522003	8.65	ug/l	99
33) Tetrahydrofuran	7.78	42	123815	9.57	ug/l	85
36) 1,1,1-Trichloroethane	8.23	97	1755429	10.09	ug/l	96
37) Cyclohexane	8.18	84	2195301	10.10	ug/l	99
39) 1,1-Dichloropropene	8.58	110	570344	8.90	ug/l	99
40) Carbon tetrachloride	8.75	119	1402403	9.89	ug/l	100
41) tert-Amyl methyl ether (TA	8.94	73	2565870	10.58	ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW493.D Vial: 2
Acq On : 26 Oct 2024 2:09 pm Operator: DNguye
Sample : CVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 20 13:46 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	1077148	12.20	ug/l	98
44)	Benzene	9.15	78	5160300	10.29	ug/l	98
45)	Trichloroethene	10.43	130	1201274	9.06	ug/l	94
46)	Methylcyclohexane	10.51	83	2771148	10.25	ug/l	91
47)	1,2-Dichloropropane	10.78	63	1223037	11.20	ug/l	97
48)	1,4-Dioxane	11.35	88	53907	136.11	ug/l	79
49)	Bromodichloromethane	11.24	83	1435818	10.17	ug/l	98
50)	Dibromomethane	11.31	93	521563	9.88	ug/l	91
51)	2-Chloroethyl vinyl ether	11.93	63	335363	9.39	ug/l	95
52)	4-Methyl-2-pentanone	11.98	43	3878095	64.37	ug/l	92
53)	cis-1,3-Dichloropropene	12.31	75	1788556	10.57	ug/l	89
56)	Toluene	12.84	91	5363501	10.09	ug/l	99
57)	Ethyl methacrylate	13.28	69	929318	10.78	ug/l	84
58)	trans-1,3-Dichloropropene	13.23	75	1371430	10.97	ug/l	77
59)	1,1,2-Trichloroethane	13.49	97	669186	10.01	ug/l	98
60)	2-Hexanone	13.57	43	2394093	63.23	ug/l	94
61)	1,3-Dichloropropane	13.93	76	1228736	10.32	ug/l	99
62)	Tetrachloroethene	13.99	164	927443	8.22	ug/l	96
63)	Dibromochloromethane	14.32	129	743987	9.00	ug/l	98
65)	1,2-Dibromoethane	14.68	107	592452	9.71	ug/l	97
66)	1-Chlorohexane	15.04	91	2153726	9.95	ug/l	95
67)	Chlorobenzene	15.40	112	3017424	10.39	ug/l	99
68)	1,1,1,2-Tetrachloroethane	15.49	131	927508	9.46	ug/l	97
69)	Ethylbenzene	15.51	91	5767112	10.06	ug/l	98
70)	m-Xylene & p-Xylene	15.64	91	8592051	20.01	ug/l	98
71)	o-Xylene	16.36	91	4328501	10.01	ug/l	98
72)	Styrene	16.44	104	3225691	10.43	ug/l	98
73)	Isopropylbenzene	16.99	105	5626019	10.03	ug/l	98
75)	Bromoform	16.97	173	317058	9.59	ug/l	92
76)	1,1,2,2-Tetrachloroethane	17.27	83	695931	12.08	ug/l	96
78)	1,2,3-Trichloropropane	17.49	110	155356	10.53	ug/l	93
79)	trans-1,4-Dichloro-2-buten	17.61	53	184415	13.50	ug/l	82
80)	n-Propylbenzene	17.60	91	7016009	11.87	ug/l	96
81)	Bromobenzene	17.63	156	944220	10.01	ug/l	100
82)	1,3,5-Trimethylbenzene	17.82	105	4361851	11.84	ug/l	96
83)	2-Chlorotoluene	17.83	91	4429003	12.43	ug/l	89
84)	4-Chlorotoluene	17.89	91	3578389	11.69	ug/l	100
85)	tert-Butylbenzene	18.28	134	905388	11.05	ug/l	91
86)	1,2,4-Trimethylbenzene	18.32	105	4285231	11.90	ug/l	96
87)	sec-Butylbenzene	18.53	105	6082979	11.86	ug/l	96
88)	p-Isopropyltoluene	18.70	119	4715821	11.63	ug/l	96
89)	1,3-Dichlorobenzene	18.79	146	1929554	10.51	ug/l	97
90)	1,2,3-Trimethylbenzene	18.87	105	3770643	11.84	ug/l	96
91)	1,4-Dichlorobenzene	18.92	146	1870430	10.56	ug/l	96
92)	n-Butylbenzene	19.14	91	4695301	11.76	ug/l	96
93)	1,2-Dichlorobenzene	19.31	146	1569098	10.48	ug/l	100
94)	1,2-Dibromo-3-chloropropan	20.07	157	68254	7.58	ug/l	98
95)	1,2,4-Trichlorobenzene	20.90	180	863274	9.94	ug/l	100
96)	Hexachlorobutadiene	21.03	225	516846	9.98	ug/l	96
97)	Naphthalene	21.16	128	1228208	10.09	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J26\RIW493.D Vial: 2
Acq On : 26 Oct 2024 2:09 pm Operator: DNguye
Sample : CVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 20 13:46 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

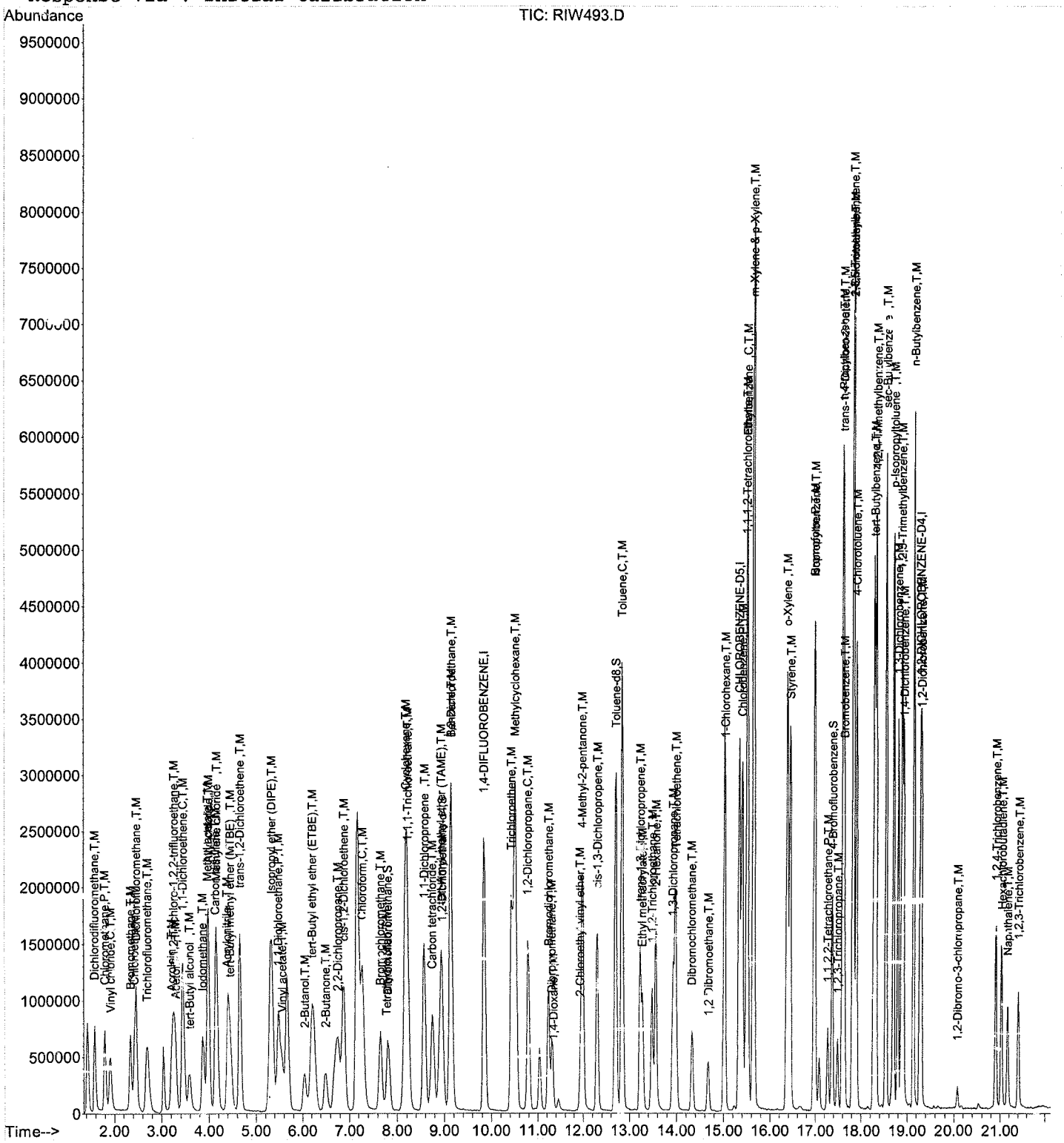
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	602007	9.20	ug/l	98

(#) = qualifier out of range (m) = manual integration
RIW493.D VO06J19.M Wed Nov 20 13:47:28 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW493.D Vial: 2
Acq On : 26 Oct 2024 2:09 pm Operator: DNguye
Sample : CVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 20 13:46 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW511.D Vial: 20
Acq On : 26 Oct 2024 10:34 pm Operator: DNguye
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	82	0.00
2	T,M	Dichlorodifluoromethane	10.000	8.817	11.8	60	0.02
3	P,T,M	Chloromethane	10.000	9.566	4.3	63	0.00
4	C,T,M	Vinyl chloride	10.000	9.121	8.8	57	0.02
5	T,M	Bromomethane	10.000	8.180	18.2	56	0.00
6	T,M	Chloroethane	10.000	7.687	23.1#	51	0.02
7	T,M	Dichlorofluoromethane	10.000	9.207	7.9	63	0.02
8	T,M	Trichlorofluoromethane	10.000	8.868	11.3	59	0.00
9	T,M	Acrolein	50.000	36.326	27.3#	53	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	6.517	34.8#	44	0.00
11	T,M	Acetone	50.000	48.488	3.0	73	0.00
12	C,T,M	1,1-Dichloroethene	10.000	9.622	3.8	66	0.00
13	T,M	tert-Butyl alcohol	250.000	199.753	20.1#	59	0.00
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	7.310	26.9#	60	-0.02
16	T,M	Iodomethane	10.000	7.931	20.7#	54	0.00
17	T,M	Allyl chloride	10.000	8.415	15.9	59	0.00
18	T,M	Methylene chloride	10.000	11.416	-14.2	80	0.00
19	T,M	Carbon disulfide	10.000	7.243	27.6#	47	0.00
20	T,M	Acrylonitrile	50.000	46.911	6.2	66	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	9.876	1.2	67	0.00
22	T,M	trans-1,2-Dichloroethene	10.000	8.481	15.2	60	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	12.708	-27.1#	85	-0.02
24	T,M	Vinyl acetate	10.000	10.423	-4.2	70	0.00
25	P,T,M	1,1-Dichloroethane	10.000	10.429	-4.3	73	0.00
26	T,M	2-Butanol	250.000	195.835	21.7#	60	0.00
27	T,M	tert-Butyl ethyl ether (ETB	10.000	11.004	-10.0	78	0.00
28	T,M	2-Butanone	50.000	53.934	-7.9	75	-0.02
29	T,M	2,2-Dichloropropane	10.000	9.630	3.7	63	0.00
30	T,M	cis-1,2-Dichloroethene	10.000	9.205	7.9	64	-0.02
31	C,T,M	Chloroform	10.000	9.925	0.7	71	0.00
32	T,M	Bromochloromethane	10.000	8.301	17.0	57	0.00
33	T,M	Tetrahydrofuran	10.000	8.677	13.2	73	0.00
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	-0.04
35	S	Dibromofluoromethane	10.000	8.946	10.5	57	0.00
36	T,M	1,1,1-Trichloroethane	10.000	10.229	-2.3	71	0.00
37	T,M	Cyclohexane	10.000	7.674	23.3#	53	0.00
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	-0.04
39	T,M	1,1-Dichloropropene	10.000	7.944	20.6#	57	0.00
40	T,M	Carbon tetrachloride	10.000	9.738	2.6	66	0.00
41	T,M	tert-Amyl methyl ether (TAM	10.000	10.266	-2.7	71	-0.02
42	S	1,2-Dichloroethane-d4	10.000	11.312	-13.1	70	0.00
43	T,M	1,2-Dichloroethane	10.000	12.732	-27.3#	85	0.00
44	T,M	Benzene	10.000	10.295	-2.9	69	0.00
45	T,M	Trichloroethene	10.000	8.683	13.2	59	0.00
46	T,M	Methylcyclohexane	10.000	7.290	27.1#	54	0.00
47	C,T,M	1,2-Dichloropropane	10.000	10.656	-6.6	74	0.00
48	T,M	1,4-Dioxane	200.000	133.010	33.5#	52	0.02
49	T,M	Bromodichloromethane	10.000	10.820	-8.2	76	0.00
50	T,M	Dibromomethane	10.000	9.548	4.5	67	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW511.D Vial: 20
Acq On : 26 Oct 2024 10:34 pm Operator: DNguye
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	9.315	6.9	68	0.00
52	T,M	4-Methyl-2-pentanone	50.000	64.381	-28.8#	85	0.00
53	T,M	cis-1,3-Dichloropropene	10.000	10.552	-5.5	69	0.00
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	84	-0.01
55	S	Toluene-d8	10.000	9.354	6.5	61	0.00
56	C,T,M	Toluene	10.000	10.034	-0.3	71	0.00
57	T,M	Ethyl methacrylate	10.000	10.201	-2.0	70	0.00
58	T,M	trans-1,3-Dichloropropene	10.000	10.656	-6.6	72	-0.03
59	T,M	1,1,2-Trichloroethane	10.000	9.802	2.0	68	0.00
60	T,M	2-Hexanone	50.000	60.951	-21.9#	84	0.00
61	T,M	1,3-Dichloropropane	10.000	10.188	-1.9	70	0.00
62	T,M	Tetrachloroethene	10.000	7.847	21.5#	55	-0.03
63	T,M	Dibromochloromethane	10.000	9.286	7.1	65	0.00
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	9.612	3.9	65	0.00
66	T,M	1-Chlorohexane	10.000	9.595	4.0	71	0.00
67	P,T,M	Chlorobenzene	10.000	10.222	-2.2	69	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	10.000	9.422	5.8	66	-0.01
69	C,T,M	Ethylbenzene	10.000	10.256	-2.6	71	0.00
70	T,M	m-Xylene & p-Xylene	20.000	20.343	-1.7	72	-0.01
71	T,M	o-Xylene	10.000	10.153	-1.5	72	0.00
72	T,M	Styrene	10.000	10.276	-2.8	70	-0.01
73	T,M	Isopropylbenzene	10.000	10.006	-0.1	70	-0.01
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	73	-0.01
75	P,T,M	Bromoform	10.000	9.394	6.1	59	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	11.343	-13.4	68	0.00
77	S	4-Bromofluorobenzene	10.000	10.452	-4.5	62	-0.01
78	T,M	1,2,3-Trichloropropane	10.000	10.536	-5.4	68	0.00
79	T,M	trans-1,4-Dichloro-2-butene	10.000	12.724	-27.2#	79	0.00
80	T,M	n-Propylbenzene	10.000	11.550	-15.5	70	0.00
81	T,M	Bromobenzene	10.000	9.683	3.2	57	0.00
82	T,M	1,3,5-Trimethylbenzene	10.000	11.418	-14.2	68	0.00
83	T,M	2-Chlorotoluene	10.000	11.882	-18.8	75	-0.01
84	T,M	4-Chlorotoluene	10.000	12.387	-23.9#	71	0.00
85	T,M	tert-Butylbenzene	10.000	10.483	-4.8	63	-0.01
86	T,M	1,2,4-Trimethylbenzene	10.000	11.674	-16.7	70	-0.01
87	T,M	sec-Butylbenzene	10.000	11.346	-13.5	68	0.00
88	T,M	p-Isopropyltoluene	10.000	10.886	-8.9	65	-0.01
89	T,M	1,3-Dichlorobenzene	10.000	10.475	-4.7	62	0.00
90	T,M	1,2,3-Trimethylbenzene	10.000	11.847	-18.5	71	0.00
91	T,M	1,4-Dichlorobenzene	10.000	10.363	-3.6	60	-0.01
92	T,M	n-Butylbenzene	10.000	11.008	-10.1	67	0.00
93	T,M	1,2-Dichlorobenzene	10.000	10.285	-2.9	61	0.00
94	T,M	1,2-Dibromo-3-chloropropane	10.000	7.466	25.3#	53	0.00
95	T,M	1,2,4-Trichlorobenzene	10.000	8.671	13.3	54	-0.02
96	T,M	Hexachlorobutadiene	10.000	8.122	18.8	49	-0.01
97	T,M	Naphthalene	10.000	9.407	5.9	59	0.00
98	T,M	1,2,3-Trichlorobenzene	10.000	8.229	17.7	51	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW511.D Vial: 20
Acq On : 26 Oct 2024 10:34 pm Operator: DNguye
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	82	0.00
2	T,M	Dichlorodifluoromethane	0.356	0.314	11.8	60	0.02
3	P,T,M	Chloromethane	0.346	0.331	4.3	63	0.00
4	C,T,M	Vinyl chloride	0.277	0.253	8.7	57	0.02
5	T,M	Bromomethane	0.252	0.206	18.3	56	0.00
6	T,M	Chloroethane	0.191	0.147	23.0#	51	0.02
7	T,M	Dichlorofluoromethane	0.468	0.431	7.9	63	0.02
8	T,M	Trichlorofluoromethane	0.371	0.329	11.3	59	0.00
9	T,M	Acrolein	0.010	0.008	20.0	53	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.139	34.7#	44#	0.00
11	T,M	Acetone	0.031	0.030	3.2	73	0.00
12	C,T,M	1,1-Dichloroethene	0.453	0.436	3.8	66	0.00
13	T,M	tert-Butyl alcohol	0.009	0.007	22.2#	59	0.00
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.015	28.6#	60	-0.02
16	T,M	Iodomethane	0.464	0.368	20.7#	54	0.00
17	T,M	Allyl chloride	0.181	0.152	16.0	59	0.00
18	T,M	Methylene chloride	0.332	0.379	-14.2	80	0.00
19	T,M	Carbon disulfide	0.567	0.411	27.5#	47#	0.00
20	T,M	Acrylonitrile	0.041	0.039	4.9	66	0.00
21	T,M	tert-Butyl methyl ether (MT	0.482	0.477	1.0	67	0.00
22	T,M	trans-1,2-Dichloroethene	0.339	0.288	15.0	60	0.00
23	T,M	Isopropyl ether (DIPE)	0.895	1.137	-27.0#	85	-0.02
24	T,M	Vinyl acetate	0.311	0.324	-4.2	70	0.00
25	P,T,M	1,1-Dichloroethane	0.504	0.526	-4.4	73	0.00
26	T,M	2-Butanol	0.009	0.007	22.2#	60	0.00
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.728	-10.0	78	0.00
28	T,M	2-Butanone	0.052	0.056	-7.7	75	-0.02
29	T,M	2,2-Dichloropropane	0.302	0.291	3.6	63	0.00
30	T,M	cis-1,2-Dichloroethene	0.327	0.301	8.0	64	-0.02
31	C,T,M	Chloroform	0.503	0.500	0.6	71	0.00
32	T,M	Bromochloromethane	0.139	0.116	16.5	57	0.00
33	T,M	Tetrahydrofuran	0.030	0.026	13.3	73	0.00
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	-0.04
35	S	Dibromofluoromethane	0.245	0.219	10.6	57	0.00
36	T,M	1,1,1-Trichloroethane	0.402	0.411	-2.2	71	0.00
37	T,M	Cyclohexane	0.502	0.385	23.3#	53	0.00
38	T,M	2,2,4-Trimethylpentane	0.000	0.000	0.0	0#	-0.04
39	T,M	1,1-Dichloropropene	0.148	0.118	20.3#	57	0.00
40	T,M	Carbon tetrachloride	0.327	0.319	2.4	66	0.00
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.575	-2.7	71	-0.02
42	S	1,2-Dichloroethane-d4	0.170	0.192	-12.9	70	0.00
43	T,M	1,2-Dichloroethane	0.204	0.260	-27.5#	85	0.00
44	T,M	Benzene	1.159	1.193	-2.9	69	0.00
45	T,M	Trichloroethene	0.306	0.266	13.1	59	0.00
46	T,M	Methylcyclohexane	0.624	0.455	27.1#	54	0.00
47	C,T,M	1,2-Dichloropropane	0.252	0.269	-6.7	74	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	52	0.02
49	T,M	Bromodichloromethane	0.326	0.353	-8.3	76	0.00
50	T,M	Dibromomethane	0.122	0.116	4.9	67	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J26\RIW511.D Vial: 20
Acq On : 26 Oct 2024 10:34 pm Operator: DNguye
Sample : EVO06J196 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.083	0.077	7.2	68	0.00
52	T,M	4-Methyl-2-pentanone	0.139	0.179	-28.8#	85	0.00
53	T,M	cis-1,3-Dichloropropene	0.391	0.412	-5.4	69	0.00
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	84	-0.01
55	S	Toluene-d8	1.382	1.293	6.4	61	0.00
56	C,T,M	Toluene	1.660	1.666	-0.4	71	0.00
57	T,M	Ethyl methacrylate	0.269	0.275	-2.2	70	0.00
58	T,M	trans-1,3-Dichloropropene	0.390	0.416	-6.7	72	-0.03
59	T,M	1,1,2-Trichloroethane	0.209	0.205	1.9	68	0.00
60	T,M	2-Hexanone	0.113	0.144	-22.0#	84	0.00
61	T,M	1,3-Dichloropropane	0.372	0.379	-1.9	70	0.00
62	T,M	Tetrachloroethene	0.352	0.276	21.6#	55	-0.03
63	T,M	Dibromochloromethane	0.258	0.240	7.0	65	0.00
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.183	4.2	65	0.00
66	T,M	1-Chlorohexane	0.676	0.649	4.0	71	0.00
67	P,T,M	Chlorobenzene	0.907	0.927	-2.2	69	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.289	5.6	66	-0.01
69	C,T,M	Ethylbenzene	1.791	1.837	-2.6	71	0.00
70	T,M	m-Xylene & p-Xylene	1.341	1.364	-1.7	72	-0.01
71	T,M	o-Xylene	1.351	1.372	-1.6	72	0.00
72	T,M	Styrene	0.966	0.992	-2.7	70	-0.01
73	T,M	Isopropylbenzene	1.752	1.753	-0.1	70	-0.01
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	73	-0.01
75	P,T,M	Bromoform	0.312	0.293	6.1	59	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.617	-13.4	68	0.00
77	S	4-Bromofluorobenzene	1.116	1.167	-4.6	62	-0.01
78	T,M	1,2,3-Trichloropropane	0.139	0.147	-5.8	68	0.00
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.164	-27.1#	79	0.00
80	T,M	n-Propylbenzene	5.578	6.442	-15.5	70	0.00
81	T,M	Bromobenzene	0.891	0.862	3.3	57	0.00
82	T,M	1,3,5-Trimethylbenzene	3.477	3.970	-14.2	68	0.00
83	T,M	2-Chlorotoluene	3.364	3.997	-18.8	75	-0.01
84	T,M	4-Chlorotoluene	2.888	3.578	-23.9#	71	0.00
85	T,M	tert-Butylbenzene	0.774	0.811	-4.8	63	-0.01
86	T,M	1,2,4-Trimethylbenzene	3.400	3.969	-16.7	70	-0.01
87	T,M	sec-Butylbenzene	4.841	5.493	-13.5	68	0.00
88	T,M	p-Isopropyltoluene	3.830	4.169	-8.9	65	-0.01
89	T,M	1,3-Dichlorobenzene	1.733	1.815	-4.7	62	0.00
90	T,M	1,2,3-Trimethylbenzene	3.005	3.560	-18.5	71	0.00
91	T,M	1,4-Dichlorobenzene	1.673	1.733	-3.6	60	-0.01
92	T,M	n-Butylbenzene	3.769	4.148	-10.1	67	0.00
93	T,M	1,2-Dichlorobenzene	1.413	1.453	-2.8	61	0.00
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.063	25.9#	53	0.00
95	T,M	1,2,4-Trichlorobenzene	0.820	0.711	13.3	54	-0.02
96	T,M	Hexachlorobutadiene	0.489	0.400	18.2	49#	-0.01
97	T,M	Naphthalene	1.149	1.081	5.9	59	0.00
98	T,M	1,2,3-Trichlorobenzene	0.618	0.508	17.8	51	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : TITAN 1-A
Lab Code : EMAX SDG No : 24J145
Lab File ID: RIW492A BFB Injection Date: 10/28/24
Instrument ID: 06 BFB Injection Time: 09:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	18.022
75	30 - 60% of mass 95	44.634
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	5.151
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	72.132
175	5 - 9% of mass 174	5.145(7.13)1
176	95 - 101% % of mass 174	71.044(98.49)1
177	5 - 9% % of mass 176	3.715(5.23)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, Lab QCs and Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD10	CVO06J197	RIW494A	10/28/24	11:11
2	LCS3W	VO06J24L	RIW493A	10/28/24	12:04
3	LCD3W	VO06J24C	RIW495A	10/28/24	11:38
4	MBLK3W	VO06J24B	RIW497A	10/28/24	14:41
5	T1AMF-TB001_OCT24	24J145-01	RIW504A	10/28/24	17:45
6	VSTD10	EVO06J197	RIW515A	10/28/24	22:33

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: EMAX Laboratories, Inc.
Lab Code: EMAX
Lab File ID: RIW364
Instrument ID: 06

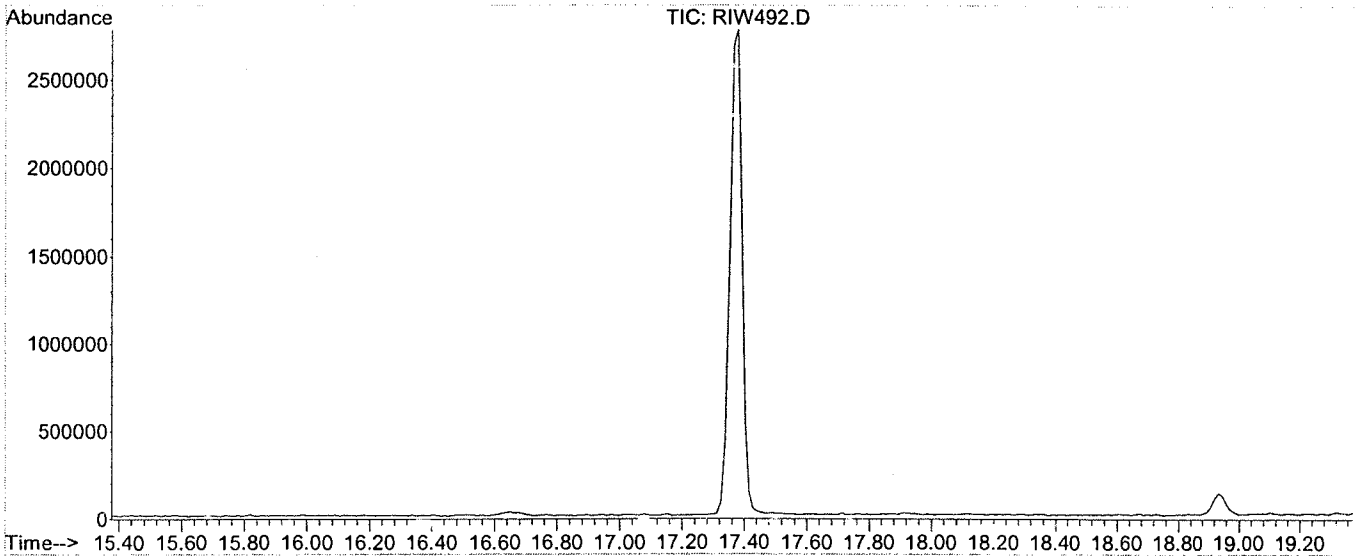
Project: TITAN 1-A
SDG No: 24J145
Date Analyzed: 10/19/24
Time Analyzed: 18:11

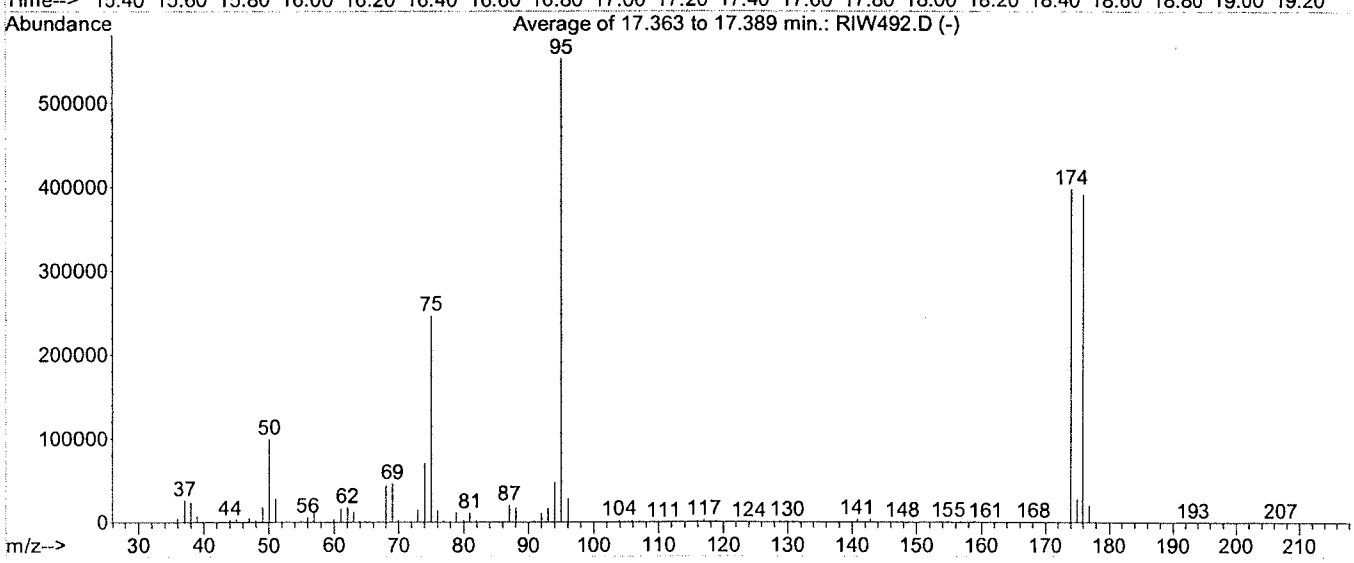
	INTERNAL STANDARD (IS)	1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5		1,2-DICHLOROBENZENE-D4	
		Area #	RT #	Area #	RT #	Area #	RT #
	12 HOUR STD	3831558	9.84	2808641	15.34	1084745	19.28
	UPPER LIMIT	7663116	10.0	5617282	15.51	2169490	19.45
	LOWER LIMIT	1915779	9.67	1404321	15.17	542373	19.11
		Area #	RT #	Area #	RT #	Area #	RT #
1	VSTD10	3601100	9.86	2346830	15.34	816642	19.28
2	LCS3W	4321578	9.86	3185830	15.34	1012535	19.28
3	LCD3W	4058808	9.86	3043067	15.34	1024605	19.28
4	MBLK3W	4152965	9.86	3139713	15.35	1048061	19.30
5	T1AMF-TB001_OCT24	3461060	9.86	2576267	15.35	885563	19.30
6	VSTD10	3574883	9.86	2735247	15.35	949384	19.30

Area Upper Limit = +100% of ICAL Midpoint IS Area
Area Lower Limit = -50% of ICAL Midpoint IS Area
Retention Time(RT) Upper Limit = +10 seconds of ICAL Midpoint IS RT
Retention Time(RT) Lower Limit = -10 seconds of ICAL Midpoint IS RT

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW492.D~~ RIW492A.D Vial: 1
Acq On : 28 Oct 2024 9:41 am Operator: PMai
Sample : BFB06J24 Inst : 06
Misc : T/CHK Multiplr: 1.00
MS Integration Params: RTE.P
Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260

pm 11/20/24





AutoFind: Scans 833, 834, 835; Background Corrected with Scan 823

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.0	99635	PASS
75	95	30	60	44.6	246763	PASS
95	95	100	100	100.0	552853	PASS
96	95	5	9	5.2	28477	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	72.1	398734	PASS
175	174	5	9	7.1	28445	PASS
176	174	95	101	98.5	392768	PASS
177	176	5	9	5.2	20540	PASS

~~RIW492.D~~ VO06J19.M Mon Nov 18 10:26:08 2024

RIW492A.D 11/20/2024

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW494.D~~ RIW494A.D
Acq On : 28 Oct 2024 11:11 am
Sample : CVO06J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 3
Operator: PMai
Inst : 06
Multiplr: 1.00

mm 11/20/2024

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	94	0.02
2	T,M	Dichlorodifluoromethane	10.000	9.725	2.8	77	0.00
3	P,T,M	Chloromethane	10.000	9.912	0.9	75	0.00
4	C,T,M	Vinyl chloride	10.000	9.797	2.0	71	0.00
5	T,M	Bromomethane	10.000	8.431	15.7	66	0.00
6	T,M	Chloroethane	10.000	9.152	8.5	70	0.00
7	T,M	Dichlorofluoromethane	10.000	11.382	-13.8	90	0.02
8	T,M	Trichlorofluoromethane	10.000	9.560	4.4	74	0.00
9	T,M	Acrolein	50.000	37.431	25.1#	63	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	9.291	7.1	72	0.00
11	T,M	Acetone	50.000	47.339	5.3	83	0.00
12	C,T,M	1,1-Dichloroethene	10.000	12.115	-21.2#	96	0.00
13	T,M	tert-Butyl alcohol	250.000	254.481	-1.8	86	0.00
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	7.856	21.4#	74	0.00
16	T,M	Iodomethane	10.000	9.381	6.2	74	0.02
17	T,M	Allyl chloride	10.000	10.366	-3.7	83	0.00
18	T,M	Methylene chloride	10.000	13.705	-37.0#	110	0.02
19	T,M	Carbon disulfide	10.000	8.953	10.5	67	0.00
20	T,M	Acrylonitrile	50.000	45.755	8.5	74	0.02
21	T,M	tert-Butyl methyl ether (MT	10.000	10.672	-6.7	84	0.02
22	T,M	trans-1,2-Dichloroethene	10.000	10.414	-4.1	85	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	13.552	-35.5#	105	0.00
24	T,M	Vinyl acetate	10.000	9.592	4.1	74	0.00
25	P,T,M	1,1-Dichloroethane	10.000	11.693	-16.9	94	0.02
26	T,M	2-Butanol	250.000	270.840	-8.3	96	0.00
27	T,M	tert-Butyl ethyl ether (ETB	10.000	11.903	-19.0	97	0.02
28	T,M	2-Butanone	50.000	51.064	-2.1	82	0.00
29	T,M	2,2-Dichloropropane	10.000	14.654	-46.5#	110	0.00
30	T,M	cis-1,2-Dichloroethene	10.000	10.466	-4.7	84	0.00
31	C,T,M	Chloroform	10.000	10.741	-7.4	89	0.02
32	T,M	Bromochloromethane	10.000	9.039	9.6	71	0.02
33	T,M	Tetrahydrofuran	10.000	9.334	6.7	91	0.02
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	0.00
35	S	Dibromofluoromethane	10.000	9.432	5.7	69	0.02
36	T,M	1,1,1-Trichloroethane	10.000	11.919	-19.2	96	0.02
37	T,M	Cyclohexane	10.000	11.238	-12.4	89	0.02
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	-0.11
39	T,M	1,1-Dichloropropene	10.000	9.235	7.7	76	0.00
40	T,M	Carbon tetrachloride	10.000	11.175	-11.8	88	0.02
41	T,M	tert-Amyl methyl ether (TAM	10.000	10.960	-9.6	87	0.00
42	S	1,2-Dichloroethane-d4	10.000	10.135	-1.3	73	0.00
43	T,M	1,2-Dichloroethane	10.000	11.977	-19.8	93	0.02
44	T,M	Benzene	10.000	10.666	-6.7	83	0.02
45	T,M	Trichloroethene	10.000	9.266	7.3	73	0.02
46	T,M	Methylcyclohexane	10.000	10.656	-6.6	91	0.00
47	C,T,M	1,2-Dichloropropane	10.000	10.693	-6.9	86	0.02
48	T,M	1,4-Dioxane	200.000	143.847	28.1#	65	0.02
49	T,M	Bromodichloromethane	10.000	9.889	1.1	80	0.02
50	T,M	Dibromomethane	10.000	9.143	8.6	74	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW494.D~~ RIW494A.D
Acq On : 28 Oct 2024 11:11 am
Sample : CV006J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

mm 11/20/2024

Vial: 3
Operator: PMai
Inst : 06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\V006J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	6.626	33.7#	55	0.02
52	T,M	4-Methyl-2-pentanone	50.000	63.344	-26.7#	96	0.02
53	T,M	cis-1,3-Dichloropropene	10.000	9.697	3.0	74	0.02
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	84	0.00
55	S	Toluene-d8	10.000	10.087	-0.9	65	0.02
56	C,T,M	Toluene	10.000	10.895	-8.9	76	0.02
57	T,M	Ethyl methacrylate	10.000	9.418	5.8	64	0.01
58	T,M	trans-1,3-Dichloropropene	10.000	10.239	-2.4	69	0.00
59	T,M	1,1,2-Trichloroethane	10.000	9.436	5.6	66	0.00
60	T,M	2-Hexanone	50.000	62.020	-24.0#	85	0.01
61	T,M	1,3-Dichloropropane	10.000	9.569	4.3	65	0.01
62	T,M	Tetrachloroethene	10.000	9.083	9.2	63	0.00
63	T,M	Dibromochloromethane	10.000	9.180	8.2	64	0.01
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	9.280	7.2	62	0.01
66	T,M	1-Chlorohexane	10.000	10.050	-0.5	74	0.01
67	P,T,M	Chlorobenzene	10.000	10.232	-2.3	69	0.00
68	T,M	1,1,1,2-Tetrachloroethane	10.000	11.216	-12.2	78	0.00
69	C,T,M	Ethylbenzene	10.000	10.535	-5.4	73	0.01
70	T,M	m-Xylene & p-Xylene	20.000	20.497	-2.5	72	0.00
71	T,M	o-Xylene	10.000	11.321	-13.2	80	0.01
72	T,M	Styrene	10.000	9.783	2.2	66	0.00
73	T,M	Isopropylbenzene	10.000	11.559	-15.6	81	0.00
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	75	0.00
75	P,T,M	Bromoform	10.000	7.922	20.8#	51	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	11.548	-15.5	71	0.01
77	S	4-Bromofluorobenzene	10.000	8.526	14.7	52	0.00
78	T,M	1,2,3-Trichloropropane	10.000	9.618	3.8	63	0.00
79	T,M	trans-1,4-Dichloro-2-butene	10.000	10.193	-1.9	65	0.01
80	T,M	n-Propylbenzene	10.000	11.812	-18.1	74	0.01
81	T,M	Bromobenzene	10.000	8.870	11.3	54	0.01
82	T,M	1,3,5-Trimethylbenzene	10.000	13.085	-30.9#	80	0.01
83	T,M	2-Chlorotoluene	10.000	12.365	-23.7#	80	0.00
84	T,M	4-Chlorotoluene	10.000	10.975	-9.7	64	0.00
85	T,M	tert-Butylbenzene	10.000	12.086	-20.9#	74	0.00
86	T,M	1,2,4-Trimethylbenzene	10.000	12.846	-28.5#	79	0.00
87	T,M	sec-Butylbenzene	10.000	13.317	-33.2#	83	0.01
88	T,M	p-Isopropyltoluene	10.000	12.450	-24.5#	76	0.00
89	T,M	1,3-Dichlorobenzene	10.000	9.672	3.3	58	0.01
90	T,M	1,2,3-Trimethylbenzene	10.000	13.175	-31.8#	81	0.01
91	T,M	1,4-Dichlorobenzene	10.000	9.230	7.7	55	0.00
92	T,M	n-Butylbenzene	10.000	12.577	-25.8#	79	0.00
93	T,M	1,2-Dichlorobenzene	10.000	10.596	-6.0	65	0.00
94	T,M	1,2-Dibromo-3-chloropropane	10.000	8.696	13.0	64	0.01
95	T,M	1,2,4-Trichlorobenzene	10.000	12.246	-22.5#	78	0.00
96	T,M	Hexachlorobutadiene	10.000	11.844	-18.4	72	0.00
97	T,M	Naphthalene	10.000	12.481	-24.8#	80	0.00
98	T,M	1,2,3-Trichlorobenzene	10.000	11.558	-15.6	74	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW494.D~~ RIW494A.D
Acq On : 28 Oct 2024 11:11 am
Sample : CVO06J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

mm 11/20/2024

Vial: 3
Operator: PMai
Inst : 06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	94	0.02
2	T,M	Dichlorodifluoromethane	0.356	0.346	2.8	77	0.00
3	P,T,M	Chloromethane	0.346	0.343	0.9	75	0.00
4	C,T,M	Vinyl chloride	0.277	0.272	1.8	71	0.00
5	T,M	Bromomethane	0.252	0.213	15.5	66	0.00
6	T,M	Chloroethane	0.191	0.175	8.4	70	0.00
7	T,M	Dichlorofluoromethane	0.468	0.532	-13.7	90	0.02
8	T,M	Trichlorofluoromethane	0.371	0.355	4.3	74	0.00
9	T,M	Acrolein	0.010	0.008	20.0	63	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.198	7.0	72	0.00
11	T,M	Acetone	0.031	0.029	6.5	83	0.00
12	C,T,M	1,1-Dichloroethene	0.453	0.548	-21.0#	96	0.00
13	T,M	tert-Butyl alcohol	0.009	0.009	0.0	86	0.00
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.017	19.0	74	0.00
16	T,M	Iodomethane	0.464	0.435	6.3	74	0.02
17	T,M	Allyl chloride	0.181	0.188	-3.9	83	0.00
18	T,M	Methylene chloride	0.332	0.455	-37.0#	110	0.02
19	T,M	Carbon disulfide	0.567	0.508	10.4	67	0.00
20	T,M	Acrylonitrile	0.041	0.038	7.3	74	0.02
21	T,M	tert-Butyl methyl ether (MT	0.482	0.515	-6.8	84	0.02
22	T,M	trans-1,2-Dichloroethene	0.339	0.353	-4.1	85	0.00
23	T,M	Isopropyl ether (DIPE)	0.895	1.213	-35.5#	105	0.00
24	T,M	Vinyl acetate	0.311	0.298	4.2	74	0.00
25	P,T,M	1,1-Dichloroethane	0.504	0.589	-16.9	94	0.02
26	T,M	2-Butanol	0.009	0.009	0.0	96	0.00
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.787	-18.9	97	0.02
28	T,M	2-Butanone	0.052	0.053	-1.9	82	0.00
29	T,M	2,2-Dichloropropane	0.302	0.443	-46.7#	110	0.00
30	T,M	cis-1,2-Dichloroethene	0.327	0.342	-4.6	84	0.00
31	C,T,M	Chloroform	0.503	0.541	-7.6	89	0.02
32	T,M	Bromochloromethane	0.139	0.126	9.4	71	0.02
33	T,M	Tetrahydrofuran	0.030	0.028	6.7	91	0.02
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	0.00
35	S	Dibromofluoromethane	0.245	0.231	5.7	69	0.02
36	T,M	1,1,1-Trichloroethane	0.402	0.479	-19.2	96	0.02
37	T,M	Cyclohexane	0.502	0.564	-12.4	89	0.02
38	T,M	2,2,4-Trimethylpentane	0.000	0.000	0.0	0#	-0.11
39	T,M	1,1-Dichloropropene	0.148	0.137	7.4	76	0.00
40	T,M	Carbon tetrachloride	0.327	0.366	-11.9	88	0.02
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.614	-9.6	87	0.00
42	S	1,2-Dichloroethane-d4	0.170	0.172	-1.2	73	0.00
43	T,M	1,2-Dichloroethane	0.204	0.244	-19.6	93	0.02
44	T,M	Benzene	1.159	1.236	-6.6	83	0.02
45	T,M	Trichloroethene	0.306	0.284	7.2	73	0.02
46	T,M	Methylcyclohexane	0.624	0.665	-6.6	91	0.00
47	C,T,M	1,2-Dichloropropane	0.252	0.270	-7.1	86	0.02
48	T,M	1,4-Dioxane	0.001	0.001	0.0	65	0.02
49	T,M	Bromodichloromethane	0.326	0.322	1.2	80	0.02
50	T,M	Dibromomethane	0.122	0.111	9.0	74	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW494.D~~ RIW494A.D Vial: 3
Acq On : 28 Oct 2024 11:11 am Operator: PMai
Sample : CVO06J197 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

mm 11/20/2024

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.083	0.055	33.7#	55	0.02
52	T,M	4-Methyl-2-pentanone	0.139	0.176	-26.6#	96	0.02
53	T,M	cis-1,3-Dichloropropene	0.391	0.379	3.1	74	0.02
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	84	0.00
55	S	Toluene-d8	1.382	1.394	-0.9	65	0.02
56	C,T,M	Toluene	1.660	1.808	-8.9	76	0.02
57	T,M	Ethyl methacrylate	0.269	0.254	5.6	64	0.01
58	T,M	trans-1,3-Dichloropropene	0.390	0.400	-2.6	69	0.00
59	T,M	1,1,2-Trichloroethane	0.209	0.197	5.7	66	0.00
60	T,M	2-Hexanone	0.118	0.147	-24.6#	85	0.01
61	T,M	1,3-Dichloropropane	0.372	0.356	4.3	65	0.01
62	T,M	Tetrachloroethene	0.352	0.320	9.1	63	0.00
63	T,M	Dibromochloromethane	0.258	0.237	8.1	64	0.01
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.177	7.3	62	0.01
66	T,M	1-Chlorohexane	0.676	0.680	-0.6	74	0.01
67	P,T,M	Chlorobenzene	0.907	0.928	-2.3	69	0.00
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.344	-12.4	78	0.00
69	C,T,M	Ethylbenzene	1.791	1.887	-5.4	73	0.01
70	T,M	m-Xylene & p-Xylene	1.341	1.374	-2.5	72	0.00
71	T,M	o-Xylene	1.351	1.530	-13.2	80	0.01
72	T,M	Styrene	0.966	0.945	2.2	66	0.00
73	T,M	Isopropylbenzene	1.752	2.025	-15.6	81	0.00
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	75	0.00
75	P,T,M	Bromoform	0.312	0.247	20.8#	51	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.628	-15.4	71	0.01
77	S	4-Bromofluorobenzene	1.116	0.952	14.7	52	0.00
78	T,M	1,2,3-Trichloropropane	0.139	0.134	3.6	63	0.00
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.131	-1.6	65	0.01
80	T,M	n-Propylbenzene	5.578	6.589	-18.1	74	0.01
81	T,M	Bromobenzene	0.891	0.790	11.3	54	0.01
82	T,M	1,3,5-Trimethylbenzene	3.477	4.549	-30.8#	80	0.01
83	T,M	2-Chlorotoluene	3.364	4.160	-23.7#	80	0.00
84	T,M	4-Chlorotoluene	2.888	3.170	-9.8	64	0.00
85	T,M	tert-Butylbenzene	0.774	0.935	-20.8#	74	0.00
86	T,M	1,2,4-Trimethylbenzene	3.400	4.368	-28.5#	79	0.00
87	T,M	sec-Butylbenzene	4.841	6.447	-33.2#	83	0.01
88	T,M	p-Isopropyltoluene	3.830	4.768	-24.5#	76	0.00
89	T,M	1,3-Dichlorobenzene	1.733	1.676	3.3	58	0.01
90	T,M	1,2,3-Trimethylbenzene	3.005	3.959	-31.7#	81	0.01
91	T,M	1,4-Dichlorobenzene	1.673	1.544	7.7	55	0.00
92	T,M	n-Butylbenzene	3.769	4.740	-25.8#	79	0.00
93	T,M	1,2-Dichlorobenzene	1.413	1.497	-5.9	65	0.00
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.074	12.9	64	0.01
95	T,M	1,2,4-Trichlorobenzene	0.820	1.004	-22.4#	78	0.00
96	T,M	Hexachlorobutadiene	0.489	0.574	-17.4	72	0.00
97	T,M	Naphthalene	1.149	1.434	-24.8#	80	0.00
98	T,M	1,2,3-Trichlorobenzene	0.618	0.714	-15.5	74	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW494.D~~ RIW494A.D
Acq On : 28 Oct 2024 11:11 am
Sample : CVO06J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P
Quant Time: Nov 18 10:26 2024

Vial: 3
Operator: PMai
Inst : 06
Multiplr: 1.00
Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.86	114	3601100	10.00	ug/l	0.02
54) CHLOROBENZENE-D5	15.34	117	2346830	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	816642	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.83	111	831917	9.43	ug/l	0.02
Spiked Amount 10.000			Recovery =	94.30%		
42) 1,2-Dichloroethane-d4	8.96	65	618924	10.14	ug/l	0.00
Spiked Amount 10.000			Recovery =	101.40%		
55) Toluene-d8	12.71	98	3271548	10.09	ug/l	0.02
Spiked Amount 10.000			Recovery =	100.90%		
77) 4-Bromofluorobenzene	17.38	95	777371	8.53	ug/l	0.00
Spiked Amount 10.000			Recovery =	85.30%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.57	85	1245287	9.73	ug/l	97
3) Chloromethane	1.80	50	1233898	9.91	ug/l	97
4) Vinyl chloride	1.90	62	977993	9.80	ug/l	97
5) Bromomethane	2.34	94	765612	8.43	ug/l	99
6) Chloroethane	2.41	64	629037	9.15	ug/l	90
7) Dichlorofluoromethane	2.47	67	1917278	11.38	ug/l	100
8) Trichlorofluoromethane	2.69	101	1278183	9.56	ug/l	98
9) Acrolein	3.21	56	139537	37.43	ug/l	89
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	712238	9.29	ug/l	99
11) Acetone	3.30	43	527586	47.34	ug/l	90
12) 1,1-Dichloroethene	3.45	61	1974951	12.12	ug/l	92
13) tert-Butyl alcohol	3.59	59	783919	254.48	ug/l	99
15) Methyl acetate	3.97	74	59496	7.86	ug/l	96
16) Iodomethane	3.89	142	1567581	9.38	ug/l	91
17) Allyl chloride	3.99	76	676467	10.37	ug/l	99
18) Methylene chloride	4.18	49	1638578	13.70	ug/l	85
19) Carbon disulfide	4.14	76	1827598	8.95	ug/l	97
20) Acrylonitrile	4.41	53	680294	45.75	ug/l	98
21) tert-Butyl methyl ether (M	4.45	73	1854359	10.67	ug/l	96
22) trans-1,2-Dichloroethene	4.66	96	1271288	10.41	ug/l	99
23) Isopropyl ether (DIPE)	5.33	45	4368234	13.55	ug/l	88
24) Vinyl acetate	5.56	43	1072859	9.59	ug/l	93
25) 1,1-Dichloroethane	5.50	63	2122734	11.69	ug/l	96
26) 2-Butanol	6.04	45	836603	270.84	ug/l	89
27) tert-Butyl ethyl ether (ET	6.23	59	2835569	11.90	ug/l	90
28) 2-Butanone	6.51	43	959585	51.06	ug/l	89
29) 2,2-Dichloropropane	6.76	77	1594068	14.65	ug/l	95
30) cis-1,2-Dichloroethene	6.88	96	1233107	10.47	ug/l	99
31) Chloroform	7.30	83	1947235	10.74	ug/l	96
32) Bromochloromethane	7.68	130	453675	9.04	ug/l	100
33) Tetrahydrofuran	7.78	42	100495	9.33	ug/l	83
36) 1,1,1-Trichloroethane	8.22	97	1724235	11.92	ug/l	95
37) Cyclohexane	8.20	84	2030880	11.24	ug/l	100
39) 1,1-Dichloropropene	8.58	110	492137	9.24	ug/l	99
40) Carbon tetrachloride	8.77	119	1317974	11.18	ug/l	98
41) tert-Amyl methyl ether (TA	8.94	73	2210488	10.96	ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW494.D~~ RIW494A.D
Acq On : 28 Oct 2024 11:11 am
Sample : CVO06J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P
Quant Time: Nov 18 10:26 2024

Vial: 3
Operator: PMai
Inst : 06
Multiplr: 1.00
Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	1,2-Dichloroethane	9.17	62	879286	11.98 ug/l	97
44)	Benzene	9.15	78	4451035	10.67 ug/l	97
45)	Trichloroethene	10.45	130	1021325	9.27 ug/l	92
46)	Methylcyclohexane	10.51	83	2396423	10.66 ug/l	89
47)	1,2-Dichloropropane	10.80	63	970960	10.69 ug/l	97
48)	1,4-Dioxane	11.35	88	47388	143.85 ug/l	80
49)	Bromodichloromethane	11.24	83	1161166	9.89 ug/l	99
50)	Dibromomethane	11.33	93	401378	9.14 ug/l	90
51)	2-Chloroethyl vinyl ether	11.95	63	196926	6.63 ug/l	100
52)	4-Methyl-2-pentanone	12.00	43	3174229	63.34 ug/l	91
53)	cis-1,3-Dichloropropene	12.31	75	1364485	9.70 ug/l	86
56)	Toluene	12.86	91	4244051	10.90 ug/l	99
57)	Ethyl methacrylate	13.30	69	594989	9.42 ug/l	81
58)	trans-1,3-Dichloropropene	13.23	75	937764	10.24 ug/l	76
59)	1,1,2-Trichloroethane	13.48	97	462188	9.44 ug/l	98
60)	2-Hexanone	13.57	43	1721043	62.02 ug/l	91
61)	1,3-Dichloropropane	13.95	76	835017	9.57 ug/l	100
62)	Tetrachloroethene	13.99	164	751102	9.08 ug/l	97
63)	Dibromochloromethane	14.34	129	556072	9.18 ug/l	99
65)	1,2-Dibromoethane	14.68	107	415061	9.28 ug/l	97
66)	1-Chlorohexane	15.04	91	1595079	10.05 ug/l	90
67)	Chlorobenzene	15.40	112	2178271	10.23 ug/l	98
68)	1,1,1,2-Tetrachloroethane	15.49	131	806263	11.22 ug/l	99
69)	Ethylbenzene	15.52	91	4427634	10.54 ug/l	97
70)	m-Xylene & p-Xylene	15.65	91	6449483	20.50 ug/l	97
71)	o-Xylene	16.38	91	3589674	11.32 ug/l	96
72)	Styrene	16.44	104	2217208	9.78 ug/l	98
73)	Isopropylbenzene	16.99	105	4751576	11.56 ug/l	98
75)	Bromoform	16.97	173	201961	7.92 ug/l	94
76)	1,1,2,2-Tetrachloroethane	17.28	83	512769	11.55 ug/l	94
78)	1,2,3-Trichloropropane	17.49	110	109340	9.62 ug/l	88
79)	trans-1,4-Dichloro-2-buten	17.61	53	107321	10.19 ug/l	84
80)	n-Propylbenzene	17.61	91	5380934	11.81 ug/l	96
81)	Bromobenzene	17.65	156	645124	8.87 ug/l	98
82)	1,3,5-Trimethylbenzene	17.83	105	3715300	13.08 ug/l	96
83)	2-Chlorotoluene	17.83	91	3397088	12.37 ug/l	90
84)	4-Chlorotoluene	17.89	91	2588794	10.97 ug/l	99
85)	tert-Butylbenzene	18.28	134	763522	12.09 ug/l	92
86)	1,2,4-Trimethylbenzene	18.32	105	3566963	12.85 ug/l	96
87)	sec-Butylbenzene	18.54	105	5265047	13.32 ug/l	95
88)	p-Isopropyltoluene	18.70	119	3893737	12.45 ug/l	96
89)	1,3-Dichlorobenzene	18.80	146	1368880	9.67 ug/l	96
90)	1,2,3-Trimethylbenzene	18.88	105	3233114	13.18 ug/l	96
91)	1,4-Dichlorobenzene	18.92	146	1260671	9.23 ug/l	96
92)	n-Butylbenzene	19.14	91	3870620	12.58 ug/l	97
93)	1,2-Dichlorobenzene	19.31	146	1222556	10.60 ug/l	99
94)	1,2-Dibromo-3-chloropropan	20.09	157	60329	8.70 ug/l	91
95)	1,2,4-Trichlorobenzene	20.90	180	819629	12.25 ug/l	98
96)	Hexachlorobutadiene	21.03	225	468962	11.84 ug/l	96
97)	Naphthalene	21.18	128	1170961	12.48 ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW494.D~~ RIW494A.D
Acq On : 28 Oct 2024 11:11 am
Sample : CVO06J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P
Quant Time: Nov 18 10:26 2024

mm 11/20/2024

Vial: 3
Operator: PMai
Inst : 06
Multiplr: 1.00

Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	583114	11.56 ug/l	98

(#) = qualifier out of range (m) = manual integration
~~RIW494.D~~ VO06J19.M Mon Nov 18 10:27:30 2024

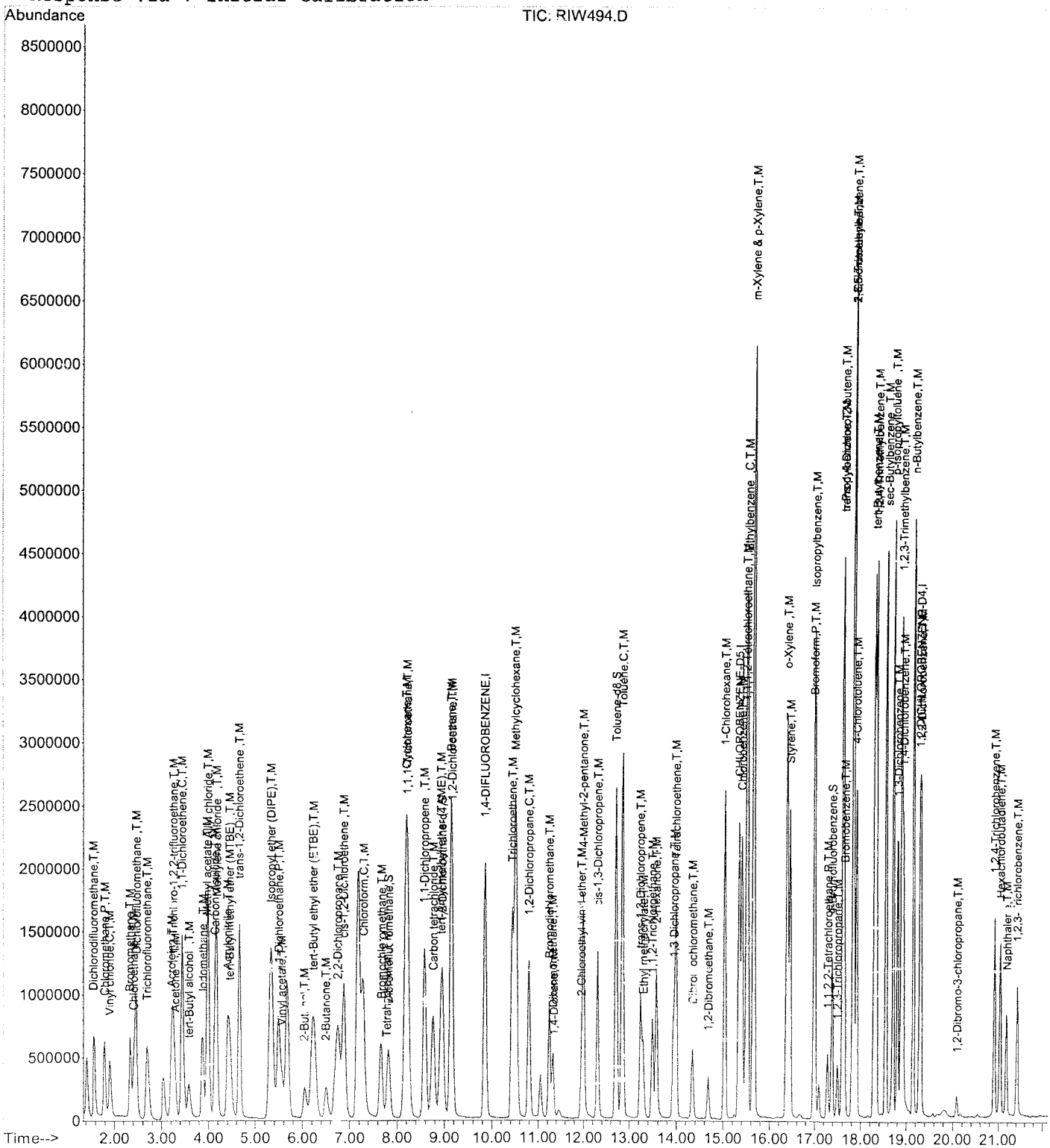
REPORT ID: 24J145 mm 11/20/2024

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW494.D~~ RIW494A.D Vial: 3
Acq On : 28 Oct 2024 11:11 am Operator: PMai
Sample : CVO06J197 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 18 10:26 2024 Quant Results File: VO06J19.RES

PM 11/20/2024

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



~~RIW494.D~~ VO06J19.M Mon Nov 18 10:27:33 2024 Page 4

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW515.D~~ RIW515A.D
Acq On : 28 Oct 2024 10:33 pm
Sample : EV006J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 24
Operator: PMai
Inst : 06
Multiplr: 1.00

MM 11/20/2024

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	93	0.02
2	T,M	Dichlorodifluoromethane	10.000	9.684	3.2	76	0.02
3	P,T,M	Chloromethane	10.000	11.343	-13.4	86	0.00
4	C,T,M	Vinyl chloride	10.000	10.911	-9.1	78	0.00
5	T,M	Bromomethane	10.000	9.379	6.2	73	0.00
6	T,M	Chloroethane	10.000	10.390	-3.9	79	0.02
7	T,M	Dichlorofluoromethane	10.000	10.713	-7.1	84	0.02
8	T,M	Trichlorofluoromethane	10.000	9.766	2.3	75	0.02
9	T,M	Acrolein	50.000	106.656	-113.3#	177	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	8.177	18.2	63	0.00
11	T,M	Acetone	50.000	59.897	-19.8	104	0.00
12	C,T,M	1,1-Dichloroethene	10.000	10.506	-5.1	82	0.00
13	T,M	tert-Butyl alcohol	250.000	248.697	0.5	84	0.00
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	9.934	0.7	93	0.00
16	T,M	Iodomethane	10.000	8.795	12.1	68	0.02
17	T,M	Allyl chloride	10.000	9.958	0.4	79	0.00
18	T,M	Methylene chloride	10.000	12.884	-28.8#	103	0.02
19	T,M	Carbon disulfide	10.000	9.478	5.2	70	0.00
20	T,M	Acrylonitrile	50.000	65.591	-31.2#	105	0.02
21	T,M	tert-Butyl methyl ether (MT	10.000	10.859	-8.6	84	0.02
22	T,M	trans-1,2-Dichloroethene	10.000	9.546	4.5	77	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	13.999	-40.0#	108	0.00
24	T,M	Vinyl acetate	10.000	12.071	-20.7#	92	0.00
25	P,T,M	1,1-Dichloroethane	10.000	11.735	-17.3	93	0.02
26	T,M	2-Butanol	250.000	323.683	-29.5#	114	0.00
27	T,M	tert-Butyl ethyl ether (ETB	10.000	12.298	-23.0#	99	0.02
28	T,M	2-Butanone	50.000	69.724	-39.4#	111	0.00
29	T,M	2,2-Dichloropropane	10.000	9.978	0.2	75	0.02
30	T,M	cis-1,2-Dichloroethene	10.000	10.509	-5.1	84	0.02
31	C,T,M	Chloroform	10.000	10.576	-5.8	87	0.02
32	T,M	Bromochloromethane	10.000	9.136	8.6	72	0.02
33	T,M	Tetrahydrofuran	10.000	9.517	4.8	92	0.04
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	0.02
35	S	Dibromofluoromethane	10.000	9.213	7.9	67	0.02
36	T,M	1,1,1-Trichloroethane	10.000	10.770	-7.7	86	0.02
37	T,M	Cyclohexane	10.000	11.351	-13.5	90	0.02
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	-0.04
39	T,M	1,1-Dichloropropene	10.000	8.660	13.4	71	0.02
40	T,M	Carbon tetrachloride	10.000	10.134	-1.3	79	0.02
41	T,M	tert-Amyl methyl ether (TAM	10.000	11.331	-13.3	89	0.00
42	S	1,2-Dichloroethane-d4	10.000	11.048	-10.5	79	0.02
43	T,M	1,2-Dichloroethane	10.000	12.853	-28.5#	99	0.02
44	T,M	Benzene	10.000	11.230	-12.3	86	0.02
45	T,M	Trichloroethene	10.000	9.813	1.9	77	0.02
46	T,M	Methylcyclohexane	10.000	11.516	-15.2	97	0.02
47	C,T,M	1,2-Dichloropropane	10.000	12.169	-21.7#	97	0.02
48	T,M	1,4-Dioxane	200.000	168.456	15.8	75	0.02
49	T,M	Bromodichloromethane	10.000	11.129	-11.3	89	0.02
50	T,M	Dibromomethane	10.000	10.454	-4.5	84	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW515.D~~ RIW515A.D
Acq On : 28 Oct 2024 10:33 pm
Sample : EVO06J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 24
Operator: PMai
Inst : 06
Multiplr: 1.00

MM 11/20/2024

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	10.048	-0.5	84	0.02
52	T,M	4-Methyl-2-pentanone	50.000	77.528	-55.1#	117	0.02
53	T,M	cis-1,3-Dichloropropene	10.000	11.398	-14.0	86	0.02
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	97	0.01
55	S	Toluene-d8	10.000	9.239	7.6	69	0.02
56	C,T,M	Toluene	10.000	10.504	-5.0	86	0.02
57	T,M	Ethyl methacrylate	10.000	10.835	-8.4	86	0.02
58	T,M	trans-1,3-Dichloropropene	10.000	11.441	-14.4	90	0.00
59	T,M	1,1,2-Trichloroethane	10.000	10.409	-4.1	84	0.00
60	T,M	2-Hexanone	50.000	72.112	-44.2#	116	0.02
61	T,M	1,3-Dichloropropane	10.000	10.815	-8.1	86	0.02
62	T,M	Tetrachloroethene	10.000	8.453	15.5	69	0.00
63	T,M	Dibromochloromethane	10.000	9.327	6.7	76	0.02
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	10.332	-3.3	81	0.02
66	T,M	1-Chlorohexane	10.000	11.242	-12.4	96	0.01
67	P,T,M	Chlorobenzene	10.000	10.829	-8.3	85	0.01
68	T,M	1,1,1,2-Tetrachloroethane	10.000	9.955	0.4	80	0.01
69	C,T,M	Ethylbenzene	10.000	10.551	-5.5	85	0.01
70	T,M	m-Xylene & p-Xylene	20.000	20.856	-4.3	86	0.00
71	T,M	o-Xylene	10.000	10.504	-5.0	87	0.01
72	T,M	Styrene	10.000	10.796	-8.0	85	0.00
73	T,M	Isopropylbenzene	10.000	10.286	-2.9	84	0.01
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	88	0.01
75	P,T,M	Bromoform	10.000	9.732	2.7	73	0.01
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	11.766	-17.7	84	0.01
77	S	4-Bromofluorobenzene	10.000	9.778	2.2	69	0.01
78	T,M	1,2,3-Trichloropropane	10.000	9.920	0.8	76	0.01
79	T,M	trans-1,4-Dichloro-2-butene	10.000	11.911	-19.1	89	0.01
80	T,M	n-Propylbenzene	10.000	11.468	-14.7	83	0.01
81	T,M	Bromobenzene	10.000	9.742	2.6	69	0.01
82	T,M	1,3,5-Trimethylbenzene	10.000	11.451	-14.5	82	0.01
83	T,M	2-Chlorotoluene	10.000	11.607	-16.1	88	0.01
84	T,M	4-Chlorotoluene	10.000	12.301	-23.0#	84	0.01
85	T,M	tert-Butylbenzene	10.000	10.151	-1.5	72	0.00
86	T,M	1,2,4-Trimethylbenzene	10.000	11.527	-15.3	83	0.01
87	T,M	sec-Butylbenzene	10.000	11.322	-13.2	82	0.01
88	T,M	p-Isopropyltoluene	10.000	10.734	-7.3	77	0.00
89	T,M	1,3-Dichlorobenzene	10.000	10.264	-2.6	72	0.01
90	T,M	1,2,3-Trimethylbenzene	10.000	11.740	-17.4	84	0.01
91	T,M	1,4-Dichlorobenzene	10.000	10.399	-4.0	72	0.00
92	T,M	n-Butylbenzene	10.000	10.909	-9.1	80	0.01
93	T,M	1,2-Dichlorobenzene	10.000	10.345	-3.5	73	0.01
94	T,M	1,2-Dibromo-3-chloropropane	10.000	7.130	28.7#	61	0.00
95	T,M	1,2,4-Trichlorobenzene	10.000	8.921	10.8	66	0.00
96	T,M	Hexachlorobutadiene	10.000	8.983	10.2	64	0.00
97	T,M	Naphthalene	10.000	9.456	5.4	71	0.00
98	T,M	1,2,3-Trichlorobenzene	10.000	7.962	20.4#	59	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW515.D~~ RIWS1SA.D
Acq On : 28 Oct 2024 10:33 pm
Sample : EV006J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 24
Operator: PMai
Inst : 06
Multiplr: 1.00

11/20/2024

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	93	0.02
2	T,M	Dichlorodifluoromethane	0.356	0.344	3.4	76	0.02
3	P,T,M	Chloromethane	0.346	0.392	-13.3	86	0.00
4	C,T,M	Vinyl chloride	0.277	0.302	-9.0	78	0.00
5	T,M	Bromomethane	0.252	0.237	6.0	73	0.00
6	T,M	Chloroethane	0.191	0.198	-3.7	79	0.02
7	T,M	Dichlorofluoromethane	0.468	0.501	-7.1	84	0.02
8	T,M	Trichlorofluoromethane	0.371	0.363	2.2	75	0.02
9	T,M	Acrolein	0.010	0.022	-120.0#	177	0.02
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.174	18.3	63	0.00
11	T,M	Acetone	0.031	0.037	-19.4	104	0.00
12	C,T,M	1,1-Dichloroethene	0.453	0.476	-5.1	82	0.00
13	T,M	tert-Butyl alcohol	0.009	0.009	0.0	84	0.00
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.021	0.0	93	0.00
16	T,M	Iodomethane	0.464	0.408	12.1	68	0.02
17	T,M	Allyl chloride	0.181	0.180	0.6	79	0.00
18	T,M	Methylene chloride	0.332	0.428	-28.9#	103	0.02
19	T,M	Carbon disulfide	0.567	0.537	5.3	70	0.00
20	T,M	Acrylonitrile	0.041	0.054	-31.7#	105	0.02
21	T,M	tert-Butyl methyl ether (MT	0.482	0.524	-8.7	84	0.02
22	T,M	trans-1,2-Dichloroethene	0.339	0.324	4.4	77	0.00
23	T,M	Isopropyl ether (DIPE)	0.895	1.253	-40.0#	108	0.00
24	T,M	Vinyl acetate	0.311	0.375	-20.6#	92	0.00
25	P,T,M	1,1-Dichloroethane	0.504	0.592	-17.5	93	0.02
26	T,M	2-Butanol	0.009	0.011	-22.2#	114	0.00
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.814	-23.0#	99	0.02
28	T,M	2-Butanone	0.052	0.073	-40.4#	111	0.00
29	T,M	2,2-Dichloropropane	0.302	0.301	0.3	75	0.02
30	T,M	cis-1,2-Dichloroethene	0.327	0.344	-5.2	84	0.02
31	C,T,M	Chloroform	0.503	0.532	-5.8	87	0.02
32	T,M	Bromochloromethane	0.139	0.127	8.6	72	0.02
33	T,M	Tetrahydrofuran	0.030	0.028	6.7	92	0.04
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	0.02
35	S	Dibromofluoromethane	0.245	0.226	7.8	67	0.02
36	T,M	1,1,1-Trichloroethane	0.402	0.433	-7.7	86	0.02
37	T,M	Cyclohexane	0.502	0.570	-13.5	90	0.02
38	T,M	2,2,4-Trimethylpentane	0.000	0.001	0.0	0#	-0.04
39	T,M	1,1-Dichloropropene	0.148	0.128	13.5	71	0.02
40	T,M	Carbon tetrachloride	0.327	0.332	-1.5	79	0.02
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.635	-13.4	89	0.00
42	S	1,2-Dichloroethane-d4	0.170	0.187	-10.0	79	0.02
43	T,M	1,2-Dichloroethane	0.204	0.262	-28.4#	99	0.02
44	T,M	Benzene	1.159	1.301	-12.3	86	0.02
45	T,M	Trichloroethene	0.306	0.300	2.0	77	0.02
46	T,M	Methylcyclohexane	0.624	0.719	-15.2	97	0.02
47	C,T,M	1,2-Dichloropropane	0.252	0.307	-21.8#	97	0.02
48	T,M	1,4-Dioxane	0.001	0.001	0.0	75	0.02
49	T,M	Bromodichloromethane	0.326	0.363	-11.3	89	0.02
50	T,M	Dibromomethane	0.122	0.127	-4.1	84	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW515.D~~ RIW515A.D
Acq On : 28 Oct 2024 10:33 pm
Sample : EVO06J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

mm 11/20/2024

Vial: 24
Operator: PMai
Inst : 06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.083	0.083	0.0	84	0.02
52	T,M	4-Methyl-2-pentanone	0.139	0.216	-55.4#	117	0.02
53	T,M	cis-1,3-Dichloropropene	0.391	0.445	-13.8	86	0.02
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	97	0.01
55	S	Toluene-d8	1.382	1.277	7.6	69	0.02
56	C,T,M	Toluene	1.660	1.744	-5.1	86	0.02
57	T,M	Ethyl methacrylate	0.269	0.292	-8.6	86	0.02
58	T,M	trans-1,3-Dichloropropene	0.390	0.446	-14.4	90	0.00
59	T,M	1,1,2-Trichloroethane	0.209	0.217	-3.8	84	0.00
60	T,M	2-Hexanone	0.118	0.171	-44.9#	116	0.02
61	T,M	1,3-Dichloropropane	0.372	0.402	-8.1	86	0.02
62	T,M	Tetrachloroethene	0.352	0.298	15.3	68	0.00
63	T,M	Dibromochloromethane	0.258	0.241	6.6	76	0.02
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.197	-3.1	81	0.02
66	T,M	1-Chlorohexane	0.676	0.760	-12.4	96	0.01
67	P,T,M	Chlorobenzene	0.907	0.982	-8.3	85	0.01
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.305	0.3	80	0.01
69	C,T,M	Ethylbenzene	1.791	1.889	-5.5	85	0.01
70	T,M	m-Xylene & p-Xylene	1.341	1.398	-4.3	86	0.00
71	T,M	o-Xylene	1.351	1.419	-5.0	87	0.01
72	T,M	Styrene	0.966	1.043	-8.0	85	0.00
73	T,M	Isopropylbenzene	1.752	1.802	-2.9	84	0.01
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	88	0.01
75	P,T,M	Bromoform	0.312	0.304	2.6	73	0.01
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.640	-17.6	84	0.01
77	S	4-Bromofluorobenzene	1.116	1.092	2.2	69	0.01
78	T,M	1,2,3-Trichloropropane	0.139	0.138	0.7	76	0.01
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.154	-19.4	89	0.01
80	T,M	n-Propylbenzene	5.578	6.397	-14.7	83	0.01
81	T,M	Bromobenzene	0.891	0.868	2.6	69	0.01
82	T,M	1,3,5-Trimethylbenzene	3.477	3.981	-14.5	82	0.01
83	T,M	2-Chlorotoluene	3.364	3.905	-16.1	88	0.01
84	T,M	4-Chlorotoluene	2.888	3.553	-23.0#	84	0.01
85	T,M	tert-Butylbenzene	0.774	0.785	-1.4	72	0.00
86	T,M	1,2,4-Trimethylbenzene	3.400	3.919	-15.3	83	0.01
87	T,M	sec-Butylbenzene	4.341	5.481	-13.2	82	0.01
88	T,M	p-Isopropyltoluene	3.830	4.111	-7.3	77	0.00
89	T,M	1,3-Dichlorobenzene	1.733	1.779	-2.7	72	0.01
90	T,M	1,2,3-Trimethylbenzene	3.005	3.528	-17.4	84	0.01
91	T,M	1,4-Dichlorobenzene	1.673	1.739	-3.9	72	0.00
92	T,M	n-Butylbenzene	3.769	4.111	-9.1	80	0.01
93	T,M	1,2-Dichlorobenzene	1.413	1.462	-3.5	73	0.01
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.061	28.2#	61	0.00
95	T,M	1,2,4-Trichlorobenzene	0.820	0.731	10.9	66	0.00
96	T,M	Hexachlorobutadiene	0.489	0.441	9.8	64	0.00
97	T,M	Naphthalene	1.149	1.086	5.5	71	0.00
98	T,M	1,2,3-Trichlorobenzene	0.618	0.492	20.4#	59	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW515.D~~ RIW515A.D
Acq On : 28 Oct 2024 10:33 pm
Sample : EV006J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P
Quant Time: Nov 18 10:27 2024

MM 11/20/2024

Vial: 24
Operator: PMai
Inst : 06
Multiplr: 1.00
Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.86	114	3574883	10.00	ug/l	0.02
54) CHLOROBENZENE-D5	15.35	117	2735247	10.00	ug/l	0.01
74) 1,2-DICHLOROBENZENE-D4	19.30	152	949384	10.00	ug/l	0.01
System Monitoring Compounds						
35) Dibromofluoromethane	7.83	111	806732	9.21	ug/l	0.02
Spiked Amount 10.000			Recovery =	92.10%		
42) 1,2-Dichloroethane-d4	8.98	65	669757	11.05	ug/l	0.02
Spiked Amount 10.000			Recovery =	110.50%		
55) Toluene-d8	12.71	98	3492688	9.24	ug/l	0.02
Spiked Amount 10.000			Recovery =	92.40%		
77) 4-Bromofluorobenzene	17.39	95	1036482	9.78	ug/l	0.01
Spiked Amount 10.000			Recovery =	97.80%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.59	85	1231040	9.68	ug/l	98
3) Chloromethane	1.80	50	1401826	11.34	ug/l	98
4) Vinyl chloride	1.90	62	1081254	10.91	ug/l	98
5) Bromomethane	2.34	94	845524	9.38	ug/l	98
6) Chloroethane	2.43	64	708963	10.39	ug/l	98
7) Dichlorofluoromethane	2.47	67	1791389	10.71	ug/l	99
8) Trichlorofluoromethane	2.71	101	1296276	9.77	ug/l	99
9) Acrolein	3.22	56	394705	106.66	ug/l	95
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	622260	8.18	ug/l	98
11) Acetone	3.30	43	662688	59.90	ug/l	91
12) 1,1-Dichloroethene	3.45	61	1700112	10.51	ug/l	91
13) tert-Butyl alcohol	3.59	59	760523	248.70	ug/l	100
15) Methyl acetate	3.97	74	74688	9.93	ug/l	93
16) Iodomethane	3.89	142	1458919	8.80	ug/l	94
17) Allyl chloride	3.99	76	645138	9.96	ug/l	99
18) Methylene chloride	4.18	49	1529270	12.88	ug/l	84
19) Carbon disulfide	4.14	76	1920834	9.48	ug/l	96
20) Acrylonitrile	4.41	53	968123	65.59	ug/l	99
21) tert-Butyl methyl ether (M	4.45	73	1873054	10.86	ug/l	97
22) trans-1,2-Dichloroethene	4.66	96	1156922	9.55	ug/l	99
23) Isopropyl ether (DIPE)	5.33	45	4479553	14.00	ug/l	89
24) Vinyl acetate	5.56	43	1340225	12.07	ug/l	93
25) 1,1-Dichloroethane	5.50	63	2114677	11.73	ug/l	97
26) 2-Butanol	6.05	45	992549	323.68	ug/l	93
27) tert-Butyl ethyl ether (ET	6.23	59	2908282	12.30	ug/l	89
28) 2-Butanone	6.51	43	1300700	69.72	ug/l	88
29) 2,2-Dichloropropane	6.78	77	1077548	9.98	ug/l	97
30) cis-1,2-Dichloroethene	6.90	96	1229149	10.51	ug/l	98
31) Chloroform	7.30	83	1903207	10.58	ug/l	96
32) Bromochloromethane	7.68	130	455166	9.14	ug/l	100
33) Tetrahydrofuran	7.81	42	101712	9.52	ug/l	90
36) 1,1,1-Trichloroethane	8.23	97	1546654	10.77	ug/l	96
37) Cyclohexane	8.20	84	2036383	11.35	ug/l	99
39) 1,1-Dichloropropene	8.60	110	458156	8.66	ug/l	95
40) Carbon tetrachloride	8.77	119	1186515	10.13	ug/l	100
41) tert-Amyl methyl ether (TA	8.94	73	2268740	11.33	ug/l	96

(#) = qualifier out of range (m) = manual integration
~~RIW515.D~~ VO06J19.M Mon Nov 18 10:28:32 2024

~~REPORT ID~~: 24J145 MM 11/20/2024

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW515.D~~ RIW515A.D Vial: 24
Acq On : 28 Oct 2024 10:33 pm Operator: PMai
Sample : EVO06J197 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 18 10:27 2024 Quant Results File: VO06J19.RES

PM 11/20/2024

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.17	62	936692	12.85	ug/l	99
44)	Benzene	9.15	78	4652290	11.23	ug/l	97
45)	Trichloroethene	10.45	130	1073839	9.81	ug/l	94
46)	Methylcyclohexane	10.53	83	2570837	11.52	ug/l	90
47)	1,2-Dichloropropane	10.80	63	1096973	12.17	ug/l	93
48)	1,4-Dioxane	11.35	88	55091	168.46	ug/l	92
49)	Bromodichloromethane	11.24	83	1297252	11.13	ug/l	99
50)	Dibromomethane	11.33	93	455588	10.45	ug/l	91
51)	2-Chloroethyl vinyl ether	11.96	63	296468	10.05	ug/l	98
52)	4-Methyl-2-pentanone	12.00	43	3856712	77.53	ug/l	91
53)	cis-1,3-Dichloropropene	12.31	75	1592207	11.40	ug/l	88
56)	Toluene	12.86	91	4769019	10.50	ug/l	99
57)	Ethyl methacrylate	13.30	69	797758	10.83	ug/l	81
58)	trans-1,3-Dichloropropene	13.23	75	1221275	11.44	ug/l	79
59)	1,1,2-Trichloroethane	13.49	97	594196	10.41	ug/l	96
60)	2-Hexanone	13.57	43	2332309	72.11	ug/l	92
61)	1,3-Dichloropropane	13.95	76	1099941	10.82	ug/l	96
62)	Tetrachloroethene	13.99	164	814679	8.45	ug/l	97
63)	Dibromochloromethane	14.35	129	658443	9.33	ug/l	98
65)	1,2-Dibromoethane	14.68	107	538612	10.33	ug/l	100
66)	1-Chlorohexane	15.04	91	2079726	11.24	ug/l	87
67)	Chlorobenzene	15.42	112	2686904	10.83	ug/l	99
68)	1,1,1,2-Tetrachloroethane	15.51	131	834072	9.95	ug/l	100
69)	Ethylbenzene	15.52	91	5168229	10.55	ug/l	99
70)	m-Xylene & p-Xylene	15.65	91	7648651	20.86	ug/l	96
71)	o-Xylene	16.38	91	3881616	10.50	ug/l	96
72)	Styrene	16.44	104	2851834	10.80	ug/l	99
73)	Isopropylbenzene	17.00	105	4927973	10.29	ug/l	98
75)	Bromoform	16.99	173	288440	9.73	ug/l	96
76)	1,1,2,2-Tetrachloroethane	17.28	83	607380	11.77	ug/l	97
78)	1,2,3-Trichloropropane	17.50	110	131104	9.92	ug/l	96
79)	trans-1,4-Dichloro-2-buten	17.61	53	145804	11.91	ug/l	83
80)	n-Propylbenzene	17.61	91	6073292	11.47	ug/l	96
81)	Bromobenzene	17.65	156	823694	9.74	ug/l	99
82)	1,3,5-Trimethylbenzene	17.83	105	3779707	11.45	ug/l	96
83)	2-Chlorotoluene	17.84	91	3707077	11.61	ug/l	93
84)	4-Chlorotoluene	17.91	91	3373251	12.30	ug/l	96
85)	tert-Butylbenzene	18.28	134	745502	10.15	ug/l	87
86)	1,2,4-Trimethylbenzene	18.34	105	3721056	11.53	ug/l	95
87)	sec-Butylbenzene	18.54	105	5203974	11.32	ug/l	95
88)	p-Isopropyltoluene	18.70	119	3902625	10.73	ug/l	97
89)	1,3-Dichlorobenzene	18.80	146	1688719	10.26	ug/l	96
90)	1,2,3-Trimethylbenzene	18.88	105	3349228	11.74	ug/l	96
91)	1,4-Dichlorobenzene	18.92	146	1651167	10.40	ug/l	96
92)	n-Butylbenzene	19.15	91	3903056	10.91	ug/l	95
93)	1,2-Dichlorobenzene	19.32	146	1387611	10.34	ug/l	99
94)	1,2-Dibromo-3-chloropropan	20.09	157	57506	7.13	ug/l	97
95)	1,2,4-Trichlorobenzene	20.92	180	694131	8.92	ug/l	99
96)	Hexachlorobutadiene	21.03	225	418765	8.98	ug/l	99
97)	Naphthalene	21.18	128	1031278	9.46	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW515.D~~ RIW515A.D Vial: 24
Acq On : 28 Oct 2024 10:33 pm Operator: PMai
Sample : EVO06J197 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 18 10:27 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	1,2,3-Trichlorobenzene	21.42	180	466990	7.96	ug/l	94

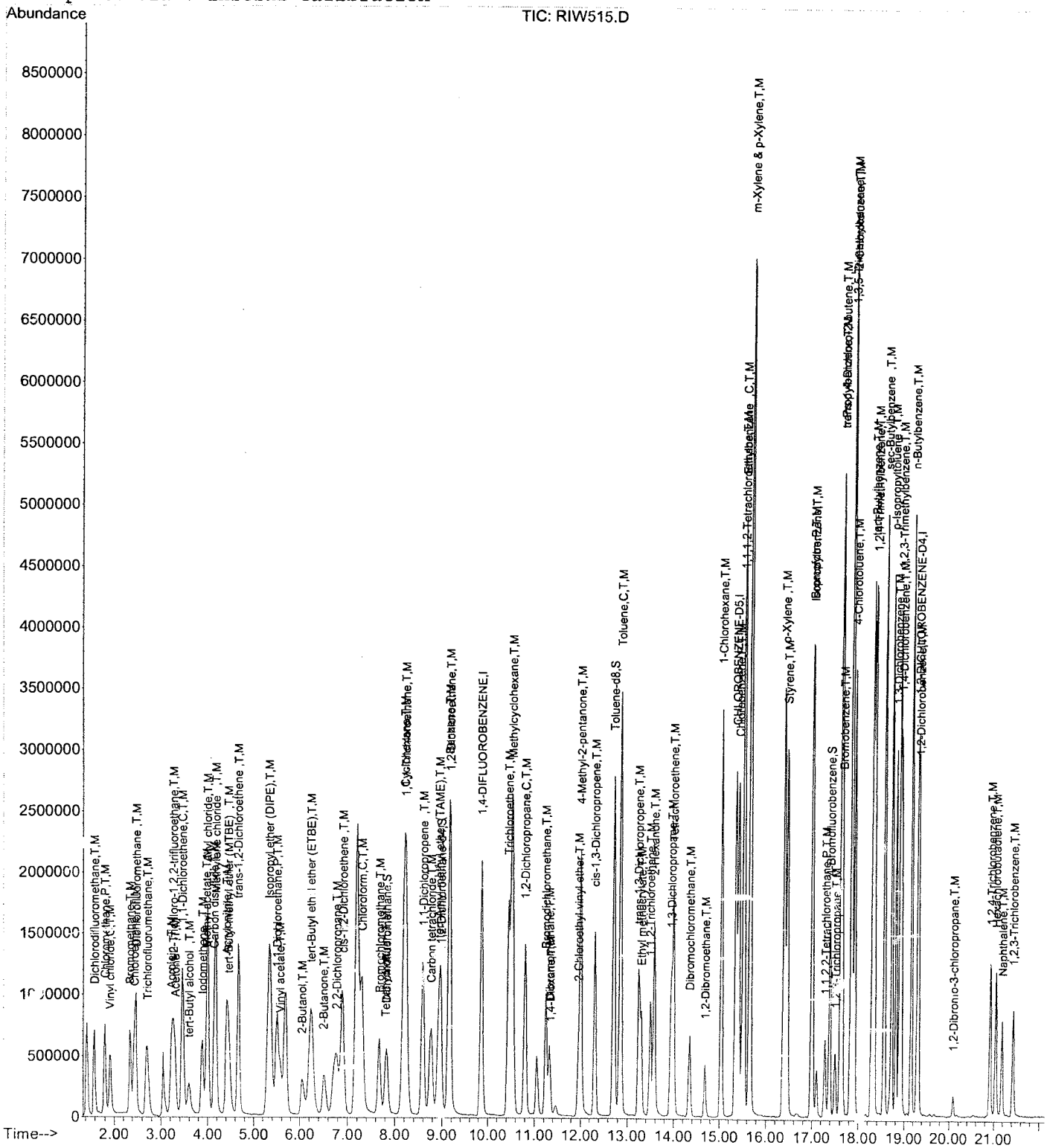
(#) = qualifier out of range (m) = manual integration
~~RIW515.D~~ VO06J19.M Mon Nov 18 10:28:33 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J28\~~RIW515.D~~ RIW515A.D
Acq On : 28 Oct 2024 10:33 pm
Sample : EVO06J197
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P
Quant Time: Nov 18 10:27 2024

Vial: 24
Operator: PMai
Inst : 06
Multiplr: 1.00
Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



~~RIW515.D~~ VO06J19.M Mon Nov 18 10:28:36 2024 Page 4

RIW515A.D 11/20/2024

ANALYTICAL LOGS

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

E
VARIED AMOUNT

Book #:	A06-083
Instrument No.:	06
Analytical Sequence:	24J1a
Method File:	V006J1a
Analytical Batch:	V006J1a6

INITIAL CALIBRATION REFERENCE			
DATE	10/1a/24		
ICAL ID	V006J1a		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC CS2	SV1-45-24-03	E	250
DCC SA's	-37-01		
DCC 4ADD	-42-03		
DCC 8260 Ref	-42-02 -40-03	↓	↓
BFB	-42-01	1	50
IS/SURR.	-35-03 -36-01	1 E	250 250
ICV/LCS	-35-01	1	250
ICV/LCS	-31-03	1	250
ICV/LCS	-43-01	5	50
ICV/LCS	-26-03 -21-03	5 5	50 250
Data File Folder	24J1a		
	LOT #	Syringe Lot #	
pH strip		MSV-03-04	
Chlorine strip		-03-035	
Methanol		-03-0723	
$NaHSO_4$		-03-0224	
Reagent Water	RW3-23-001		
Sand			

SOP #
☐ EMAX-8260 Rev. No. 10
☐ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1
PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☐ 25-mL Purge
SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☐ Water
☐ pH <2. Outliers indicated on analytical sequence.
☐ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐ pH <2 and Cl2 are not applicable.

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO06	

Analyzed By: DM
Date: 10/19/24
Disposed By: DM
Date Disposed: 10/20/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24J19

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
1	1	RIW358.D	1.	BFB06J17		T/CHK	19 Oct 2024 15:14
2	2	RIW359.D	1.	VO06J191	0.03/0.15uL	0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA	19 Oct 2024 15:59
3	3	RIW360.D	1.	VO06J192	0.05/0.25uL	0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA	19 Oct 2024 16:26
4	4	RIW361.D	1.	VO06J193	0.10/0.50uL	1.0ppb 8260/5.0ppb KET-AA/25ppb TBA	19 Oct 2024 16:53
5	5	RIW362.D	1.	VO06J194	0.20/1.00uL	2.0ppb 8260/10ppb KET-AA/50ppb TBA	19 Oct 2024 17:19
6	6	RIW363.D	1.	VO06J195	0.50/2.50uL	5.0ppb 8260/25ppb KET-AA/125ppb TBA	19 Oct 2024 17:45
7	7	RIW364.D	1.	VO06J196	1.00/5.00uL	10ppb 8260/50ppb KET-AA/250ppb TBA	19 Oct 2024 18:11
8	8	RIW365.D	1.	VO06J197	2.00/10.0uL	20ppb 8260/100ppb KET-AA/500ppb TBA	19 Oct 2024 18:38
9	9	RIW366.D	1.	VO06J198	3.00/15.0uL	30ppb 8260/150ppb KET-AA/750ppb TBA	19 Oct 2024 19:04
10	10	RIW367.D	1.	VO06J199	5.00/25.0uL	50ppb 8260/250ppb KET-AA/1250ppb TBA	19 Oct 2024 19:30
11	11	RIW368.D	1.	VO06J1910	10.0/50.0uL	100ppb 8260/500ppb KET-AA/2500ppb TBA	19 Oct 2024 19:57
12	12	RIW369.D	1.	RINSE			19 Oct 2024 20:23
13	13	RIW370.D	1.	RINSE			19 Oct 2024 20:49
14	14	RIW371.D	1.	IVO06J191		10ppb 8260/50ppb KET-AA/250ppb TBA	19 Oct 2024 21:15
15	15	RIW372.D	1.	RINSE			19 Oct 2024 21:41
16	16	RIW373.D	1.	LOD1 0.02/0.10		0.2ppb 8260/4.0ppb KET-AA/5.0ppb TBA	19 Oct 2024 22:07
17	17	RIW374.D	1.	LOD2 0.03/0.15		0.4ppb 8260/4.0ppb KET-AA/10ppb TBA	19 Oct 2024 22:34

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
VOLATILES

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #: A06-083
Instrument No.: 06
Analytical Sequence: 24J24
Method File: CV006J19
Analytical Batch: CV006J194

INITIAL CALIBRATION REFERENCE			
DATE	10/19/2024		
ICAL ID	V006 J19		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC	SV1 45 24 03	1	250
DCC	SV1 45 37 01	1	250
DCC	SV1 45 42 03	1	250
DCC	SV1 45 42 02 SV1 45 40 03	5 5	250 250
BFB	SV1 45 42 01	1	50
IS/SURR.	SV1 45 35 03 SV1 45 36 01	1 1	250 250
ICV/LCS	SV1 45 35 01	1	250
ICV/LCS	SV1 45 31 03	1	250
ICV/LCS	SV1 45 43 01	5	50
ICV/LCS	SV1 45 26 03 SV1 45 21 03	5 5	50 250
Data File Folder	24J19		
	LOT #	Syringe Lot #	
pH strip	HC439975	MSV 03 04 12 6	
Chlorine strip	213906	MSV 03 03 23	
Methanol		MSV 03 03 23	
$NaHSO_4$		MSV 03 02 24	
Reagent Water	RW3 23 001		
Sand			

SOP #
☒ EMAX-8260 Rev. No. 10
☐ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1
PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☒ 25-mL Purge
SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☒ Water
☒ pH <2. Outliers indicated on analytical sequence.
☒ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐ pH <2 and Cl2 are not applicable.

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO06	

Analyzed By: MM24
Date: 10/26/2024
Disposed By: MM
Date Disposed: 10/25/2024

Injection Log

Directory: D:\HPCHEM\1\DATA\24J24

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RIW458.D	1.	BFB06J21	T/CHK	24 Oct 2024 08:09
2	2	RIW459.D	1.	CVO06J194	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 09:09
3	3	RIW460.D	1.	VO06J21L	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 09:35
4	4	RIW461.D	1.	VO06J21C	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 10:01
5	5	RIW462.D	1.	RINSE	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 10:28
6	6	RIW463.D	1.	VO06J21B	25mL	24 Oct 2024 10:54
7	7	RIW464.D	1.	24J108-18	25mL	24 Oct 2024 11:20
8	8	RIW465.D	1.	24J108-19	25mL	24 Oct 2024 11:46
9	9	RIW466.D	1.	24J108-01	25mL	24 Oct 2024 12:12
10	10	RIW467.D	1.	24J108-02	25mL	24 Oct 2024 12:38
11	11	RIW468.D	1.	24J108-03	25mL	24 Oct 2024 13:04
12	12	RIW469.D	1.	24J108-04	25mL	24 Oct 2024 13:31
13	13	RIW470.D	1.	24J108-05	25mL	24 Oct 2024 13:57
14	14	RIW471.D	1.	24J108-07	25mL	24 Oct 2024 14:23
15	15	RIW472.D	1.	24J108-10	25mL	24 Oct 2024 14:49
16	16	RIW473.D	1.	24J123-17	25mL	24 Oct 2024 15:16
17	17	RIW474.D	1.	24J123-18	25mL	24 Oct 2024 15:42
18	18	RIW475.D	1.	24J123-20	25mL	24 Oct 2024 16:09
19	19	RIW476.D	1.	EVO06J194	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 16:35
20	20	RIW477.D	1.	BFB06J22	T/CHK	24 Oct 2024 17:03
21	21	RIW478.D	1.	CVO06J195	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 19:04
22	22	RIW479.D	1.	VO06J22L	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 19:32
23	23	RIW480.D	1.	VO06J22C	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 19:58
24	24	RIW481.D	1.	RINSE	10ppb 8260/50ppb KET-AA/250ppb TBA	24 Oct 2024 20:25
25	25	RIW482.D	1.	VO06J22B	25mL	24 Oct 2024 20:50
26	26	RIW483.D	1.	24J123-09	25mL	24 Oct 2024 21:17
27	27	RIW484.D	1.	24J123-10	25mL	24 Oct 2024 21:43
28	28	RIW485.D	1.	24J123-12	25mL	24 Oct 2024 22:09
29	29	RIW486.D	1.	24J099-06J 250X	0.1mL	24 Oct 2024 22:35
30	30	RIW487.D	1.	24J145-02	25mL	24 Oct 2024 23:02
31	31	RIW488.D	1.	24J145-03	25mL	25 Oct 2024 08:13
32	45	RIW489.D	1.	EVO06J196	10ppb 8260/50ppb KET-AA/250ppb TBA	25 Oct 2024 08:39
33	46	RIW490.D	1.	TRSR	10ppb 8260/50ppb KET-AA/250ppb TBA	25 Oct 2024 09:39
34	47	RIW491.D	1.	RINSE	10ppb 8260/50ppb KET-AA/250ppb TBA	25 Oct 2024 10:49
35	48	RIW492.D	1.	RINSE	10ppb 8260/50ppb KET-AA/250ppb TBA	25 Oct 2024 11:58

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #:	A06-083
Instrument No.:	06
Analytical Sequence:	24J26
Method File:	CV006J19
Analytical Batch:	CV006J196

SOP #
☒ EMAX-8260 Rev. No. 10
☐ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1
PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☒ 25-mL Purge
SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☒ Water
☒ pH <2. Outliers indicated on analytical sequence.
☒ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐ pH <2 and Cl2 are not applicable.

INITIAL CALIBRATION REFERENCE			
DATE	10/19/2024		
ICAL ID	VO06J19		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC	SV1 45 24 03	1	250
DCC	SV1 45 37 01	1	250
DCC	SV1 45 42 03	1	250
DCC	SV1 45 42 02 SV1 45 40 03	5 5	250 250
BFB	SV1 45 42 01	1	50
IS/SURR.	SV1 45 35 03 SV1 45 36 01	1 1	250 250
ICV/LCS	SV1 45 35 01	1	250
ICV/LCS	SV1 45 31 03	1	250
ICV/LCS	SV1 45 43 01	5	50
ICV/LCS	SV1 45 26 03 SV1 45 21 03	5 5	50 250
Data File Folder	24J19		
	LOT #	Syringe Lot #	
pH strip	HC439975	MSV 03 04 12 6	
Chlorine strip	213906	MSV 03 35 12 4	
Methanol		MSV 03 03 23	
$NaHSO_4$		MSV 03 02 24	
Reagent Water	RW3 23 001		
Sand			

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO06	

Analyzed By: MM
Date: 10/26/2024
Disposed By: MM
Date Disposed: 10/27/2024

Injection Log

Directory: D:\HPCHEM\1\DATA\24J26

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RIW492.D	1.	BFB06J23	T/CHK	26 Oct 2024 13:01
2	2	RIW493.D	1.	CVO06J196	10ppb 8260/50ppb KET-AA/250ppb TBA	26 Oct 2024 14:09
3	3	RIW494.D	1.	VO06J23L	10ppb 8260/50ppb KET-AA/250ppb TBA	26 Oct 2024 15:08
4	4	RIW495.D	1.	VO06J23C	10ppb 8260/50ppb KET-AA/250ppb TBA	26 Oct 2024 15:34
5	5	RIW496.D	1.	RINSE	10ppb 8260/50ppb KET-AA/250ppb TBA	26 Oct 2024 16:01
6	6	RIW497.D	1.	VO06J23B	25mL	26 Oct 2024 16:27
7	7	RIW498.D	1.	✓24J145-11	25mL	26 Oct 2024 16:53
8	8	RIW499.D	1.	✓24J145-04	25mL	26 Oct 2024 17:19
9	9	RIW500.D	1.	✓24J145-05	25mL	26 Oct 2024 17:45
10	10	RIW501.D	1.	✓24J145-06	25mL	26 Oct 2024 18:11
11	11	RIW502.D	1.	✓24J145-07 – D4 High	25mL	26 Oct 2024 18:38
12	12	RIW503.D	1.	✓24J145-08	25mL	26 Oct 2024 19:04
13	13	RIW504.D	1.	✓24J145-09	25mL	26 Oct 2024 19:30
14	14	RIW505.D	1.	✓24J145-10	25mL	26 Oct 2024 19:57
15	15	RIW506.D	1.	✓24J142-01 – D4 High	25mL	26 Oct 2024 20:23
16	16	RIW507.D	1.	✓24J142-02	25mL	26 Oct 2024 20:49
17	17	RIW508.D	1.	✓24J142-03	25mL	26 Oct 2024 21:15
18	18	RIW509.D	1.	✓24J145-11M	25mL	26 Oct 2024 21:42
19	19	RIW510.D	1.	✓24J145-11S	25mL	26 Oct 2024 22:08
20	20	RIW511.D	1.	EVO06J196	10ppb 8260/50ppb KET-AA/250ppb TBA	26 Oct 2024 22:34
21	21	RIW512.D	1.	EVO06J1961	10ppb 8260/50ppb KET-AA/250ppb TBA	26 Oct 2024 23:00
22	22	RIW513.D	1.	EVO06J1962	10ppb 8260/50ppb KET-AA/250ppb TBA	26 Oct 2024 23:26

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
VOLATILES

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #:	A06-083
Instrument No.:	06
Analytical Sequence:	24J28
Method File:	CV006J19
Analytical Batch:	CV006J197

SOP #	
☒	EMAX-8260 Rev. No. 10
☐	EMAX-8260C Rev. No. 1
☐	EMAX-8260SIM Rev. No. 1
☐	EMAX-M8260SIM Rev. No. 0
☐	EMAX-TCPSIM Rev. No. 2
☐	EMAX-624 Rev. No. 6
☐	EMAX-624.1 Rev. No. 1
PURGE AMOUNT	
☐	5-mL Purge
☐	10-mL Purge
☑	25-mL Purge
SAMPLE MATRIX	
☐	Soil (refer to sample weight log)
☑	Water
☑	pH <2. Outliers indicated on analytical sequence.
☑	Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐	624.1 and CL2 are not applicable.

INITIAL CALIBRATION REFERENCE			
DATE	10/19/2024		
ICAL ID	VO06 J19		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC CS2	SV1 45 24 03	1	250
DCC GAS	SV1 45 37 24 01	1	250
DCC 4A00	SV1 45 42 03	1	250
DCC 8260 KET	SV1 45 42 02 SV1 45 40 03	5 5	250 250
BFB	SV1 45 42 01	1	50
IS/SURR.	SV1 45 35 03 SV1 45 36 01	1 1	250 250
ICV/LCS	SV1 45 35 01	1	250
ICV/LCS	SV1 45 31 03	1	250
ICV/LCS	SV1 45 43 01	5	50
ICV/LCS	SV1 45 26 03 SV1 45 21 03	5 5	50 250
Data File Folder	24J28 19 mm 10/28		
	LOT #	Syringe Lot #	
pH strip	HC439975	MSV 03 04 12 6	
Chlorine strip	213906	MSV 03 35 12 4	
Methanol		MSV 03 03 23	
$NaHSO_4$		MSV 03 02 24	
Reagent Water	RW3 23 001		
Sand			

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO06	

Analyzed By: mm DN
Date: 10/28/24
Disposed By: mm
Date Disposed: 11/29/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24J28

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RIW~~492.D~~ 492A.D	1.	BFB06J24	T/CHK	28 Oct 2024 09:41
2	2	RIW~~493.D~~ 493A.D	1.	VO06J24L	10ppb 8260/50ppb KET-AA/250ppb TBA	28 Oct 2024 12:04
3	3	RIW~~494.D~~ 494A.D	1.	CVO06J197	10ppb 8260/50ppb KET-AA/250ppb TBA	28 Oct 2024 11:11
4	4	RIW~~495.D~~ 495A.D	1.	VO06J24C	10ppb 8260/50ppb KET-AA/250ppb TBA	28 Oct 2024 11:38
5	5	RIW496.D	1.	RINSE	10ppb 8260/50ppb KET-AA/250ppb TBA	28 Oct 2024 14:15
6	6	RIW497.D	1.	VO06J24B	25mL	28 Oct 2024 14:41
7	7	RIW498.D	1.	RW5-24-002	25mL	28 Oct 2024 15:07
~~8~~	~~8~~	~~RIW499.D~~	~~1.~~	~~24J142-04~~	~~25mL~~	~~28 Oct 2024 15:33~~
9	9	RIW500.D	1.	24J142-05	25mL	28 Oct 2024 16:00
10	10	RIW501.D	1.	24J142-06	25mL	28 Oct 2024 16:26
11	11	RIW502.D	1.	24J142-07	25mL	28 Oct 2024 16:53
12	12	RIW503.D	1.	24J142-08	25mL	28 Oct 2024 17:19
13	13	RIW504.D	1.	24J115-01	25mL	28 Oct 2024 17:45
14	14	RIW505.D	1.	24J039-02I 250X	0.1mL	28 Oct 2024 18:11
15	15	RIW506.D	1.	24J039-03I 100X	0.25mL	28 Oct 2024 18:37
16	16	RIW507.D	1.	24J039-04I 100X	0.25mL	28 Oct 2024 19:03
17	17	RIW508.D	1.	24J123-17N	0.25mL	28 Oct 2024 19:29
18	18	RIW509.D	1.	24J142-04M	0.25mL	28 Oct 2024 19:56
19	19	RIW510.D	1.	24J142-04S	0.25mL	28 Oct 2024 20:22
20	20	RIW511.D	1.	RINSE	0.25mL	28 Oct 2024 20:48
21	21	RIW512.D	1.	24J123-17M	0.25mL	28 Oct 2024 21:14
22	22	RIW513.D	1.	24J123-17S	0.25mL	28 Oct 2024 21:41
23	23	RIW514.D	1.	RINSE	0.25mL	28 Oct 2024 22:07
24	24	RIW515.D	1.	EVO06J197	10ppb 8260/50ppb KET-AA/250ppb TBA	28 Oct 2024 22:33
25	25	RIW516.D	1.	EVO06J1971	10ppb 8260/50ppb KET-AA/250ppb TBA	28 Oct 2024 22:59
26	26	RIW517.D	1.	EVO06J1972	10ppb 8260/50ppb KET-AA/250ppb TBA	28 Oct 2024 23:26

STANDARDS LOG(S)

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-13-10	Cust. VOA mix 73-6047	2000 ppm	250 µL	50 ppm
-13-20	Oxygenated Gas	↓	↓	↓
-13-18	1-Chlorohexane	↓	↓	↓
-13-08	2-CLEVE	↓	↓	↓
-13-13	1,2,3 TMB	2500 ppm	200 µL	↓
-12-11	TBA	50 000 ppm	↓	1000 ppm
			IR 7/26/24	

Standard ID	SV1-45-21-01
Name	8260 (1°)
Final Volume	10 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	7/26/24
Exp. Date	1/26/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-08-11	2-Butanol	50000 ppm	100 µL	2500 ppm
-13-19	Cyclohexane	2000 ppm	250 µL	250 ppm
-14-02	Methyl Cyclohexane	2500 ppm	200 µL	↓
-14-01	Methyl Acetate	↓	↓	↓
			IR 7/30/24	

Standard ID	SV1-45-21-02
Name	4 Add (1°)
Final Volume	2.0 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	7/30/24
Exp. Date	1/30/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-09	Ketone Soln.	2500 ppm	1000 µL	250 ppm
-16-05	Acrolein + Acrylonitrile	2000 ppm	1250 µL	↓
			IR 7/30/24	

Standard ID	SV1-45-21-03
Name	KET-AA (2°)
Final Volume	10. mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	7/30/24
Exp. Date	10/31/24
Prepared By	IR

Syringe ID: MSV-03-01-16
03-03-05

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-13-04	Fluorobenzene mix	2000ppm	250µL	250ppm

Standard ID	SV1-45-24-01
Name	524.2 IS
Final Volume	2.0mL
MeOH Solvent ID	SW1A-011-24-01
Prep. Date	8/12/24
Exp. Date	2/12/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-06-03	524.2 Surr. Std. mix	2000ppm	250µL	250ppm

Standard ID	SV1-45-24-02
Name	524.2 SS
Final Volume	2.0mL
MeOH Solvent ID	SW1A-011-24-01
Prep. Date	8/12/24
Exp. Date	2/12/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-11-10	Carbon Disulfide	5000ppm	250µL	125ppm
			IR 8/13/24	

Standard ID	SV1-45-24-03
Name	CS_2 (1°)
Final Volume	10mL
MeOH Solvent ID	SW1A-011-24-01
Prep. Date	8/13/24
Exp. Date	2/13/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-13-04	FLUOROBENZENE Mix	2000ppm	250 µL	250ppm
↓ -38-06-03	524.2 Surr. Std. Mix	↓	↓	↓
			IR 8/19/24	

Standard ID	SV1-45-26-01
Name	524.2 IS/SS
Final Volume	2.0mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	8/19/24
Exp. Date	2/19/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-10	8260 Gases	2000ppm	1250µL	250ppm
↓ -13	Vinyl Acetate	↓	↓	↓
			IR 8/19/24	

Standard ID	SV1-45-26-02
Name	Gas (2°)
Final Volume	10mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	8/19/24
Exp. Date	9/22/24
Prepared By	IR

Syringe ID: MSV-03-01-16
-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-14-12	Cyclohexane	1000ppm	500 µL	50ppm
↓ -15-02	Methyl Cyclohexane	↓	↓	↓
↓ -14-18	Methyl Acetate			
			IR 8/19/24	

Standard ID	SV1-45-26-03
Name	3 Acid (2°)
Final Volume	10mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	8/19/24
Exp. Date	2/19/25
Prepared By	IR

Syringe ID: MSV-03-01-16

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-12-11	TBA	50,000ppm	200 µL	5000 ppm
SV1-38-13-13	123-TMB	2500	200µL	250 ppm
SV1-38-13-20	DGAS	2000	250 µL	250 ppm
SV1-38-13-08	2-Chleve	2000	250 µL	250 ppm
SV1-38-13-18	1-Chlorohexane	2000	250 µL	250 ppm
SV1-38-06-12	Custom Mix	2000	250µL	250 ppm
			DM	9/3/24

Standard ID	SV1-45-31-01
Name	8260 (1)
Final Volume	2mL
MeOH Solvent ID	SW1A-011-24-01
Prep. Date	9/3/2024
Exp. Date	3/3/~~2024~~ 2025 9/3/24
Prepared By	DM

Syringe ID: MSV-03-01-15

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1 38 15 19	VOA Mix 1	5000 ppm	500 µL	1250 ppm
SV1-38-14-10 03	Acrolein & Acrylonitrile	5000ppm	500µL	1250 ppm
SV1-38-12-11 14-10	2-Butanol	50,000 ppm	250µL	6250 ppm
SV1-38-12-12	Cyclohexane	2000 ppm	250µL	250 ppm
SV1-38-14-01	Methyl Acetate	2500ppm	200 µL	250 ppm
SV1-38-14-2	Methyl Cyclohexane	2500ppm	200µL	250 ppm
			DM 9/3/24	

Standard ID	SV1-45-31-02
Name	KET-AA-4dd
Final Volume	2mL
MeOH Solvent ID	SW1A-011-24-01
Prep. Date	9/3/2024
Exp. Date	3/3/2025
Prepared By	DM

Syringe ID: MSV-03-01-15

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-14-04	IS	250ppm	40	20 ppm
			DM 9/3/24	

Standard ID	SV1-45-31-03
Name	IS (E2)
Final Volume	5mL
MeOH Solvent ID	SW1A-011-24-1
Prep. Date	9/3/24
Exp. Date	12/20/24
Prepared By	DM

Syringe ID: MSV-03-02-24

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-08	Carbon Disulfide	5000ppm	500µL	250ppm
			IR 9/23/24	

Standard ID	SV1-45-35-01
Name	CS_2 (2°)
Final Volume	10mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/23/24
Exp. Date	3/23/25
Prepared By	IR

Syringe ID: MSV-03-01-14

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-08	Carbon Disulfide	5000ppm	500µL	250ppm
			9/23/24	

Standard ID	SV1-45-35-02
Name	CS_2 (2°)
Final Volume	10mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/23/24
Exp. Date	3/23/25
Prepared By	IR

Syringe ID: MSV-03-01-14

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-04	8260IS	2500ppm	1.0mL	250ppm
			DH 9/23/24	

Standard ID	SV1-45-35-03
Name	IS
Final Volume	10mL
MeOH Solvent ID	SVIA-011-24-01
Prep. Date	9/23/24
Exp. Date	2/24/25
Prepared By	DH

Syringe ID: MSV-02-01-14

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-U-07	8260A	2500ppm	1.0mL	250ppm
			DM 9/23/24	

Standard ID	SV1-45-36-01
Name	SS
Final Volume	10mL
MeOH Solvent ID	SWA-011-24-01
Prep. Date	9/23/24
Exp. Date	2/23/25
Prepared By	DM

Syringe ID: MSV-02-01-14

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-10	Carbon Disulfide Solution	5000 ppm	500 µL	250 ppm
				IR 9/25/24

Standard ID	SV1-45-36-02
Name	CS_2 (1°)
Final Volume	10 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/25/2024
Exp. Date	03/25/2025
Prepared By	I.R. IR 9/25/24

Syringe ID: MSV-03-01-14

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-10	Carbon Disulfide	5000ppm	500 µL	250 ppm
				IR 9/25/24

Standard ID	SV1-45-36-03
Name	CS_2 (1°)
Final Volume	10 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/25/2024
Exp. Date	3/25/2025
Prepared By	IR IR 9/25/24

Syringe ID: MSV-03-01-14

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-16	VOC Gas Std.	2000ppm	1250µL	250ppm
↓ -17	Vinyl Acetate	2500ppm	1000µL	↓
			IR	9/25/24

Standard ID	SV1-45-37-01
Name	GAS (1°)
Final Volume	10 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/25/24
Exp. Date	3/25/25
Prepared By	IR

Syringe ID: MSV-03-01-14
↓ -03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-13-12	8260 IS	2500ppm	200µL	250ppm
			IR	9/25/24

Standard ID	SV1-45-37-02
Name	IS
Final Volume	2.0 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/25/24
Exp. Date	3/25/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-14-09	8260A Surr. mix	2500ppm	200µL	250ppm
			IR	9/25/24

Standard ID	SV1-45-37-03
Name	SS
Final Volume	2.0 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/25/24
Exp. Date	3/25/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-06	Cust. VOC Mix 15-Y	2/20/40K ppm	250µL	250/250/500 ppm
				IR 10/09/24

Standard ID	SV1-45-40-01
Name	APP IX (1°)
Final Volume	2.0mL
MeOH Solvent ID	SWIA.011-24-01
Prep. Date	10/09/24
Exp. Date	IR 11/7/24 ~~12/09/25~~ 7/7/25 ~~12/09/24~~
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-19	VOA Cal. Mix #1	50000ppm	500µL	250ppm
↳ -17-01	Acrolein & Acrylonitrile	↓	↓	↓
				IR 10/09/24

Standard ID	SV1-45-40-02
Name	KET-AA (1°)
Final Volume	10mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	10/09/24
Exp. Date	12/22/24
Prepared By	IR

Syringe ID: MSV-03-01-16

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-19	VOA Cal Mix #1	50000ppm	500µL	250ppm
↳ -17-01	Acrolein & Acrylonitrile	↓	↓	↓
				IR 10/09/24

Standard ID	SV1-45-40-03
Name	KET-AA (1°)
Final Volume	10mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	10/09/24
Exp. Date	12/22/24
Prepared By	IR

Syringe ID: MSV-03-01-16

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SVL-38-14-06	VOA Tuning Compound Mix	5000ppm	100µL	50ppm

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-09-20	8260 Megamix	2000 ppm	250 µL	50 ppm
-18-04	Col Oxy Mix #1	↓	↓	↓
-17-15	2-Cleve	↓	↓	
-12-20	1-Chlorohexane	1000 ppm	0.5 mL	
-12-06	1,2,3-TMB	25000 ppm	200 µL	↓
-18-06	TBA	50,000 ppm	↓	1000 ppm
				CC 10/11/24

Standard ID	SV1-45-43-01
Name	8260 (2°)
Final Volume	10mL
MeOH Solvent ID	SWIA-02-13-03
Prep. Date	10/11/24
Exp. Date	4/11/24
Prepared By	DM

Syringe ID: MSV-03-03-04

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.

Standard ID	SV1-45-43-02
Name	ES/SS
Final Volume	10mL
MeOH Solvent ID	
Prep. Date	
Exp. Date	
Prepared By	

Syringe ID:

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-45-39-03	8260 (2°)	50 ppm	200 µL	5.0 ppm
↓ -34-03	GRO (2°)	250 ppm	40 µL	↓
				JR 10/11/24

Standard ID	SV1-45-43-03
Name	SIM (2°)
Final Volume	2.0mL
MeOH Solvent ID	SWIA.011-24-01
Prep. Date	10/11/24
Exp. Date	12/17/24
Prepared By	JR

Syringe ID: MSV-03-03-05
-03-03-03

Comments:

SV1-38-15-09

14271 Jeffrey Road
#223
Irvine, CA 92620

ibis scientific

For Chemical Emergency, Spill, Leak, Fire Exposure or Accident Call Chromanex Day or Night 800.390.4202

Quality System Audited & Registered by TUV USA to ISO 9001:2015

Date Received: 2/8/24

Certificate of Analysis

Rev 0 **Page**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
G34-3200-121020-17	480682	≤ -10 °C	P/T MeOH:Water 9:1	4/28/2027	Ketones Solution, 2500 mg/L, 1 ml ISO17034

Compound	CAS No	Purity (%)	Compound Lot No	Concentration, mg/L
acetone	67-64-1	99.6	196.271.4P	2498 ± 53.47 mg/L
2-butanone (MEK)	78-93-3	99.9	197.1.2P	2498 ± 53.51 mg/L
4-methyl-2-pentanone (MIBK)	108-10-1	99.88	198.421.1.2P	2500 ± 54.02 mg/L
2-hexanone	591-78-6	100	199.7.3P	2501 ± 53.58 mg/L

Certified By: Melissa Workoff

Melissa Workoff

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

SVL-38-16-05

Product Name:	Acrolein and Acrylonitrile Standard	**Lot Number:**	0006798734
Product Number:	AMN-623-1	**Lot Issue Date:**	21-Jun-2024
Storage Conditions:	Store Frozen (-25° to -10°C).	**Expiration Date:**	31-Oct-2024

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
acrolein	2005	±	0 µg/mL	000107-02-8	RM22572
acrylonitrile	2010	±	10 µg/mL	000107-13-1	RM20527

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

CSD-QA-015.2

ISO 17025
Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Date manufactured: 3/10/2023
Original issue date: 3/10/2023

Certificate of Analysis

Date Received:

 Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -020200-04	498954	≤ -10 °C	P/T Methanol	8-Mar-2028	Carbon Disulfide Solution, 5,000 mg/L, 1 ml

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
carbon disulfide	75-15-0	99.9	200.24.1VP	5075 ± 260

SVL-38-11-10

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various EN, ISO, EPA, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty

SV1-38-14-12

SPEXertificate®

Certificate of Reference Material

Catalog Number: S-1015 **Lot No.** NSI231116204
Description: Cyclohexane
Matrix: Methanol (Purge & Trap Grade) **Manufactured Date:** 11/16/2023
Expiration Date: 11/30/2026

This **SPEXOrganics®** Certified Reference Material, CRM, was manufactured by NSI Lab Solutions (www.nsilabsolutions.com) and is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled (ug/mL)	Purity	Certified† (ug/mL)		Uncertainty (ug/mL)
Cyclohexane	110-82-7	1000	100.0%	999	±	7.05

SV1-38-14-12

* - Isomer ratios (when applicable) are an uncertified parameter.

Final Solution Verification:

Final solution integrity verified Volumetrically and Analytically. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration is based on gravimetric or volumetric measurements. All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO/IEC 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request. All glassware used in the manufacturing of this standard is Class A. Volumetric pipettors are calibrated every four months by an ISO/IEC 17025 accredited calibration laboratory.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 11/16/2023 Certifying Officer: Kenneth Grzybowski

SVI-38-15-02

SPEXertificate®

Certificate of Reference Material

Catalog Number: S-2470
Description: Methylcyclohexane
Matrix: P&T Methanol

Lot No. NSI231116202

Manufactured Date: 11/16/2023
Expiration Date: 11/30/2026

This **SPEXOrganics®** Certified Reference Material, CRM, was manufactured by NSI Lab Solutions (www.nsilabsolutions.com) and is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled (ug/mL)	Purity	Certified† (ug/mL)		Uncertainty (ug/mL)
Methylcyclohexane	108-87-2	1000	98.0%	1000	±	7.05

* - Isomer ratios (when applicable) are an uncertified parameter.

Final Solution Verification:

Final solution integrity verified Volumetrically and Analytically. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration is based on gravimetric or volumetric measurements. All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO/IEC 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request. All glassware used in the manufacturing of this standard is Class A. Volumetric pipettors are calibrated every four months by an ISO/IEC 17025 accredited calibration laboratory.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 11/16/2023

Certifying Officer: Kenneth Grzybowski

SVI-38-14-18

SPEXertificate®

Certificate of Reference Material

Catalog Number: S-3893 **Lot No.** NSI231117202
Description: Methyl Acetate
Matrix: Methanol (Purge & Trap Grade) **Manufactured Date:** 11/17/2023
Expiration Date: 11/30/2026

This **SPEXOrganics®** Certified Reference Material, CRM, was manufactured by NSI Lab Solutions (www.nsilabsolutions.com) and is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled (ug/mL)	Purity	Certified† (ug/mL)		Uncertainty (ug/mL)
Methyl acetate	79-20-9	1000	99.9%	1000	±	7.05

* - Isomer ratios (when applicable) are an uncertified parameter.

Final Solution Verification:

Final solution integrity verified Volumetrically and Analytically. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration is based on gravimetric or volumetric measurements. All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO/IEC 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request. All glassware used in the manufacturing of this standard is Class A. Volumetric pipettors are calibrated every four months by an ISO/IEC 17025 accredited calibration laboratory.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 11/17/2023 Certifying Officer: Kenneth Grzybowski

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Fax: 1-814-353-1309

www.restek.com

SV1-38-14-04

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30482 **Lot No.:** A0201817

Description : PFTBA (MS Tuning Compound)

PFTBA (MS Tuning Compound) (neat), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2028 **Storage:** 0°C or colder

Ship: Ambient

Compound #	Compound	CAS #	Percent Purity	Actual Weight	Expanded Uncertainty (95% C.L.; K=2)
1	Perfluorotributylamine (PFTBA)	311-89-7	----%	1.0 ml	+/- 0.0058 ml

Solvent: None

Josh McCloskey - Operations Technician I

Date Mixed: 07-Sep-2023 **Balance:** B707717271

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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SVI-30-16-04

Date manufactured: 9/28/2023
Original issue date: 9/28/2023

Certificate of Analysis

Date Received:

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -122455-05	510110	-18°C +/- 4°C	P/T Methanol	26-Sep-2028	Method 8260 Internal Standard Mix, 3-30, 2,500 mg/L, 1 ml

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
chlorobenzene-d5	3114-55-4	99	128.120.2P	2497 ± 330
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	2525 ± 30
1,4-difluorobenzene	540-36-3	99.3	129.158.1.2P	2530 ± 58

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

SV1-38-14-07

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30240 **Lot No.:** A0203162

Description : 8260A Surrogate Mix

8260A Surrogate Mix 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L., K=2)
1	Dibromofluoromethane	1868-53-7	022013	99%	2,510.0 µg/mL	+/- 141.0009
2	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	2,518.2 µg/mL	+/- 141.4616
3	Toluene-d8	2037-26-5	PR-33397	99%	2,523.4 µg/mL	+/- 141.7537
4	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000194533	99%	2,508.7 µg/mL	+/- 140.9301

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

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ISO 17034

Reference Material Certificate

Product Information Sheet

SVI-38-15-16

Product Name: VOC Gas Standard

Product Number: DWM-544-1

Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006744131

Lot Issue Date: 23-May-2023

Expiration Date: 30-Jun-2026

Component Name	Concentration		Uncertainty	CAS #	Analyte ID
bromomethane	2009	±	10 µg/mL	000074-83-9	RM00064
chloroethane	2008	±	10 µg/mL	000075-00-3	RM00065
chloromethane	2008	±	10 µg/mL	000074-87-3	RM12571
dichlorodifluoromethane	2010	±	10 µg/mL	000075-71-8	RM05289
trichlorofluoromethane	2009	±	10 µg/mL	000075-69-4	RM00017
vinyl chloride	2009	±	10 µg/mL	000075-01-4	RM05458

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

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SVI-38-15-A

Date manufactured: 5/9/2024
Original issue date: 5/9/2024

Certificate of Analysis

Date Received:

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -020232-10	519896	≤ -10 °C	P/T Methanol	14-May-2027	Vinyl Acetate Solution, 2,500 mg/L, 1 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
vinyl acetate	108-05-4	99.9	232.7.1P	2498 ± 110

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

SV1-38-15-19

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0205808

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,028.0 µg/mL	+/- 173.7444
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,047.2 µg/mL	+/- 174.4067
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,027.8 µg/mL	+/- 173.7387
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,017.7 µg/mL	+/- 173.3874

* Expanded Uncertainty displayed in same units as Grav. Conc

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

SV1-38-B-09

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(800)878-7654 Toll Free
(707)545-7901 Fax

Date manufactured: 3/13/2023
Original issue date: 3/13/2023

Certificate of Analysis

Date Received: 10/6/23
 Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -126047-01	498957	≤ -10 °C	P/T Methanol	13-Sep-2024	Custom Volatiles Mix, 73-6047, Various Concentrations, 1 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
2-nitropropane	79-46-9	97.7	219.1.2P	2003 ± 110
allyl chloride	107-05-1	98.9	227.1.2P	2024 ± 120
benzene	71-43-2	99.99	146.1.10P	1997 ± 110
bromobenzene	108-86-1	100	147.7.1P	1999 ± 140
bromochloromethane	74-97-5	99.7	148.1.3P	1998 ± 110
bromodichloromethane	75-27-4	99.2	149.1.12P	1988 ± 110
bromoform	75-25-2	99.3	150.7.2P	1989 ± 110
n-butylbenzene	104-51-8	99.2	151.7.3.2P	1997 ± 110
sec-butylbenzene	135-98-8	99.5	152.1.2.1P	1999 ± 110
tert-butylbenzene	98-06-6	99.9	153.29.1P	1999 ± 110
carbon tetrachloride	56-23-5	100	154.9.1P	1997 ± 110
chlorobenzene	108-90-7	99.9	155.29.1P	2001 ± 110
2-chloroethanol	107-07-3	99.5	217.1.3P	2000 ± 110
chloroform	67-66-3	99.8	156.7.1P	1998 ± 110
chloroprene	126-99-8	98.9	315.5.22P	1982 ± 140
2-chlorotoluene	95-49-8	99.5	157.7.1P	1998 ± 110
4-chlorotoluene	106-43-4	99.9	158.9.3P	2000 ± 110

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SVI-30-13-20

CERTIFICATE OF ANALYSIS

Catalog No: OGAD-001
Description: Oxygenate Gasoline Additive Standard
Lot: 222081419
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Aug 29, 2022
Expiration: Aug 29, 2025
Sample Size: 1 mL
Components: 5
Storage Condition: Refrig (0-5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ILAC-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
MtBE	1634-04-4	99.8	2001	1997
EtBE	637-92-3	99.9	2004	2002
Isopropyl ether	108-20-3	100.0	2010	2010
TAME	994-05-8	99.0	2000	1980
t-Butanol	75-65-0	99.6	10005	9965

AccuStandard

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 684/289871-17

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 7/20

125 Market Street
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SVI - 38-13-18

CERTIFICATE OF ANALYSIS

Catalog No: M-8010R-1-04-10X
Description: 1-Chlorohexane
Lot: 223031117
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Mar 8, 2023
Expiration: Mar 8, 2033
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ILAC-MRA

Component	CAS #	Purity[3] %	Prepared Concentration[2] (ug/mL)	Certified Analyte Concentration[1] (ug/mL)
1-Chlorohexane	544-10-5	98.0	2024	1984

AccuStandard

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

[2] All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

[3] Purity/Identity determined by one or more of the following methods: GC/MS, LC/MS, NMR, FTIR, Melting Point.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 7/20

SVI-38-B-08

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Date manufactured: 8/24/2022
Original issue date: 8/24/2022

Certificate of Analysis

Date Received: 10/6/23
 Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -020145-02	492308	≤ -10 °C	P/T Methanol	23-Aug-2027	2-Chloroethyl Vinyl Ether Solution, 2,000 mg/L, 1 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
2-chloroethylvinyl ether	110-75-8	99.8	145.1.5P	2010 ± 110

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various EN, ISO, EPA, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

SVI-38-13-13

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Date manufactured: 6/24/2022
Original issue date: 6/24/2022

Certificate of Analysis

Date Received: 10/6/23

 Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -020869-08	484154	≤ -10 °C	P/T Methanol	23-Jun-2027	1,2,3-Trimethylbenzene Solution, 2,500 mg/L, 1 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
1,2,3-trimethylbenzene	526-73-8	92.7	869.8.4.1P	2536 ± 140

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various EN, ISO, EPA, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

GM - 38-12-11

Date manufactured: 11/16/2022
Original issue date: 11/16/2022

Certificate of Analysis

Date Received:

 Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -020511-06	492310	≤-10 °C	P/T Methanol	15-Nov-2027	t-Butyl Alcohol Solution, 50,000 mg/L, 1 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
tert-butyl alcohol	75-65-0	100	511.7.2P	50110 ±2600

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various EN, ISO, EPA, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 575702 **Lot No.:** A0191824

Description : Custom Revised 8260 Megamix

Custom Revised 8260 Megamix 2,000 - 40,000µg/mL, P&T Methanol, 1mL/ampul

SVI-38-09-20

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorofluoromethane (CFC-21)	75-43-4	12841600	99%	2,000.0 µg/mL	+/- 69.1292
2	Diethyl ether (ethyl ether)	60-29-7	SHBP5008	99%	2,011.0 µg/mL	+/- 69.5094
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	00016133	99%	2,008.0 µg/mL	+/- 69.4057
4	1,1-dichloroethene	75-35-4	SHBG8609V	99%	2,001.6 µg/mL	+/- 69.9029
5	Iodomethane (methyl iodide)	74-88-4	RD220125	99%	2,007.5 µg/mL	+/- 69.3884
6	Allyl chloride (3-chloropropene)	107-05-1	RP220405A	99%	2,011.0 µg/mL	+/- 69.5094
7	Methylene chloride (dichloromethane)	75-09-2	SHBP1417	99%	2,001.6 µg/mL	+/- 69.9056
8	trans-1,2-Dichloroethene	156-60-5	MKBH9850V	99%	2,001.7 µg/mL	+/- 69.9064
9	1,1-Dichloroethane	75-34-3	760200	99%	2,001.1 µg/mL	+/- 69.8864
10	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	220712JLM	99%	2,014.0 µg/mL	+/- 69.6131
11	Propionitrile	107-12-0	BCCF4167	99%	20,009.5 µg/mL	+/- 691.5748
12	2,2-Dichloropropane	594-20-7	RD220812	99%	2,004.3 µg/mL	+/- 70.0110
13	cis-1,2-Dichloroethene	156-59-2	MKCP7830	99%	2,014.0 µg/mL	+/- 70.3516
14	Methacrylonitrile	126-98-7	1012014	99%	20,031.5 µg/mL	+/- 692.3351
15	Methyl acrylate	96-33-3	SHBG6616V	99%	2,007.0 µg/mL	+/- 69.3711
16	Isobutanol (2-Methyl-1-propanol)	78-83-1	SHBP7066	99%	40,013.5 µg/mL	+/- 1,382.9594

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

SV1-38-18-04

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30465 **Lot No.:** A0210449

Description : California Oxygenates Mixture #1

California Oxygenates Mixture #1 2000-10000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002	99%	10,066.7 µg/mL	+/- 125.2182
2	Methyl-tert-butyl ether (MTBE)	1634-04-4	SHBQ4873	99%	2,020.0 µg/mL	+/- 25.1393
3	Diisopropyl ether (DIPE)	108-20-3	STBK8028	99%	2,012.0 µg/mL	+/- 25.0397
4	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCT4522	98%	1,994.6 µg/mL	+/- 24.8235
5	tert-Amyl methyl ether (TAME)	994-05-8	HMBJ0825	99%	2,008.7 µg/mL	+/- 24.9982

* Expanded Uncertainty displayed in same units as Grav. Conc

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-601C-10X
Description: 2-Chloroethylvinyl ether
Lot: 224031001
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

SVI-38-17-15

Date Certified: Mar 8, 2024
Expiration: Mar 8, 2027
Sample Size: 1 mL
Components: 1
Storage Condition: Freeze (<-10 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity[3] %	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
2-Chloroethylvinyl ether	110-75-8	100.0	2011	2011

AccuStandard

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

[2] All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

[3] Purity/Identity determined by one or more of the following methods: GC/MS, LC/MS, NMR, FTIR, Melting Point.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev 7/20

SM-38-12-20

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: 1-Chlorohexane Standard

Product Number: EPA-1208-1

Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006735507

Lot Issue Date: 20-Mar-2023

Expiration Date: 30-Apr-2026

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
1-chlorohexane	1000	± 5 µg/mL	000544-10-5	RM04913

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material (RM) standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above. Purity values are taken from approved vendor raw material certificates.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference (RM) standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference (RM) standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard (RM) is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Ibis Scientific, 7330 Smoke Ranch Rd., Suite B, Las Vegas, NV 89128 (855)390-4202

Date manufactured: 6/24/2022
Original issue date: 6/24/2022

Certificate of Analysis

Date Received: _____

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
3200-44	503601	≤ -10 °C	P/T Methanol	23-Jun-2027	1,2,3-Trimethylbenzene Solution, 2500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
1,2,3-trimethylbenzene	526-73-8	92.7	869.8.4.1P	2536 ± 32.33

SVI-38-12-06

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

SVI-38-18-06

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0214955

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L., K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002	99%	50,256.0 µg/mL	+/- 721.1797

* Expanded Uncertainty displayed in same units as Grav. Conc

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

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Fax (203)786-5287
www.AccuStandard.com

SV1-38-17-01

CERTIFICATE OF ANALYSIS

Catalog No: M-603-M-5X
Description: Acrolein & Acrylonitrile
Lot: 224081355
Solvent: Methanol (90%)
Water (10%)
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Aug 22, 2024
Expiration: Dec 22, 2024
Sample Size: 1 mL
Components: 2
Storage Condition: Freeze (<-10 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity[3] %	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
Acrolein	107-02-8	90.5	5526*	5001
Acrylonitrile	107-13-1	99.8	5010	5000

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

* Weight compensated to 100% purity.

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4% and was determined in accordance with ISO 17034. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

[2] All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

[3] Purity/Identity determined by one or more of the following methods: GC/MS, LC/MS, NMR, FTIR, Melting Point.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis

EMAX
LABORATORIES, INC.
3051 Fujita Street
Torrance, CA 90505
Tel: (310)-618-8889

Date: 01-09-2025
EMAX Batch No.: 24J168

Attn: Mark Rigby

Parsons
75 W Towne Ridge Pkway # 200
Sandy UT 84070

Subject: Laboratory Report
Project: TITAN 1-A

Enclosed is the Laboratory report for samples received on 10/28/24.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
T1AMF-MW050_OCT24	J168-01	10/24/24	WATER	VOCS BY 8260C
T1AMF-MW050_OCT24_FD	J168-02	10/24/24	WATER	VOCS BY 8260C
T1AMF-MW022_OCT24	J168-03	10/24/24	WATER	VOCS BY 8260C
T1AMF-MW047_OCT24	J168-04	10/24/24	WATER	VOCS BY 8260C
T1AMF-MW043_OCT24	J168-05	10/24/24	WATER	VOCS BY 8260C
T1AMF-MW044_OCT24	J168-06	10/24/24	WATER	VOCS BY 8260C
T1AMF-MW042_OCT24	J168-07	10/24/24	WATER	VOCS BY 8260C
T1AMF-MW046_OCT24	J168-08	10/24/24	WATER	VOCS BY 8260C
T1AMF-MW056_OCT24	J168-09	10/24/24	WATER	VOCS BY 8260C
T1AMF-MW056_OCT24_FD	J168-10	10/24/24	WATER	VOCS BY 8260C
T1AMF-MW049_OCT24	J168-11	10/24/24	WATER	VOCS BY 8260C
T1AMF-MW051_OCT24	J168-12	10/24/24	WATER	VOCS BY 8260C
T1AMF-MW029_OCT24	J168-13	10/24/24	WATER	VOCS BY 8260C
T1AMF-EW01_OCT24	J168-14	10/24/24	WATER	VOCS BY 8260C
T1AMF-MW045_OCT24	J168-15	10/24/24	WATER	VOCS BY 8260C
T1AMF-EB001_OCT24	J168-16	10/24/24	WATER	VOCS BY 8260C
T1AMF-EB002_OCT24	J168-17	10/24/24	WATER	VOCS BY 8260C
T1AMF-SB001_OCT24	J168-18	10/24/24	WATER	VOCS BY 8260C
T1AMF-MW044_OCT24MS	J168-06M	10/24/24	WATER	VOCS BY 8260C
T1AMF-MW044_OCT24MSD	J168-06S	10/24/24	WATER	VOCS BY 8260C

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Gaspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that results included in this report meets all TNI & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912024-26
ANAB Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672

CHAIN OF CUSTODY

EMAX Laboratories, Inc.
3051 Fujita St., Torrance, CA 90505
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: 0015461

SAMPLE STORAGE

EMAX CONTROL NO. 24J168

PROJECT CODE:

CLIENT PARSONS

PROJECT TITAN 1-A

COORDINATOR Katherine LaPierre

TEL 360-529-9351 EMAIL Katherine.LaPierre@Parsons.us

SEND REPORT TO Katherine LaPierre at email above

COMPANY PARSONS

ADDRESS NA - Electronic Communication Only

EMAX PM: Richard Beauvil, RBeauvil@emaxlabs.com

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

ANALYSIS REQUIRED: VOCs (SW8260C)

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☐ 7 days
- ☐ 14 days
- ☑ 21 days

SAMPLE ID		SAMPLING			CONTAINER			MATRIX CODE	QC	PRESERVATIVE CODE										COMMENTS
LAB	CLIENT	LOCATION	DATE	TIME	NO.	SIZE	TYPE			IC/HC										
* 1	T1AMF-MW050_OCT24	MW-50	10/24/2024	0847	3	40 mL	VOA	GW		X										
* 2	T1AMF-MW050_OCT24_FD	MW-50	10/24/2024	0852	3	40 mL	VOA	GW	FD	X										
* 3	T1AMF-MW022_OCT24	MW-22	10/24/2024	0850	3	40 mL	VOA	GW		X										
* 4	T1AMF-MW047_OCT24	MW-47	10/24/2024	0941	3	40 mL	VOA	GW		X										
* 5	T1AMF-MW043_OCT24	MW-43	10/24/2024	0955	3	40 mL	VOA	GW		X										
* 6	T1AMF-MW044_OCT24	MW-44	10/24/2024	1034	9	40 mL	VOA	GW	MS/MSD	X										MS/MSD
* 7	T1AMF-MW042_OCT24	MW-42	10/24/2024	1050	3	40 mL	VOA	GW		X										
* 8	T1AMF-MW046_OCT24	MW-46	10/24/2024	1134	3	40 mL	VOA	GW		X										
* 9	T1AMF-MW056_OCT24	MW-56	10/24/2024	1205	3	40 mL	VOA	GW		X										
10	T1AMF-MW056_OCT24_FD	MW-56	10/24/2024	1210	3	40 mL	VOA	GW	FD	X										

Instructions

Cooler #	Temp. (°C)	Sample #s
1	3.3	

SAMPLER Sean Moore/Jose Lopez (BTS)

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
Justin Steare / [illegible] / Parsons	10/24/24	1700	
	10/28/24	9:40	[signature]

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associ practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX wil directed in writing otherwise.

CHAIN OF CUSTODY

EMAX Laboratories, Inc.
3051 Fujita St., Torrance, CA 90505
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: 0015461

SAMPLE STORAGE

EMAX CONTROL NO. 24J168

PROJECT CODE:

CLIENT PARSONS

PROJECT TITAN 1-A

COORDINATOR Katherine LaPierre

TEL 360-529-9351 EMAIL Katherine.LaPierre@Parsons.us

SEND REPORT TO Katherine LaPierre at email above

COMPANY PARSONS

ADDRESS NA - Electronic Communication Only

EMAX PM: Richard Beauvil, RBeauvil@emaxlabs.com

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

ANALYSIS REQUIRED: VOCs (SW8260C)

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☐ 7 days
- ☐ 14 days
- ☑ 21 days

LAB	SAMPLE ID CLIENT	SAMPLING LOCATION	DATE	TIME	CONTAINER NO.	SIZE	TYPE	MATRIX CODE	QC	PRESERVATIVE CODE IC/HC	VOCs (SW8260C)	COMMENTS
1	T1AMF-MW049_OCT24	MW-49	10/24/2024	1231	3	40 mL	VOA	GW		X	X	
2	T1AMF-MW051_OCT24	MW-51	10/24/2024	1308	3	40 mL	VOA	GW		X	X	
3	T1AMF-MW029_OCT24	MW-29	10/24/2024	1310	3	40 mL	VOA	GW		X	X	
4	T1AMF-EW01_OCT24	EW-1	10/24/2024	1404	3	40 mL	VOA	GW		X	X	
5	T1AMF-MW045_OCT24	MW-45	10/24/2024	1405	3	40 mL	VOA	GW		X	X	
6	T1AMF-EB001_OCT24	Equipment Blank	10/24/2024	1410	3	40 mL	VOA	W	EB	X	X	
7	T1AMF-EB002_OCT24	Equipment Blank	10/24/2024	1430	3	40 mL	VOA	W	EB	X	X	
8	T1AMF-SB001_OCT24	Soure Blank	10/24/2024	1500	3	40 mL	VOA	W	SB	X	X	
9												
10												

Instructions

Cooler #	Temp. (°C)	Sample #s

SAMPLER Sean Moore/Jose Lopez (BTS)

COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
Justin Steele / Parsons	10/24/24	1700	
	10/28/24	9:40	

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associ practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX wil directed in writing otherwise.

EMAX LABORATORIES, INC.

REFERENCE: EMAX-SM02 Rev. 12

SAMPLE RECEIPT FORM 1

Type of Delivery	Airbill / Tracking Number	ECN 24J168
☒ Fedex ☐ UPS ☐ GSO ☐ Others	7795 0443 6633	Recipient Maria Rivera
☐ EMAX Courier ☐ Client Delivery		Date 10/28/24 Time 9:48

COC INSPECTION

☒ Client Name	☒ Client PM/FC	☒ Sampler Name	☒ Sampling Date/Time	☒ Sample ID	☒ Matrix
☐ Address	☒ Tel # / Fax #	☐ Courier Signature	☒ Analysis Required	☒ Preservative (if any)	☒ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required		

Note: _____

PACKAGING INSPECTION

Container	☒ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☐ Intact	☐ Damaged		
Packaging	☒ Bubble Pack	☐ Styrofoam	☐ Popcorn	☐ Sufficient	☒ bag
Temperatures (Cool, ≤6 °C but not frozen)	☒ Cooler 1 3.3 °C	☐ Cooler 2 ____ °C	☐ Cooler 3 ____ °C	☐ Cooler 4 ____ °C	☐ Cooler 5 ____ °C
	☐ Cooler 6 ____ °C	☐ Cooler 7 ____ °C	☐ Cooler 8 ____ °C	☐ Cooler 9 ____ °C	☐ Cooler 10 ____ °C
Thermometer:	*A - S/N* 240412221	*B - S/N* ____	*C - S/N* ____	*D - S/N* 230044057	

Comments: ☐ Temperature is out of range. PM was informed IMMEDIATELY.

Note: _____

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
5	13	D3	Label reads: T1AM-MW043_OCT24	R1
1-18	1-60	D1/D16		R1, R8
			JSR 10/28	

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time. DF 10/28/24

NOTES/OBSERVATIONS: Trip Blanks are logged under SDG 24J169.

SAMPLE MATRIX IS DRINKING WATER? ☐ YES ☒ NO

LEGEND:

☐ Continue to next page.

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Sample Management
(D1)	Analysis is not indicated in label	D13	Out of Holding Time	(R1)	Proceed as indicated in ☒ COC ☐ Label
D2	Analysis mismatch COC vs label	D14	Bubble is >6mm	R2	Refer to attached instruction
(D3)	Sample ID mismatch COC vs label	D15	No trip blank in cooler	R3	Cancel the analysis
D4	Sample ID is not indicated in ____	(D16)	Preservation not indicated in label	R4	Use vial with smallest bubble first
D5	Container -[improper] [leaking] [broken]	D17	Preservation mismatch COC vs label	R5	Log-in with latest sampling date and time+1 min
D6	Date/Time is not indicated in ____	D18	Insufficient chemical preservative	R6	Adjust pH as necessary
D7	Date/Time mismatch COC vs label	D19	Insufficient Sample	R7	Filter and preserved as necessary
D8	Sample listed in COC is not received	D20	No filtration info for dissolved analysis	(R8)	per SRF2
D9	Sample received is not listed in COC	D21	No sample for moisture determination	R9	
D10	No initial/date on corrections in COC/label	D22		R10	
D11	Container count mismatch COC vs received	D23		R11	
D12	Container size mismatch COC vs received	D24		R12	

REVIEWS:

Sample Labeling: Maria Rivera / Jocelyne Solis-Ramos
Date: 10/28/24 / 10/20/24

SRF: Jocelyne Solis-Ramos
Date: 10/20/24

PM: DF
Date: 10/28/24

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than LOQ/RL but greater than LOD/MDL/DL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

SUMMARY PACKAGE
VOLATILE ORGANICS

CASE NARRATIVE

Client : PARSONS

Project: TITAN 1-A

SDG : 24J168

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

A total of eighteen(18) water samples were received on 10/28/24 to be analyzed for Volatile Organics by GC/MS in accordance with Method SW5030C/8260C and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. For this SDG, the following were noted: O-Xylene was detected biased high(%D=36.2) in CCV(data file ID RKV027). However, note that O-Xylene was not detected in the associated field sample(s). O-Xylene was detected biased high(%D=62.7) in closing CCV(data file ID RKV050). Therefore, 2 additional closing CCVs (RKV051, 052) were analyzed. O-xylene was within criteria on the additional closing CCVs. However, note that the analytes in question were not detected in any of the associated field samples. O-Xylene was detected biased high(%D=67.3) in CCV(data file ID RKV069). However, note that the analytes in question were not detected in any of the associated field samples. Target analytes in closing CCV(Datafile ID:RKV090) were within calibration acceptance criteria.Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, two(2) method blanks were analyzed. VO01K02B and VO01K04B were compliant to project requirement. Refer to sample result summary forms for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, two(2) sets of LCS/LCD were analyzed. Lab control sample was prepared and analyzed at a frequency required by the project. All analytes were within LCS limits except for: VO01K02L/VO01K02C and VO01K04L/VO01K04C - Percent recovery for O-Xylene in LCS (VO01K04L) was high biased; however associated LCSD was within limits. O-xylene was not detected in associated samples. The rest of the analytes were in control. Refer to LCS summary forms for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed and the following were noted: 24J168-06M/24J168-06S - Percent recovery and RPD for O-Xylene was not within MS/MSD QC limits. Percent recovery for Trichloroethene(7X) was not within MS/MSD QC limits, due to high sample concentration. Note that RPD was within

limits. The enclosed value(#X) is the ratio of parent sample result and spike amount. The rest of the analytes were in control. Refer to Matrix QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. For this SDG, all surrogate recoveries were within QC limits except for 1,2-Dichloroethane-D4 in J168-03 was biased slightly high. Other surrogates were within limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : TITAN 1-A

SDG NO. : 24J168
Instrument ID : 01

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1W	V001K02L	1	NA	11/04/2417:58	11/04/2417:58	RKV028	RJV302	V001K02	Lab Control Sample (LCS)
LCD1W	V001K02C	1	NA	11/04/2418:27	11/04/2418:27	RKV029	RJV302	V001K02	LCS Duplicate
MBLK1W	V001K02B	1	NA	11/04/2419:26	11/04/2419:26	RKV031	RJV302	V001K02	Method Blank
T1AMF-MW042_OCT24	24J168-07	1	NA	11/04/2422:49	11/04/2422:49	RKV038	RJV302	V001K02	Field Sample
T1AMF-MW046_OCT24	24J168-08	1	NA	11/04/2423:17	11/04/2423:17	RKV039	RJV302	V001K02	Field Sample
T1AMF-MW056_OCT24	24J168-09	1	NA	11/04/2423:46	11/04/2423:46	RKV040	RJV302	V001K02	Field Sample
T1AMF-MW056_OCT24_FD	24J168-10	1	NA	11/05/2400:15	11/05/2400:15	RKV041	RJV302	V001K02	Field Sample
T1AMF-MW049_OCT24	24J168-11	1	NA	11/05/2400:43	11/05/2400:43	RKV042	RJV302	V001K02	Field Sample
T1AMF-MW051_OCT24	24J168-12	1	NA	11/05/2401:12	11/05/2401:12	RKV043	RJV302	V001K02	Field Sample
T1AMF-MW029_OCT24	24J168-13	1	NA	11/05/2401:41	11/05/2401:41	RKV044	RJV302	V001K02	Field Sample
T1AMF-EW01_OCT24	24J168-14	1	NA	11/05/2402:09	11/05/2402:09	RKV045	RJV302	V001K02	Field Sample
T1AMF-MW045_OCT24	24J168-15	1	NA	11/05/2402:38	11/05/2402:38	RKV046	RJV302	V001K02	Field Sample
T1AMF-EB001_OCT24	24J168-16	1	NA	11/05/2403:07	11/05/2403:07	RKV047	RJV302	V001K02	Field Sample
T1AMF-EB002_OCT24	24J168-17	1	NA	11/05/2403:36	11/05/2403:36	RKV048	RJV302	V001K02	Field Sample
T1AMF-SB001_OCT24	24J168-18	1	NA	11/05/2404:05	11/05/2404:05	RKV049	RJV302	V001K02	Field Sample
LCS2W	V001K04L	1	NA	11/06/2408:40	11/06/2408:40	RKV070	RJV302	V001K04	Lab Control Sample (LCS)
LCD2W	V001K04C	1	NA	11/06/2409:09	11/06/2409:09	RKV071	RJV302	V001K04	LCS Duplicate
MBLK2W	V001K04B	1	NA	11/06/2410:08	11/06/2410:08	RKV073	RJV302	V001K04	Method Blank
T1AMF-MW044_OCT24	24J168-06	1	NA	11/06/2411:36	11/06/2411:36	RKV076	RJV302	V001K04	Field Sample
T1AMF-MW050_OCT24	24J168-01	1	NA	11/06/2412:05	11/06/2412:05	RKV077	RJV302	V001K04	Field Sample
T1AMF-MW050_OCT24_FD	24J168-02	1	NA	11/06/2412:35	11/06/2412:35	RKV078	RJV302	V001K04	Field Sample
T1AMF-MW022_OCT24	24J168-03	1	NA	11/06/2413:05	11/06/2413:05	RKV079	RJV302	V001K04	Field Sample
T1AMF-MW047_OCT24	24J168-04	1	NA	11/06/2413:35	11/06/2413:35	RKV080	RJV302	V001K04	Field Sample
T1AMF-MW043_OCT24	24J168-05	1	NA	11/06/2414:04	11/06/2414:04	RKV081	RJV302	V001K04	Field Sample
T1AMF-MW046_OCT24	24J168-08I	5	NA	11/06/2414:34	11/06/2414:34	RKV082	RJV302	V001K04	Diluted Sample
T1AMF-EW01_OCT24	24J168-14I	25	NA	11/06/2415:04	11/06/2415:04	RKV083	RJV302	V001K04	Diluted Sample
T1AMF-MW045_OCT24	24J168-15I	10	NA	11/06/2415:34	11/06/2415:34	RKV084	RJV302	V001K04	Diluted Sample
T1AMF-MW044_OCT24MS	24J168-06M	1	NA	11/06/2417:33	11/06/2417:33	RKV088	RJV302	V001K04	Matrix Spike Sample (MS)
T1AMF-MW044_OCT24MSD	24J168-06S	1	NA	11/06/2418:03	11/06/2418:03	RKV089	RJV302	V001K04	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 08:47
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 12:05
Sample ID	: T1AMF-MW050_OCT24	Date Analyzed:	11/06/24 12:05
Lab Samp ID:	24J168-01	Dilution Factor:	1
Lab File ID:	RKV077	Matrix:	WATER
Ext Btch ID:	VO01K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	0.80J	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.19J	1.0	0.10	0.20
Trichloroethene	21	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.4	10.0	114	81-118
4-Bromofluorobenzene	9.52	10.0	95	85-114
Toluene-d8	10.1	10.0	101	89-112
Dibromofluoromethane	11.4	10.0	114	80-119

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: DNguye	Analyzed by	: DNguye

Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 08:52
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 12:35
Sample ID	: T1AMF-MW050_OCT24_FD	Date Analyzed:	11/06/24 12:35
Lab Samp ID:	24J168-02	Dilution Factor:	1
Lab File ID:	RKV078	Matrix:	WATER
Ext Btch ID:	V001K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	0.79J	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	22	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.8	10.0	108	81-118
4-Bromofluorobenzene	9.72	10.0	97	85-114
Toluene-d8	10.3	10.0	103	89-112
Dibromofluoromethane	11.2	10.0	112	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 08:50
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 13:05
Sample ID	: T1AMF-MW022_OCT24	Date Analyzed:	11/06/24 13:05
Lab Samp ID:	24J168-03	Dilution Factor:	1
Lab File ID:	RKV079	Matrix:	WATER
Ext Btch ID:	VO01K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	2.2	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	89	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	12.2	10.0	122*	81-118
4-Bromofluorobenzene	9.46	10.0	95	85-114
Toluene-d8	10.1	10.0	101	89-112
Dibromofluoromethane	11.8	10.0	118	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 09:41
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 13:35
Sample ID	: T1AMF-MW047_OCT24	Date Analyzed:	11/06/24 13:35
Lab Samp ID:	24J168-04	Dilution Factor:	1
Lab File ID:	RKV080	Matrix:	WATER
Ext Btch ID:	V001K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	1.4	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.40J	1.0	0.10	0.20
Trichloroethene	26	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.3	10.0	113	81-118
4-Bromofluorobenzene	9.66	10.0	97	85-114
Toluene-d8	10.4	10.0	104	89-112
Dibromofluoromethane	11.1	10.0	111	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 09:55
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 14:04
Sample ID	: T1AMF-MW043_OCT24	Date Analyzed:	11/06/24 14:04
Lab Samp ID:	24J168-05	Dilution Factor:	1
Lab File ID:	RKV081	Matrix:	WATER
Ext Btch ID:	VO01K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	2.5	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.17J	1.0	0.10	0.20
Trichloroethene	44	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.6	10.0	116	81-118
4-Bromofluorobenzene	9.83	10.0	98	85-114
Toluene-d8	10.3	10.0	103	89-112
Dibromofluoromethane	11.2	10.0	112	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 10:34
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 11:36
Sample ID	: T1AMF-MW044_OCT24	Date Analyzed:	11/06/24 11:36
Lab Samp ID:	24J168-06	Dilution Factor:	1
Lab File ID:	RKV076	Matrix:	WATER
Ext Btch ID:	VO01K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	2.9	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.25J	1.0	0.10	0.20
Trichloroethene	71	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.6	10.0	116	81-118
4-Bromofluorobenzene	9.47	10.0	95	85-114
Toluene-d8	10.3	10.0	103	89-112
Dibromofluoromethane	11.6	10.0	116	80-119

Notes:

Sample Amount	: 25ml	Final Volume :	25ml
Prepared by	: DNguye	Analyzed by :	DNguye

Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 10:50
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/04/24 22:49
Sample ID	: T1AMF-MW042_OCT24	Date Analyzed:	11/04/24 22:49
Lab Samp ID:	24J168-07	Dilution Factor:	1
Lab File ID:	RKV038	Matrix:	WATER
Ext Btch ID:	VOO1K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	1.8	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	57	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.4	10.0	104	81-118
4-Bromofluorobenzene	9.87	10.0	99	85-114
Toluene-d8	10.8	10.0	108	89-112
Dibromofluoromethane	10.9	10.0	109	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 11:34
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/04/24 23:17 # 11/06/24 14:34
Sample ID	: T1AMF-MW046_OCT24	Date Analyzed:	11/04/24 23:17 # 11/06/24 14:34
Lab Samp ID:	J168-08 #J168-08I	Dilution Factor:	1 # 5
Lab File ID:	RKV039 #RKV082	Matrix:	WATER
Ext Btch ID:	V001K02 #V001K04	% Moisture:	NA
Calib. Ref.:	RJV302 #RJV302	Instrument ID:	01 # 01

	PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
	1,1-Dichloroethene	ND	1.0	0.10	0.20
	1,4-Dichlorobenzene	ND	1.0	0.10	0.20
	Benzene	ND	1.0	0.10	0.20
	cis-1,2-Dichloroethene	4.0	1.0	0.10	0.20
	Ethylbenzene	ND	1.0	0.10	0.20
	m,p-Xylene	ND	2.0	0.21	0.50
	o-Xylene	ND	1.0	0.10	0.20
	Toluene	ND	1.0	0.10	0.20
	Trans-1,2-Dichloroethene	0.18J	1.0	0.10	0.20
#	Trichloroethene	160	5.0	0.50	1.0
	Vinyl Chloride	ND	1.0	0.11	0.30

	SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
	1,2-Dichloroethane-d4	10.8	10.0	108	81-118
	4-Bromofluorobenzene	10.0	10.0	100	85-114
	Toluene-d8	10.7	10.0	107	89-112
	Dibromofluoromethane	11.0	10.0	110	80-119
#	1,2-Dichloroethane-d4	57.2	50.0	114	81-118
#	4-Bromofluorobenzene	48.0	50.0	96	85-114
#	Toluene-d8	53.1	50.0	106	89-112
#	Dibromofluoromethane	56.2	50.0	112	80-119

Result(s) associated as marked on the header

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: DNguye	Analyzed by	: DNguye
# Sample Amount	: 5.0ml	Final Volume	: 25ml
# Prepared by	: DNguye	Analyzed by	: DNguye

Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 11:34
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/04/24 23:17
Sample ID	: T1AMF-MW046_OCT24	Date Analyzed:	11/04/24 23:17
Lab Samp ID:	24J168-08	Dilution Factor:	1
Lab File ID:	RKV039	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	4.0	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.18J	1.0	0.10	0.20
Trichloroethene	160E	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.8	10.0	108	81-118
4-Bromofluorobenzene	10.0	10.0	100	85-114
Toluene-d8	10.7	10.0	107	89-112
Dibromofluoromethane	11.0	10.0	110	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 11:34
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 14:34
Sample ID	: T1AMF-MW046_OCT24	Date Analyzed:	11/06/24 14:34
Lab Samp ID:	24J168-08I	Dilution Factor:	5
Lab File ID:	RKV082	Matrix:	WATER
Ext Btch ID:	V001K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	5.0	0.50	1.0
1,4-Dichlorobenzene	ND	5.0	0.50	1.0
Benzene	ND	5.0	0.50	1.0
cis-1,2-Dichloroethene	3.6J	5.0	0.50	1.0
Ethylbenzene	ND	5.0	0.50	1.0
m,p-Xylene	ND	10	1.0	2.5
o-Xylene	ND	5.0	0.50	1.0
Toluene	ND	5.0	0.50	1.0
Trans-1,2-Dichloroethene	ND	5.0	0.50	1.0
Trichloroethene	160	5.0	0.50	1.0
Vinyl Chloride	ND	5.0	0.55	1.5

SURROGATE PARAMETER(S)	RESULT	SPK AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	57.2	50.0	114	81-118
4-Bromofluorobenzene	48.0	50.0	96	85-114
Toluene-d8	53.1	50.0	106	89-112
Dibromofluoromethane	56.2	50.0	112	80-119

Notes:
Sample Amount : 5.0ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 12:05
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/04/24 23:46
Sample ID	: T1AMF-MW056_OCT24	Date Analyzed:	11/04/24 23:46
Lab Samp ID:	24J168-09	Dilution Factor:	1
Lab File ID:	RKV040	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	7.9	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.3	10.0	103	81-118
4-Bromofluorobenzene	9.86	10.0	99	85-114
Toluene-d8	10.6	10.0	106	89-112
Dibromofluoromethane	10.7	10.0	107	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 12:10
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 00:15
Sample ID	: T1AMF-MW056_OCT24_FD	Date Analyzed:	11/05/24 00:15
Lab Samp ID:	24J168-10	Dilution Factor:	1
Lab File ID:	RKV041	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	8.1	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.9	10.0	109	81-118
4-Bromofluorobenzene	9.77	10.0	98	85-114
Toluene-d8	10.6	10.0	106	89-112
Dibromofluoromethane	11.1	10.0	111	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 12:31
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 00:43
Sample ID	: T1AMF-MW049_OCT24	Date Analyzed:	11/05/24 00:43
Lab Samp ID:	24J168-11	Dilution Factor:	1
Lab File ID:	RKV042	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	1.6	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	89	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.7	10.0	107	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	10.7	10.0	107	89-112
Dibromofluoromethane	10.9	10.0	109	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 13:08
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 01:12
Sample ID	: T1AMF-MW051_OCT24	Date Analyzed:	11/05/24 01:12
Lab Samp ID:	24J168-12	Dilution Factor:	1
Lab File ID:	RKV043	Matrix:	WATER
Ext Btch ID:	V001K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	0.14J	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	16	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.3	10.0	113	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	10.7	10.0	107	89-112
Dibromofluoromethane	11.0	10.0	110	80-119

Notes:

Sample Amount	: 25ml	Final Volume :	25ml
Prepared by	: DNguye	Analyzed by :	DNguye

Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 13:10
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 01:41
Sample ID	: T1AMF-MW029_OCT24	Date Analyzed:	11/05/24 01:41
Lab Samp ID:	24J168-13	Dilution Factor:	1
Lab File ID:	RKV044	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	1.9	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	47	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.1	10.0	111	81-118
4-Bromofluorobenzene	9.99	10.0	100	85-114
Toluene-d8	10.8	10.0	108	89-112
Dibromofluoromethane	10.9	10.0	109	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 10/24/24 14:04
Project : TITAN 1-A	Date Received: 10/28/24
Batch No. : 24J168	Date Extracted: 11/05/24 02:09 # 11/06/24 15:04
Sample ID : T1AMF-EW01_OCT24	Date Analyzed: 11/05/24 02:09 # 11/06/24 15:04
Lab Samp ID: J168-14 #J168-14I	Dilution Factor: 1 # 25
Lab File ID: RKV045 #RKV083	Matrix: WATER
Ext Btch ID: V001K02 #V001K04	% Moisture: NA
Calib. Ref.: RJV302 #RJV302	Instrument ID: 01 # 01

	PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
	1,1-Dichloroethene	ND	1.0	0.10	0.20
	1,4-Dichlorobenzene	ND	1.0	0.10	0.20
	Benzene	ND	1.0	0.10	0.20
	cis-1,2-Dichloroethene	18	1.0	0.10	0.20
	Ethylbenzene	ND	1.0	0.10	0.20
	m,p-Xylene	ND	2.0	0.21	0.50
	o-Xylene	ND	1.0	0.10	0.20
	Toluene	ND	1.0	0.10	0.20
	Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
#	Trichloroethene	450	25	2.5	5.0
	Vinyl Chloride	ND	1.0	0.11	0.30

	SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
	1,2-Dichloroethane-d4	11.2	10.0	112	81-118
	4-Bromofluorobenzene	10.1	10.0	101	85-114
	Toluene-d8	10.6	10.0	106	89-112
	Dibromofluoromethane	11.1	10.0	111	80-119
#	1,2-Dichloroethane-d4	284	250	113	81-118
#	4-Bromofluorobenzene	251	250	100	85-114
#	Toluene-d8	264	250	105	89-112
#	Dibromofluoromethane	284	250	114	80-119

Result(s) associated as marked on the header

Notes:

	Sample Amount : 25ml	Final Volume : 25ml	
	Prepared by : DNguye	Analyzed by : DNguye	
#	Sample Amount : 1.0ml	Final Volume : 25ml	
#	Prepared by : DNguye	Analyzed by : DNguye	

Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 14:04
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 02:09
Sample ID	: T1AMF-EW01_OCT24	Date Analyzed:	11/05/24 02:09
Lab Samp ID:	24J168-14	Dilution Factor:	1
Lab File ID:	RKV045	Matrix:	WATER
Ext Btch ID:	V001K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	18	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	420E	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.2	10.0	112	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	10.6	10.0	106	89-112
Dibromofluoromethane	11.1	10.0	111	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 14:04
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 15:04
Sample ID	: T1AMF-EW01_OCT24	Date Analyzed:	11/06/24 15:04
Lab Samp ID:	24J168-14I	Dilution Factor:	25
Lab File ID:	RKV083	Matrix:	WATER
Ext Btch ID:	VO01K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	25	2.5	5.0
1,4-Dichlorobenzene	ND	25	2.5	5.0
Benzene	ND	25	2.5	5.0
cis-1,2-Dichloroethene	17J	25	2.5	5.0
Ethylbenzene	ND	25	2.5	5.0
m,p-Xylene	ND	50	5.2	12
o-Xylene	ND	25	2.5	5.0
Toluene	ND	25	2.5	5.0
Trans-1,2-Dichloroethene	ND	25	2.5	5.0
Trichloroethene	450	25	2.5	5.0
Vinyl Chloride	ND	25	2.8	7.5

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	284	250	113	81-118
4-Bromofluorobenzene	251	250	100	85-114
Toluene-d8	264	250	105	89-112
Dibromofluoromethane	284	250	114	80-119

Notes:
Sample Amount : 1.0ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 14:05
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 02:38 # 11/06/24 15:34
Sample ID	: T1AMF-MW045_OCT24	Date Analyzed:	11/05/24 02:38 # 11/06/24 15:34
Lab Samp ID:	J168-15 #J168-15I	Dilution Factor:	1 # 10
Lab File ID:	RKV046 #RKV084	Matrix:	WATER
Ext Btch ID:	V001K02 #V001K04	% Moisture:	NA
Calib. Ref.:	RJV302 #RJV302	Instrument ID:	01 # 01

	PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
	1,1-Dichloroethene	ND	1.0	0.10	0.20
	1,4-Dichlorobenzene	ND	1.0	0.10	0.20
	Benzene	ND	1.0	0.10	0.20
	cis-1,2-Dichloroethene	9.4	1.0	0.10	0.20
	Ethylbenzene	ND	1.0	0.10	0.20
	m,p-Xylene	ND	2.0	0.21	0.50
	o-Xylene	ND	1.0	0.10	0.20
	Toluene	ND	1.0	0.10	0.20
	Trans-1,2-Dichloroethene	0.46J	1.0	0.10	0.20
#	Trichloroethene	310	10	1.0	2.0
	Vinyl Chloride	ND	1.0	0.11	0.30

	SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
	1,2-Dichloroethane-d4	10.6	10.0	106	81-118
	4-Bromofluorobenzene	10.1	10.0	101	85-114
	Toluene-d8	10.9	10.0	109	89-112
	Dibromofluoromethane	10.8	10.0	108	80-119
#	1,2-Dichloroethane-d4	115	100	115	81-118
#	4-Bromofluorobenzene	97.7	100	98	85-114
#	Toluene-d8	103	100	103	89-112
#	Dibromofluoromethane	115	100	115	80-119

Result(s) associated as marked on the header

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: DNguye	Analyzed by	: DNguye
# Sample Amount	: 2.5ml	Final Volume	: 25ml
# Prepared by	: DNguye	Analyzed by	: DNguye

Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 14:05
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 02:38
Sample ID	: T1AMF-MW045_OCT24	Date Analyzed:	11/05/24 02:38
Lab Samp ID:	24J168-15	Dilution Factor:	1
Lab File ID:	RKV046	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	9.4	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.46J	1.0	0.10	0.20
Trichloroethene	310E	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.6	10.0	106	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	10.9	10.0	109	89-112
Dibromofluoromethane	10.8	10.0	108	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 14:05
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 15:34
Sample ID	: T1AMF-MW045_OCT24	Date Analyzed:	11/06/24 15:34
Lab Samp ID:	24J168-15I	Dilution Factor:	10
Lab File ID:	RKV084	Matrix:	WATER
Ext Btch ID:	VO01K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	10	1.0	2.0
1,4-Dichlorobenzene	ND	10	1.0	2.0
Benzene	ND	10	1.0	2.0
cis-1,2-Dichloroethene	8.5J	10	1.0	2.0
Ethylbenzene	ND	10	1.0	2.0
m,p-Xylene	ND	20	2.1	5.0
o-Xylene	ND	10	1.0	2.0
Toluene	ND	10	1.0	2.0
Trans-1,2-Dichloroethene	ND	10	1.0	2.0
Trichloroethene	310	10	1.0	2.0
Vinyl Chloride	ND	10	1.1	3.0

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	115	100	115	81-118
4-Bromofluorobenzene	97.7	100	98	85-114
Toluene-d8	103	100	103	89-112
Dibromofluoromethane	115	100	115	80-119

Notes:
Sample Amount : 2.5ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 14:10
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 03:07
Sample ID	: T1AMF-EB001_OCT24	Date Analyzed:	11/05/24 03:07
Lab Samp ID:	24J168-16	Dilution Factor:	1
Lab File ID:	RKV047	Matrix:	WATER
Ext Btch ID:	V001K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.9	10.0	109	81-118
4-Bromofluorobenzene	9.97	10.0	100	85-114
Toluene-d8	10.7	10.0	107	89-112
Dibromofluoromethane	11.0	10.0	110	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 14:30
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 03:36
Sample ID	: T1AMF-EB002_OCT24	Date Analyzed:	11/05/24 03:36
Lab Samp ID:	24J168-17	Dilution Factor:	1
Lab File ID:	RKV048	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.3	10.0	113	81-118
4-Bromofluorobenzene	9.93	10.0	99	85-114
Toluene-d8	10.5	10.0	105	89-112
Dibromofluoromethane	11.3	10.0	113	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 15:00
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 04:05
Sample ID	: T1AMF-SB001_OCT24	Date Analyzed:	11/05/24 04:05
Lab Samp ID:	24J168-18	Dilution Factor:	1
Lab File ID:	RKV049	Matrix:	WATER
Ext Btch ID:	V001K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.6	10.0	106	81-118
4-Bromofluorobenzene	10.0	10.0	100	85-114
Toluene-d8	10.5	10.0	105	89-112
Dibromofluoromethane	10.7	10.0	107	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

QC SUMMARIES

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	11/04/24 19:26
Project	: TITAN 1-A	Date Received:	11/04/24
Batch No.	: 24J168	Date Extracted:	11/04/24 19:26
Sample ID	: MBLK1W	Date Analyzed:	11/04/24 19:26
Lab Samp ID:	VO01K02B	Dilution Factor:	1
Lab File ID:	RKV031	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	8.91	10.0	89	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	10.9	10.0	109	89-112
Dibromofluoromethane	10.3	10.0	103	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J168
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: VO01K02B	VO01K02L	VO01K02C
LAB FILE ID	: RKV031	RKV028	RKV029
DATE PREPARED	: 11/04/24 19:26	11/04/24 17:58	11/04/24 18:27
DATE ANALYZED	: 11/04/24 19:26	11/04/24 17:58	11/04/24 18:27
PREP BATCH	: VO01K02	VO01K02	VO01K02
CALIBRATION REF	: RJV302	RJV302	RJV302

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichloroethene	ND	10.0	9.72	97	10.0	10.0	100	3	71-131	20
1,4-Dichlorobenzene	ND	10.0	10.8	108	10.0	11.3	113	5	79-118	20
Benzene	ND	10.0	10.8	108	10.0	11.0	110	2	79-120	20
cis-1,2-Dichloroethene	ND	10.0	10.9	109	10.0	11.4	114	4	78-123	20
Ethylbenzene	ND	10.0	11.0	110	10.0	11.1	111	1	79-121	20
m,p-Xylene	ND	20.0	20.4	102	20.0	20.8	104	2	80-121	20
o-Xylene	ND	10.0	10.8	108	10.0	11.9	119	10	78-122	20
Toluene	ND	10.0	10.1	101	10.0	11.1	111	9	80-121	20
Trans-1,2-Dichloroethene	ND	10.0	9.91	99	10.0	10.1	101	2	75-124	20
Trichloroethene	ND	10.0	10.9	109	10.0	11.5	115	5	79-123	20
Vinyl Chloride	ND	10.0	9.50	95	10.0	10.0	100	5	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	9.38	94	10.0	9.37	94	81-118
4-Bromofluorobenzene	10.0	9.21	92	10.0	9.77	98	85-114
Toluene-d8	10.0	9.30	93	10.0	10.4	104	89-112
Dibromofluoromethane	10.0	10.3	103	10.0	10.5	105	80-119

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	11/06/24 10:08
Project	: TITAN 1-A	Date Received:	11/06/24
Batch No.	: 24J168	Date Extracted:	11/06/24 10:08
Sample ID	: MBLK2W	Date Analyzed:	11/06/24 10:08
Lab Samp ID:	V001K04B	Dilution Factor:	1
Lab File ID:	RKV073	Matrix:	WATER
Ext Btch ID:	V001K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	9.84	10.0	98	81-118
4-Bromofluorobenzene	9.73	10.0	97	85-114
Toluene-d8	10.5	10.0	105	89-112
Dibromofluoromethane	10.5	10.0	105	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J168
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK2W	LCS2W	LCD2W
LAB SAMPLE ID	: V001K04B	V001K04L	V001K04C
LAB FILE ID	: RKV073	RKV070	RKV071
DATE PREPARED	: 11/06/24 10:08	11/06/24 08:40	11/06/24 09:09
DATE ANALYZED	: 11/06/24 10:08	11/06/24 08:40	11/06/24 09:09
PREP BATCH	: V001K04	V001K04	V001K04
CALIBRATION REF	: RJV302	RJV302	RJV302

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichloroethene	ND	10.0	10.4	104	10.0	9.60	96	8	71-131	20
1,4-Dichlorobenzene	ND	10.0	11.0	110	10.0	10.7	107	3	79-118	20
Benzene	ND	10.0	10.5	105	10.0	10.3	103	2	79-120	20
cis-1,2-Dichloroethene	ND	10.0	10.9	109	10.0	10.6	106	3	78-123	20
Ethylbenzene	ND	10.0	11.0	110	10.0	10.4	104	6	79-121	20
m,p-Xylene	ND	20.0	20.9	105	20.0	19.2	96	8	80-121	20
o-Xylene	ND	10.0	13.4	134*	10.0	10.5	105	24*	78-122	20
Toluene	ND	10.0	10.8	108	10.0	8.66	87	22*	80-121	20
Trans-1,2-Dichloroethene	ND	10.0	10.2	102	10.0	9.83	98	4	75-124	20
Trichloroethene	ND	10.0	11.7	117	10.0	11.3	113	3	79-123	20
Vinyl Chloride	ND	10.0	10.7	107	10.0	9.11	91	16	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	10.2	102	10.0	9.44	94	81-118
4-Bromofluorobenzene	10.0	9.70	97	10.0	9.55	96	85-114
Toluene-d8	10.0	10.0	100	10.0	8.42	84*	89-112
Dibromofluoromethane	10.0	10.8	108	10.0	10.5	105	80-119

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate
* Out of QC Limit

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J168
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: T1AMF-MW044_OCT24	T1AMF-MW044_OCT24MS	T1AMF-MW044_OCT24MSD
LAB SAMPLE ID	: 24J168-06	24J168-06M	24J168-06S
LAB FILE ID	: RKV076	RKV088	RKV089
DATE PREPARED	: 11/06/24 11:36	11/06/24 17:33	11/06/24 18:03
DATE ANALYZED	: 11/06/24 11:36	11/06/24 17:33	11/06/24 18:03
PREP BATCH	: V001K04	V001K04	V001K04
CALIBRATION REF	: RJV302	RJV302	RJV302

ACCESSION:

PARAMETERS	PSResult (ug/L)	SpikeAmt (ug/L)	MSResult (ug/L)	MSRec (%)	SpikeAmt (ug/L)	MSDResult (ug/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichloroethene	ND	10.0	9.60	96	10.0	9.64	96	0	71-131	20
1,4-Dichlorobenzene	ND	10.0	10.5	105	10.0	10.1	101	4	79-118	20
Benzene	ND	10.0	10.5	105	10.0	10.7	107	2	79-120	20
cis-1,2-Dichloroethene	2.92	10.0	13.5	106	10.0	13.4	105	1	78-123	20
Ethylbenzene	ND	10.0	10.8	108	10.0	10.4	104	4	79-121	20
m,p-Xylene	ND	20.0	20.3	102	20.0	19.3	97	5	80-121	20
o-Xylene	ND	10.0	16.2	162*	10.0	12.3	123*	27*	78-122	20
Toluene	ND	10.0	10.7	107	10.0	10.2	102	5	80-121	20
trans-1,2-Dichloroethene	0.253J	10.0	10.0	97	10.0	10.1	98	1	75-124	20
Trichloroethene	71.0	10.0	72.5	15*	10.0	72.0	10*	1	79-123	20
Vinyl chloride	ND	10.0	10.2	102	10.0	9.48	95	7	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	MSResult (ug/L)	MSRec (%)	SpikeAmt (ug/L)	MSDResult (ug/L)	MSDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	11.3	113	10.0	11.0	110	81-118
4-Bromofluorobenzene	10.0	9.51	95	10.0	9.55	96	85-114
Toluene-d8	10.0	10.4	104	10.0	10.0	100	89-112
Dibromofluoromethane	10.0	11.4	114	10.0	11.0	110	80-119

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate
* Out of QC Limit

INITIAL CALIBRATIONS

FORM 5

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : ICAL

Lab Code : EMAX SDG No : ICAL

Lab File ID: RJV296 BFB Injection Date: 10/12/24

Instrument ID: 01 BFB Injection Time: 12:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	20.245
75	30 - 60% of mass 95	42.693
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	6.659
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	68.470
175	5 - 9% of mass 174	3.843(5.61)1
176	95 - 101% % of mass 174	66.756(97.5)1
177	5 - 9% % of mass 176	3.550(5.32)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following Calibration Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	VO01J121	RJV297	10/12/24	13:38
2	VSTD0.5	VO01J122	RJV298	10/12/24	14:08
3	VSTD1	VO01J123	RJV299	10/12/24	14:39
4	VSTD2	VO01J124	RJV300	10/12/24	15:09
5	VSTD5	VO01J125	RJV301	10/12/24	15:39
6	VSTD10	VO01J126	RJV302	10/12/24	16:08
7	VSTD20	VO01J127	RJV303	10/12/24	16:38
8	VSTD50	VO01J128	RJV304	10/12/24	17:08
9	VSTD30	VO01J129	RJV305	10/12/24	17:38
10	VSTD100	VO01J1210	RJV306	10/12/24	18:07
11	VSTD10	IVO01J1201	RJV309	10/12/24	19:36

10/30/24

Instrument ID :01
Beginning DateTime :10/12/24 13:38
Spike Units :PPB
IC File :RJV302

Column Spec :RXI-624SILMS ID :0.25MM
Ending DateTime :10/12/24 18:07
HPChem Method :VO01J12

M	IDX	Parameters	.3 13:38 RJV297	.5 14:08 RJV298	1 14:39 RJV299	2 15:09 RJV300	5 15:39 RJV301	10 16:08 RJV302	20 16:38 RJV303	30 17:38 RJV305	50 17:08 RJV304	100 18:07 RJV306	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	8.5435
	2	Chlorotrifluoroethylene	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	3	Dichlorodifluoromethane	0.346	0.383	0.455	0.425	0.471	0.456	0.437	0.412	0.371	0.351	0.411	11.08	2.2475
	4	2-Chloro-1,1,1-trifluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	5	Chloromethane	0.224	0.310	0.353	0.332	0.358	0.341	0.319	0.319	0.276	0.268	0.310	13.65	2.5594
	6	Vinyl chloride	0.195	0.242	0.294	0.299	0.315	0.296	0.287	0.295	0.251	0.261	0.273	13.19	2.6904
	7	Bromomethane	0.204	0.201	0.223	0.195	0.207	0.188	0.198	0.207	0.173	0.177	0.197	7.64	3.2326
	8	Chloroethane	------	0.175	0.213	0.211	0.221	0.216	0.210	0.232	0.192	0.193	0.207	8.38	3.2364
	9	Dichlorofluoromethane	0.332	0.484	0.387	0.387	0.405	0.310	0.363	0.366	0.439	0.334	0.380	13.69	3.3585
	10	Trichlorofluoromethane	------	0.422	0.472	0.475	0.495	0.479	0.459	0.444	0.391	0.366	0.445	9.80	3.6280
5	11	Acrolein	------	------	0.007	0.007	0.008	0.008	0.007	0.009	0.008	0.008	0.008	7.80	4.0240
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	0.154	0.180	0.195	0.199	0.198	0.177	0.190	0.199	0.173	0.168	0.183	8.51	4.1478
5	13	Acetone	------	------	------	0.039	0.039	0.038	0.035	0.036	0.034	------	0.037	6.03	4.0946
	14	1,1-Dichloroethene	0.433	0.475	0.520	0.515	0.497	0.442	0.464	0.482	0.425	0.413	0.467	8.08	4.2485
25	15	tert-Butyl alcohol	------	0.008	0.009	0.010	0.009	0.010	0.010	0.009	0.009	0.009	0.009	7.42	4.3734
	16	Iodomethane	0.342	0.364	0.437	0.434	0.425	0.373	0.404	0.427	0.377	0.381	0.396	8.42	4.6617
	17	Methyl acetate	------	------	------	0.112	0.089	0.099	0.083	0.094	------	------	0.095	11.58	4.6795
	18	Methylene chloride	0.311	0.350	0.385	0.369	0.353	0.312	0.327	0.345	0.303	0.308	0.336	8.38	4.8808
	19	Carbon disulfide	------	0.762	0.944	0.967	1.024	1.015	1.018	1.102	------	------	0.976	10.91	4.8974
5	20	Acrylonitrile	------	0.026	0.032	0.037	0.037	0.037	0.034	0.038	0.035	0.035	0.035	10.80	5.0579
	21	tert-Butyl methyl ether (MTBE)	0.351	0.414	0.498	0.521	0.510	0.475	0.478	0.489	0.449	0.436	0.462	11.13	5.0793
	22	trans-1,2-Dichloroethene	0.409	0.442	0.503	0.489	0.483	0.420	0.458	0.469	0.409	0.399	0.448	8.41	5.2644
	23	Isopropyl ether (DIPE)	0.827	0.913	1.055	1.025	1.016	0.885	0.932	0.998	0.887	0.845	0.938	8.58	5.6820
	24	Vinyl acetate	0.190	0.302	0.330	0.309	0.316	0.349	0.309	0.334	0.287	0.277	0.300	14.72	5.8464
	25	1,1-Dichloroethane	0.471	0.514	0.605	0.568	0.566	0.493	0.531	0.555	0.483	0.469	0.525	8.95	5.8360
25	26	2-Butanol	------	------	------	0.006	0.008	0.008	0.008	0.009	------	------	0.008	12.15	6.1781
	27	tert-Butyl ethyl ether (ETBE)	0.576	0.614	0.766	0.774	0.763	0.668	0.686	0.720	0.639	0.616	0.682	10.48	6.2477
5	28	2-Butanone	0.052	0.054	0.067	0.056	0.056	0.060	0.055	0.058	0.054	0.054	0.057	7.33	6.4417
	29	2,2-Dichloropropane	0.428	0.445	0.518	0.507	0.476	0.427	0.453	0.456	0.403	0.381	0.449	9.59	6.6297
	30	cis-1,2-Dichloroethene	0.285	0.311	0.360	0.344	0.344	0.303	0.327	0.344	0.302	0.297	0.322	7.93	6.6920
	31	Chloroform	0.555	0.551	0.631	0.590	0.566	0.490	0.523	0.526	0.478	0.445	0.535	10.32	6.9096
	32	Bromochloromethane	0.182	0.174	0.228	0.223	0.214	0.196	0.199	0.206	0.186	0.183	0.199	9.24	7.1510
	33	Tetrahydrofuran	------	------	0.031	0.032	0.039	0.031	0.029	0.031	0.030	0.029	0.031	10.36	7.2079
	34	Dibromofluoromethane	------	------	0.261	0.250	0.264	0.257	0.269	0.266	------	------	0.261	2.58	7.2265
	35	1,1,1-Trichloroethane	0.415	0.463	0.548	0.535	0.527	0.462	0.503	0.491	0.446	0.420	0.481	9.85	7.4946
	36	Cyclonexane	0.447	0.452	0.500	0.513	0.525	0.503	0.496	0.528	------	------	0.496	6.28	7.5172
	37	2,2,4-Trimethylpentane	------	------	------	0.023	0.025	0.024	0.023	0.025	------	------	0.024	5.03	7.5139
	38	1,1-Dichloropropene	0.125	0.137	0.158	0.152	0.157	0.139	0.151	0.160	0.140	0.137	0.146	7.96	7.7167
	39	Carbon tetrachloride	0.298	0.349	0.403	0.395	0.400	0.356	0.392	0.379	0.345	0.323	0.364	9.79	7.8722
	40	tert-Amyl methyl ether (TAME)	0.462	0.516	0.601	0.589	0.558	0.506	0.525	0.527	0.488	0.469	0.524	8.94	7.8914
	41	1,2-Dichloroethane-d4	------	------	0.227	0.227	0.235	0.237	0.236	0.219	------	------	0.230	3.01	7.9669
	42	Benzene	1.147	1.180	1.311	1.243	1.225	1.064	1.148	1.177	1.031	0.924	1.145	9.85	8.1239
	43	1,2-Dichloroethane	0.190	0.229	0.291	0.283	0.291	0.271	0.271	0.258	0.243	0.225	0.255	12.95	8.1002
	44	Trichloroethene	0.280	0.313	0.333	0.325	0.314	0.282	0.311	0.316	0.281	0.273	0.303	7.09	9.0632
	45	Methylcyclohexane	0.632	0.561	0.557	0.600	0.602	0.569	0.581	0.593	------	------	0.587	4.28	9.1484
	46	1,2-Dichloropropane	0.251	0.235	0.285	0.275	0.274	0.244	0.262	0.271	0.243	0.236	0.258	7.03	9.3431
	47	Bromodichloromethane	0.332	0.335	0.394	0.377	0.379	0.342	0.367	0.356	0.330	0.313	0.353	7.42	9.7148
20	48	1,4-Dioxane	------	------	------	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	14.16	9.7571
	49	Dibromomethane	0.091	0.103	0.131	0.125	0.121	0.113	0.115	0.113	0.106	0.101	0.112	10.72	9.8066
	50	2-Chloroethyl vinyl ether	------	------	0.005	0.010	0.014	0.017	0.019	0.022	0.022	------	0.016	39.29	10.2225
5	51	4-Methyl-2-pentanone	------	0.093	0.120	0.131	0.140	0.145	0.132	0.135	0.126	0.117	0.127	12.23	10.2611
	52	cis-1,3-Dichloropropene	0.295	0.356	0.420	0.404	0.415	0.385	0.422	0.419	0.384	0.363	0.386	10.37	10.6063
	53	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	13.6939
	54	Toluene-d8	------	------	1.423	1.446	1.443	1.342	1.199	1.399	------	------	1.375	6.87	11.0131
	55	Toluene	1.599	1.679	1.880	1.804	1.739	1.508	1.383	1.663	1.363	1.230	1.585	13.23	11.1483
	56	Ethyl methacrylate	------	0.158	0.214	0.240	0.251	0.254	0.213	0.258	0.229	0.228	0.227	13.58	11.4475
	57	trans-1,3-Dichloropropene	0.262	0.309	0.370	0.408	0.409	0.384	0.336	0.402	0.357	0.352	0.359	13.11	11.4682
	58	1,1,2-Trichloroethane	0.147	0.191	0.227	0.220	0.215	0.203	0.172	0.208	0.183	0.184	0.195	12.51	11.7318
5	59	2-Hexanone	------	------	0.078	0.104	0.113	0.110	0.094	0.115	0.105	0.101	0.104	12.75	11.7455
	60	1,3-Dichloropropane	0.286	0.335	0.407	0.421	0.396	0.373	0.374	0.390	0.356	0.339	0.368	10.91	12.1745
	61	Tetrachloroethene	0.356	0.356	0.377	0.376	0.362	0.315	0.338	0.347	0.306	0.292	0.343	8.52	12.2767
	62	Dibromochloromethane	0.201	0.226	0.230	0.245	0.246	0.238	0.238	0.247	0.230	0.223	0.232	6.04	12.6470
	63	1,2-Dibromoethane	0.135	0.168	0.193	0.197	0.204	0.193	0.195	0.200	0.187	0.177	0.185	11.07	13.0127
	64	1-Chlorohexane	0.748	0.745	0.830	0.804	0.791	0.687	0.745	0.767	0.675	0.612	0.740	8.90	13.2837
	65	Chlorobenzene	0.895	0.943	1.048	1.058	1.014	0.891	0.962	0.988	0.881	0.808	0.949	8.50	13.7620
	66	1,1,1,2-Tetrachloroethane	0.219	0.262	0.321	0.317	0.320	0.280	0.303	0.312	0.289	0.275	0.290	11.11	13.8435
	67	Ethylbenzene	1.926	1.945	2.180	2.149	2.060	1.793	1.884	1.875	1.616	1.325	1.875	13.61	13.8598
2	68	m-Xylene & p-Xylene	1.529	1.446	1.644	1.621	1.553	1.311	1.375	1.370	------	------	1.481	8.36	13.9964
	69	o-Xylene	1.422	1.449	1.670	1.651	1.728	1.561	1.405	1.424	1.241	1.076	1.463	13.73	14.8164
	70	Styrene	0.947	0.981	1.179	1.161	1.246	1.176	1.078	1.082	0.970	0.879	1.070	11.33	14.8860
	71	Isopropylbenzene	1.835	1.857	2.162	2.165	2.450	2.076	1.863	1.887	1.578	------	1.986	12.81	15.4951
	72	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	18.6667
	73	Bromoform	0.135	0.188	0.226	0.217	0.257	0.270	0.279	0.300	0.285	0.300	0.246	21.91	15.5361
	74	trans-1,4-Dichloro-2-butene	------	------	0.117	0.127	0.151	0.167	0.164	0.174	0.160	0.172	0.154	13.73	15.6087
	75	1,1,2,2-Tetrachloroethane	0.384	0.490	0.571	0.509	0.563	0.579	0.560	0.567	0.529	0.526	0.528	11.05	15.8353
	76	4-Bromofluorobenzene	------	------	1.235	1.019	1.171	1.172	1.265	1.242	------	------	1.184	7.58	15.9814
	77	1,2,3-Trichloropropane	------	0.112	0.147	0.141	0.153	0.160	0.156	0.160	0.152	0.153	0.148	10.16	16.1270
	78	n-Propylbenzene	6.302	6.289	6.963	5.873	6.565	5.625	6.079	6.091	5.063	4.364	5.921	12.69	16.2751
	79	Bromobenzene	0.806	0.845	0.914	0.805	0.914	0.812	0.887	0.917	0.827	0.850	0.858	5.43	16.3610
	80	1,3,5-Trimethylbenzene	3.764	3.860	4.238	3.518	3.941	3.444	3.764	3.815	3.287	3.001	3.663	9.71	16.5816
	81	2-Chlorotoluene	3.673	3.763	4.232	3.543	3.897	3.357	3.637	3.731	3.160	2.991	3.598	10.00	16.6157
	82	4-Chlorotoluene	3.572	3.435	3.477	3.079	3.313	2.992	3.286	3.256	2.943	2.756	3.211	8.13	16.7060
	83	tert-Butylbenzene	0.801	0.787	0.899	0.790	0.890	0.791	0.847	0.877	0.790	0.785	0.826	5.73	17.2643
	84	1,2,4-Trimethylbenzene	3.709	3.588	4.109	3.600	3.957	3.412	3.681	3.689	3.196	2.887	3.583	9.83	17.3339
	85	sec-Butylbenzene	5.868	5.508	6.020	5.144	5.666	5.024	5.252	5.172	4.288	3.642	5.158	14.02	17.6375
	86	p-Isopropyltoluene	4.356	4.251	4.770	4.019	4.391	3.814	4.043	4.055	3.483	3.061	4.024	12.06	17.8596
	87	1,3-Dichlorobenzene	1.747	1.715	1.963	1.724	1.839	1.633	1.736	1.770	1.593	1.520	1.724	7.25	18.0077
	88	1,2,3-Trimethylbenzene	3.248	3.363	3.806	3.704	3.515	3.116	3.285	3.247	2.792	2.538	3.261	11.80	18.1143
	89	1,4-Dichlorobenzene	1.846	1.787	1.987	1.819	1.788	1.568	1.683	1.697	1.511	1.445	1.713	9.73	18.1706
	90	n-Butylbenzene	4.848	4.649	5.049	4.717	4.620	3.978	4.162	4.164	3.413	------	4.400	11.64	18.4716
	91	1,2-Dichlorobenzene	1.390	1.390	1.532	1.521	1.501	1.334	1.397	1.408	1.274	1.217	1.406	8.62	18.7037
	92	1,2-Dibromo-3-chloropropane	------	------	0.058	0.066	0.064	0.075	0.074	0.078	0.074	0.075	0.071	9.99	19.7015
	93	1,2,4-Trichlorobenzene	0.933	0.982	1.009	1.010	1.003	0.900	0.952	.987	0.887	0.857	0.952	5.80	20.7917
	94	Hexachlorobutadiene	0.574	0.643	0.695	0.654	0.646	0.564	0.618	0.649	0.558	0.530	0.610	8.57	20.9561
	95	Naphthalene	1.256	1.003	1.258	1.213	1.162	1.231	1.160	1.257	1.107	1.074	1.172	7.49	21.1368
	96	1,2,3-Trichlorobenzene	0.595	0.651	0.782	0.742	0.730	0.685	0.701	0.733	0.648	0.636	0.690	8.36	21.4581

Spike Amount = Nominal Amount * M
Ave_%RSD : 10.1 Max_%RSD : 39.3

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
50	2-Chloroethyl vinyl ether	-0.00216	0.02145	0.9977
73	Bromoform	-0.00663	0.29386	0.9993

SR 10/30/24

Instrument ID :01
Beginning DateTime :10/12/24 13:38
Spike Units :PPB
IC File :RJV302

Column Spec :RXI-624SILMS ID :0.25MM
Ending DateTime :10/12/24 18:07
HPChem Method :VO01J12

M	IDX	Parameters	.3 13:38 RJV297	.5 14:08 RJV298	1 14:39 RJV299	2 15:09 RJV300	5 15:39 RJV301	10 16:08 RJV302	20 16:38 RJV303	30 17:38 RJV305	50 17:08 RJV304	100 18:07 RJV306	AvDRec	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	8.5435
	2	Chlorotrifluoroethylene	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	3	Dichlorodifluoromethane	84	93	111	103	115	111	106	100	90	85	9.3	11.08	2.2475
	4	2-Chloro-1,1,1-trifluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	5	Chloromethane	72	100	114	107	115	110	103	103	89	86	10.5	13.65	2.5594
	6	Vinyl chloride	71	89	108	110	115	108	105	108	92	96	10.7	13.19	2.6904
	7	Bromomethane	104	102	113	99	105	95	101	105	88	90	5.7	7.64	3.2326
	8	Chloroethane	------	85	103	102	107	104	102	112	93	93	6.7	3.38	3.2364
	9	Dichlorofluoromethane	87	127	102	102	104	82	96	96	116	88	10.2	13.68	3.3585
	10	Trichlorofluoromethane	------	95	106	107	111	108	103	100	98	82	7.8	9.80	3.6280
5	11	Acrolein	------	------	87	87	100	100	87	112	100	100	6.3	7.80	4.0240
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	84	98	107	109	108	97	104	109	95	92	7	8.51	4.1478
5	13	Acetone	------	------	------	105	105	103	95	97	92	------	5	6.03	4.0946
	14	1,1-Dichloroethene	93	102	111	110	106	95	99	103	91	88	6.7	8.08	4.2485
25	15	tert-Butyl alcohol	------	89	100	111	100	111	111	100	100	100	4.9	7.42	4.3734
	16	Iodomethane	86	92	110	110	107	94	102	108	95	96	7.3	8.42	4.6617
	17	Methyl acetate	------	------	------	118	94	104	87	99	------	------	8.4	11.58	4.6795
	18	Methylene chloride	93	104	115	110	105	93	97	103	90	92	7.2	8.38	4.8808
	19	Carbon disulfide	------	78	97	99	105	104	104	113	------	------	7.5	10.91	4.8974
5	20	Acrylonitrile	------	74	91	106	106	106	97	109	100	100	7	10.80	5.0579
	21	tert-Butyl methyl ether (MTBE)	76	90	108	113	110	103	103	106	97	94	8.6	11.13	5.0793
	22	trans-1,2-Dichloroethene	91	99	112	109	108	94	102	105	91	89	7.2	8.41	5.2644
	23	Isopropyl ether (DIPE)	88	97	112	109	108	94	99	106	95	90	7.3	8.58	5.6820
	24	Vinyl acetate	63	101	110	103	105	116	103	111	96	92	9.8	14.72	5.8464
	25	1,1-Dichloroethane	90	98	115	108	108	94	101	106	92	89	7.5	8.95	5.8360
25	26	2-Butanol	------	------	------	75	100	100	100	112	------	------	7.5	12.15	6.1781
	27	tert-Butyl ethyl ether (ETBE)	84	90	112	113	112	98	101	106	94	90	8.7	10.48	6.2477
5	28	2-Butanone	91	95	118	98	98	105	96	102	95	95	5.6	7.33	6.4417
	29	2,2-Dichloropropane	95	99	115	113	106	95	101	102	90	85	7.3	9.59	6.6297
	30	cis-1,2-Dichloroethene	89	97	112	107	107	94	102	107	94	92	6.9	7.93	6.6920
	31	Chloroform	104	103	118	110	106	92	98	98	89	83	8.1	10.32	6.9096
	32	Bromochloromethane	91	87	115	112	108	98	100	104	93	92	7.5	9.24	7.1510
	33	Tetrahydrofuran	------	------	100	103	126	100	94	100	97	94	5.6	10.36	7.2079
	34	Dibromofluoromethane	------	------	100	96	101	98	103	102	------	------	2	2.58	7.2265
	35	1,1,1-Trichloroethane	86	96	114	111	110	96	105	102	93	87	8.3	9.83	7.4946
	36	Cyclonexane	90	94	101	103	107	101	100	106	------	------	4.7	6.28	7.5172
	37	2,2,4-Trimethylpentane	------	------	------	96	104	100	96	104	------	------	3.3	5.03	7.5139
	38	1,1-Dichloropropene	86	94	108	104	108	95	103	110	96	94	6.8	7.96	7.7167
	39	Carbon tetrachloride	82	96	111	109	110	98	108	104	95	89	8.2	9.79	7.8722
	40	tert-Amyl methyl ether (TAME)	88	98	115	112	106	97	100	101	93	90	6.9	8.94	7.8914
	41	1,2-Dichloroethane-d4	------	------	99	99	102	103	103	95	------	------	2.5	3.01	7.9669
	42	Benzene	100	103	114	109	107	93	100	103	90	81	7.3	9.85	8.1239
	43	1,2-Dichloroethane	75	90	114	111	114	106	106	101	95	88	10.5	12.95	8.1002
	44	Trichloroethene	92	103	110	107	104	93	103	104	93	90	6.3	7.09	9.0632
	45	Methylcyclohexane	108	96	95	102	103	97	99	101	------	------	3.4	4.28	9.1484
	46	1,2-Dichloropropane	97	91	110	107	106	95	102	105	94	91	6.1	7.03	9.3431
	47	Bromodichloromethane	94	95	112	107	107	97	104	101	93	89	6.3	7.42	9.7148
20	48	1,4-Dioxane	------	------	------	70	94	104	110	110	108	105	0	14.16	9.7571
	49	Dibromomethane	81	92	117	112	108	101	103	101	95	90	8.3	10.72	9.8066
	50	2-Chloroethyl vinyl ether	------	------	126	97	86	90	95	104	103	------	31.2	39.29	10.2225
5	51	4-Methyl-2-pentanone	------	73	94	103	110	114	104	106	99	92	8.7	12.23	10.2611
	52	cis-1,3-Dichloropropene	76	92	109	105	108	100	109	109	99	94	7.7	10.37	10.6063
	53	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	13.6939
	54	Toluene-d8	------	------	103	105	105	98	87	102	------	------	5.1	6.87	11.0131
	55	Toluene	101	106	119	114	110	95	87	105	86	78	10.8	13.23	11.1483
	56	Ethyl methacrylate	------	70	94	106	111	112	94	114	101	100	9.5	13.58	11.4475
	57	trans-1,3-Dichloropropene	73	86	103	114	114	107	94	112	99	98	9.9	13.11	11.4682
	58	1,1,2-Trichloroethane	75	98	116	113	110	104	88	107	94	94	10.1	12.51	11.7318
5	59	2-Hexanone	------	------	75	100	109	114	90	111	101	97	9	12.75	11.7455
	60	1,3-Dichloropropane	78	91	111	114	108	101	102	106	97	92	8.4	10.91	12.1745
	61	Tetrachloroethene	104	104	110	110	106	92	99	101	89	85	6.9	8.52	12.2767
	62	Dibromochloromethane	87	97	99	106	106	103	103	106	99	96	4.5	6.04	12.6470
	63	1,2-Dibromoethane	73	91	104	106	110	104	105	108	101	96	8.1	11.07	13.0127
	64	1-Chlorohexane	101	101	112	109	107	93	101	104	91	83	6.7	8.90	13.2837
	65	Chlorobenzene	94	99	110	111	107	94	101	104	93	85	6.9	8.50	13.7620
	66	1,1,1,2-Tetrachloroethane	76	90	111	109	110	97	104	108	100	95	8.6	11.11	13.8435
	67	Ethylbenzene	103	104	116	115	110	96	100	100	86	71	9.5	13.61	13.8598
2	68	m-Xylene & p-Xylene	103	98	111	109	105	89	93	93	------	------	7.1	8.36	13.9964
	69	o-Xylene	97	99	114	113	118	107	96	97	85	74	10.4	13.73	14.8164
	70	Styrene	89	92	110	109	116	110	101	101	91	82	9.4	11.33	14.8860
	71	Isopropylbenzene	92	94	109	109	123	105	94	95	79	------	10.2	12.81	15.4951
	72	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	18.6667
	73	Bromoform	120	110	99	85	92	94	96	103	98	102	17.6	21.91	15.5361
	74	trans-1,4-Dichloro-2-butene	------	------	76	82	98	108	106	113	104	112	10.9	13.73	15.6087
	75	1,1,2,2-Tetrachloroethane	73	93	108	96	107	110	106	107	100	100	7.7	11.05	15.8353
	76	4-Bromofluorobenzene	------	------	104	86	99	99	107	105	------	------	5.3	7.58	15.9814
	77	1,2,3-Trichloropropane	------	76	99	95	103	108	105	108	103	103	6.8	10.16	16.1270
	78	n-Propylbenzene	106	106	118	99	111	95	103	103	86	74	9.3	12.69	16.2751
	79	Bromobenzene	94	98	107	94	107	95	103	107	96	99	4.7	5.43	16.3610
	80	1,3,5-Trimethylbenzene	103	105	116	96	108	94	103	104	90	82	7.7	9.71	16.5816
	81	2-Chlorotoluene	102	105	118	98	108	93	101	104	88	83	7.5	10.00	16.7157
	82	4-Chlorotoluene	111	107	108	96	103	93	102	101	92	86	6.7	8.13	16.7060
	83	tert-Butylbenzene	97	95	109	96	108	96	103	106	96	95	5.1	5.73	17.2643
	84	1,2,4-Trimethylbenzene	104	100	115	100	110	95	103	103	89	81	7	9.83	17.3339
	85	sec-Butylbenzene	114	107	117	100	110	97	102	100	83	71	9.8	14.02	17.6375
	86	p-Isopropyltoluene	108	106	119	100	109	95	100	101	87	76	8.6	12.06	17.8596
	87	1,3-Dichlorobenzene	101	99	114	100	107	95	101	103	92	88	5	7.25	18.0917
	88	1,2,3-Trimethylbenzene	100	103	117	114	108	96	101	100	86	78	8.4	11.80	18.1143
	89	1,4-Dichlorobenzene	108	104	116	106	104	92	98	99	88	84	7.7	9.73	18.1775
	90	n-Butylbenzene	110	106	115	107	105	90	95	95	78	------	9.5	11.64	18.4716
	91	1,2-Dichlorobenzene	99	99	116	108	107	95	99	100	91	87	6.2	8.62	18.7037
	92	1,2-Dibromo-3-chloropropane	------	------	82	93	90	106	104	110	104	106	8.1	9.99	19.7015
	93	1,2,4-Trichlorobenzene	98	103	106	106	105	95	100	104	93	90	4.9	5.8	20.7917
	94	Hexachlorobutadiene	94	100	114	107	106	92	101	106	91	87	7	8.57	20.9561
	95	Naphthalene	107	86	107	103	99	105	99	107	94	92	6	7.49	21.1368
	96	1,2,3-Trichlorobenzene	86	94	113	108	106	99	102	106	94	92	6.9	8.36	21.4581

SM 10/30/24

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
Total Cpnds : 96

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-DIFLUOROBENZENE	114	8.54	1.000	A	1	A	B
2	T	Chlorotrifluoroethylene	116	2.08	0.243	A	2	A	B
3	T	Dichlorodifluoromethane	85	2.26	0.264	A	1	A	B
4	T	2-Chloro-1,1,1-trifluoroethane	118	2.53	0.296	A	2	A	B
5	T	Chloromethane	50	2.57	0.301	A	1	A	B
6	T	Vinyl chloride	62	2.70	0.316	A	1	A	B
7	T	Bromomethane	94	3.24	0.380	A	1	A	B
8	T	Chloroethane	64	3.24	0.380	A	1	A	B
9	T	Dichlorofluoromethane	67	3.36	0.393	A	1	A	B
10	T	Trichlorofluoromethane	101	3.63	0.425	A	1	A	B
11	T	Acrolein	56	4.01	0.470	A	1	A	B
12	T	1,1,2-Trichloro-1,2,2-trifluor	151	4.15	0.485	A	1	A	B
13	T	Acetone	43	4.09	0.478	A	1	A	B
14	T	1,1-Dichloroethene	61	4.25	0.497	A	2	A	B
15	T	tert-Butyl alcohol	59	4.37	0.511	A	1	A	B
16	T	Iodomethane	142	4.67	0.546	A	1	A	B
17	T	Methyl acetate	43	4.68	0.548	A	1	A	B
18	T	Methylene chloride	49	4.89	0.572	A	2	A	B
19	T	Carbon disulfide	76	4.90	0.574	A	1	A	B
20	T	Acrylonitrile	53	5.05	0.591	A	2	A	B
21	T	tert-Butyl methyl ether (MTBE)	73	5.08	0.595	A	1	A	B
22	T	trans-1,2-Dichloroethene	61	5.27	0.617	A	2	A	B
23	T	Isopropyl ether (DIPE)	45	5.69	0.666	A	1	A	B
24	T	Vinyl acetate	43	5.85	0.685	A	1	A	B
25	T	1,1-Dichloroethane	63	5.84	0.683	A	2	A	B
26	T	2-Butanol	45	6.17	0.723	A	1	A	B
27	T	tert-Butyl ethyl ether (ETBE)	59	6.25	0.731	A	1	A	B
28	T	2-Butanone	43	6.43	0.752	A	1	A	B
29	T	2,2-Dichloropropane	77	6.63	0.777	A	2	A	B
30	T	cis-1,2-Dichloroethene	96	6.69	0.783	A	2	A	B
31	T	Chloroform	83	6.92	0.809	A	2	A	B
32	T	Bromochloromethane	49	7.15	0.837	A	2	A	B
33	T	Tetrahydrofuran	42	7.21	0.844	A	2	A	B
34	S	Dibromofluoromethane	111	7.23	0.846	A	2	A	B
35	T	1,1,1-Trichloroethane	97	7.49	0.877	A	2	A	B
36	T	Cyclohexane	84	7.52	0.880	A	1	A	B
37	T	2,2,4-Trimethylpentane	57	7.52	0.880	A	1	A	B
38	T	1,1-Dichloropropene	110	7.72	0.903	A	1	A	B
39	T	Carbon tetrachloride	119	7.88	0.922	A	1	A	B
40	T	tert-Amyl methyl ether (TAME)	73	7.89	0.924	A	1	A	B
41	S	1,2-Dichloroethane-d4	65	7.97	0.932	A	1	A	B
42	T	Benzene	78	8.13	0.952	A	2	A	B
43	T	1,2-Dichloroethane	62	8.10	0.948	A	1	A	B
44	T	Trichloroethene	130	9.06	1.061	A	3	A	B
45	T	Methylcyclohexane	83	9.15	1.071	A	2	A	B
46	T	1,2-Dichloropropane	63	9.34	1.094	A	1	A	B
47	T	Bromodichloromethane	83	9.71	1.137	A	1	A	B
48	T	1,4-Dioxane	88	9.76	1.142	A	1	A	B
49	T	Dibromomethane	93	9.80	1.147	A	2	A	B
50	T	2-Chloroethyl vinyl ether	63	10.22	1.196	L	2	A	B
51	T	4-Methyl-2-pentanone	43	10.25	1.199	A	3	A	B
52	T	cis-1,3-Dichloropropene	75	10.60	1.241	A	1	A	B

SU 10/30/24

53	I	CHLOROBENZENE-D5	117	13.70	1.000	A	2	A	B
54	S	Toluene-d8	98	11.02	0.804	A	1	A	B
55	T	Toluene	91	11.15	0.814	A	1	A	B
56	T	Ethyl methacrylate	69	11.43	0.835	A	1	A	B
57	T	trans-1,3-Dichloropropene	75	11.46	0.837	A	1	A	B
58	T	1,1,2-Trichloroethane	97	11.73	0.856	A	2	A	B
59	T	2-Hexanone	43	11.74	0.857	A	1	A	B
60	T	1,3-Dichloropropane	76	12.17	0.889	A	1	A	B
61	T	Tetrachloroethene	164	12.28	0.896	A	3	A	B
62	T	Dibromochloromethane	129	12.65	0.923	A	1	A	B
63	T	1,2-Dibromoethane	107	13.02	0.950	A	1	A	B
64	T	1-Chlorohexane	91	13.28	0.970	A	1	A	B
65	P,M	Chlorobenzene	112	13.77	1.005	A	1	A	B
66	T	1,1,1,2-Tetrachloroethane	131	13.85	1.011	A	1	A	B
67	T	Ethylbenzene	91	13.86	1.012	A	1	A	B
68	T	m-Xylene & p-Xylene	91	13.99	1.022	A	1	A	B
69	T	o-Xylene	91	14.82	1.082	A	1	A	B
70	T	Styrene	104	14.88	1.086	A	2	A	B
71	T	Isopropylbenzene	105	15.50	1.132	A	3	A	B
72	I	1,2-DICHLOROBENZENE-D4	152	18.67	1.000	A	1	A	B
73	T	Bromoform	173	15.53	0.832	L	1	A	B
74	T	trans-1,4-Dichloro-2-butene	53	15.61	0.836	A	1	A	B
75	T	1,1,2,2-Tetrachloroethane	83	15.85	0.849	A	1	A	B
76	S	4-Bromofluorobenzene	95	15.98	0.856	A	2	A	B
77	T	1,2,3-Trichloropropane	110	16.13	0.864	A	1	A	B
78	T	n-Propylbenzene	91	16.27	0.872	A	2	A	B
79	T	Bromobenzene	156	16.36	0.876	A	1	A	B
80	T	1,3,5-Trimethylbenzene	105	16.59	0.888	A	2	A	B
81	T	2-Chlorotoluene	91	16.62	0.890	A	1	A	B
82	T	4-Chlorotoluene	91	16.70	0.895	A	1	A	B
83	T	tert-Butylbenzene	134	17.27	0.925	A	1	A	B
84	T	1,2,4-Trimethylbenzene	105	17.34	0.929	A	1	A	B
85	T	sec-Butylbenzene	105	17.64	0.944	A	1	A	B
86	T	p-Isopropyltoluene	119	17.86	0.956	A	2	A	B
87	T	1,3-Dichlorobenzene	146	18.01	0.964	A	2	A	B
88	T	1,2,3-Trimethylbenzene	105	18.11	0.970	A	2	A	B
89	T	1,4-Dichlorobenzene	146	18.17	0.973	A	2	A	B
90	T	n-Butylbenzene	91	18.48	0.990	A	2	A	B
91	T	1,2-Dichlorobenzene	146	18.70	1.002	A	1	A	B
92	T	1,2-Dibromo-3-chloropropane	157	19.71	1.056	A	1	A	B
93	T	1,2,4-Trichlorobenzene	180	20.79	1.113	A	2	A	B
94	T	Hexachlorobutadiene	225	20.95	1.122	A	1	A	B
95	T	Naphthalene	128	21.13	1.132	A	1	A	B
96	T	1,2,3-Trichlorobenzene	180	21.46	1.149	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

VO01J12.M Thu Oct 24 09:08:04 2024

SU 10/30/24

SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :01
IC_Beginning DateTime :10/12/24 13:38
Spike Amount :10 PPB
CC/CV File :RJV309
IC File :RJV302

Column Spec :RXI-624SILMS ID :0.25MM
IC_Ending DateTime :10/12/24 18:07
HPChem Method :VO01J12
Date_Time :10/12/24 19:36

M	IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_RTm	AvRTm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,4-DIFLUOROBENZENE	10.000	0	1068034	1	1	8.545	8.543	0				
	2	Chlorotrifluoroethylene												
	3	Dichlorodifluoromethane	9.045	-9.5	396817	0.372	0.411	2.247	2.247	11.08				
	4	2-Chloro-1,1,1-trifluoroethane												
	5	Chloromethane	11.560	15.6	382728	0.358	0.310	2.560	2.559	13.65				
	6	Vinyl chloride	11.451	14.5	334350	0.313	0.273	2.702	2.690	13.19				
	7	Bromomethane	10.636	6.4	223947	0.210	0.197	3.243	3.233	7.64				
	8	Chloroethane	11.296	13.0	250004	0.234	0.207	3.243	3.236	8.38				
	9	Dichlorofluoromethane	9.273	-7.3	375995	0.352	0.380	3.362	3.359	13.68				
	10	Trichlorofluoromethane	9.160	-8.4	435121	0.407	0.445	3.628	3.628	9.80				
5	11	Acrolein	58.363	16.7	47656	0.009	0.008	4.028	4.024	7.80				
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	9.639	-3.6	188528	0.177	0.183	4.147	4.148	8.51				
5	13	Acetone	51.858	3.7	204520	0.038	0.037	4.102	4.095	6.03				
	14	1,1-Dichloroethene	9.782	-2.2	487444	0.456	0.467	4.250	4.248	8.08				
25	15	tert-Butyl alcohol	251.012	0.4	247673	0.009	0.009	4.369	4.373	7.42				
	16	Iodomethane	10.700	7.0	452955	0.424	0.396	4.665	4.662	8.42				
	17	Methyl acetate	10.248	2.5	104248	0.098	0.095	4.680	4.680	11.58				
	18	Methylene chloride	10.565	5.6	379499	0.355	0.336	4.887	4.881	8.38				
	19	Carbon disulfide	11.140	11.4	1161131	1.087	0.976	4.902	4.897	10.91				
5	20	Acrylonitrile	57.404	14.8	212664	0.040	0.035	5.050	5.058	10.80				
	21	tert-Butyl methyl ether (MTBE)	10.823	8.2	534080	0.500	0.462	5.079	5.079	11.13				
	22	trans-1,2-Dichloroethene	10.337	3.4	494700	0.463	0.448	5.272	5.264	8.41				
	23	Isopropyl ether (DIPE)	10.730	7.3	1075243	1.007	0.938	5.687	5.682	8.58				
	24	Vinyl acetate	11.035	10.3	353866	0.331	0.300	5.850	5.846	14.72				
	25	1,1-Dichloroethane	10.631	6.3	596611	0.559	0.525	5.850	5.836	8.95				
25	26	2-Butanol	261.905	4.8	216540	0.008	0.008	6.175	6.178	12.15				
	27	tert-Butyl ethyl ether (ETBE)	10.623	6.2	773868	0.725	0.682	6.249	6.248	10.48				
5	28	2-Butanone	52.036	4.1	314700	0.059	0.057	6.427	6.442	7.33				
	29	2,2-Dichloropropane	9.529	-4.7	457430	0.428	0.449	6.634	6.630	9.59				
	30	cis-1,2-Dichloroethene	10.363	3.6	356177	0.333	0.322	6.694	6.692	7.93				
	31	Chloroform	9.844	-1.6	563062	0.527	0.535	6.916	6.910	10.32				
	32	Bromochloromethane	10.587	5.9	225161	0.211	0.199	7.153	7.151	9.24				
	33	Tetrahydrofuran	11.394	13.9	38294	0.036	0.031	7.212	7.208	10.36				
	34	Dibromofluoromethane	10.445	4.4	291419	0.273	0.261	7.227	7.227	2.58				
	35	1,1,1-Trichloroethane	9.542	-4.6	490060	0.459	0.481	7.493	7.495	9.83				
	36	Cyclohexane	9.755	-2.4	516950	0.484	0.496	7.523	7.517	6.28				
	37	2,2,4-Trimethylpentane	10.330	3.3	26488	0.025	0.024	7.508	7.514	5.03				
	38	1,1-Dichloropropene	10.006	0.1	155616	0.146	0.146	7.715	7.717	7.96				
	39	Carbon tetrachloride	9.441	-5.6	367156	0.344	0.364	7.878	7.872	9.79				
	40	tert-Amyl methyl ether (TAME)	10.208	2.1	571608	0.535	0.524	7.893	7.891	8.94				
	41	1,2-Dichloroethane-d4	9.840	-1.6	241828	0.226	0.230	7.967	7.967	3.02				
	42	Benzene	10.239	2.4	1252194	1.172	1.145	8.130	8.124	9.85				
	43	1,2-Dichloroethane	10.114	1.1	275712	0.258	0.255	8.100	8.100	12.95				
	44	Trichloroethene	10.063	0.6	325468	0.305	0.303	9.063	9.063	7.09				
	45	Methylcyclohexane	9.296	-7.0	582682	0.546	0.587	9.152	9.148	4.28				
	46	1,2-Dichloropropane	10.410	4.1	286506	0.268	0.258	9.344	9.343	7.03				
	47	Bromodichloromethane	10.077	0.8	379560	0.355	0.353	9.714	9.715	7.42				
20	48	1,4-Dioxane	191.902	-4.0	20190	0.001	0.001	9.759	9.757	14.16				
	49	Dibromomethane	9.983	-0.2	119339	0.112	0.112	9.803	9.807	10.72				
	50	2-Chloroethyl vinyl ether	9.980	-0.2	20564	0.019	0.016	10.218	10.222	39.29	-0.0022	0.0214		0.9977
5	51	4-Methyl-2-pentanone	56.086	12.2	758438	0.142	0.127	10.248	10.261	12.23				
	52	cis-1,3-Dichloropropene	10.596	6.0	437236	0.409	0.386	10.603	10.606	10.37				
	53	CHLOROBENZENE-D5	10.000	0	813885	1	1	13.698	13.694	0				
	54	Toluene-d8	10.818	8.2	1210901	1.488	1.375	11.017	11.013	6.87				
	55	Toluene	10.583	5.8	1365083	1.677	1.585	11.151	11.148	13.23				
	56	Ethyl methacrylate	11.318	13.2	209124	0.257	0.227	11.432	11.448	13.58				
	57	trans-1,3-Dichloropropene	10.873	8.7	317657	0.390	0.359	11.462	11.468	13.11				
	58	1,1,2-Trichloroethane	10.903	9.0	173128	0.213	0.195	11.728	11.732	12.51				
5	59	2-Hexanone	57.060	14.1	481596	0.118	0.104	11.743	11.745	12.75				
	60	1,3-Dichloropropane	10.660	6.6	318885	0.392	0.368	12.173	12.175	10.91				
	61	Tetrachloroethene	9.664	-3.4	269419	0.331	0.343	12.276	12.277	8.52				
	62	Dibromochloromethane	10.500	5.0	198635	0.244	0.232	12.646	12.647	6.04				
	63	1,2-Dibromoethane	10.649	6.5	160251	0.197	0.185	13.017	13.013	11.07				
	64	1-Chlorohexane	9.738	-2.6	586912	0.721	0.740	13.283	13.284	8.90				
	65	Chlorobenzene	10.460	4.6	807857	0.993	0.949	13.757	13.762	8.50				
	66	1,1,1,2-Tetrachloroethane	10.475	4.8	247002	0.303	0.290	13.846	13.844	11.11				
	67	Ethylbenzene	10.276	2.8	1568373	1.927	1.875	13.861	13.860	13.61				
2	68	m-Xylene & p-Xylene	19.454	-2.7	2345217	1.441	1.481	13.994	13.996	8.36				
	69	o-Xylene	9.900	-1.0	1178660	1.448	1.463	14.809	14.816	13.73				
	70	Styrene	10.219	2.2	889936	1.093	1.070	14.883	14.886	11.33				
	71	Isopropylbenzene	9.644	-3.6	1558818	1.915	1.986	15.490	15.495	12.81				
	72	1,2-DICHLOROBENZENE-D4	10.000	0	318498	1	1	18.674	18.667	0				
	73	Bromoform	9.546	-4.5	87239	0.274	0.246	15.534	15.536	21.91	-0.0066	0.2939		0.9993
	74	trans-1,4-Dichloro-2-butene	10.050	0.5	49251	0.155	0.154	15.608	15.609	13.73				
	75	1,1,2,2-Tetrachloroethane	10.402	4.0	174869	0.549	0.528	15.830	15.835	11.05				
	76	4-Bromofluorobenzene	10.407	4.1	392450	1.232	1.184	15.979	15.981	7.58				
	77	1,2,3-Trichloropropane	10.111	1.1	47720	0.150	0.148	16.126	16.127	10.16				
	78	n-Propylbenzene	10.247	2.5	1932721	6.068	5.921	16.275	16.275	12.69				
	79	Bromobenzene	10.270	2.7	280561	0.881	0.858	16.349	16.361	5.43				
	80	1,3,5-Trimethylbenzene	10.161	1.6	1185583	3.722	3.663	16.571	16.582	9.71				
	81	2-Chlorotoluene	10.169	1.7	1165470	3.659	3.598	16.615	16.616	10.00				
	82	4-Chlorotoluene	9.800	-2.0	1002272	3.147	3.211	16.704	16.706	8.13				
	83	tert-Butylbenzene	9.974	-0.3	262292	0.824	0.826	17.267	17.264	5.73				
	84	1,2,4-Trimethylbenzene	10.316	3.2	1177231	3.696	3.583	17.326	17.334	9.83				
	85	sec-Butylbenzene	10.097	1.0	1658995	5.209	5.158	17.637	17.638	14.02				
	86	p-Isopropyltoluene	10.064	0.6	1289914	4.050	4.024	17.859	17.860	12.06				
	87	1,3-Dichlorobenzene	10.049	0.5	551841	1.733	1.724	18.007	18.008	7.25				
	88	1,2,3-Trimethylbenzene	10.220	2.2	1061628	3.333	3.261	18.111	18.114	11.80				
	89	1,4-Dichlorobenzene	9.666	-3.3	527463	1.656	1.713	18.170	18.171	9.73				
	90	n-Butylbenzene	9.373	-6.3	1314457	4.127	4.400	18.466	18.472	11.64				
	91	1,2-Dichlorobenzene	10.001	0.0	447963	1.406	1.406	18.703	18.704	8.62				
	92	1,2-Dibromo-3-chloropropane	9.942	-0.6	22332	0.070	0.071	19.695	19.701	9.99				
	93	1,2,4-Trichlorobenzene	9.723	-2.8	294827	0.926	0.952	20.791	20.792	5.80				
	94	Hexachlorobutadiene	9.984	-0.2	194057	0.609	0.610	20.954	20.956	8.57				
	95	Naphthalene	9.845	-1.5	367510	1.154	1.172	21.132	21.137	7.49				
	96	1,2,3-Trichlorobenzene	10.198	2.0	224150	0.704	0.690	21.458	21.458	8.36				

Spike Amount = Nominal Amount * M

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D
Acq On : 12 Oct 2024 7:36 pm
Sample : IVO01J1201 1.0/5.0
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 14
Operator: DNguye
Inst : 01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	122	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	9.046	9.5	99	0.00
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	11.560	-15.6	128	0.00
6	C,T,M	Vinyl chloride	10.000	11.451	-14.5	129	0.00
7	T,M	Bromomethane	10.000	10.636	-6.4	136	0.00
8	T,M	Chloroethane	10.000	11.296	-13.0	132	0.00
9	T,M	Dichlorofluoromethane	10.000	9.274	7.3	138	0.00
10	T,M	Trichlorofluoromethane	10.000	9.160	8.4	103	0.00
11	T,M	Acrolein	50.000	58.363	-16.7	138	0.02
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	9.640	3.6	122	0.00
13	T,M	Acetone	50.000	51.858	-3.7	123	0.02
14	C,T,M	1,1-Dichloroethene	10.000	9.782	2.2	126	0.00
15	T,M	tert-Butyl alcohol	250.000	251.013	-0.4	116	0.00
16	T,M	Iodomethane	10.000	10.700	-7.0	138	0.00
17	T,M	Methyl acetate	10.000	10.248	-2.5	120	0.00
18	T,M	Methylene chloride	10.000	10.565	-5.6	138	0.00
19	T,M	Carbon disulfide	10.000	11.141	-11.4	130	0.00
20	T,M	Acrylonitrile	50.000	57.404	-14.8	132	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	10.823	-8.2	128	0.00
22	T,M	trans-1,2-Dichloroethene	10.000	10.337	-3.4	134	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	10.731	-7.3	138	0.00
24	T,M	Vinyl acetate	10.000	11.036	-10.4	115	0.00
25	P,T,M	1,1-Dichloroethane	10.000	10.631	-6.3	138	0.01
26	T,M	2-Butanol	250.000	261.906	-4.8	118	0.00
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.623	-6.2	132	0.00
28	T,M	2-Butanone	50.000	52.037	-4.1	120	0.00
29	T,M	2,2-Dichloropropane	10.000	9.529	4.7	122	0.00
30	T,M	cis-1,2-Dichloroethene	10.000	10.363	-3.6	134	0.00
31	C,T,M	Chloroform	10.000	9.845	1.5	131	0.00
32	T,M	Bromochloromethane	10.000	10.587	-5.9	131	0.00
33	T,M	Tetrahydrofuran	10.000	11.394	-13.9	143	0.00
34	S	Dibromofluoromethane	10.000	10.466	-4.5	129	0.00
35	T,M	1,1,1-Trichloroethane	10.000	9.542	4.6	121	0.00
36	T,M	Cyclohexane	10.000	9.756	2.4	117	0.00
37	T,M	2,2,4-Trimethylpentane	10.000	10.331	-3.3	127	-0.01
38	T,M	1,1-Dichloropropene	10.000	10.006	-0.1	127	0.00
39	T,M	Carbon tetrachloride	10.000	9.441	5.6	117	0.00
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.208	-2.1	129	0.00
41	S	1,2-Dichloroethane-d4	10.000	9.841	1.6	116	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D
Acq On : 12 Oct 2024 7:36 pm
Sample : IVO01J1201 1.0/5.0
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 14
Operator: DNguye
Inst : 01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.239	-2.4	134	0.00
43	T,M	1,2-Dichloroethane	10.000	10.115	-1.2	116	0.00
44	T,M	Trichloroethene	10.000	10.063	-0.6	131	0.00
45	T,M	Methylcyclohexane	10.000	9.297	7.0	117	0.00
46	C,T,M	1,2-Dichloropropane	10.000	10.410	-4.1	134	0.00
47	T,M	Bromodichloromethane	10.000	10.078	-0.8	126	0.00
48	T,M	1,4-Dioxane	200.000	191.902	4.0	113	0.00
49	T,M	Dibromomethane	10.000	9.983	0.2	120	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	9.981	0.2	137	0.00
51	T,M	4-Methyl-2-pentanone	50.000	56.087	-12.2	113	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	10.596	-6.0	129	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	119	0.00
54	S	Toluene-d8	10.000	10.819	-8.2	132	0.00
55	C,T,M	Toluene	10.000	10.583	-5.8	132	0.00
56	T,M	Ethyl methacrylate	10.000	11.319	-13.2	120	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	10.873	-8.7	121	0.00
58	T,M	1,1,2-Trichloroethane	10.000	10.903	-9.0	124	0.00
59	T,M	2-Hexanone	50.000	57.060	-14.1	118	0.00
60	T,M	1,3-Dichloropropane	10.000	10.661	-6.6	125	0.00
61	T,M	Tetrachloroethene	10.000	9.665	3.4	125	0.00
62	T,M	Dibromochloromethane	10.000	10.500	-5.0	122	0.00
63	T,M	1,2-Dibromoethane	10.000	10.650	-6.5	121	0.00
64	T,M	1-Chlorohexane	10.000	9.739	2.6	125	0.00
65	P,M	Chlorobenzene	10.000	10.461	-4.6	132	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	10.000	10.475	-4.7	129	0.00
67	C,T,M	Ethylbenzene	10.000	10.276	-2.8	128	0.00
68	T,M	m-Xylene & p-Xylene	20.000	19.455	2.7	130	0.00
69	T,M	o-Xylene	10.000	9.900	1.0	110	-0.01
70	T,M	Styrene	10.000	10.220	-2.2	110	0.00
71	T,M	Isopropylbenzene	10.000	9.645	3.6	110	-0.01
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	100	0.00
73	P,T,M	Bromoform	10.000	9.547	4.5	102	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	10.051	-0.5	93	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	10.402	-4.0	95	-0.01
76	S	4-Bromofluorobenzene	10.000	10.407	-4.1	106	0.00
77	T,M	1,2,3-Trichloropropane	10.000	10.112	-1.1	94	0.00
78	T,M	n-Propylbenzene	10.000	10.248	-2.5	108	0.00
79	T,M	Bromobenzene	10.000	10.270	-2.7	109	-0.01
80	T,M	1,3,5-Trimethylbenzene	10.000	10.162	-1.6	109	-0.01

(#) = Out of Range

SM 10/30/24

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D
Acq On : 12 Oct 2024 7:36 pm
Sample : IVO01J1201 1.0/5.0
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 14
Operator: DNguye
Inst : 01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	10.169	-1.7	109	0.00
82	T,M	4-Chlorotoluene	10.000	9.800	2.0	106	0.00
83	T,M	tert-Butylbenzene	10.000	9.974	0.3	105	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	10.317	-3.2	109	-0.01
85	T,M	sec-Butylbenzene	10.000	10.098	-1.0	104	0.00
86	T,M	p-Isopropyltoluene	10.000	10.064	-0.6	107	0.00
87	T,M	1,3-Dichlorobenzene	10.000	10.050	-0.5	107	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.220	-2.2	107	0.00
89	T,M	1,4-Dichlorobenzene	10.000	9.666	3.3	106	0.00
90	T,M	n-Butylbenzene	10.000	9.373	6.3	104	-0.01
91	T,M	1,2-Dichlorobenzene	10.000	10.001	-0.0	106	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	9.942	0.6	94	-0.01
93	T,M	1,2,4-Trichlorobenzene	10.000	9.723	2.8	103	0.00
94	T,M	Hexachlorobutadiene	10.000	9.984	0.2	109	0.00
95	T,M	Naphthalene	10.000	9.845	1.5	94	0.00
96	T,M	1,2,3-Trichlorobenzene	10.000	10.199	-2.0	103	0.00

SY 10/30/24

(#) = Out of Range SPCC's out = 0 CCC's out = 0

DAILY CALIBRATIONS

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : TITAN 1-A
Lab Code : EMAX SDG No : 24J168
Lab File ID: RKV026 BFB Injection Date: 11/04/24
Instrument ID: 01 BFB Injection Time: 16:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	19.152
75	30 - 60% of mass 95	53.469
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	6.354
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	72.497
175	5 - 9% of mass 174	5.540(7.64)1
176	95 - 101% % of mass 174	72.029(99.35)1
177	5 - 9% % of mass 176	4.924(6.84)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, Lab QCs and Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD10	CV001J1220	RKV027	11/04/24	17:28
2	LCS1W	V001K02L	RKV028	11/04/24	17:58
3	LCD1W	V001K02C	RKV029	11/04/24	18:27
4	MBLK1W	V001K02B	RKV031	11/04/24	19:26
5	T1AMF-MW042_OCT24	24J168-07	RKV038	11/04/24	22:49
6	T1AMF-MW046_OCT24	24J168-08	RKV039	11/04/24	23:17
7	T1AMF-MW056_OCT24	24J168-09	RKV040	11/04/24	23:46
8	T1AMF-MW056_OCT24_FD	24J168-10	RKV041	11/05/24	00:15
9	T1AMF-MW049_OCT24	24J168-11	RKV042	11/05/24	00:43
10	T1AMF-MW051_OCT24	24J168-12	RKV043	11/05/24	01:12
11	T1AMF-MW029_OCT24	24J168-13	RKV044	11/05/24	01:41
12	T1AMF-EW01_OCT24	24J168-14	RKV045	11/05/24	02:09
13	T1AMF-MW045_OCT24	24J168-15	RKV046	11/05/24	02:38
14	T1AMF-EB001_OCT24	24J168-16	RKV047	11/05/24	03:07
15	T1AMF-EB002_OCT24	24J168-17	RKV048	11/05/24	03:36
16	T1AMF-SB001_OCT24	24J168-18	RKV049	11/05/24	04:05
17	VSTD10	EV001J1220	RKV050	11/05/24	04:33
18	VSTD10	EV001J12201	RKV051	11/05/24	05:03
19	VSTD10	EV001J12202	RKV052	11/05/24	05:31

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: EMAX Laboratories, Inc.
Lab Code: EMAX
Lab File ID: RJV302
Instrument ID: 01

Project: TITAN 1-A
SDG No: 24J168
Date Analyzed: 10/12/24
Time Analyzed: 16:08

	INTERNAL STANDARD (IS)	1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5		1,2-DICHLOROBENZENE-D4	
		Area #	RT #	Area #	RT #	Area #	RT #
	12 HOUR STD	878286	8.54	685675	13.70	317109	18.67
	UPPER LIMIT	1756572	8.71	1371350	13.87	634218	18.84
	LOWER LIMIT	439143	8.37	342838	13.53	158555	18.50
		Area #	RT #	Area #	RT #	Area #	RT #
1	VSTD10	764276	8.53	592084	13.70	332956	18.67
2	LCS1W	947008	8.53	785265	13.68	362450	18.67
3	LCD1W	893647	8.54	696021	13.70	351155	18.67
4	MBLK1W	957179	8.54	709126	13.70	274730	18.67
5	T1AMF-MW042_OCT24	720142	8.53	540911	13.70	222342	18.67
6	T1AMF-MW046_OCT24	664934	8.54	510258	13.70	206849	18.67
7	T1AMF-MW056_OCT24	703913	8.55	520459	13.70	209110	18.67
8	T1AMF-MW056_OCT24_FD	667929	8.54	506384	13.70	208484	18.67
9	T1AMF-MW049_OCT24	675022	8.53	509710	13.68	201334	18.67
10	T1AMF-MW051_OCT24	643347	8.53	484739	13.70	193605	18.67
11	T1AMF-MW029_OCT24	600066	8.54	455147	13.70	182043	18.67
12	T1AMF-EW01_OCT24	588114	8.53	454582	13.70	180986	18.67
13	T1AMF-MW045_OCT24	620829	8.53	463405	13.70	183922	18.67
14	T1AMF-EB001_OCT24	628709	8.54	469708	13.70	187276	18.67
15	T1AMF-EB002_OCT24	588733	8.54	441020	13.70	178242	18.67
16	T1AMF-SB001_OCT24	635254	8.54	475687	13.70	191222	18.67
17	VSTD10	639576	8.55	494080	13.70	325146	18.67
18	VSTD10	686559	8.54	523389	13.70	326183	18.67
19	VSTD10	1095441	8.54	830324	13.70	340306	18.67

Area Upper Limit = +100% of ICAL Midpoint IS Area
Area Lower Limit = -50% of ICAL Midpoint IS Area
Retention Time(RT) Upper Limit = +10 seconds of ICAL Midpoint IS RT
Retention Time(RT) Lower Limit = -10 seconds of ICAL Midpoint IS RT

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	87	-0.01
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	8.591	14.1	67	-0.08
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	8.508	14.9	67	-0.10
6	C,T,M	Vinyl chloride	10.000	9.916	0.8	80	-0.08
7	T,M	Bromomethane	10.000	11.969	-19.7	109	-0.09
8	T,M	Chloroethane	10.000	10.082	-0.8	84	-0.03
9	T,M	Dichlorofluoromethane	10.000	11.496	-15.0	123	-0.08
10	T,M	Trichlorofluoromethane	10.000	10.732	-7.3	87	-0.09
11	T,M	Acrolein	50.000	63.037	-26.1#	107	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	12.710	-27.1#	115	-0.06
13	T,M	Acetone	50.000	55.928	-11.9	95	-0.05
14	C,T,M	1,1-Dichloroethene	10.000	9.769	2.3	90	-0.05
15	T,M	tert-Butyl alcohol	250.000	268.568	-7.4	89	-0.05
16	T,M	Iodomethane	10.000	11.785	-17.9	109	-0.05
17	T,M	Methyl acetate	10.000	9.991	0.1	84	-0.03
18	T,M	Methylene chloride	10.000	10.202	-2.0	96	-0.05
19	T,M	Carbon disulfide	10.000	10.438	-4.4	87	-0.05
20	T,M	Acrylonitrile	50.000	57.667	-15.3	95	-0.03
21	T,M	tert-Butyl methyl ether (MT	10.000	11.258	-12.6	95	-0.05
22	T,M	trans-1,2-Dichloroethene	10.000	9.890	1.1	92	-0.05
23	T,M	Isopropyl ether (DIPE)	10.000	9.617	3.8	89	-0.05
24	T,M	Vinyl acetate	10.000	9.777	2.2	73	-0.03
25	P,T,M	1,1-Dichloroethane	10.000	10.517	-5.2	98	-0.03
26	T,M	2-Butanol	250.000	306.779	-22.7#	99	-0.05
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.331	-3.3	92	-0.03
28	T,M	2-Butanone	50.000	50.247	-0.5	83	-0.03
29	T,M	2,2-Dichloropropane	10.000	11.401	-14.0	104	-0.03
30	T,M	cis-1,2-Dichloroethene	10.000	10.768	-7.7	99	-0.03
31	C,T,M	Chloroform	10.000	10.711	-7.1	102	-0.03
32	T,M	Bromochloromethane	10.000	9.716	2.8	86	-0.02
33	T,M	Tetrahydrofuran	10.000	9.957	0.4	89	-0.03
34	S	Dibromofluoromethane	10.000	10.758	-7.6	95	-0.02
35	T,M	1,1,1-Trichloroethane	10.000	10.650	-6.5	96	-0.02
36	T,M	Cyclohexane	10.000	9.642	3.6	83	-0.03
37	T,M	2,2,4-Trimethylpentane	10.000	9.202	8.0	81	-0.03
38	T,M	1,1-Dichloropropene	10.000	10.256	-2.6	93	-0.02
39	T,M	Carbon tetrachloride	10.000	11.078	-10.8	99	-0.03
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.582	-5.8	95	-0.03
41	S	1,2-Dichloroethane-d4	10.000	9.813	1.9	83	-0.02

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.563	-5.6	99	-0.03
43	T,M	1,2-Dichloroethane	10.000	10.754	-7.5	88	-0.02
44	T,M	Trichloroethene	10.000	10.961	-9.6	102	-0.01
45	T,M	Methylcyclohexane	10.000	9.444	5.6	85	-0.01
46	C,T,M	1,2-Dichloropropane	10.000	10.364	-3.6	95	-0.01
47	T,M	Bromodichloromethane	10.000	10.991	-9.9	99	-0.01
48	T,M	1,4-Dioxane	200.000	207.207	-3.6	87	0.02
49	T,M	Dibromomethane	10.000	10.675	-6.8	92	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	12.246	-22.5#	123	-0.01
51	T,M	4-Methyl-2-pentanone	50.000	51.796	-3.6	79	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	10.863	-8.6	95	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	86	0.00
54	S	Toluene-d8	10.000	10.283	-2.8	91	-0.01
55	C,T,M	Toluene	10.000	10.728	-7.3	97	-0.01
56	T,M	Ethyl methacrylate	10.000	11.383	-13.8	88	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	11.618	-16.2	94	0.00
58	T,M	1,1,2-Trichloroethane	10.000	11.625	-16.3	96	0.00
59	T,M	2-Hexanone	50.000	52.575	-5.2	79	0.00
60	T,M	1,3-Dichloropropane	10.000	11.221	-12.2	95	0.00
61	T,M	Tetrachloroethene	10.000	10.937	-9.4	103	0.00
62	T,M	Dibromochloromethane	10.000	11.793	-17.9	99	0.00
63	T,M	1,2-Dibromoethane	10.000	11.069	-10.7	91	-0.01
64	T,M	1-Chlorohexane	10.000	9.723	2.8	90	0.00
65	P,M	Chlorobenzene	10.000	10.913	-9.1	100	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	10.000	12.438	-24.4#	111	0.00
67	C,T,M	Ethylbenzene	10.000	10.672	-6.7	96	0.00
68	T,M	m-Xylene & p-Xylene	20.000	19.961	0.2	97	0.00
69	T,M	o-Xylene	10.000	13.617	-36.2#	110	-0.01
70	T,M	Styrene	10.000	14.470	-44.7#	114	0.00
71	T,M	Isopropylbenzene	10.000	13.374	-33.7#	110	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	105	0.00
73	P,T,M	bromoform	10.000	10.603	-6.0	119	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	9.004	10.0	87	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	11.073	-10.7	106	-0.01
76	S	4-Bromofluorobenzene	10.000	9.676	3.2	103	0.00
77	T,M	1,2,3-Trichloropropane	10.000	10.762	-7.6	105	0.00
78	T,M	n-Propylbenzene	10.000	9.848	1.5	109	0.00
79	T,M	Bromobenzene	10.000	11.432	-14.3	127	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	9.668	3.3	108	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	9.717	2.8	109	0.00
82	T,M	4-Chlorotoluene	10.000	9.708	2.9	109	0.00
83	T,M	tert-Butylbenzene	10.000	10.789	-7.9	118	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	9.762	2.4	108	0.00
85	T,M	sec-Butylbenzene	10.000	9.662	3.4	104	0.00
86	T,M	p-Isopropyltoluene	10.000	9.797	2.0	109	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.061	-10.6	123	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	9.836	1.6	108	0.00
89	T,M	1,4-Dichlorobenzene	10.000	10.764	-7.6	124	0.00
90	T,M	n-Butylbenzene	10.000	8.849	11.5	103	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.002	-10.0	122	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	11.131	-11.3	110	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.850	-8.5	120	0.00
94	T,M	Hexachlorobutadiene	10.000	11.023	-10.2	125	0.02
95	T,M	Naphthalene	10.000	10.464	-4.6	105	0.02
96	T,M	1,2,3-Trichlorobenzene	10.000	11.183	-11.8	118	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	87	-0.01
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.353	14.1	67	-0.08
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.264	14.8	67	-0.10
6	C,T,M	Vinyl chloride	0.273	0.271	0.7	80	-0.08
7	T,M	Bromomethane	0.197	0.236	-19.8	109	-0.09
8	T,M	Chloroethane	0.207	0.209	-1.0	84	-0.03
9	T,M	Dichlorofluoromethane	0.380	0.436	-14.7	123	-0.08
10	T,M	Trichlorofluoromethane	0.445	0.477	-7.2	87	-0.09
11	T,M	Acrolein	0.008	0.010	-25.0#	107	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.233	-27.3#	115	-0.06
13	T,M	Acetone	0.037	0.041	-10.8	95	-0.05
14	C,T,M	1,1-Dichloroethene	0.467	0.456	2.4	90	-0.05
15	T,M	tert-Butyl alcohol	0.009	0.010	-11.1	89	-0.05
16	T,M	Iodomethane	0.396	0.467	-17.9	109	-0.05
17	T,M	Methyl acetate	0.095	0.095	0.0	84	-0.03
18	T,M	Methylene chloride	0.336	0.343	-2.1	96	-0.05
19	T,M	Carbon disulfide	0.976	1.019	-4.4	87	-0.05
20	T,M	Acrylonitrile	0.035	0.040	-14.3	95	-0.03
21	T,M	tert-Butyl methyl ether (MT	0.462	0.520	-12.6	95	-0.05
22	T,M	trans-1,2-Dichloroethene	0.448	0.443	1.1	92	-0.05
23	T,M	Isopropyl ether (DIPE)	0.938	0.902	3.8	89	-0.05
24	T,M	Vinyl acetate	0.300	0.294	2.0	73	-0.03
25	P,T,M	1,1-Dichloroethane	0.525	0.553	-5.3	98	-0.03
26	T,M	2-Butanol	0.008	0.009	-12.5	99	-0.05
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.705	-3.4	92	-0.03
28	T,M	2-Butanone	0.057	0.057	0.0	83	-0.03
29	T,M	2,2-Dichloropropane	0.449	0.512	-14.0	104	-0.03
30	T,M	cis-1,2-Dichloroethene	0.322	0.347	-7.8	99	-0.03
31	C,T,M	Chloroform	0.535	0.574	-7.3	102	-0.03
32	T,M	Bromochloromethane	0.199	0.193	3.0	86	-0.02
33	T,M	Tetrahydrofuran	0.031	0.031	0.0	89	-0.03
34	S	Dibromofluoromethane	0.261	0.281	-7.7	95	-0.02
35	T,M	1,1,1-Trichloroethane	0.481	0.512	-6.4	96	-0.02
36	T,M	Cyclohexane	0.496	0.478	3.6	83	-0.03
37	T,M	2,2,4-Trimethylpentane	0.024	0.022	8.3	81	-0.03
38	T,M	1,1-Dichloropropene	0.146	0.149	-2.1	93	-0.02
39	T,M	Carbon tetrachloride	0.364	0.403	-10.7	99	-0.03
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.555	-5.9	95	-0.03
41	S	1,2-Dichloroethane-d4	0.230	0.226	1.7	83	-0.02

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.210	-5.7	99	-0.03
43	T,M	1,2-Dichloroethane	0.255	0.274	-7.5	88	-0.02
44	T,M	Trichloroethene	0.303	0.332	-9.6	102	-0.01
45	T,M	Methylcyclohexane	0.587	0.554	5.6	85	-0.01
46	C,T,M	1,2-Dichloropropane	0.258	0.267	-3.5	95	-0.01
47	T,M	Bromodichloromethane	0.353	0.388	-9.9	99	-0.01
48	T,M	1,4-Dioxane	0.001	0.001	0.0	87	0.02
49	T,M	Dibromomethane	0.112	0.119	-6.2	92	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.024	-50.0#	123	-0.01
51	T,M	4-Methyl-2-pentanone	0.127	0.131	-3.1	79	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.420	-8.8	95	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	86	0.00
54	S	Toluene-d8	1.375	1.414	-2.8	91	-0.01
55	C,T,M	Toluene	1.585	1.700	-7.3	97	-0.01
56	T,M	Ethyl methacrylate	0.227	0.258	-13.7	88	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.417	-16.2	94	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.227	-16.4	96	0.00
59	T,M	2-Hexanone	0.104	0.109	-4.8	79	0.00
60	T,M	1,3-Dichloropropane	0.368	0.412	-12.0	95	0.00
61	T,M	Tetrachloroethene	0.343	0.375	-9.3	103	0.00
62	T,M	Dibromochloromethane	0.232	0.274	-18.1	99	0.00
63	T,M	1,2-Dibromoethane	0.185	0.205	-10.8	91	-0.01
64	T,M	1-Chlorohexane	0.740	0.720	2.7	90	0.00
65	P,M	Chlorobenzene	0.949	1.035	-9.1	100	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.360	-24.1#	111	0.00
67	C,T,M	Ethylbenzene	1.875	2.001	-6.7	96	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.478	0.2	97	0.00
69	T,M	o-Xylene	1.463	1.992	-36.2#	110	-0.01
70	T,M	Styrene	1.070	1.548	-44.7#	114	0.00
71	T,M	Isopropylbenzene	1.986	2.656	-33.7#	110	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	105	0.00
73	P,T,M	Bromoform	0.246	0.305	-24.0#	119	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.139	9.7	87	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.584	-10.6	106	-0.01
76	S	4-Bromofluorobenzene	1.184	1.146	3.2	103	0.00
77	T,M	1,2,3-Trichloropropane	0.148	0.159	-7.4	105	0.00
78	T,M	n-Propylbenzene	5.921	5.831	1.5	109	0.00
79	T,M	Bromobenzene	0.858	0.981	-14.3	127	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.541	3.3	108	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.496	2.8	109	0.00
82	T,M	4-Chlorotoluene	3.211	3.117	2.9	109	0.00
83	T,M	tert-Butylbenzene	0.826	0.891	-7.9	118	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.497	2.4	108	0.00
85	T,M	sec-Butylbenzene	5.158	4.984	3.4	104	0.00
86	T,M	p-Isopropyltoluene	4.024	3.943	2.0	109	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.907	-10.6	123	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.208	1.6	108	0.00
89	T,M	1,4-Dichlorobenzene	1.713	1.844	-7.6	124	0.00
90	T,M	n-Butylbenzene	4.403	3.896	11.5	103	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.547	-10.0	122	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.078	-9.9	110	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	1.033	-8.5	120	0.00
94	T,M	Hexachlorobutadiene	0.610	0.673	-10.3	125	0.02
95	T,M	Naphthalene	1.172	1.226	-4.6	105	0.02
96	T,M	1,2,3-Trichlorobenzene	0.690	0.772	-11.9	118	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	73	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	8.491	15.1	56	-0.06
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	8.769	12.3	58	-0.07
6	C,T,M	Vinyl chloride	10.000	9.402	6.0	63	-0.07
7	T,M	Bromomethane	10.000	0.065	99.4#	0	0.16#
8	T,M	Chloroethane	10.000	10.045	-0.4	70	-0.04
9	T,M	Dichlorofluoromethane	10.000	11.561	-15.6	103	-0.06
10	T,M	Trichlorofluoromethane	10.000	11.204	-12.0	76	-0.06
11	T,M	Acrolein	50.000	49.633	0.7	70	-0.02
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	12.182	-21.8#	92	-0.06
13	T,M	Acetone	50.000	53.465	-6.9	76	-0.02
14	C,T,M	1,1-Dichloroethene	10.000	10.106	-1.1	78	-0.03
15	T,M	tert-Butyl alcohol	250.000	251.327	-0.5	69	-0.03
16	T,M	Iodomethane	10.000	11.945	-19.5	93	-0.03
17	T,M	Methyl acetate	10.000	9.907	0.9	70	-0.02
18	T,M	Methylene chloride	10.000	10.529	-5.3	83	-0.03
19	T,M	Carbon disulfide	10.000	9.544	4.6	67	-0.03
20	T,M	Acrylonitrile	50.000	57.011	-14.0	78	-0.02
21	T,M	tert-Butyl methyl ether (MT	10.000	11.634	-16.3	82	-0.03
22	T,M	trans-1,2-Dichloroethene	10.000	10.302	-3.0	80	-0.03
23	T,M	Isopropyl ether (DIPE)	10.000	9.675	3.2	75	-0.03
24	T,M	Vinyl acetate	10.000	5.938	40.6#	37	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.867	-8.7	84	0.00
26	T,M	2-Butanol	250.000	287.602	-15.0	78	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.429	-4.3	78	-0.02
28	T,M	2-Butanone	50.000	49.563	0.9	69	-0.02
29	T,M	2,2-Dichloropropane	10.000	10.274	-2.7	79	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	11.168	-11.7	86	-0.02
31	C,T,M	Chloroform	10.000	12.050	-20.5#	96	-0.02
32	T,M	Bromochloromethane	10.000	10.210	-2.1	75	-0.02
33	T,M	Tetrahydrofuran	10.000	10.423	-4.2	78	-0.02
34	S	Dibromofluoromethane	10.000	11.039	-10.4	82	0.00
35	T,M	1,1,1-Trichloroethane	10.000	11.480	-14.8	87	0.00
36	T,M	Cyclohexane	10.000	8.729	12.7	63	-0.02
37	T,M	2,2,4-Trimethylpentane	10.000	7.451	25.5#	55	-0.02
38	T,M	1,1-Dichloropropene	10.000	10.492	-4.9	80	0.00
39	T,M	Carbon tetrachloride	10.000	11.812	-18.1	88	-0.02
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.569	-5.7	80	-0.02
41	S	1,2-Dichloroethane-d4	10.000	11.339	-13.4	80	-0.02

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.863	-8.6	85	-0.02
43	T,M	1,2-Dichloroethane	10.000	12.282	-22.8#	84	0.00
44	T,M	Trichloroethene	10.000	11.243	-12.4	88	0.00
45	T,M	Methylcyclohexane	10.000	8.754	12.5	66	0.00
46	C,T,M	1,2-Dichloropropane	10.000	10.462	-4.6	81	-0.01
47	T,M	Bromodichloromethane	10.000	12.037	-20.4#	90	0.00
48	T,M	1,4-Dioxane	200.000	183.308	8.3	64	0.00
49	T,M	Dibromomethane	10.000	11.459	-14.6	83	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	12.058	-20.6#	101	0.00
51	T,M	4-Methyl-2-pentanone	50.000	53.343	-6.7	68	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	11.297	-13.0	83	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	72	0.00
54	S	Toluene-d8	10.000	10.561	-5.6	78	-0.01
55	C,T,M	Toluene	10.000	11.047	-10.5	84	0.00
56	T,M	Ethyl methacrylate	10.000	11.469	-14.7	74	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	12.184	-21.8#	82	0.00
58	T,M	1,1,2-Trichloroethane	10.000	12.085	-20.9#	84	0.00
59	T,M	2-Hexanone	50.000	52.361	-4.7	66	0.00
60	T,M	1,3-Dichloropropane	10.000	11.811	-18.1	84	0.00
61	T,M	Tetrachloroethene	10.000	11.084	-10.8	87	0.00
62	T,M	Dibromochloromethane	10.000	12.973	-29.7#	91	0.00
63	T,M	1,2-Dibromoethane	10.000	11.160	-11.6	77	0.00
64	T,M	1-Chlorohexane	10.000	9.186	8.1	71	0.00
65	P,M	Chlorobenzene	10.000	11.266	-12.7	86	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	10.000	13.226	-32.3#	99	0.00
67	C,T,M	Ethylbenzene	10.000	11.176	-11.8	84	0.00
68	T,M	m-Xylene & p-Xylene	20.000	20.511	-2.6	83	0.00
69	T,M	o-Xylene	10.000	16.274	-62.7#	110	0.00
70	T,M	Styrene	10.000	17.177	-71.8#	113	0.00
71	T,M	Isopropylbenzene	10.000	15.846	-58.5#	109	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	103	0.00
73	P,T,M	Bromoform	10.000	10.314	-3.1	113	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	8.536	14.6	81	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	11.113	-11.1	104	0.00
76	S	4-Bromofluorobenzene	10.000	9.427	5.7	98	0.02
77	T,M	1,2,3-Trichloropropane	10.000	10.431	-4.3	99	0.00
78	T,M	n-Propylbenzene	10.000	9.733	2.7	105	0.00
79	T,M	Bromobenzene	10.000	11.585	-15.9	126	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	10.028	-0.3	109	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	9.839	1.6	108	0.00
82	T,M	4-Chlorotoluene	10.000	10.049	-0.5	111	0.00
83	T,M	tert-Butylbenzene	10.000	10.863	-8.6	116	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	9.892	1.1	107	0.00
85	T,M	sec-Butylbenzene	10.000	9.655	3.5	102	0.00
86	T,M	p-Isopropyltoluene	10.000	9.720	2.8	105	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.103	-11.0	120	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.099	-1.0	108	0.00
89	T,M	1,4-Dichlorobenzene	10.000	10.697	-7.0	120	0.00
90	T,M	n-Butylbenzene	10.000	8.652	13.5	98	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.120	-11.2	120	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	10.530	-5.3	101	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.261	-2.6	111	0.00
94	T,M	Hexachlorobutadiene	10.000	10.308	-3.1	114	0.02
95	T,M	Naphthalene	10.000	9.893	1.1	97	0.00
96	T,M	1,2,3-Trichlorobenzene	10.000	10.813	-8.1	112	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	73	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.349	15.1	56	-0.06
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.272	12.3	58	-0.07
6	C,T,M	Vinyl chloride	0.273	0.257	5.9	63	-0.07
7	T,M	Bromomethane	0.197	0.001	99.5#	0#	0.16#
8	T,M	Chloroethane	0.207	0.208	-0.5	70	-0.04
9	T,M	Dichlorofluoromethane	0.380	0.439	-15.5	103	-0.06
10	T,M	Trichlorofluoromethane	0.445	0.498	-11.9	76	-0.06
11	T,M	Acrolein	0.008	0.008	0.0	70	-0.02
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.223	-21.9#	92	-0.06
13	T,M	Acetone	0.037	0.039	-5.4	76	-0.02
14	C,T,M	1,1-Dichloroethene	0.467	0.471	-0.9	78	-0.03
15	T,M	tert-Butyl alcohol	0.009	0.009	0.0	69	-0.03
16	T,M	Iodomethane	0.396	0.473	-19.4	93	-0.03
17	T,M	Methyl acetate	0.095	0.094	1.1	70	-0.02
18	T,M	Methylene chloride	0.336	0.354	-5.4	83	-0.03
19	T,M	Carbon disulfide	0.976	0.931	4.6	67	-0.03
20	T,M	Acrylonitrile	0.035	0.040	-14.3	78	-0.02
21	T,M	tert-Butyl methyl ether (MT	0.462	0.537	-16.2	82	-0.03
22	T,M	trans-1,2-Dichloroethene	0.448	0.462	-3.1	80	-0.03
23	T,M	Isopropyl ether (DIPE)	0.938	0.908	3.2	75	-0.03
24	T,M	Vinyl acetate	0.300	0.178	40.7#	37#	-0.02
25	P,T,M	1,1-Dichloroethane	0.525	0.571	-8.8	84	0.00
26	T,M	2-Butanol	0.008	0.009	-12.5	78	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.711	-4.3	78	-0.02
28	T,M	2-Butanone	0.057	0.056	1.8	69	-0.02
29	T,M	2,2-Dichloropropane	0.449	0.462	-2.9	79	-0.02
30	T,M	cis-1,2-Dichloroethene	0.322	0.359	-11.5	86	-0.02
31	C,T,M	Chloroform	0.535	0.645	-20.6#	96	-0.02
32	T,M	Bromochloromethane	0.199	0.203	-2.0	75	-0.02
33	T,M	Tetrahydrofuran	0.031	0.033	-6.5	78	-0.02
34	S	Dibromofluoromethane	0.261	0.288	-10.3	82	0.00
35	T,M	1,1,1-Trichloroethane	0.481	0.552	-14.8	87	0.00
36	T,M	Cyclohexane	0.496	0.433	12.7	63	-0.02
37	T,M	2,2,4-Trimethylpentane	0.024	0.018	25.0#	55	0.02
38	T,M	1,1-Dichloropropene	0.146	0.153	-4.8	80	0.00
39	T,M	Carbon tetrachloride	0.364	0.430	-18.1	88	-0.02
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.554	-5.7	80	-0.02
41	S	1,2-Dichloroethane-d4	0.230	0.261	-13.5	80	-0.02

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.244	-8.6	85	-0.02
43	T,M	1,2-Dichloroethane	0.255	0.313	-22.7#	84	0.00
44	T,M	Trichloroethene	0.303	0.340	-12.2	88	0.00
45	T,M	Methylcyclohexane	0.587	0.514	12.4	66	0.00
46	C,T,M	1,2-Dichloropropane	0.258	0.270	-4.7	81	-0.01
47	T,M	Bromodichloromethane	0.353	0.424	-20.1#	90	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	64	0.00
49	T,M	Dibromomethane	0.112	0.128	-14.3	83	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.024	-50.0#	101	0.00
51	T,M	4-Methyl-2-pentanone	0.127	0.135	-6.3	68	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.436	-13.0	83	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	72	0.00
54	S	Toluene-d8	1.375	1.452	-5.6	78	-0.01
55	C,T,M	Toluene	1.585	1.751	-10.5	84	0.00
56	T,M	Ethyl methacrylate	0.227	0.260	-14.5	74	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.437	-21.7#	82	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.236	-21.0#	84	0.00
59	T,M	2-Hexanone	0.104	0.109	-4.8	66	0.00
60	T,M	1,3-Dichloropropane	0.368	0.434	-17.9	84	0.00
61	T,M	Tetrachloroethene	0.343	0.380	-10.8	87	0.00
62	T,M	Dibromochloromethane	0.232	0.302	-30.2#	91	0.00
63	T,M	1,2-Dibromoethane	0.185	0.206	-11.4	77	0.00
64	T,M	1-Chlorohexane	0.740	0.680	8.1	71	0.00
65	P,M	Chlorobenzene	0.949	1.069	-12.6	86	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.383	-32.1#	99	0.00
67	C,T,M	Ethylbenzene	1.875	2.096	-11.8	84	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.519	-2.6	83	0.00
69	T,M	o-Xylene	1.463	2.381	-62.7#	110	0.00
70	T,M	Styrene	1.070	1.838	-71.8#	113	0.00
71	T,M	Isopropylbenzene	1.986	3.147	-58.5#	109	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	103	0.00
73	P,T,M	Bromoform	0.246	0.296	-20.3#	113	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.131	14.9	81	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.587	-11.2	104	0.00
76	S	4-Bromofluorobenzene	1.184	1.116	5.7	98	0.02
77	T,M	1,2,3-Trichloropropane	0.148	0.155	-4.7	99	0.00
78	T,M	n-Propylbenzene	5.921	5.763	2.7	105	0.00
79	T,M	Bromobenzene	0.858	0.994	-15.9	126	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.673	-0.3	109	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.540	1.6	108	0.00
82	T,M	4-Chlorotoluene	3.211	3.227	-0.5	111	0.00
83	T,M	tert-Butylbenzene	0.826	0.897	-8.6	116	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.544	1.1	107	0.00
85	T,M	sec-Butylbenzene	5.158	4.980	3.5	102	0.00
86	T,M	p-Isopropyltoluene	4.024	3.912	2.8	105	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.914	-11.0	120	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.294	-1.0	103	0.00
89	T,M	1,4-Dichlorobenzene	1.713	1.833	-7.0	120	0.00
90	T,M	n-Butylbenzene	4.403	3.809	13.5	99	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.564	-11.2	120	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.074	-4.2	101	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	0.977	-2.6	111	0.00
94	T,M	Hexachlorobutadiene	0.610	0.629	-3.1	114	0.02
95	T,M	Naphthalene	1.172	1.159	1.1	97	0.00
96	T,M	1,2,3-Trichlorobenzene	0.690	0.746	-8.1	112	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	78	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	8.285	17.1	58	-0.07
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	8.872	11.3	63	-0.08
6	C,T,M	Vinyl chloride	10.000	9.339	6.6	67	-0.07
7	T,M	Bromomethane	10.000	0.000	100.0#	0	-3.24#
8	T,M	Chloroethane	10.000	9.971	0.3	75	-0.06
9	T,M	Dichlorofluoromethane	10.000	11.150	-11.5	107	-0.07
10	T,M	Trichlorofluoromethane	10.000	10.151	-1.5	74	-0.06
11	T,M	Acrolein	50.000	50.761	-1.5	77	-0.01
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	11.076	-10.8	90	-0.06
13	T,M	Acetone	50.000	50.910	-1.8	77	-0.01
14	C,T,M	1,1-Dichloroethene	10.000	9.854	1.5	81	-0.03
15	T,M	tert-Butyl alcohol	250.000	232.104	7.2	69	-0.03
16	T,M	Iodomethane	10.000	11.368	-13.7	95	-0.03
17	T,M	Methyl acetate	10.000	9.772	2.3	74	-0.02
18	T,M	Methylene chloride	10.000	10.210	-2.1	86	-0.03
19	T,M	Carbon disulfide	10.000	10.038	-0.4	75	-0.03
20	T,M	Acrylonitrile	50.000	55.800	-11.6	82	-0.02
21	T,M	tert-Butyl methyl ether (MT	10.000	11.000	-10.0	84	-0.03
22	T,M	trans-1,2-Dichloroethene	10.000	10.056	-0.6	84	-0.03
23	T,M	Isopropyl ether (DIPE)	10.000	9.778	2.2	81	-0.02
24	T,M	Vinyl acetate	10.000	5.304	47.0#	36	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.960	-9.6	91	0.00
26	T,M	2-Butanol	250.000	274.446	-9.8	79	-0.01
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.110	-1.1	81	-0.02
28	T,M	2-Butanone	50.000	49.258	1.5	73	0.00
29	T,M	2,2-Dichloropropane	10.000	10.193	-1.9	84	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	10.975	-9.7	91	-0.02
31	C,T,M	Chloroform	10.000	11.573	-15.7	99	-0.02
32	T,M	Bromochloromethane	10.000	9.687	3.1	77	-0.02
33	T,M	Tetrahydrofuran	10.000	9.377	6.2	75	-0.01
34	S	Dibromofluoromethane	10.000	10.700	-7.0	85	0.00
35	T,M	1,1,1-Trichloroethane	10.000	11.216	-12.2	91	0.00
36	T,M	Cyclohexane	10.000	8.790	12.1	68	-0.01
37	T,M	2,2,4-Trimethylpentane	10.000	7.912	20.9#	62	-0.03
38	T,M	1,1-Dichloropropene	10.000	9.997	0.0	82	0.00
39	T,M	Carbon tetrachloride	10.000	11.115	-11.1	89	-0.02
40	T,M	tert-Amyl methyl ether (TAM	10.000	9.987	0.1	81	-0.02
41	S	1,2-Dichloroethane-d4	10.000	10.717	-7.2	81	-0.01

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.757	-7.6	91	-0.02
43	T,M	1,2-Dichloroethane	10.000	11.923	-19.2	88	0.00
44	T,M	Trichloroethene	10.000	11.195	-12.0	94	0.00
45	T,M	Methylcyclohexane	10.000	8.264	17.4	67	0.00
46	C,T,M	1,2-Dichloropropane	10.000	10.513	-5.1	87	0.00
47	T,M	Bromodichloromethane	10.000	11.471	-14.7	92	0.00
48	T,M	1,4-Dioxane	200.000	171.947	14.0	65	0.00
49	T,M	Dibromomethane	10.000	10.954	-9.5	85	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	11.843	-18.4	107	0.00
51	T,M	4-Methyl-2-pentanone	50.000	51.720	-3.4	71	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	10.934	-9.3	86	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	76	0.00
54	S	Toluene-d8	10.000	10.546	-5.5	83	0.00
55	C,T,M	Toluene	10.000	10.963	-9.6	88	0.00
56	T,M	Ethyl methacrylate	10.000	11.731	-17.3	80	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	11.934	-19.3	85	0.00
58	T,M	1,1,2-Trichloroethane	10.000	11.824	-18.2	87	0.00
59	T,M	2-Hexanone	50.000	51.407	-2.8	68	0.00
60	T,M	1,3-Dichloropropane	10.000	11.552	-15.5	87	0.00
61	T,M	Tetrachloroethene	10.000	10.681	-6.8	89	0.00
62	T,M	Dibromochloromethane	10.000	12.471	-24.7#	93	0.00
63	T,M	1,2-Dibromoethane	10.000	11.119	-11.2	81	0.00
64	T,M	1-Chlorohexane	10.000	9.426	5.7	78	0.00
65	P,M	Chlorobenzene	10.000	11.288	-12.9	92	0.00
66	T,M	1,1,1,2-Tetrachloroethane	10.000	12.913	-29.1#	102	0.00
67	C,T,M	Ethylbenzene	10.000	11.180	-11.8	89	0.00
68	T,M	m-Xylene & p-Xylene	20.000	20.855	-4.3	90	0.00
69	T,M	o-Xylene	10.000	13.594	-35.9#	97	0.00
70	T,M	Styrene	10.000	14.048	-40.5#	98	0.00
71	T,M	Isopropylbenzene	10.000	12.975	-29.8#	95	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	103	0.00
73	P,T,M	Bromoform	10.000	8.789	12.1	96	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	7.541	24.6#	72	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	10.967	-9.7	103	0.00
76	S	4-Bromofluorobenzene	10.000	9.784	2.2	102	0.02
77	T,M	1,2,3-Trichloropropane	10.000	10.478	-4.8	100	0.00
78	T,M	n-Propylbenzene	10.000	9.791	2.1	106	0.00
79	T,M	Bromobenzene	10.000	11.545	-15.4	125	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	9.973	0.3	109	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	9.973	0.3	110	0.00
82	T,M	4-Chlorotoluene	10.000	10.164	-1.6	112	0.00
83	T,M	tert-Butylbenzene	10.000	10.959	-9.6	118	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	9.997	0.0	108	0.00
85	T,M	sec-Butylbenzene	10.000	9.990	0.1	106	0.00
86	T,M	p-Isopropyltoluene	10.000	9.865	1.3	107	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.283	-12.8	123	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.001	-0.0	108	0.00
89	T,M	1,4-Dichlorobenzene	10.000	10.593	-5.9	119	0.00
90	T,M	n-Butylbenzene	10.000	8.656	13.4	98	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.273	-12.7	122	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	10.477	-4.8	101	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.427	-4.3	113	0.00
94	T,M	Hexachlorobutadiene	10.000	10.817	-8.2	120	0.00
95	T,M	Naphthalene	10.000	10.403	-4.0	102	0.00
96	T,M	1,2,3-Trichlorobenzene	10.000	11.035	-10.4	114	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	78	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.340	17.3	58	-0.07
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.275	11.3	63	-0.08
6	C,T,M	Vinyl chloride	0.273	0.255	6.6	67	-0.07
7	T,M	Bromomethane	0.197	0.000	100.0#	0#	-3.24#
8	T,M	Chloroethane	0.207	0.207	0.0	75	-0.06
9	T,M	Dichlorofluoromethane	0.380	0.423	-11.3	107	-0.07
10	T,M	Trichlorofluoromethane	0.445	0.452	-1.6	74	-0.06
11	T,M	Acrolein	0.008	0.008	0.0	77	-0.01
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.203	-10.9	90	-0.06
13	T,M	Acetone	0.037	0.038	-2.7	77	-0.01
14	C,T,M	1,1-Dichloroethene	0.467	0.460	1.5	81	-0.03
15	T,M	tert-Butyl alcohol	0.009	0.009	0.0	69	-0.03
16	T,M	Iodomethane	0.396	0.451	-13.9	95	-0.03
17	T,M	Methyl acetate	0.095	0.093	2.1	74	-0.02
18	T,M	Methylene chloride	0.336	0.343	-2.1	86	-0.03
19	T,M	Carbon disulfide	0.976	0.980	-0.4	75	-0.03
20	T,M	Acrylonitrile	0.035	0.039	-11.4	82	-0.02
21	T,M	tert-Butyl methyl ether (MT	0.462	0.508	-10.0	84	-0.03
22	T,M	trans-1,2-Dichloroethene	0.448	0.451	-0.7	84	-0.03
23	T,M	Isopropyl ether (DIPE)	0.938	0.917	2.2	81	-0.02
24	T,M	Vinyl acetate	0.300	0.159	47.0#	36#	-0.02
25	P,T,M	1,1-Dichloroethane	0.525	0.576	-9.7	91	0.00
26	T,M	2-Butanol	0.008	0.008	0.0	79	-0.01
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.690	-1.2	81	-0.02
28	T,M	2-Butanone	0.057	0.056	1.8	73	0.00
29	T,M	2,2-Dichloropropane	0.449	0.458	-2.0	84	-0.02
30	T,M	cis-1,2-Dichloroethene	0.322	0.353	-9.6	91	-0.02
31	C,T,M	Chloroform	0.535	0.620	-15.9	99	-0.02
32	T,M	Bromochloromethane	0.199	0.193	3.0	77	-0.02
33	T,M	Tetrahydrofuran	0.031	0.030	3.2	75	-0.01
34	S	Dibromofluoromethane	0.261	0.279	-6.9	85	0.00
35	T,M	1,1,1-Trichloroethane	0.481	0.539	-12.1	91	0.00
36	T,M	Cyclohexane	0.495	0.436	12.1	68	-0.01
37	T,M	2,2,4-Trimethylpentane	0.024	0.019	20.8#	62	-0.01
38	T,M	1,1-Dichloropropene	0.146	0.146	0.0	82	0.00
39	T,M	Carbon tetrachloride	0.364	0.405	-11.3	89	-0.02
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.524	0.0	81	-0.02
41	S	1,2-Dichloroethane-d4	0.230	0.247	-7.4	81	-0.01

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D
Acq On : 5 Nov 2024 5:03 am
Sample : EVO01J12201
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 26
Operator: DNguye/CLingl
Inst : 01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.232	-7.6	91	-0.02
43	T,M	1,2-Dichloroethane	0.255	0.304	-19.2	88	0.00
44	T,M	Trichloroethene	0.303	0.339	-11.9	94	0.00
45	T,M	Methylcyclohexane	0.587	0.485	17.4	67	0.00
46	C,T,M	1,2-Dichloropropane	0.258	0.271	-5.0	87	0.00
47	T,M	Bromodichloromethane	0.353	0.405	-14.7	92	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	65	0.00
49	T,M	Dibromomethane	0.112	0.123	-9.8	85	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.023	-43.7#	107	0.00
51	T,M	4-Methyl-2-pentanone	0.127	0.131	-3.1	71	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.422	-9.3	86	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	76	0.00
54	S	Toluene-d8	1.375	1.450	-5.5	83	0.00
55	C,T,M	Toluene	1.585	1.738	-9.7	88	0.00
56	T,M	Ethyl methacrylate	0.227	0.266	-17.2	80	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.428	-19.2	85	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.231	-18.5	87	0.00
59	T,M	2-Hexanone	0.104	0.107	-2.9	68	0.00
60	T,M	1,3-Dichloropropane	0.368	0.425	-15.5	87	0.00
61	T,M	Tetrachloroethene	0.343	0.366	-6.7	89	0.00
62	T,M	Dibromochloromethane	0.232	0.290	-25.0#	93	0.00
63	T,M	1,2-Dibromoethane	0.185	0.206	-11.4	81	0.00
64	T,M	1-Chlorohexane	0.740	0.698	5.7	78	0.00
65	P,M	Chlorobenzene	0.949	1.071	-12.9	92	0.00
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.374	-29.0#	102	0.00
67	C,T,M	Ethylbenzene	1.875	2.096	-11.8	89	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.544	-4.3	90	0.00
69	T,M	o-Xylene	1.463	1.989	-36.0#	97	0.00
70	T,M	Styrene	1.070	1.503	-40.5#	98	0.00
71	T,M	Isopropylbenzene	1.986	2.577	-29.8#	95	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	103	0.00
73	P,T,M	Bromoform	0.246	0.252	-2.4	96	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.116	24.7#	72	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.579	-9.7	103	0.00
76	S	4-Bromofluorobenzene	1.184	1.158	2.2	102	0.02
77	T,M	1,2,3-Trichloropropane	0.148	0.155	-4.7	100	0.00
78	T,M	n-Propylbenzene	5.921	5.797	2.1	106	0.00
79	T,M	Bromobenzene	0.858	0.990	-15.4	125	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.653	0.3	109	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.589	0.3	110	0.00
82	T,M	4-Chlorotoluene	3.211	3.263	-1.6	112	0.00
83	T,M	tert-Butylbenzene	0.826	0.905	-9.6	118	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.582	0.0	108	0.00
85	T,M	sec-Butylbenzene	5.158	5.153	0.1	106	0.00
86	T,M	p-Isopropyltoluene	4.024	3.970	1.3	107	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.945	-12.8	123	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.262	-0.0	108	0.00
89	T,M	1,4-Dichlorobenzene	1.713	1.815	-6.0	119	0.00
90	T,M	n-Butylbenzene	4.403	3.811	13.4	98	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.585	-12.7	122	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.074	-4.2	101	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	0.993	-4.3	113	0.00
94	T,M	Hexachlorobutadiene	0.610	0.660	-8.2	120	0.00
95	T,M	Naphthalene	1.172	1.219	-4.0	102	0.00
96	T,M	1,2,3-Trichlorobenzene	0.690	0.761	-10.3	114	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	125	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	6.995	30.0#	79	-0.08
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	10.041	-0.4	114	-0.10
6	C,T,M	Vinyl chloride	10.000	10.121	-1.2	117	-0.08
7	T,M	Bromomethane	10.000	0.000	100.0#	0	-3.24#
8	T,M	Chloroethane	10.000	10.812	-8.1	129	-0.06
9	T,M	Dichlorofluoromethane	10.000	10.513	-5.1	161	-0.08
10	T,M	Trichlorofluoromethane	10.000	8.504	15.0	99	-0.07
11	T,M	Acrolein	50.000	55.298	-10.6	134	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	10.274	-2.7	133	-0.08
13	T,M	Acetone	50.000	48.690	2.6	118	-0.03
14	C,T,M	1,1-Dichloroethene	10.000	9.314	6.9	123	-0.03
15	T,M	tert-Butyl alcohol	250.000	237.416	5.0	112	-0.03
16	T,M	Iodomethane	10.000	11.294	-12.9	150	-0.03
17	T,M	Methyl acetate	10.000	10.711	-7.1	129	-0.03
18	T,M	Methylene chloride	10.000	10.625	-6.3	143	-0.03
19	T,M	Carbon disulfide	10.000	10.082	-0.8	121	-0.03
20	T,M	Acrylonitrile	50.000	62.300	-24.6#	147	-0.03
21	T,M	tert-Butyl methyl ether (MT	10.000	10.720	-7.2	130	-0.03
22	T,M	trans-1,2-Dichloroethene	10.000	9.856	1.4	131	-0.03
23	T,M	Isopropyl ether (DIPE)	10.000	10.448	-4.5	138	-0.03
24	T,M	Vinyl acetate	10.000	5.562	44.4#	60	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.671	-6.7	142	-0.02
26	T,M	2-Butanol	250.000	294.110	-17.6	136	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.006	-0.1	127	-0.02
28	T,M	2-Butanone	50.000	52.463	-4.9	125	-0.02
29	T,M	2,2-Dichloropropane	10.000	8.755	12.4	115	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	11.171	-11.7	148	-0.02
31	C,T,M	Chloroform	10.000	10.552	-5.5	144	-0.02
32	T,M	Bromochloromethane	10.000	10.229	-2.3	129	-0.02
33	T,M	Tetrahydrofuran	10.000	10.435	-4.4	134	-0.02
34	S	Dibromofluoromethane	10.000	10.305	-3.0	131	-0.02
35	T,M	1,1,1-Trichloroethane	10.000	9.326	6.7	121	-0.02
36	T,M	Cyclohexane	10.000	8.308	16.9	102	-0.02
37	T,M	2,2,4-Trimethylpentane	10.000	7.915	20.8#	99	-0.03
38	T,M	1,1-Dichloropropene	10.000	10.075	-0.7	132	0.00
39	T,M	Carbon tetrachloride	10.000	9.300	7.0	119	-0.02
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.044	-0.4	130	-0.02
41	S	1,2-Dichloroethane-d4	10.000	9.000	10.0	109	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.887	-8.9	146	-0.02
43	T,M	1,2-Dichloroethane	10.000	9.750	2.5	114	0.00
44	T,M	Trichloroethene	10.000	11.316	-13.2	151	0.00
45	T,M	Methylcyclohexane	10.000	8.119	18.8	104	-0.01
46	C,T,M	1,2-Dichloropropane	10.000	10.868	-8.7	143	-0.01
47	T,M	Bromodichloromethane	10.000	10.612	-6.1	136	0.00
48	T,M	1,4-Dioxane	200.000	202.762	-1.4	122	0.00
49	T,M	Dibromomethane	10.000	10.111	-1.1	125	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	12.783	-27.8#	185	0.00
51	T,M	4-Methyl-2-pentanone	50.000	52.617	-5.2	115	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	10.585	-5.9	133	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	121	0.00
54	S	Toluene-d8	10.000	10.628	-6.3	132	-0.01
55	C,T,M	Toluene	10.000	10.864	-8.6	138	0.00
56	T,M	Ethyl methacrylate	10.000	11.450	-14.5	124	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	10.834	-8.3	123	0.00
58	T,M	1,1,2-Trichloroethane	10.000	11.589	-15.9	135	0.00
59	T,M	2-Hexanone	50.000	50.457	-0.9	106	0.00
60	T,M	1,3-Dichloropropane	10.000	11.332	-13.3	135	0.00
61	T,M	Tetrachloroethene	10.000	10.177	-1.8	134	0.00
62	T,M	Dibromochloromethane	10.000	11.742	-17.4	139	0.00
63	T,M	1,2-Dibromoethane	10.000	10.910	-9.1	126	0.00
64	T,M	1-Chlorohexane	10.000	9.279	7.2	121	0.00
65	P,M	Chlorobenzene	10.000	10.957	-9.6	141	0.00
66	T,M	1,1,1,2-Tetrachloroethane	10.000	11.842	-18.4	149	0.00
67	C,T,M	Ethylbenzene	10.000	10.445	-4.5	132	0.00
68	T,M	m-Xylene & p-Xylene	20.000	19.188	4.1	131	0.00
69	T,M	o-Xylene	10.000	10.044	-0.4	114	0.00
70	T,M	Styrene	10.000	10.788	-7.9	119	0.00
71	T,M	Isopropylbenzene	10.000	9.861	1.4	114	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	107	0.00
73	P,T,M	Bromoform	10.000	10.457	-4.6	120	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	7.972	20.3#	79	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	10.904	-9.0	107	0.00
76	S	4-Bromofluorobenzene	10.000	9.792	2.1	106	0.02
77	T,M	1,2,3-Trichloropropane	10.000	10.668	-6.7	106	0.00
78	T,M	n-Propylbenzene	10.000	9.721	2.8	110	0.00
79	T,M	Bromobenzene	10.000	11.583	-15.8	131	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	9.970	0.3	114	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D
Acq On : 5 Nov 2024 5:31 am
Sample : EVO01J12202
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 27
Operator: DNguyë/CLingl
Inst : 01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	9.735	2.7	112	0.00
82	T,M	4-Chlorotoluene	10.000	10.024	-0.2	115	0.01
83	T,M	tert-Butylbenzene	10.000	11.008	-10.1	123	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	10.006	-0.1	113	0.00
85	T,M	sec-Butylbenzene	10.000	9.704	3.0	107	0.00
86	T,M	p-Isopropyltoluene	10.000	9.711	2.9	110	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.090	-10.9	126	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.015	-0.2	113	0.01
89	T,M	1,4-Dichlorobenzene	10.000	10.846	-8.5	127	0.00
90	T,M	n-Butylbenzene	10.000	8.546	14.5	101	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.040	-10.4	125	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	10.721	-7.2	108	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.732	-7.3	122	0.00
94	T,M	Hexachlorobutadiene	10.000	10.637	-6.4	124	0.01
95	T,M	Naphthalene	10.000	10.688	-6.9	109	0.01
96	T,M	1,2,3-Trichlorobenzene	10.000	11.170	-11.7	121	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	125	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.287	30.2#	79	-0.08
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.311	-0.3	114	-0.10
6	C,T,M	Vinyl chloride	0.273	0.277	-1.5	117	-0.08
7	T,M	Bromomethane	0.197	0.000	100.0#	0#	-3.24#
8	T,M	Chloroethane	0.207	0.224	-8.2	129	-0.06
9	T,M	Dichlorofluoromethane	0.380	0.399	-5.0	161	-0.08
10	T,M	Trichlorofluoromethane	0.445	0.378	15.1	99	-0.07
11	T,M	Acrolein	0.008	0.008	0.0	134	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.188	-2.7	133	-0.08
13	T,M	Acetone	0.037	0.036	2.7	118	-0.03
14	C,T,M	1,1-Dichloroethene	0.467	0.435	6.9	123	-0.03
15	T,M	tert-Butyl alcohol	0.009	0.009	0.0	112	-0.03
16	T,M	Iodomethane	0.396	0.448	-13.1	150	-0.03
17	T,M	Methyl acetate	0.095	0.102	-7.4	129	-0.03
18	T,M	Methylene chloride	0.336	0.357	-6.2	143	-0.03
19	T,M	Carbon disulfide	0.976	0.984	-0.8	121	-0.03
20	T,M	Acrylonitrile	0.035	0.043	-22.9#	147	-0.03
21	T,M	tert-Butyl methyl ether (MT	0.462	0.495	-7.1	130	-0.03
22	T,M	trans-1,2-Dichloroethene	0.448	0.442	1.3	131	-0.03
23	T,M	Isopropyl ether (DIPE)	0.938	0.980	-4.5	138	-0.03
24	T,M	Vinyl acetate	0.300	0.167	44.3#	60	-0.02
25	P,T,M	1,1-Dichloroethane	0.525	0.561	-6.9	142	-0.02
26	T,M	2-Butanol	0.008	0.009	-12.5	136	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.682	0.0	127	-0.02
28	T,M	2-Butanone	0.057	0.059	-3.5	125	-0.02
29	T,M	2,2-Dichloropropane	0.449	0.394	12.2	115	-0.02
30	T,M	cis-1,2-Dichloroethene	0.322	0.359	-11.5	148	-0.02
31	C,T,M	Chloroform	0.535	0.565	-5.6	144	-0.02
32	T,M	Bromochloromethane	0.199	0.204	-2.5	129	-0.02
33	T,M	Tetrahydrofuran	0.031	0.033	-6.5	134	-0.02
34	S	Dibromofluoromethane	0.261	0.269	-3.1	131	-0.02
35	T,M	1,1,1-Trichloroethane	0.481	0.448	6.9	121	-0.02
36	T,M	Cyclohexane	0.496	0.412	16.9	102	-0.02
37	T,M	2,2,4-Trimethylpentane	0.024	0.019	20.8#	99	-0.03
38	T,M	1,1-Dichloropropene	0.146	0.147	-0.7	132	0.00
39	T,M	Carbon tetrachloride	0.364	0.339	6.9	119	-0.02
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.527	-0.6	130	-0.02
41	S	1,2-Dichloroethane-d4	0.230	0.207	10.0	109	-0.02

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.247	-8.9	146	-0.02
43	T,M	1,2-Dichloroethane	0.255	0.249	2.4	114	0.00
44	T,M	Trichloroethene	0.303	0.343	-13.2	151	0.00
45	T,M	Methylcyclohexane	0.587	0.476	18.9	104	-0.01
46	C,T,M	1,2-Dichloropropane	0.258	0.280	-8.5	143	-0.01
47	T,M	Bromodichloromethane	0.353	0.374	-5.9	136	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	122	0.00
49	T,M	Dibromomethane	0.112	0.113	-0.9	125	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.025	-56.3#	185	0.00
51	T,M	4-Methyl-2-pentanone	0.127	0.133	-4.7	115	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.409	-6.0	133	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	121	0.00
54	S	Toluene-d8	1.375	1.462	-6.3	132	-0.01
55	C,T,M	Toluene	1.585	1.722	-8.6	138	0.00
56	T,M	Ethyl methacrylate	0.227	0.260	-14.5	124	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.389	-8.4	123	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.226	-15.9	135	0.00
59	T,M	2-Hexanone	0.104	0.105	-1.0	106	0.00
60	T,M	1,3-Dichloropropane	0.368	0.416	-13.0	135	0.00
61	T,M	Tetrachloroethene	0.343	0.349	-1.7	134	0.00
62	T,M	Dibromochloromethane	0.232	0.273	-17.7	139	0.00
63	T,M	1,2-Dibromoethane	0.185	0.202	-9.2	126	0.00
64	T,M	1-Chlorohexane	0.740	0.687	7.2	121	0.00
65	P,M	Chlorobenzene	0.949	1.040	-9.6	141	0.00
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.343	-18.3	149	0.00
67	C,T,M	Ethylbenzene	1.875	1.959	-4.5	132	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.421	4.1	131	0.00
69	T,M	o-Xylene	1.463	1.469	-0.4	114	0.00
70	T,M	Styrene	1.070	1.154	-7.9	119	0.00
71	T,M	Isopropylbenzene	1.986	1.958	1.4	114	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	107	0.00
73	P,T,M	Bromoform	0.246	0.301	-22.4#	120	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.123	20.1#	79	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.576	-9.1	107	0.00
76	S	4-Bromofluorobenzene	1.184	1.159	2.1	106	0.02
77	T,M	1,2,3-Trichloropropane	0.148	0.158	-6.8	106	0.00
78	T,M	n-Propylbenzene	5.921	5.756	2.8	110	0.00
79	T,M	Bromobenzene	0.858	0.993	-15.7	131	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.652	0.3	114	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EV001J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\V001J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.503	2.6	112	0.00
82	T,M	4-Chlorotoluene	3.211	3.219	-0.2	115	0.01
83	T,M	tert-Butylbenzene	0.826	0.909	-10.0	123	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.585	-0.1	113	0.00
85	T,M	sec-Butylbenzene	5.158	5.006	2.9	107	0.00
86	T,M	p-Isopropyltoluene	4.024	3.908	2.9	110	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.912	-10.9	126	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.266	-0.2	113	0.01
89	T,M	1,4-Dichlorobenzene	1.713	1.858	-8.5	127	0.00
90	T,M	n-Butylbenzene	4.403	3.763	14.5	101	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.553	-10.5	125	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.076	-7.0	108	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	1.022	-7.4	122	0.00
94	T,M	Hexachlorobutadiene	0.610	0.649	-6.4	124	0.01
95	T,M	Naphthalene	1.172	1.253	-6.9	109	0.01
96	T,M	1,2,3-Trichlorobenzene	0.690	0.771	-11.7	121	0.00

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : TITAN 1-A
Lab Code : EMAX SDG No : 24J168
Lab File ID: RKV068 BFB Injection Date: 11/06/24
Instrument ID: 01 BFB Injection Time: 07:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	16.242
75	30 - 60% of mass 95	45.124
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	6.520
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	76.089
175	5 - 9% of mass 174	4.818(6.33)1
176	95 - 101% % of mass 174	73.748(96.92)1
177	5 - 9% % of mass 176	4.892(6.63)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, Lab QCs and Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD10	CV001J1222	RKV069	11/06/24	08:11
2	LCS2W	V001K04L	RKV070	11/06/24	08:40
3	LCD2W	V001K04C	RKV071	11/06/24	09:09
4	MBLK2W	V001K04B	RKV073	11/06/24	10:08
5	T1AMF-MW044_OCT24	24J168-06	RKV076	11/06/24	11:36
6	T1AMF-MW050_OCT24	24J168-01	RKV077	11/06/24	12:05
7	T1AMF-MW050_OCT24_FD	24J168-02	RKV078	11/06/24	12:35
8	T1AMF-MW022_OCT24	24J168-03	RKV079	11/06/24	13:05
9	T1AMF-MW047_OCT24	24J168-04	RKV080	11/06/24	13:35
10	T1AMF-MW043_OCT24	24J168-05	RKV081	11/06/24	14:04
11	T1AMF-MW046_OCT24	24J168-08I	RKV082	11/06/24	14:34
12	T1AMF-EW01_OCT24	24J168-14I	RKV083	11/06/24	15:04
13	T1AMF-MW045_OCT24	24J168-15I	RKV084	11/06/24	15:34
14	T1AMF-MW044_OCT24MS	24J168-06M	RKV088	11/06/24	17:33
15	T1AMF-MW044_OCT24MSD	24J168-06S	RKV089	11/06/24	18:03
16	VSTD10	EV001J1222	RKV090	11/06/24	18:33

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: EMAX Laboratories, Inc.
Lab Code: EMAX
Lab File ID: RJV302
Instrument ID: 01

Project: TITAN 1-A
SDG No: 24J168
Date Analyzed: 10/12/24
Time Analyzed: 16:08

	INTERNAL STANDARD (IS)	1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5		1,2-DICHLOROBENZENE-D4	
		Area #	RT #	Area #	RT #	Area #	RT #
	12 HOUR STD	878286	8.54	685675	13.70	317109	18.67
	UPPER LIMIT	1756572	8.71	1371350	13.87	634218	18.84
	LOWER LIMIT	439143	8.37	342838	13.53	158555	18.50
		Area #	RT #	Area #	RT #	Area #	RT #
1	VSTD10	754276	8.54	586026	13.71	388351	18.69
2	LCS2W	884248	8.56	712257	13.71	428576	18.67
3	LCD2W	982622	8.54	938041	13.70	431483	18.67
4	MBLK2W	1037828	8.54	780396	13.70	320040	18.67
5	T1AMF-MW044_OCT24	728453	8.54	584196	13.71	243937	18.67
6	T1AMF-MW050_OCT24	763080	8.54	603090	13.71	252384	18.67
7	T1AMF-MW050_OCT24_FD	737878	8.54	571219	13.71	237719	18.69
8	T1AMF-MW022_OCT24	714071	8.55	588333	13.71	246270	18.67
9	T1AMF-MW047_OCT24	730120	8.55	565748	13.71	236824	18.67
10	T1AMF-MW043_OCT24	696707	8.56	536262	13.71	224271	18.67
11	T1AMF-MW046_OCT24	710128	8.55	546313	13.70	233676	18.67
12	T1AMF-EW01_OCT24	729346	8.54	560830	13.71	231809	18.67
13	T1AMF-MW045_OCT24	704705	8.54	559912	13.71	229506	18.67
14	T1AMF-MW044_OCT24MS	721358	8.55	562991	13.70	389487	18.67
15	T1AMF-MW044_OCT24MSD	810034	8.54	658416	13.70	399140	18.67
16	VSTD10	741593	8.54	590528	13.70	390353	18.67

Area Upper Limit = +100% of ICAL Midpoint IS Area
Area Lower Limit = -50% of ICAL Midpoint IS Area
Retention Time(RT) Upper Limit = +10 seconds of ICAL Midpoint IS RT
Retention Time(RT) Lower Limit = -10 seconds of ICAL Midpoint IS RT

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV069.D Vial: 2
Acq On : 6 Nov 2024 8:11 am Operator: DNguye/CLingl
Sample : CVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	86	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	11.078	-10.8	86	-0.06
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	9.381	6.2	73	-0.07
6	C,T,M	Vinyl chloride	10.000	11.594	-15.9	92	-0.06
7	T,M	Bromomethane	10.000	7.430	25.7#	67	-0.06
8	T,M	Chloroethane	10.000	11.166	-11.7	92	-0.03
9	T,M	Dichlorofluoromethane	10.000	12.585	-25.9#	132	-0.05
10	T,M	Trichlorofluoromethane	10.000	13.967	-39.7#	111	-0.06
11	T,M	Acrolein	50.000	52.791	-5.6	88	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	14.747	-47.5#	131	-0.05
13	T,M	Acetone	50.000	51.098	-2.2	85	-0.03
14	C,T,M	1,1-Dichloroethene	10.000	10.881	-8.8	99	-0.03
15	T,M	tert-Butyl alcohol	250.000	243.933	2.4	79	-0.03
16	T,M	Iodomethane	10.000	12.126	-21.3#	111	-0.03
17	T,M	Methyl acetate	10.000	8.309	16.9	69	-0.02
18	T,M	Methylene chloride	10.000	10.154	-1.5	94	-0.03
19	T,M	Carbon disulfide	10.000	10.005	-0.1	83	-0.03
20	T,M	Acrylonitrile	50.000	51.641	-3.3	84	-0.02
21	T,M	tert-Butyl methyl ether (MT	10.000	10.894	-8.9	91	-0.02
22	T,M	trans-1,2-Dichloroethene	10.000	10.302	-3.0	94	-0.03
23	T,M	Isopropyl ether (DIPE)	10.000	9.531	4.7	87	-0.02
24	T,M	Vinyl acetate	10.000	9.807	1.9	72	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.856	-8.6	99	-0.02
26	T,M	2-Butanol	250.000	280.111	-12.0	89	-0.01
27	T,M	tert-Butyl ethyl ether (ETB	10.000	9.846	1.5	86	-0.02
28	T,M	2-Butanone	50.000	42.810	14.4	70	0.00
29	T,M	2,2-Dichloropropane	10.000	13.437	-34.4#	122	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	11.215	-12.1	102	-0.02
31	C,T,M	Chloroform	10.000	11.569	-15.7	109	-0.02
32	T,M	Bromochloromethane	10.000	9.504	5.0	83	0.00
33	T,M	Tetrahydrofuran	10.000	8.848	11.5	78	0.00
34	S	Dibromofluoromethane	10.000	10.847	-8.5	95	0.00
35	T,M	1,1,1-Trichloroethane	10.000	12.422	-24.2#	111	0.00
36	T,M	Cyclohexane	10.000	10.655	-6.5	90	-0.02
37	T,M	2,2,4-Trimethylpentane	10.000	9.389	6.1	81	-0.02
38	T,M	1,1-Dichloropropene	10.000	11.275	-12.8	101	0.00
39	T,M	Carbon tetrachloride	10.000	13.061	-30.6#	115	0.00
40	T,M	tert-Amyl methyl ether (TAM	10.000	9.856	1.4	88	0.00
41	S	1,2-Dichloroethane-d4	10.000	10.063	-0.6	84	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV069.D Vial: 2
Acq On : 6 Nov 2024 8:11 am Operator: DNguye/CLingl
Sample : CVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.785	-7.9	100	0.00
43	T,M	1,2-Dichloroethane	10.000	11.517	-15.2	93	0.00
44	T,M	Trichloroethene	10.000	11.689	-16.9	108	0.00
45	T,M	Methylcyclohexane	10.000	10.185	-1.9	90	0.00
46	C,T,M	1,2-Dichloropropane	10.000	10.356	-3.6	94	0.00
47	T,M	Bromodichloromethane	10.000	11.615	-16.2	103	0.01
48	T,M	1,4-Dioxane	200.000	183.548	8.2	76	0.00
49	T,M	Dibromomethane	10.000	10.795	-7.9	92	0.01
50	T,M	2-Chloroethyl vinyl ether	10.000	10.066	-0.7	98	0.00
51	T,M	4-Methyl-2-pentanone	50.000	45.948	8.1	69	0.02
52	T,M	cis-1,3-Dichloropropene	10.000	11.062	-10.6	95	0.01
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	85	0.01
54	S	Toluene-d8	10.000	10.364	-3.6	91	0.00
55	C,T,M	Toluene	10.000	11.167	-11.7	100	0.00
56	T,M	Ethyl methacrylate	10.000	10.286	-2.9	79	0.01
57	T,M	trans-1,3-Dichloropropene	10.000	11.553	-15.5	92	0.01
58	T,M	1,1,2-Trichloroethane	10.000	11.406	-14.1	94	0.01
59	T,M	2-Hexanone	50.000	45.933	8.1	68	0.01
60	T,M	1,3-Dichloropropane	10.000	10.927	-9.3	92	0.01
61	T,M	Tetrachloroethene	10.000	12.022	-20.2#	112	0.01
62	T,M	Dibromochloromethane	10.000	12.106	-21.1#	101	0.01
63	T,M	1,2-Dibromoethane	10.000	10.431	-4.3	85	0.00
64	T,M	1-Chlorohexane	10.000	10.689	-6.9	98	0.01
65	P,M	Chlorobenzene	10.000	11.398	-14.0	104	0.00
66	T,M	1,1,1,2-Tetrachloroethane	10.000	13.138	-31.4#	116	0.01
67	C,T,M	Ethylbenzene	10.000	11.541	-15.4	103	0.01
68	T,M	m-Xylene & p-Xylene	20.000	21.173	-5.9	102	0.02
69	T,M	o-Xylene	10.000	16.735	-67.3#	134	0.00
70	T,M	Styrene	10.000	17.358	-73.6#	135	0.01
71	T,M	Isopropylbenzene	10.000	16.936	-69.4#	138	0.02
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	122	0.01
73	P,T,M	Bromoform	10.000	9.986	0.1	130	0.01
74	T,M	trans-1,4-Dichloro-2-butene	10.000	8.769	12.3	99	0.01
75	T,M	1,1,2,2-Tetrachloroethane	10.000	10.337	-3.4	115	0.00
76	S	4-Bromofluorobenzene	10.000	9.560	4.4	118	0.03
77	T,M	1,2,3-Trichloropropane	10.000	9.983	0.2	113	0.02
78	T,M	n-Propylbenzene	10.000	10.606	-6.1	137	0.01
79	T,M	Bromobenzene	10.000	11.372	-13.7	147	0.01
80	T,M	1,3,5-Trimethylbenzene	10.000	10.255	-2.6	134	0.01

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K06\RKV069.D Vial: 2
Acq On : 6 Nov 2024 8:11 am Operator: DNguye/CLingl
Sample : CVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	10.219	-2.2	134	0.01
82	T,M	4-Chlorotoluene	10.000	10.415	-4.1	137	0.01
83	T,M	tert-Butylbenzene	10.000	11.813	-18.1	151	0.01
84	T,M	1,2,4-Trimethylbenzene	10.000	10.129	-1.3	130	0.01
85	T,M	sec-Butylbenzene	10.000	10.632	-6.3	134	0.01
86	T,M	p-Isopropyltoluene	10.000	10.681	-6.8	138	0.01
87	T,M	1,3-Dichlorobenzene	10.000	11.578	-15.8	150	0.01
88	T,M	1,2,3-Trimethylbenzene	10.000	10.150	-1.5	130	0.01
89	T,M	1,4-Dichlorobenzene	10.000	11.104	-11.0	149	0.01
90	T,M	n-Butylbenzene	10.000	9.762	2.4	132	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.309	-13.1	146	0.01
92	T,M	1,2-Dibromo-3-chloropropane	10.000	10.618	-6.2	122	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.644	-6.4	138	0.01
94	T,M	Hexachlorobutadiene	10.000	12.139	-21.4#	161	0.01
95	T,M	Naphthalene	10.000	9.663	3.4	113	0.01
96	T,M	1,2,3-Trichlorobenzene	10.000	10.814	-8.1	134	0.01

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV069.D Vial: 2
Acq On : 6 Nov 2024 8:11 am Operator: DNguye/CLingl
Sample : CVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	86	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.455	-10.7	86	-0.06
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.291	6.1	73	-0.07
6	C,T,M	Vinyl chloride	0.273	0.317	-16.1	92	-0.06
7	T,M	Bromomethane	0.197	0.146	25.9#	67	-0.06
8	T,M	Chloroethane	0.207	0.231	-11.6	92	-0.03
9	T,M	Dichlorofluoromethane	0.380	0.478	-25.8#	132	-0.05
10	T,M	Trichlorofluoromethane	0.445	0.621	-39.6#	111	-0.06
11	T,M	Acrolein	0.008	0.008	0.0	88	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.270	-47.5#	131	-0.05
13	T,M	Acetone	0.037	0.038	-2.7	85	-0.03
14	C,T,M	1,1-Dichloroethene	0.467	0.508	-8.8	99	-0.03
15	T,M	tert-Butyl alcohol	0.009	0.009	0.0	79	-0.03
16	T,M	Iodomethane	0.396	0.481	-21.5#	111	-0.03
17	T,M	Methyl acetate	0.095	0.079	16.8	69	-0.02
18	T,M	Methylene chloride	0.336	0.341	-1.5	94	-0.03
19	T,M	Carbon disulfide	0.976	0.976	0.0	83	-0.03
20	T,M	Acrylonitrile	0.035	0.036	-2.9	84	-0.02
21	T,M	tert-Butyl methyl ether (MT	0.462	0.503	-8.9	91	-0.02
22	T,M	trans-1,2-Dichloroethene	0.448	0.462	-3.1	94	-0.03
23	T,M	Isopropyl ether (DIPE)	0.938	0.894	4.7	87	-0.02
24	T,M	Vinyl acetate	0.300	0.294	2.0	72	-0.02
25	P,T,M	1,1-Dichloroethane	0.525	0.570	-8.6	99	-0.02
26	T,M	2-Butanol	0.008	0.009	-12.5	89	-0.01
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.672	1.5	86	-0.02
28	T,M	2-Butanone	0.057	0.048	15.8	70	0.00
29	T,M	2,2-Dichloropropane	0.449	0.604	-34.5#	122	-0.02
30	T,M	cis-1,2-Dichloroethene	0.322	0.361	-12.1	102	-0.02
31	C,T,M	Chloroform	0.535	0.620	-15.9	109	-0.02
32	T,M	Bromochloromethane	0.199	0.189	5.0	83	0.00
33	T,M	Tetrahydrofuran	0.031	0.028	9.7	78	0.00
34	S	Dibromofluoromethane	0.261	0.283	-8.4	95	0.00
35	T,M	1,1,1-Trichloroethane	0.481	0.597	-24.1#	111	0.00
36	T,M	Cyclohexane	0.496	0.529	-6.7	90	-0.02
37	T,M	2,2,4-Trimethylpentane	0.024	0.023	4.2	81	-0.02
38	T,M	1,1-Dichloropropene	0.146	0.164	-12.3	101	0.00
39	T,M	Carbon tetrachloride	0.364	0.476	-30.8#	115	0.00
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.517	1.3	88	0.00
41	S	1,2-Dichloroethane-d4	0.230	0.232	-0.9	84	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K06\RKV069.D Vial: 2
Acq On : 6 Nov 2024 8:11 am Operator: DNguye/CLingl
Sample : CVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M Benzene	1.145	1.235	-7.9	100	0.00
43	T,M 1,2-Dichloroethane	0.255	0.294	-15.3	93	0.00
44	T,M Trichloroethene	0.303	0.354	-16.8	108	0.00
45	T,M Methylcyclohexane	0.587	0.598	-1.9	90	0.00
46	C,T,M 1,2-Dichloropropane	0.258	0.267	-3.5	94	0.00
47	T,M Bromodichloromethane	0.353	0.410	-16.1	103	0.01
48	T,M 1,4-Dioxane	0.001	0.001	0.0	76	0.00
49	T,M Dibromomethane	0.112	0.121	-8.0	92	0.01
50	T,M 2-Chloroethyl vinyl ether	0.016	0.019	-18.7	98	0.00
51	T,M 4-Methyl-2-pentanone	0.127	0.116	8.7	69	0.02
52	T,M cis-1,3-Dichloropropene	0.386	0.427	-10.6	95	0.01
53	I CHLOROBENZENE-D5	1.000	1.000	0.0	85	0.01
54	S Toluene-d8	1.375	1.425	-3.6	91	0.00
55	C,T,M Toluene	1.585	1.770	-11.7	100	0.00
56	T,M Ethyl methacrylate	0.227	0.233	-2.6	79	0.01
57	T,M trans-1,3-Dichloropropene	0.359	0.415	-15.6	92	0.01
58	T,M 1,1,2-Trichloroethane	0.195	0.223	-14.4	94	0.01
59	T,M 2-Hexanone	0.104	0.095	8.7	68	0.01
60	T,M 1,3-Dichloropropane	0.368	0.402	-9.2	92	0.01
61	T,M Tetrachloroethene	0.343	0.412	-20.1#	112	0.01
62	T,M Dibromochloromethane	0.232	0.281	-21.1#	101	0.01
63	T,M 1,2-Dibromoethane	0.185	0.193	-4.3	85	0.00
64	T,M 1-Chlorohexane	0.740	0.791	-6.9	98	0.01
65	P,M Chlorobenzene	0.949	1.081	-13.9	104	0.00
66	T,M 1,1,1,2-Tetrachloroethane	0.290	0.381	-31.4#	116	0.01
67	C,T,M Ethylbenzene	1.875	2.164	-15.4	103	0.01
68	T,M m-Xylene & p-Xylene	1.481	1.568	-5.9	102	0.02
69	T,M o-Xylene	1.463	2.448	-67.3#	134	0.00
70	T,M Styrene	1.070	1.857	-73.6#	135	0.01
71	T,M Isopropylbenzene	1.986	3.363	-69.3#	138	0.02
72	I 1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	122	0.01
73	P,T,M Bromoform	0.246	0.287	-16.7	130	0.01
74	T,M trans-1,4-Dichloro-2-butene	0.154	0.135	12.3	99	0.01
75	T,M 1,1,2,2-Tetrachloroethane	0.528	0.546	-3.4	115	0.00
76	S 4-Bromofluorobenzene	1.184	1.132	4.4	118	0.03
77	T,M 1,2,3-Trichloropropane	0.148	0.148	0.0	113	0.02
78	T,M n-Propylbenzene	5.921	6.280	-6.1	137	0.01
79	T,M Bromobenzene	0.858	0.975	-13.6	147	0.01
80	T,M 1,3,5-Trimethylbenzene	3.663	3.756	-2.5	134	0.01

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K06\RKV069.D Vial: 2
Acq On : 6 Nov 2024 8:11 am Operator: DNguye/CLingl
Sample : CVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.677	-2.2	134	0.01
82	T,M	4-Chlorotoluene	3.211	3.344	-4.1	137	0.01
83	T,M	tert-Butylbenzene	0.826	0.975	-18.0	151	0.01
84	T,M	1,2,4-Trimethylbenzene	3.583	3.629	-1.3	130	0.01
85	T,M	sec-Butylbenzene	5.158	5.485	-6.3	134	0.01
86	T,M	p-Isopropyltoluene	4.024	4.298	-6.8	138	0.01
87	T,M	1,3-Dichlorobenzene	1.724	1.996	-15.8	150	0.01
88	T,M	1,2,3-Trimethylbenzene	3.261	3.310	-1.5	130	0.01
89	T,M	1,4-Dichlorobenzene	1.713	1.902	-11.0	149	0.01
90	T,M	n-Butylbenzene	4.403	4.298	2.4	132	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.590	-13.1	146	0.01
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.075	-5.6	122	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	1.013	-6.4	138	0.01
94	T,M	Hexachlorobutadiene	0.610	0.741	-21.5#	161	0.01
95	T,M	Naphthalene	1.172	1.133	3.3	113	0.01
96	T,M	1,2,3-Trichlorobenzene	0.690	0.746	-8.1	134	0.01

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D Vial: 23
Acq On : 6 Nov 2024 6:33 pm Operator: DNguye/CLingl
Sample : EVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	84	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	11.304	-13.0	86	-0.07
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	9.688	3.1	74	-0.07
6	C,T,M	Vinyl chloride	10.000	10.901	-9.0	85	-0.07
7	T,M	Bromomethane	10.000	11.348	-13.5	101	-0.07
8	T,M	Chloroethane	10.000	10.592	-5.9	86	-0.04
9	T,M	Dichlorofluoromethane	10.000	12.304	-23.0#	127	-0.06
10	T,M	Trichlorofluoromethane	10.000	13.320	-33.2#	104	-0.06
11	T,M	Acrolein	50.000	55.068	-10.1	90	-0.01
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	14.498	-45.0#	127	-0.04
13	T,M	Acetone	50.000	56.453	-12.9	93	-0.01
14	C,T,M	1,1-Dichloroethene	10.000	10.644	-6.4	95	-0.02
15	T,M	tert-Butyl alcohol	250.000	283.633	-13.5	91	-0.03
16	T,M	Iodomethane	10.000	11.965	-19.6	107	-0.03
17	T,M	Methyl acetate	10.000	10.049	-0.5	82	-0.02
18	T,M	Methylene chloride	10.000	10.755	-7.6	98	-0.03
19	T,M	Carbon disulfide	10.000	10.379	-3.8	84	-0.03
20	T,M	Acrylonitrile	50.000	54.445	-8.9	87	-0.01
21	T,M	tert-Butyl methyl ether (MT	10.000	12.037	-20.4#	99	-0.02
22	T,M	trans-1,2-Dichloroethene	10.000	10.390	-3.9	94	-0.03
23	T,M	Isopropyl ether (DIPE)	10.000	10.253	-2.5	92	-0.02
24	T,M	Vinyl acetate	10.000	10.252	-2.5	74	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	11.451	-14.5	103	0.00
26	T,M	2-Butanol	250.000	319.871	-27.9#	100	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.871	-8.7	94	-0.02
28	T,M	2-Butanone	50.000	49.175	1.7	79	-0.01
29	T,M	2,2-Dichloropropane	10.000	13.012	-30.1#	116	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	11.423	-14.2	102	-0.02
31	C,T,M	Chloroform	10.000	12.306	-23.1#	114	-0.02
32	T,M	Bromochloromethane	10.000	10.241	-2.4	88	0.00
33	T,M	Tetrahydrofuran	10.000	10.150	-1.5	88	-0.01
34	S	Dibromofluoromethane	10.000	11.071	-10.7	95	0.00
35	T,M	1,1,1-Trichloroethane	10.000	12.452	-24.5#	109	0.00
36	T,M	Cyclohexane	10.000	10.311	-3.1	86	-0.01
37	T,M	2,2,4-Trimethylpentane	10.000	9.278	7.2	79	-0.01
38	T,M	1,1-Dichloropropene	10.000	11.149	-11.5	99	0.00
39	T,M	Carbon tetrachloride	10.000	13.324	-33.2#	115	-0.02
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.986	-9.9	96	-0.02
41	S	1,2-Dichloroethane-d4	10.000	10.922	-9.2	90	-0.01

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D Vial: 23
Acq On : 6 Nov 2024 6:33 pm Operator: DNguye/CLingl
Sample : EVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	11.071	-10.7	101	-0.02
43	T,M	1,2-Dichloroethane	10.000	12.568	-25.7#	100	0.00
44	T,M	Trichloroethene	10.000	11.849	-18.5	107	0.00
45	T,M	Methylcyclohexane	10.000	10.459	-4.6	91	0.00
46	C,T,M	1,2-Dichloropropane	10.000	11.039	-10.4	99	0.00
47	T,M	Bromodichloromethane	10.000	12.151	-21.5#	106	0.00
48	T,M	1,4-Dioxane	200.000	194.585	2.7	79	0.00
49	T,M	Dibromomethane	10.000	11.888	-18.9	99	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	14.989	-49.9#	149	0.00
51	T,M	4-Methyl-2-pentanone	50.000	53.762	-7.5	79	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	11.816	-18.2	100	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	86	0.00
54	S	Toluene-d8	10.000	10.250	-2.5	90	0.00
55	C,T,M	Toluene	10.000	10.923	-9.2	99	0.00
56	T,M	Ethyl methacrylate	10.000	11.623	-16.2	90	0.01
57	T,M	trans-1,3-Dichloropropene	10.000	12.369	-23.7#	100	0.00
58	T,M	1,1,2-Trichloroethane	10.000	12.118	-21.2#	100	0.00
59	T,M	2-Hexanone	50.000	51.187	-2.4	77	0.00
60	T,M	1,3-Dichloropropane	10.000	11.649	-16.5	99	0.00
61	T,M	Tetrachloroethene	10.000	11.463	-14.6	107	0.01
62	T,M	Dibromochloromethane	10.000	12.816	-28.2#	108	0.00
63	T,M	1,2-Dibromoethane	10.000	11.487	-14.9	95	0.00
64	T,M	1-Chlorohexane	10.000	10.357	-3.6	96	0.00
65	P,M	Chlorobenzene	10.000	11.417	-14.2	105	0.00
66	T,M	1,1,1,2-Tetrachloroethane	10.000	13.241	-32.4#	118	0.00
67	C,T,M	Ethylbenzene	10.000	11.484	-14.8	103	0.00
68	T,M	m-Xylene & p-Xylene	20.000	21.519	-7.6	105	0.00
69	T,M	o-Xylene	10.000	14.731	-47.3#	119	0.00
70	T,M	Styrene	10.000	15.085	-50.9#	118	0.01
71	T,M	Isopropylbenzene	10.000	16.842	-68.4#	139	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	123	0.00
73	P,T,M	Bromoform	10.000	10.800	-8.0	142	0.01
74	T,M	trans-1,4-Dichloro-2-butene	10.000	9.253	7.5	105	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	11.481	-14.8	129	0.00
76	S	4-Bromofluorobenzene	10.000	9.686	3.1	120	0.01
77	T,M	1,2,3-Trichloropropane	10.000	10.949	-9.5	125	0.00
78	T,M	n-Propylbenzene	10.000	10.283	-2.8	133	0.00
79	T,M	Bromobenzene	10.000	11.939	-19.4	155	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	10.509	-5.1	138	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D Vial: 23
Acq On : 6 Nov 2024 6:33 pm Operator: DNguye/CLingl
Sample : EVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	10.155	-1.5	134	0.00
82	T,M	4-Chlorotoluene	10.000	10.600	-6.0	140	0.00
83	T,M	tert-Butylbenzene	10.000	11.877	-18.8	153	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	10.524	-5.2	136	0.00
85	T,M	sec-Butylbenzene	10.000	10.703	-7.0	135	0.00
86	T,M	p-Isopropyltoluene	10.000	10.519	-5.2	137	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.651	-16.5	151	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.140	-1.4	131	0.00
89	T,M	1,4-Dichlorobenzene	10.000	11.104	-11.0	149	0.00
90	T,M	n-Butylbenzene	10.000	9.483	5.2	129	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.382	-13.8	148	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	11.186	-11.9	129	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	11.456	-14.6	149	0.00
94	T,M	Hexachlorobutadiene	10.000	12.081	-20.8#	161	0.01
95	T,M	Naphthalene	10.000	11.175	-11.8	131	0.01
96	T,M	1,2,3-Trichlorobenzene	10.000	12.022	-20.2#	149	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D Vial: 23
Acq On : 6 Nov 2024 6:33 pm Operator: DNguye/CLingl
Sample : EVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	84	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.464	-12.9	86	-0.07
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.300	3.2	74	-0.07
6	C,T,M	Vinyl chloride	0.273	0.298	-9.2	85	-0.07
7	T,M	Bromomethane	0.197	0.224	-13.7	101	-0.07
8	T,M	Chloroethane	0.207	0.219	-5.8	86	-0.04
9	T,M	Dichlorofluoromethane	0.380	0.467	-22.9#	127	-0.06
10	T,M	Trichlorofluoromethane	0.445	0.592	-33.0#	104	-0.06
11	T,M	Acrolein	0.008	0.008	0.0	90	-0.01
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.265	-44.8#	127	-0.04
13	T,M	Acetone	0.037	0.042	-13.5	93	-0.01
14	C,T,M	1,1-Dichloroethene	0.467	0.497	-6.4	95	-0.02
15	T,M	tert-Butyl alcohol	0.009	0.010	-11.1	91	-0.03
16	T,M	Iodomethane	0.396	0.474	-19.7	107	-0.03
17	T,M	Methyl acetate	0.095	0.096	-1.1	82	-0.02
18	T,M	Methylene chloride	0.336	0.362	-7.7	98	-0.03
19	T,M	Carbon disulfide	0.976	1.013	-3.8	84	-0.03
20	T,M	Acrylonitrile	0.035	0.038	-8.6	87	-0.01
21	T,M	tert-Butyl methyl ether (MT	0.462	0.556	-20.3#	99	-0.02
22	T,M	trans-1,2-Dichloroethene	0.448	0.466	-4.0	94	-0.03
23	T,M	Isopropyl ether (DIPE)	0.938	0.962	-2.6	92	-0.02
24	T,M	Vinyl acetate	0.300	0.308	-2.7	74	-0.02
25	P,T,M	1,1-Dichloroethane	0.525	0.602	-14.7	103	0.00
26	T,M	2-Butanol	0.008	0.010	-25.0#	100	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.741	-8.7	94	-0.02
28	T,M	2-Butanone	0.057	0.056	1.8	79	-0.01
29	T,M	2,2-Dichloropropane	0.449	0.585	-30.3#	116	-0.02
30	T,M	cis-1,2-Dichloroethene	0.322	0.368	-14.3	102	-0.02
31	C,T,M	Chloroform	0.535	0.659	-23.2#	114	-0.02
32	T,M	Bromochloromethane	0.199	0.204	-2.5	88	0.00
33	T,M	Tetrahydrofuran	0.031	0.032	-3.2	88	-0.01
34	S	Dibromofluoromethane	0.261	0.289	-10.7	95	0.00
35	T,M	1,1,1-Trichloroethane	0.481	0.599	-24.5#	109	0.00
36	T,M	Cyclohexane	0.496	0.512	-3.2	86	-0.01
37	T,M	2,2,4-Trimethylpentane	0.024	0.022	8.3	79	-0.01
38	T,M	1,1-Dichloropropene	0.146	0.162	-11.0	99	0.00
39	T,M	Carbon tetrachloride	0.364	0.485	-33.2#	115	-0.02
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.576	-9.9	96	-0.02
41	S	1,2-Dichloroethane-d4	0.230	0.251	-9.1	90	-0.01

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D
Acq On : 6 Nov 2024 6:33 pm
Sample : EVO01J1222
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 23
Operator: DNguye/CLingl
Inst : 01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.268	-10.7	101	-0.02
43	T,M	1,2-Dichloroethane	0.255	0.321	-25.9#	100	0.00
44	T,M	Trichloroethene	0.303	0.359	-18.5	107	0.00
45	T,M	Methylcyclohexane	0.587	0.614	-4.6	91	0.00
46	C,T,M	1,2-Dichloropropane	0.258	0.284	-10.1	99	0.00
47	T,M	Bromodichloromethane	0.353	0.429	-21.5#	106	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	79	0.00
49	T,M	Dibromomethane	0.112	0.133	-18.8	99	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.030	-87.5#	149	0.00
51	T,M	4-Methyl-2-pentanone	0.127	0.136	-7.1	79	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.457	-18.4	100	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	86	0.00
54	S	Toluene-d8	1.375	1.410	-2.5	90	0.00
55	C,T,M	Toluene	1.585	1.731	-9.2	99	0.00
56	T,M	Ethyl methacrylate	0.227	0.264	-16.3	90	0.01
57	T,M	trans-1,3-Dichloropropene	0.359	0.444	-23.7#	100	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.236	-21.0#	100	0.00
59	T,M	2-Hexanone	0.104	0.106	-1.9	77	0.00
60	T,M	1,3-Dichloropropane	0.368	0.428	-16.3	99	0.00
61	T,M	Tetrachloroethene	0.343	0.393	-14.6	107	0.01
62	T,M	Dibromochloromethane	0.232	0.298	-28.4#	108	0.00
63	T,M	1,2-Dibromoethane	0.185	0.212	-14.6	95	0.00
64	T,M	1-Chlorohexane	0.740	0.767	-3.6	96	0.00
65	P,M	Chlorobenzene	0.949	1.083	-14.1	105	0.00
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.384	-32.4#	118	0.00
67	C,T,M	Ethylbenzene	1.875	2.153	-14.8	103	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.594	-7.6	105	0.00
69	T,M	o-Xylene	1.463	2.155	-47.3#	119	0.00
70	T,M	Styrene	1.070	1.614	-50.8#	118	0.01
71	T,M	Isopropylbenzene	1.986	3.345	-68.4#	139	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	123	0.00
73	P,T,M	Bromoform	0.246	0.311	-26.4#	142	0.01
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.142	7.8	105	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.606	-14.8	129	0.00
76	S	4-Bromofluorobenzene	1.184	1.147	3.1	120	0.01
77	T,M	1,2,3-Trichloropropane	0.148	0.162	-9.5	125	0.00
78	T,M	n-Propylbenzene	5.921	6.089	-2.8	133	0.00
79	T,M	Bromobenzene	0.858	1.024	-19.3	155	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.850	-5.1	138	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D
Acq On : 6 Nov 2024 6:33 pm
Sample : EVO01J1222
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 23
Operator: DNguye/CLingl
Inst : 01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.654	-1.6	134	0.00
82	T,M	4-Chlorotoluene	3.211	3.404	-6.0	140	0.00
83	T,M	tert-Butylbenzene	0.826	0.981	-18.8	153	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.770	-5.2	136	0.00
85	T,M	sec-Butylbenzene	5.158	5.521	-7.0	135	0.00
86	T,M	p-Isopropyltoluene	4.024	4.233	-5.2	137	0.00
87	T,M	1,3-Dichlorobenzene	1.724	2.009	-16.5	151	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.307	-1.4	131	0.00
89	T,M	1,4-Dichlorobenzene	1.713	1.902	-11.0	149	0.00
90	T,M	n-Butylbenzene	4.403	4.175	5.2	129	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.601	-13.9	148	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.079	-11.3	129	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	1.091	-14.6	149	0.00
94	T,M	Hexachlorobutadiene	0.610	0.737	-20.8#	161	0.01
95	T,M	Naphthalene	1.172	1.310	-11.8	131	0.01
96	T,M	1,2,3-Trichlorobenzene	0.690	0.830	-20.3#	149	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

ANALYTICAL LOGS

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments: * Varied Amounts

Book #: A01-077
Instrument No.: 01
Analytical Sequence: 24J12
Method File: V001J12
Analytical Batch: V001J126

INITIAL CALIBRATION REFERENCE			
DATE	10/12/24		
ICAL ID	V001J12		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC	SVI-45-36-05 -37-01	*	50 250
DCC	-32-02		250
DCC	-32-03		50
DCC	-40-02	↓	250
BFB	-41-03	1	50
IS/SURR.	SVI-45-37-02 -37-03	1 *	250 250
ICV/LCS	-35-01	1	250
ICV/LCS	-34-03	1	250
ICV/LCS	-16-03 -21-03	5 5	50 250
ICV/LCS	-43-01	5	50
Data File Folder	24J12		
	LOT #	Syringe Lot #	
pH strip	N/A	HSV-03-0412-1	
Chlorine strip	↓		-6
Methanol			-03-23
$NaHSO_4$		↓	-01-24
Reagent Water	RW3-23-001		
Sand			

SOP #
☑ EMAX-8260 Rev. No. 10
☐ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1
PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☑ 25-mL Purge
SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☐ Water
☐ pH <2. Outliers indicated on analytical sequence.
☐ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☑ pH <2 and Cl2 are not applicable.

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO01	

Analyzed By: [signature]
Date: 10/12/24
Disposed By: [signature]
Date Disposed: 10/13/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24J12

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RJV296.D	1.	BFB01J13		12 Oct 2024 12:56
2	2	RJV297.D	1.	VO01J121 0.03/0.15	T/CHK 0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA	12 Oct 2024 13:38
3	3	RJV298.D	1.	VO01J122 0.05/0.25	0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA	12 Oct 2024 14:08
4	4	RJV299.D	1.	VO01J123 0.1/0.5	1ppb 8260/5ppb KET-AA/25ppb TBA	12 Oct 2024 14:39
5	5	RJV300.D	1.	VO01J124 0.2/1.0	2ppb 8260/10ppb KET-AA/50ppb TBA	12 Oct 2024 15:09
6	6	RJV301.D	1.	VO01J125 0.5/2.5	5ppb 8260/25ppb KET-AA/125ppb TBA	12 Oct 2024 15:39
7	7	RJV302.D	1.	VO01J126 1.0/5.0	10ppb 8260/50ppb KET-AA/250ppb TBA	12 Oct 2024 16:08
8	8	RJV303.D	1.	VO01J127 2.0/10	20ppb 8260/100ppb KET-AA/500ppb TBA	12 Oct 2024 16:38
9	9	RJV304.D	1.	VO01J128 5.0/25	50ppb 8260/250ppb KET-AA/1250ppb TBA	12 Oct 2024 17:08
10	10	RJV305.D	1.	VO01J129 3.0/15	30ppb 8260/150ppb KET-AA/750ppb TBA	12 Oct 2024 17:38
11	11	RJV306.D	1.	VO01J1210 10/50	100ppb 8260/500ppb KET-AA/2500ppb TBA	12 Oct 2024 18:07
12	12	RJV307.D	1.	RINSE		12 Oct 2024 18:37
13	13	RJV308.D	1.	RINSE		12 Oct 2024 19:07
14	14	RJV309.D	1.	IVO01J1201 1.0/5.0	10ppb 8260/50ppb KET-AA/250ppb TBA	12 Oct 2024 19:36
15	15	RJV310.D	1.	RINSE		12 Oct 2024 20:06
16	16	RJV311.D	1.	LOD1	0.2ppb 8260/4.0ppb KET-AA/5.0ppb TBA	12 Oct 2024 20:36
17	17	RJV312.D	1.	LOD2	0.3ppb 8260/4.0ppb KET-AA/5.0ppb TBA	12 Oct 2024 21:05

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #:	A01-077
Instrument No.:	01
Analytical Sequence:	24K04
Method File:	V001J12
Analytical Batch:	AV001J1220

INITIAL CALIBRATION REFERENCE			
DATE	10/21 24		
ICAL ID	V001J12		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC	SV1-45-36-03	1	
DCC	-37-01	1	
DCC	~~-26-03~~ -32-02	1 5	
DCC	-32-03 -40-03	5	
BFB	-41-03	1	50/250
IS/SURR.	-29-03	5	
ICV/LCS	-35-01	1	
ICV/LCS	-34-03	1	
ICV/LCS	-26-03 -21-03	5 5	
ICV/LCS	-43-01	5	
Data File Folder	24K04		
	LOT #	Syringe Lot #	
pH strip	HC443 A9975	MSV-03-09-12-4	
Chlorine strip	3011902	↓ 6	
Methanol			
$NaHSO_4$			
Reagent Water	RW3-23-01		
Sand			

SOP #
☐ EMAX-8260 Rev. No. 10
☐ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1
PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☐ 25-mL Purge
SAMPLE MATRIX
☐ Soil (rerer to sample weight log)
☐ Water
☐ pH <2. Outliers indicated on analytical sequence.
☐ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐ pH <2 and Cl2 are not applicable.

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO01	

Analyzed By: CL 10M

Date: 11/4/24

Disposed By: CL

Date Disposed: 11/5/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24K04

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RKV026.D	1.	BFB01K02	25mL	4 Nov 2024 16:49
2	2	RKV027.D	1.	CVO01J1220	10ppb 8260/50ppb KET-AA/250ppb TBA	4 Nov 2024 17:28
3	3	RKV028.D	1.	VO01K02L	10ppb 8260/50ppb KET-AA/250ppb TBA	4 Nov 2024 17:58
4	4	RKV029.D	1.	VO01K02C	10ppb 8260/50ppb KET-AA/250ppb TBA	4 Nov 2024 18:27
5	5	RKV030.D	1.	RINSE	25mL	4 Nov 2024 18:56
6	6	RKV031.D	1.	VO01K02B	25mL	4 Nov 2024 19:26
7	7	RKV032.D	1.	24J169-05	25mL	4 Nov 2024 19:55
8	8	RKV033.D	1.	24J169-06	25mL	4 Nov 2024 20:24
9	9	RKV034.D	1.	24J169-07	25mL	4 Nov 2024 20:53
10	10	RKV035.D	1.	24J169-08	25mL	4 Nov 2024 21:22
11	11	RKV036.D	1.	24J169-09	25mL	4 Nov 2024 21:51
12	12	RKV037.D	1.	24J169-10	25mL	4 Nov 2024 22:20
13	13	RKV038.D	1.	24J168-07	25mL	4 Nov 2024 22:49
14	14	RKV039.D	1.	24J168-08	25mL	4 Nov 2024 23:17
15	15	RKV040.D	1.	24J168-09	25mL	4 Nov 2024 23:46
16	16	RKV041.D	1.	24J168-10	25mL	5 Nov 2024 00:15
17	17	RKV042.D	1.	24J168-11	25mL	5 Nov 2024 00:43
18	18	RKV043.D	1.	24J168-12	25mL	5 Nov 2024 01:12
19	19	RKV044.D	1.	24J168-13	25mL	5 Nov 2024 01:41
20	20	RKV045.D	1.	24J168-14	25mL	5 Nov 2024 02:09
21	21	RKV046.D	1.	24J168-15	25mL	5 Nov 2024 02:38
22	22	RKV047.D	1.	24J168-16	25mL	5 Nov 2024 03:07
23	23	RKV048.D	1.	24J168-17	25mL	5 Nov 2024 03:36
24	24	RKV049.D	1.	24J168-18	25mL	5 Nov 2024 04:05
25	25	RKV050.D	1.	EVO01J1220	10ppb 8260/50ppb KET-AA/250ppb TBA	5 Nov 2024 04:33
26	26	RKV051.D	1.	EVO01J12201	10ppb 8260/50ppb KET-AA/250ppb TBA	5 Nov 2024 05:03
27	27	RKV052.D	1.	EVO01J12202	10ppb 8260/50ppb KET-AA/250ppb TBA	5 Nov 2024 05:31
28	28	RKV053.D	1.	RINSE	25mL	5 Nov 2024 06:00

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #: A01-077
Instrument No.: 01
Analytical Sequence: 24K06
Method File: V001J12
Analytical Batch: cV001J1222

INITIAL CALIBRATION REFERENCE	
DATE	10/12/24
ICAL ID	V001J12

STANDARDS

NAME	ID	Amount (µl)	Conc. (mg/L)
DCC	SVI-45-36-03 -37-01	1	
DCC	-32-02	1	
DCC	-32-03	5	
DCC	-40-02	5	
BFB	-41-03	1	5g/250
IS/SURR.	-29-03	5	
ICV/LCS	-35-01	1	
ICV/LCS	-34-03	1	
ICV/LCS	-26-03 -45-02	5 5	
ICV/LCS	-43-01	5	
Data File Folder	24K06		

	LOT #	Syringe Lot #
pH strip	HC439975	MSV-03-09-12-4
Chlorine strip	301902	↓ -6
Methanol		
$NaHSO_4$		
Reagent Water	RW3-23-001	
Sand		

SOP #
☑ EMAX-8260 Rev. No. 10
☑ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1
PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☑ 25-mL Purge
SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☑ Water
☑ pH <2. Outliers indicated on analytical sequence.
☑ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐ pH <2 and Cl2 are not applicable.

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO01	

Analyzed By: CC/DH
Date: 11/6/24
Disposed By: CC
Date Disposed: 11/7/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24K06

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RKV068.D	1.	BFB01K04	25mL	6 Nov 2024 07:32
2	2	RKV069.D	1.	CVO01J1222	10ppb 8260/50ppb KET-AA/250ppb TBA	6 Nov 2024 08:11
3	3	RKV070.D	1.	VO01K04L	10ppb 8260/50ppb KET-AA/250ppb TBA	6 Nov 2024 08:40
4	4	RKV071.D	1.	VO01K04C	10ppb 8260/50ppb KET-AA/250ppb TBA	6 Nov 2024 09:09
5	5	RKV072.D	1.	RINSE	25mL	6 Nov 2024 09:38
6	6	RKV073.D	1.	VO01K04B	25mL	6 Nov 2024 10:08
7	7	RKV074.D	1.	24J177-06I 5X	5mL	6 Nov 2024 10:37
8	8	RKV075.D	1.	24J177-07I 5X	5mL	6 Nov 2024 11:06
9	9	RKV076.D	1.	24J168-06	25mL	6 Nov 2024 11:36
10	10	RKV077.D	1.	24J168-01	25mL	6 Nov 2024 12:05
11	11	RKV078.D	1.	24J168-02	25mL	6 Nov 2024 12:35
12	12	RKV079.D	1.	24J168-03	25mL	6 Nov 2024 13:05
13	13	RKV080.D	1.	24J168-04	25mL	6 Nov 2024 13:35
14	14	RKV081.D	1.	24J168-05	25mL	6 Nov 2024 14:04
15	15	RKV082.D	1.	24J168-08I 5X	5mL	6 Nov 2024 14:34
16	16	RKV083.D	1.	24J168-14I 25X	1mL	6 Nov 2024 15:04
17	17	RKV084.D	1.	24J168-15I 10X	2.5mL	6 Nov 2024 15:34
18	18	RKV085.D	1.	24K021	25mL	6 Nov 2024 16:04
19	19	RKV086.D	1.	24K028-01	25mL	6 Nov 2024 16:34
20	20	RKV087.D	1.	24K028-02	25mL	6 Nov 2024 17:04
21	21	RKV088.D	1.	24J168-06M	25mL	6 Nov 2024 17:33
22	22	RKV089.D	1.	24J168-06S	25mL	6 Nov 2024 18:03
23	23	RKV090.D	1.	EVO01J1222	10ppb 8260/50ppb KET-AA/250ppb TBA	6 Nov 2024 18:33

RAW DATA
VOLATILE ORGANICS

LABORATORY REPORT FOR

PARSONS

TITAN 1-A

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

SDG#: 24J168

CASE NARRATIVE

Client : PARSONS

Project: TITAN 1-A

SDG : 24J168

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

A total of eighteen(18) water samples were received on 10/28/24 to be analyzed for Volatile Organics by GC/MS in accordance with Method SW5030C/8260C and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. For this SDG, the following were noted: O-Xylene was detected biased high(%D=36.2) in CCV(data file ID RKV027). However, note that O-Xylene was not detected in the associated field sample(s). O-Xylene was detected biased high(%D=62.7) in closing CCV(data file ID RKV050). Therefore, 2 additional closing CCVs (RKV051, 052) were analyzed. O-xylene was within criteria on the additional closing CCVs. However, note that the analytes in question were not detected in any of the associated field samples. O-Xylene was detected biased high(%D=67.3) in CCV(data file ID RKV069). However, note that the analytes in question were not detected in any of the associated field samples. Target analytes in closing CCV(Datafile ID:RKV090) were within calibration acceptance criteria.Refer to calibration summary forms of ICAL, ICV and CCV for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, two(2) method blanks were analyzed. VO01K02B and VO01K04B were compliant to project requirement. Refer to sample result summary forms for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, two(2) sets of LCS/LCD were analyzed. Lab control sample was prepared and analyzed at a frequency required by the project. All analytes were within LCS limits except for: VO01K02L/VO01K02C and VO01K04L/VO01K04C - Percent recovery for O-Xylene in LCS (VO01K04L) was high biased; however associated LCSD was within limits. O-xylene was not detected in associated samples. The rest of the analytes were in control. Refer to LCS summary forms for details.

Matrix QC Sample
Matrix spike sample was prepared and analyzed at a frequency required by the project. For this SDG, one(1) set of MS/MSD was analyzed and the following were noted: 24J168-06M/24J168-06S - Percent recovery and RPD for O-Xylene was not within MS/MSD QC limits. Percent recovery for Trichloroethene(7X) was not within MS/MSD QC limits, due to high sample concentration. Note that RPD was within

limits. The enclosed value(#X) is the ratio of parent sample result and spike amount. The rest of the analytes were in control. Refer to Matrix QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. For this SDG, all surrogate recoveries were within QC limits except for 1,2-Dichloroethane-D4 in J168-03 was biased slightly high. Other surrogates were within limits. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : TITAN 1-A

SDG NO. : 24J168
Instrument ID : 01

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1W	V001K02L	1	NA	11/04/2417:58	11/04/2417:58	RKV028	RJV302	V001K02	Lab Control Sample (LCS)
LCD1W	V001K02C	1	NA	11/04/2418:27	11/04/2418:27	RKV029	RJV302	V001K02	LCS Duplicate
MBLK1W	V001K02B	1	NA	11/04/2419:26	11/04/2419:26	RKV031	RJV302	V001K02	Method Blank
T1AMF-MW042_OCT24	24J168-07	1	NA	11/04/2422:49	11/04/2422:49	RKV038	RJV302	V001K02	Field Sample
T1AMF-MW046_OCT24	24J168-08	1	NA	11/04/2423:17	11/04/2423:17	RKV039	RJV302	V001K02	Field Sample
T1AMF-MW056_OCT24	24J168-09	1	NA	11/04/2423:46	11/04/2423:46	RKV040	RJV302	V001K02	Field Sample
T1AMF-MW056_OCT24_FD	24J168-10	1	NA	11/05/2400:15	11/05/2400:15	RKV041	RJV302	V001K02	Field Sample
T1AMF-MW049_OCT24	24J168-11	1	NA	11/05/2400:43	11/05/2400:43	RKV042	RJV302	V001K02	Field Sample
T1AMF-MW051_OCT24	24J168-12	1	NA	11/05/2401:12	11/05/2401:12	RKV043	RJV302	V001K02	Field Sample
T1AMF-MW029_OCT24	24J168-13	1	NA	11/05/2401:41	11/05/2401:41	RKV044	RJV302	V001K02	Field Sample
T1AMF-EW01_OCT24	24J168-14	1	NA	11/05/2402:09	11/05/2402:09	RKV045	RJV302	V001K02	Field Sample
T1AMF-MW045_OCT24	24J168-15	1	NA	11/05/2402:38	11/05/2402:38	RKV046	RJV302	V001K02	Field Sample
T1AMF-EB001_OCT24	24J168-16	1	NA	11/05/2403:07	11/05/2403:07	RKV047	RJV302	V001K02	Field Sample
T1AMF-EB002_OCT24	24J168-17	1	NA	11/05/2403:36	11/05/2403:36	RKV048	RJV302	V001K02	Field Sample
T1AMF-SB001_OCT24	24J168-18	1	NA	11/05/2404:05	11/05/2404:05	RKV049	RJV302	V001K02	Field Sample
LCS2W	V001K04L	1	NA	11/06/2408:40	11/06/2408:40	RKV070	RJV302	V001K04	Lab Control Sample (LCS)
LCD2W	V001K04C	1	NA	11/06/2409:09	11/06/2409:09	RKV071	RJV302	V001K04	LCS Duplicate
MBLK2W	V001K04B	1	NA	11/06/2410:08	11/06/2410:08	RKV073	RJV302	V001K04	Method Blank
T1AMF-MW044_OCT24	24J168-06	1	NA	11/06/2411:36	11/06/2411:36	RKV076	RJV302	V001K04	Field Sample
T1AMF-MW050_OCT24	24J168-01	1	NA	11/06/2412:05	11/06/2412:05	RKV077	RJV302	V001K04	Field Sample
T1AMF-MW050_OCT24_FD	24J168-02	1	NA	11/06/2412:35	11/06/2412:35	RKV078	RJV302	V001K04	Field Sample
T1AMF-MW022_OCT24	24J168-03	1	NA	11/06/2413:05	11/06/2413:05	RKV079	RJV302	V001K04	Field Sample
T1AMF-MW047_OCT24	24J168-04	1	NA	11/06/2413:35	11/06/2413:35	RKV080	RJV302	V001K04	Field Sample
T1AMF-MW043_OCT24	24J168-05	1	NA	11/06/2414:04	11/06/2414:04	RKV081	RJV302	V001K04	Field Sample
T1AMF-MW046_OCT24	24J168-08I	5	NA	11/06/2414:34	11/06/2414:34	RKV082	RJV302	V001K04	Diluted Sample
T1AMF-EW01_OCT24	24J168-14I	25	NA	11/06/2415:04	11/06/2415:04	RKV083	RJV302	V001K04	Diluted Sample
T1AMF-MW045_OCT24	24J168-15I	10	NA	11/06/2415:34	11/06/2415:34	RKV084	RJV302	V001K04	Diluted Sample
T1AMF-MW044_OCT24MS	24J168-06M	1	NA	11/06/2417:33	11/06/2417:33	RKV088	RJV302	V001K04	Matrix Spike Sample (MS)
T1AMF-MW044_OCT24MSD	24J168-06S	1	NA	11/06/2418:03	11/06/2418:03	RKV089	RJV302	V001K04	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 08:47
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 12:05
Sample ID	: T1AMF-MW050_OCT24	Date Analyzed:	11/06/24 12:05
Lab Samp ID:	24J168-01	Dilution Factor:	1
Lab File ID:	RKV077	Matrix:	WATER
Ext Btch ID:	V001K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	0.80J	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.19J	1.0	0.10	0.20
Trichloroethene	21	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.4	10.0	114	81-118
4-Bromofluorobenzene	9.52	10.0	95	85-114
Toluene-d8	10.1	10.0	101	89-112
Dibromofluoromethane	11.4	10.0	114	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV077.D Vial: 10
Acq On : 6 Nov 2024 12:05 pm Operator: DNguye/CLingl
Sample : 24J168-01 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 11:28 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	763080	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.71	117	603090	10.00	ug/l	0.02
72) 1,2-DICHLOROBENZENE-D4	18.67	152	252384	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	227438	11.41	ug/l	0.00
Spiked Amount 10.000			Recovery = 114.10%			
41) 1,2-Dichloroethane-d4	7.97	65	200537	11.42	ug/l	0.00
Spiked Amount 10.000			Recovery = 114.20%			
54) Toluene-d8	11.02	98	839526	10.12	ug/l	0.00
Spiked Amount 10.000			Recovery = 101.20%			
76) 4-Bromofluorobenzene	15.99	95	284601	9.52	ug/l	0.02
Spiked Amount 10.000			Recovery = 95.20%			
Target Compounds						Qvalue
22) trans-1,2-Dichloroethene	5.26	61	6458	0.19	ug/l	96
30) cis-1,2-Dichloroethene	6.69	96	19759	0.80	ug/l	87
31) Chloroform	6.92	83	23592	0.58	ug/l	96
44) Trichloroethene	9.06	130	478392	20.70	ug/l	93

(#) = qualifier out of range (m) = manual integration

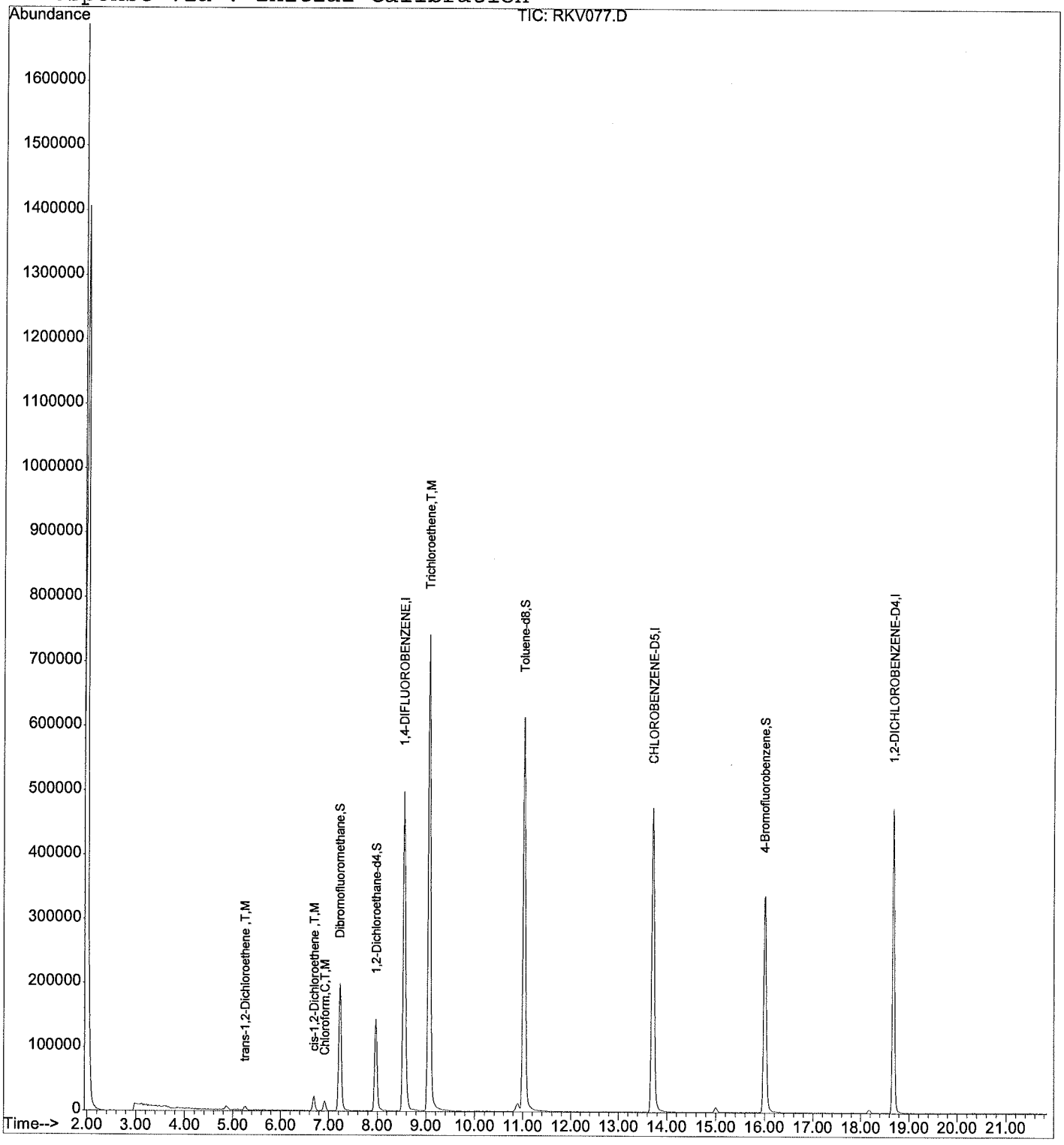
Quantitation Report

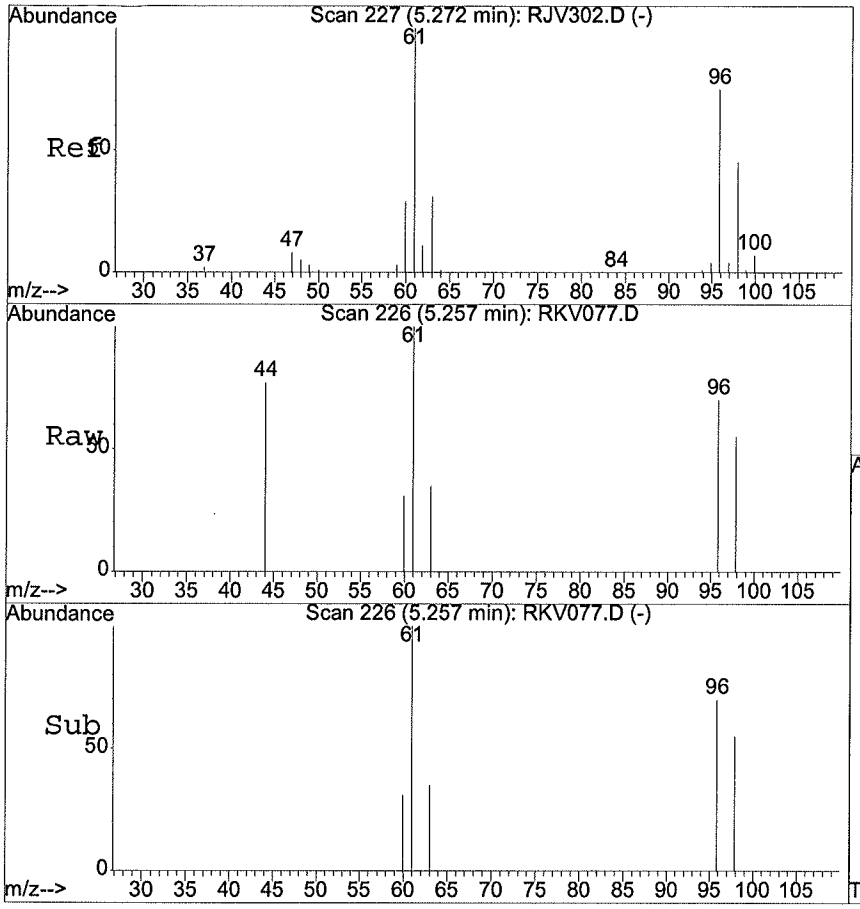
Data File : D:\HPCHEM\1\DATA\24K06\RKV077.D
Acq On : 6 Nov 2024 12:05 pm
Sample : 24J168-01
Misc : 25mL
MS Integration Params: RTE.P
Quant Time: Nov 14 11:28 2024

Vial: 10
Operator: DNguye/CLing
Inst : 01
Multiplr: 1.00

Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

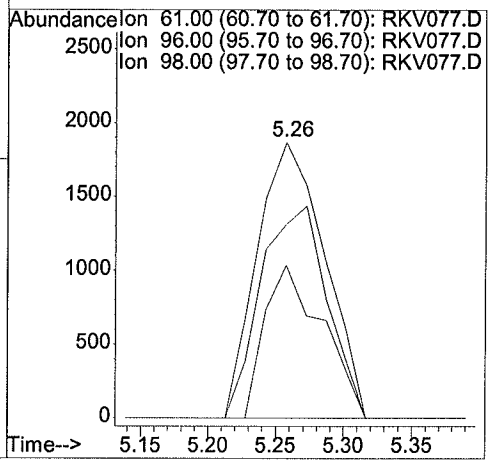


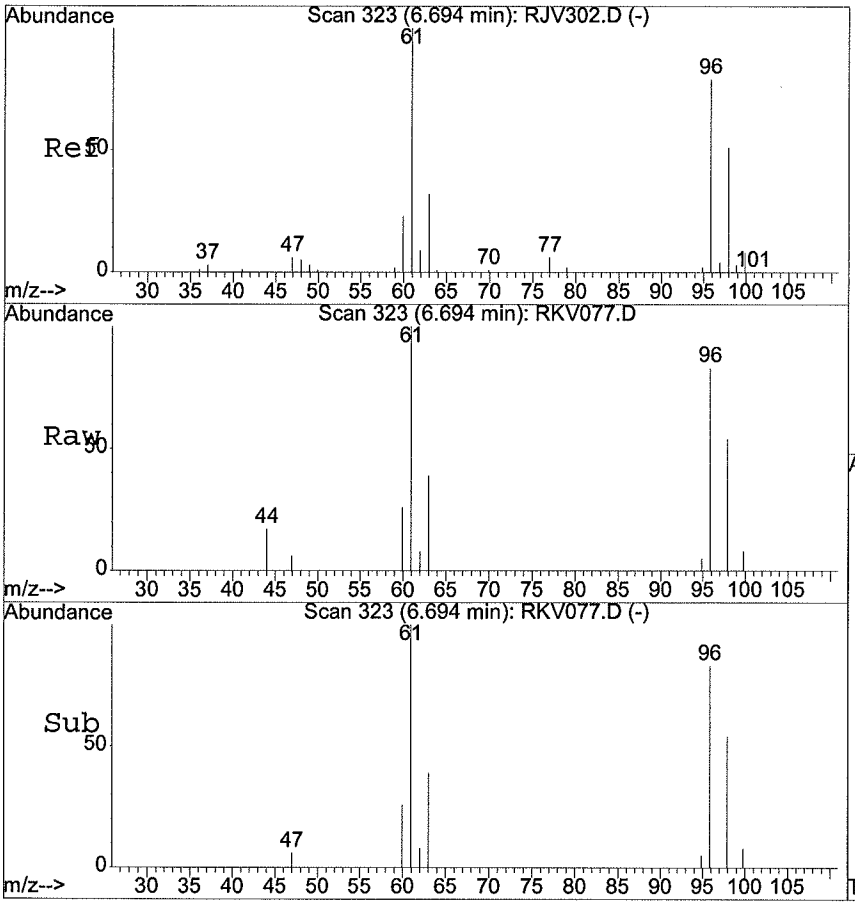


#22
trans-1,2-Dichloroethene
Concen: 0.19 ug/l
RT: 5.26 min Scan# 226
Delta R.T. -0.02 min
Lab File: RKV077.D
Acq: 6 Nov 2024 12:05 pm

Tgt Ion: 61 Resp: 6458

Ion	Ratio	Lower	Upper
61	100		
96	75.4	41.8	101.8
98	47.5	15.3	75.3

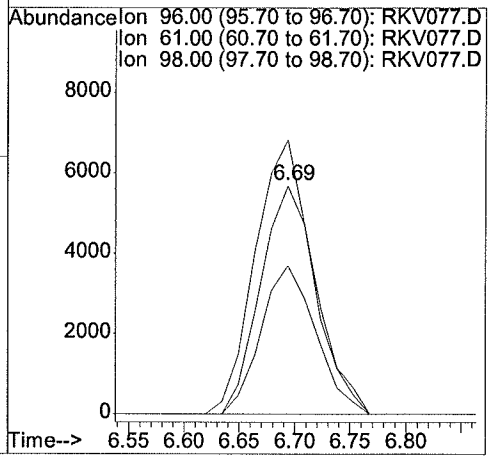


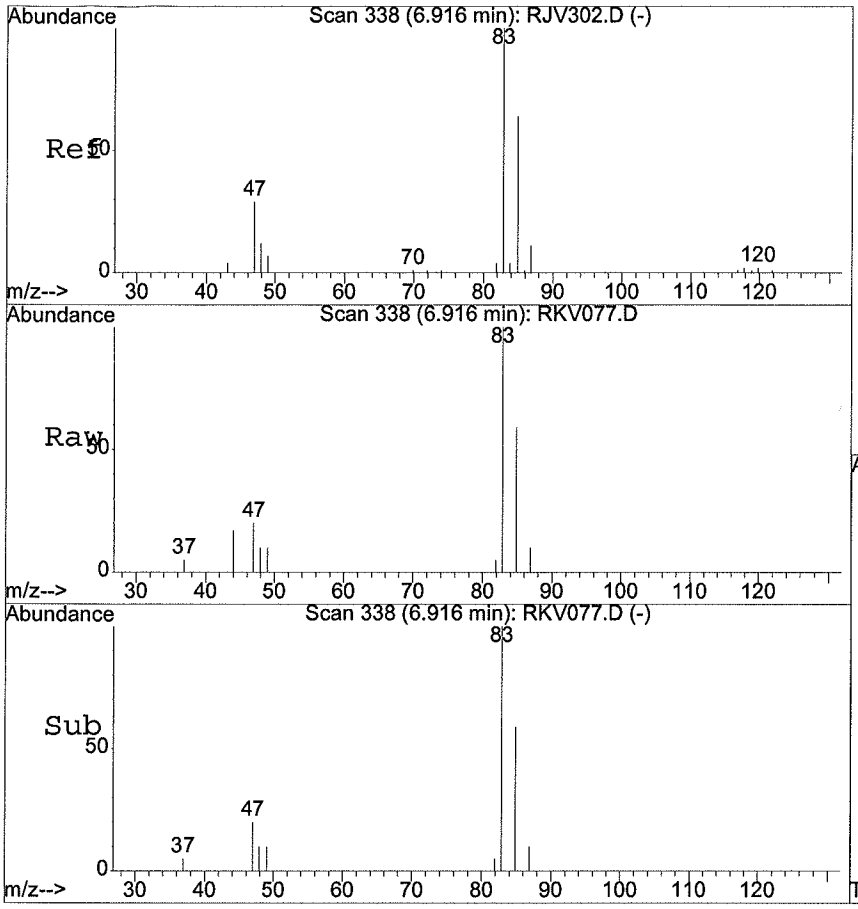


#30
cis-1,2-Dichloroethene
Concen: 0.80 ug/l
RT: 6.69 min Scan# 323
Delta R.T. -0.00 min
Lab File: RKV077.D
Acq: 6 Nov 2024 12:05 pm

Tgt Ion: 96 Resp: 19759

Ion	Ratio	Lower	Upper
96	100		
61	125.1	118.2	178.2
98	64.2	35.6	95.6

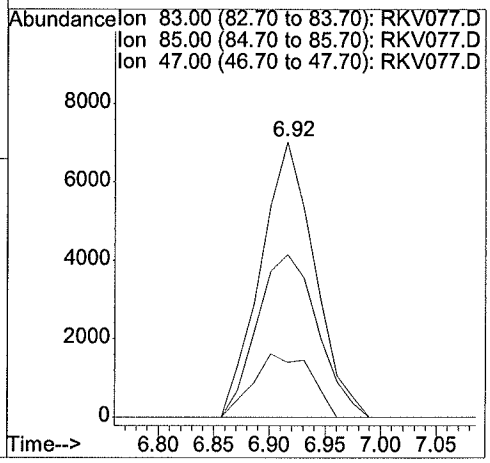


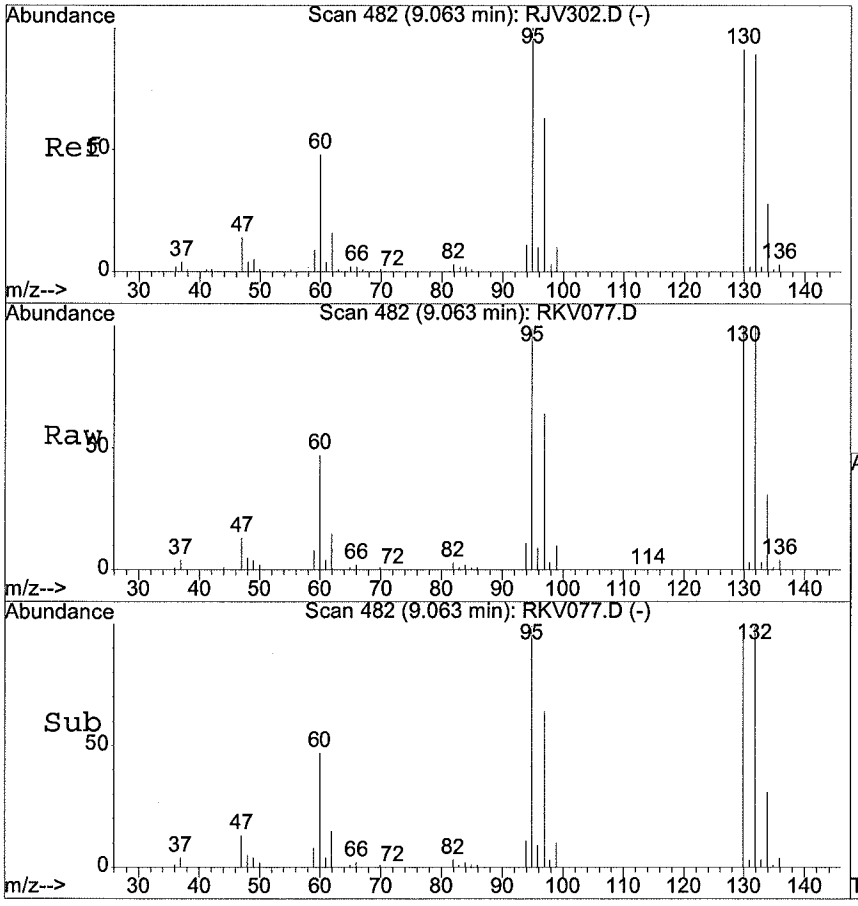


#31
Chloroform
Concen: 0.58 ug/l
RT: 6.92 min Scan# 338
Delta R.T. -0.00 min
Lab File: RKV077.D
Acq: 6 Nov 2024 12:05 pm

Tgt Ion: 83 Resp: 23592

Ion	Ratio	Lower	Upper
83	100		
85	66.3	37.8	97.8
47	24.6	0.0	59.1

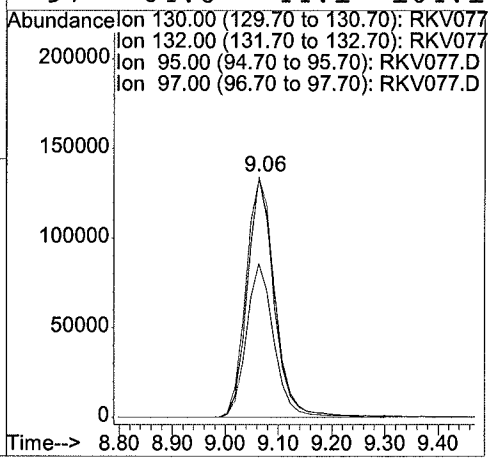




#44
Trichloroethene
Concen: 20.70 ug/l
RT: 9.06 min Scan# 482
Delta R.T. 0.00 min
Lab File: RKV077.D
Acq: 6 Nov 2024 12:05 pm

Tgt Ion:130 Resp: 478392

Ion	Ratio	Lower	Upper
130	100		
132	101.3	67.4	127.4
95	102.7	81.2	141.2
97	64.6	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 08:52
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 12:35
Sample ID	: T1AMF-MW050_OCT24_FD	Date Analyzed:	11/06/24 12:35
Lab Samp ID:	24J168-02	Dilution Factor:	1
Lab File ID:	RKV078	Matrix:	WATER
Ext Btch ID:	VO01K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	0.79J	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	22	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.8	10.0	108	81-118
4-Bromofluorobenzene	9.72	10.0	97	85-114
Toluene-d8	10.3	10.0	103	89-112
Dibromofluoromethane	11.2	10.0	112	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV078.D Vial: 11
Acq On : 6 Nov 2024 12:35 pm Operator: DNguye/CLingl
Sample : 24J168-02 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 11:28 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	737878	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.71	117	571219	10.00	ug/l	0.01
72) 1,2-DICHLOROBENZENE-D4	18.69	152	237719	10.00	ug/l	0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	216111	11.21	ug/l	0.00
Spiked Amount 10.000			Recovery = 112.10%			
41) 1,2-Dichloroethane-d4	7.97	65	182659	10.76	ug/l	0.00
Spiked Amount 10.000			Recovery = 107.60%			
54) Toluene-d8	11.02	98	808383	10.29	ug/l	0.00
Spiked Amount 10.000			Recovery = 102.90%			
76) 4-Bromofluorobenzene	16.01	95	273705	9.72	ug/l	0.03
Spiked Amount 10.000			Recovery = 97.20%			
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	6.69	96	18692	0.79	ug/l	90
31) Chloroform	6.92	83	24656	0.62	ug/l	90
44) Trichloroethene	9.06	130	483312	21.63	ug/l	93

(#) = qualifier out of range (m) = manual integration

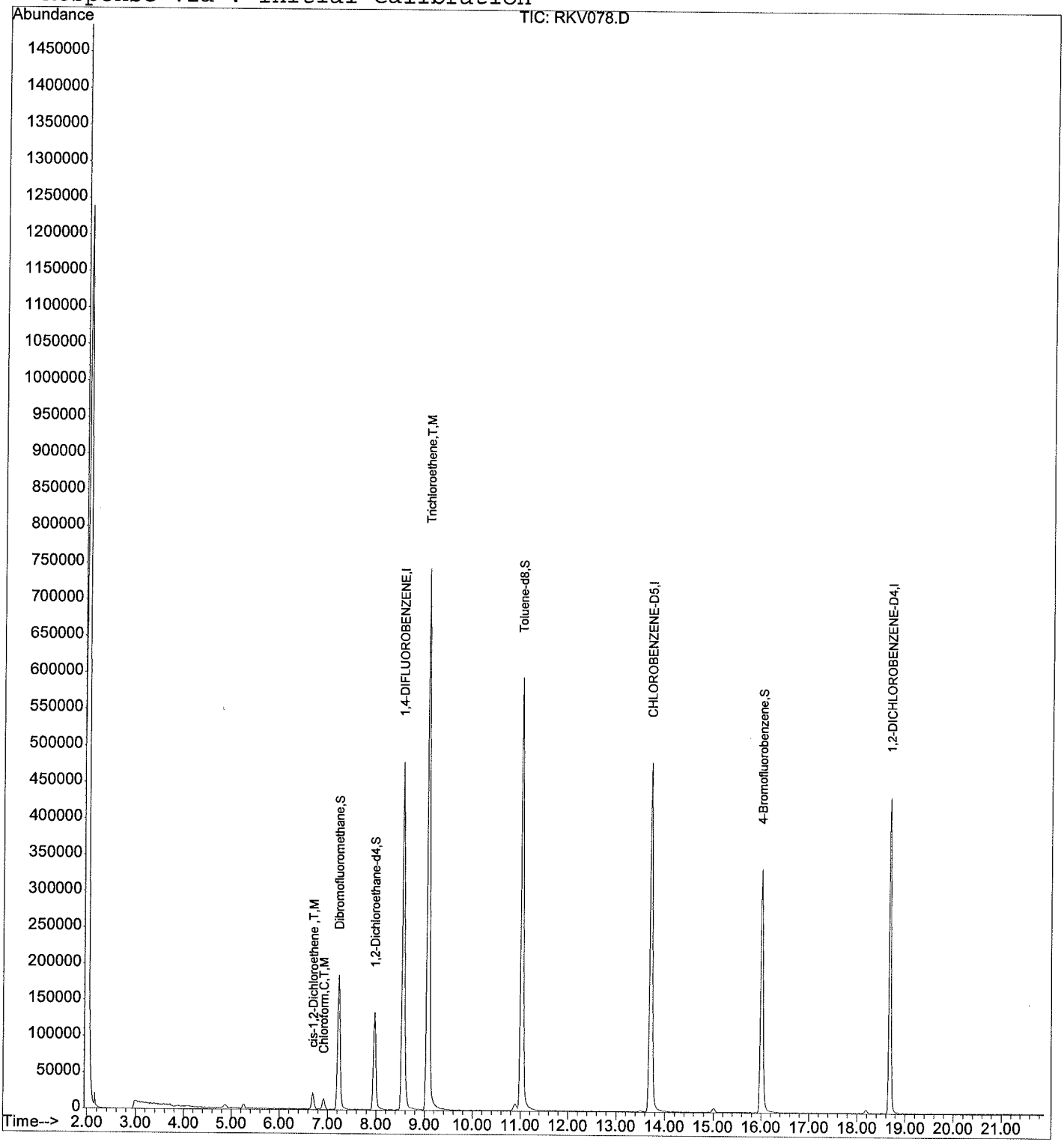
Quantitation Report

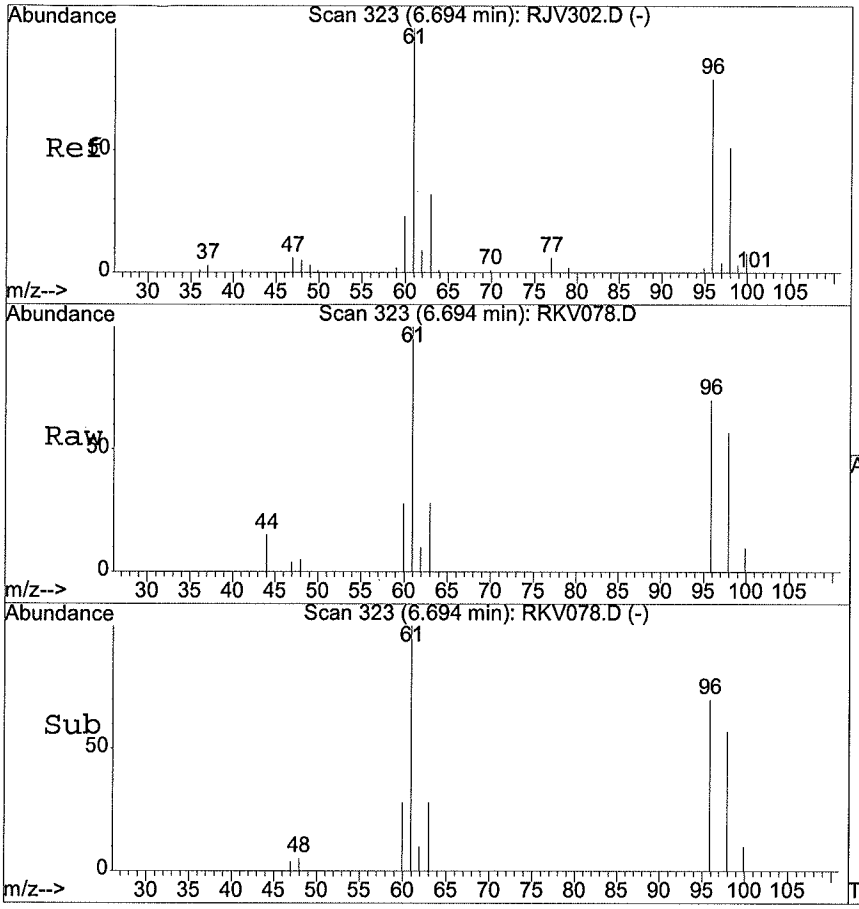
Data File : D:\HPCHEM\1\DATA\24K06\RKV078.D
Acq On : 6 Nov 2024 12:35 pm
Sample : 24J168-02
Misc : 25mL
MS Integration Params: RTE.P
Quant Time: Nov 14 11:28 2024

Vial: 11
Operator: DNguye/CLing
Inst : 01
Multiplr: 1.00

Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

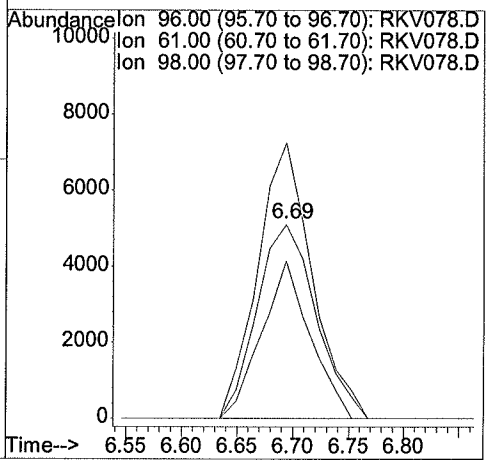


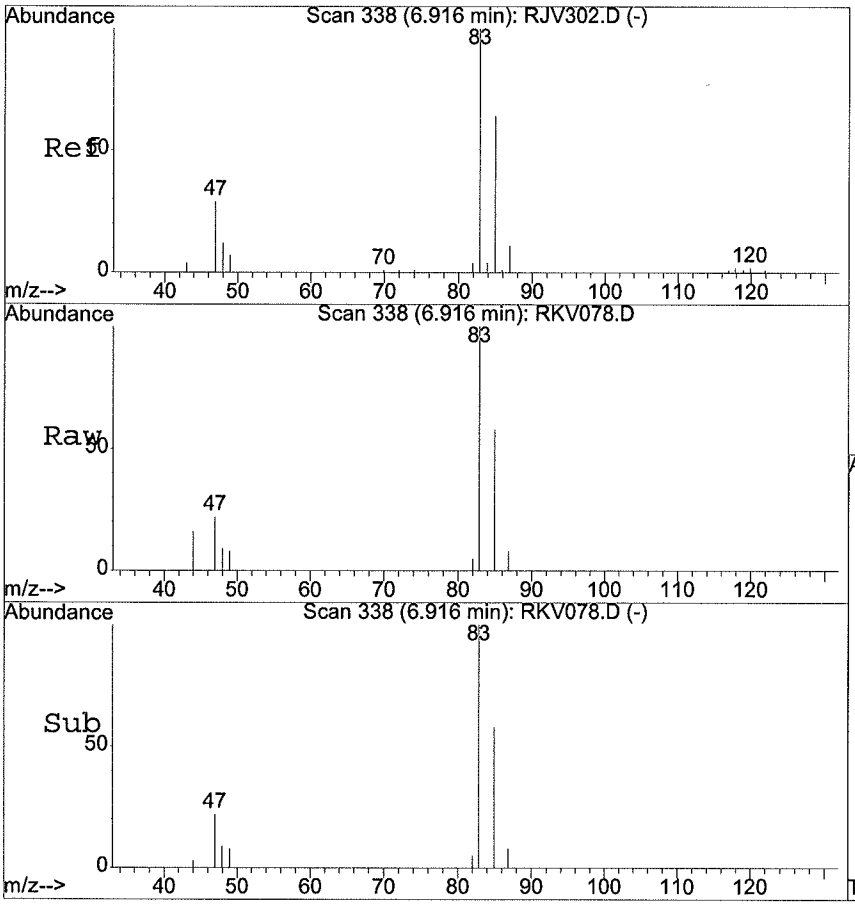


#30
cis-1,2-Dichloroethene
Concen: 0.79 ug/l
RT: 6.69 min Scan# 323
Delta R.T. -0.00 min
Lab File: RKV078.D
Acq: 6 Nov 2024 12:35 pm

Tgt Ion: 96 Resp: 18692

Ion	Ratio	Lower	Upper
96	100		
61	131.3	118.2	178.2
98	66.7	35.6	95.6

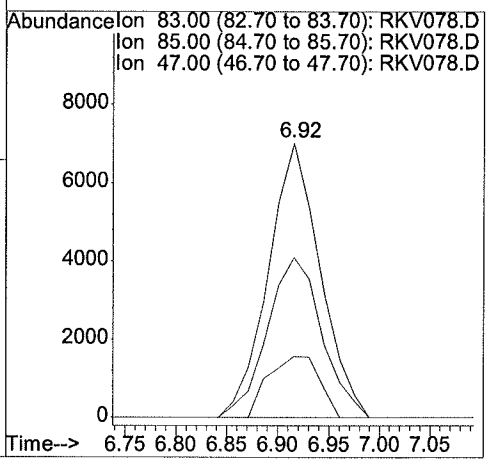


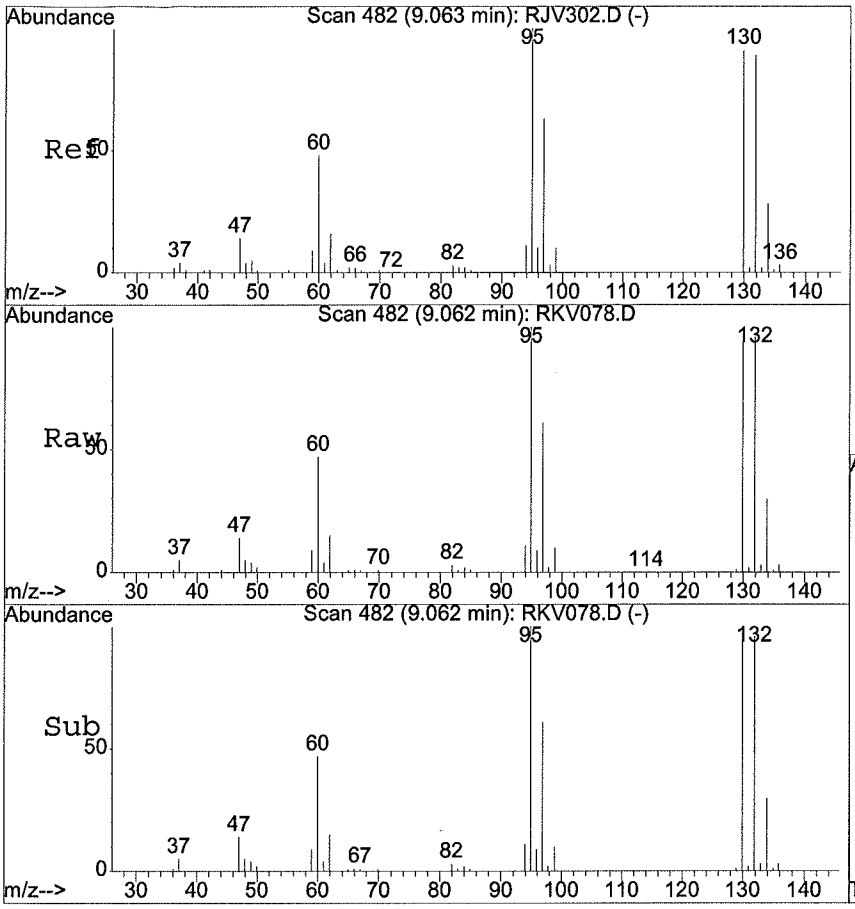


#31
Chloroform
Concen: 0.62 ug/l
RT: 6.92 min Scan# 338
Delta R.T. -0.00 min
Lab File: RKV078.D
Acq: 6 Nov 2024 12:35 pm

Tgt Ion: 83 Resp: 24656

Ion	Ratio	Lower	Upper
83	100		
85	61.4	37.8	97.8
47	22.0	0.0	59.1

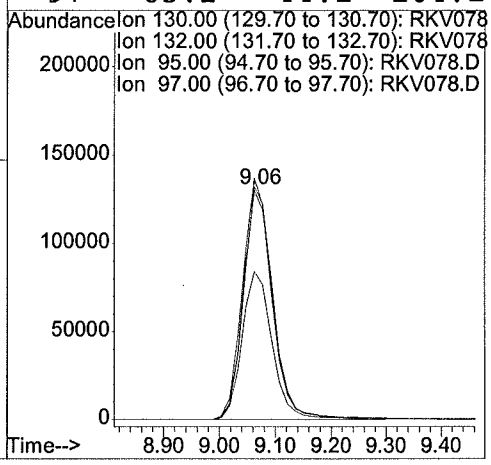




#44
Trichloroethene
Concen: 21.63 ug/l
RT: 9.06 min Scan# 482
Delta R.T. -0.00 min
Lab File: RKV078.D
Acq: 6 Nov 2024 12:35 pm

Tgt Ion:130 Resp: 483312

Ion	Ratio	Lower	Upper
130	100		
132	100.6	67.4	127.4
95	103.7	81.2	141.2
97	65.2	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 08:50
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 13:05
Sample ID	: T1AMF-MW022_OCT24	Date Analyzed:	11/06/24 13:05
Lab Samp ID:	24J168-03	Dilution Factor:	1
Lab File ID:	RKV079	Matrix:	WATER
Ext Btch ID:	V001K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	2.2	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	89	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	12.2	10.0	122*	81-118
4-Bromofluorobenzene	9.46	10.0	95	85-114
Toluene-d8	10.1	10.0	101	89-112
Dibromofluoromethane	11.8	10.0	118	80-119

Notes:

Sample Amount	: 25ml	Final Volume :	25ml
Prepared by	: DNguye	Analyzed by :	DNguye

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV079.D Vial: 12
Acq On : 6 Nov 2024 1:05 pm Operator: DNguye/CLingl
Sample : 24J168-03 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 11:28 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

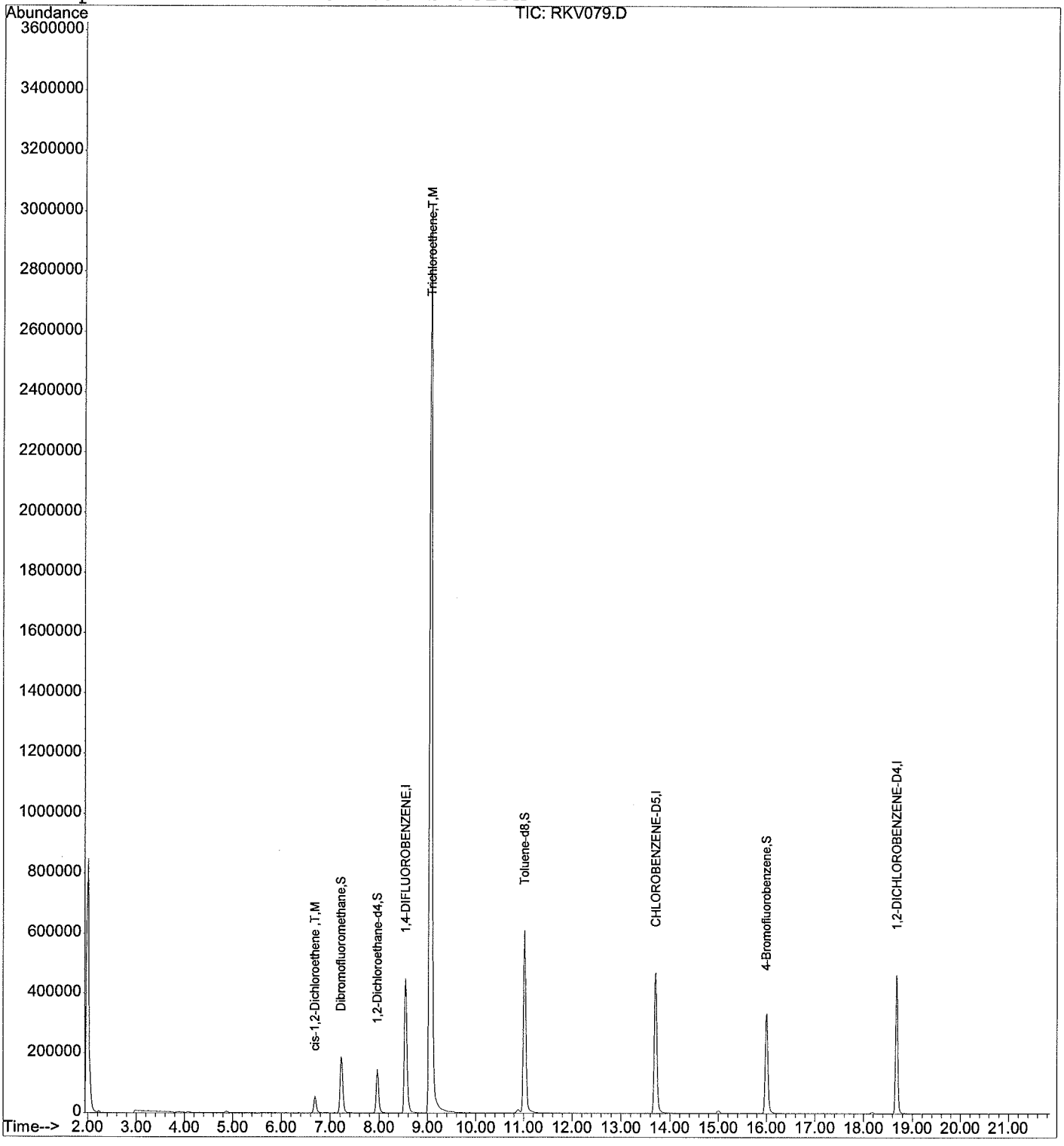
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.55	114	714071	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.71	117	588333	10.00	ug/l	0.02
72) 1,2-DICHLOROBENZENE-D4	18.67	152	246270	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	219436	11.76	ug/l	0.00
Spiked Amount 10.000			Recovery = 117.60%			
41) 1,2-Dichloroethane-d4	7.97	65	199777	12.16	ug/l	0.00
Spiked Amount 10.000			Recovery = 121.60%			
54) Toluene-d8	11.02	98	821089	10.15	ug/l	0.00
Spiked Amount 10.000			Recovery = 101.50%			
76) 4-Bromofluorobenzene	15.99	95	275798	9.46	ug/l	0.02
Spiked Amount 10.000			Recovery = 94.60%			
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	6.69	96	50039	2.18	ug/l	84
44) Trichloroethene	9.06	130	1932864	89.39	ug/l	93

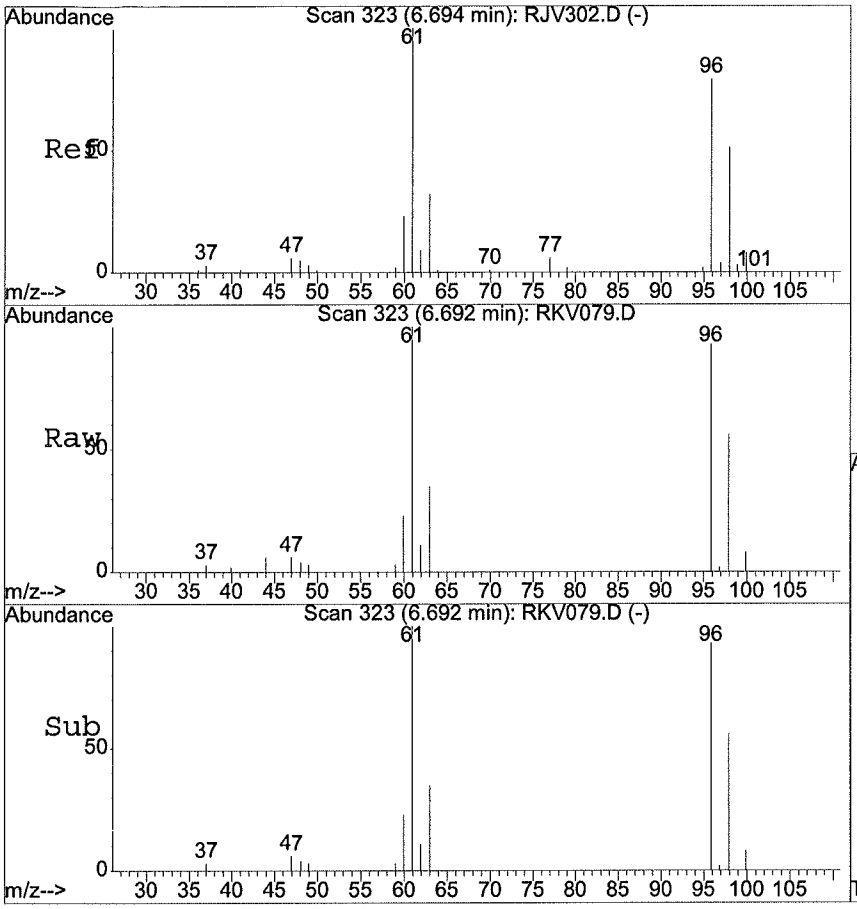
(#) = qualifier out of range (m) = manual integration
RKV079.D VO01J12.M Thu Nov 14 11:29:01 2024 Page 1

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV079.D Vial: 12
Acq On : 6 Nov 2024 1:05 pm Operator: DNguye/CLing
Sample : 24J168-03 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 11:28 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

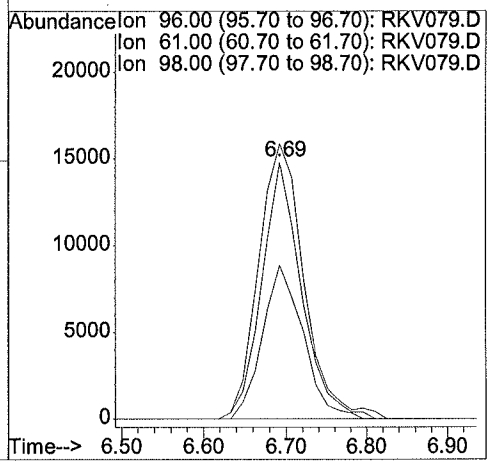


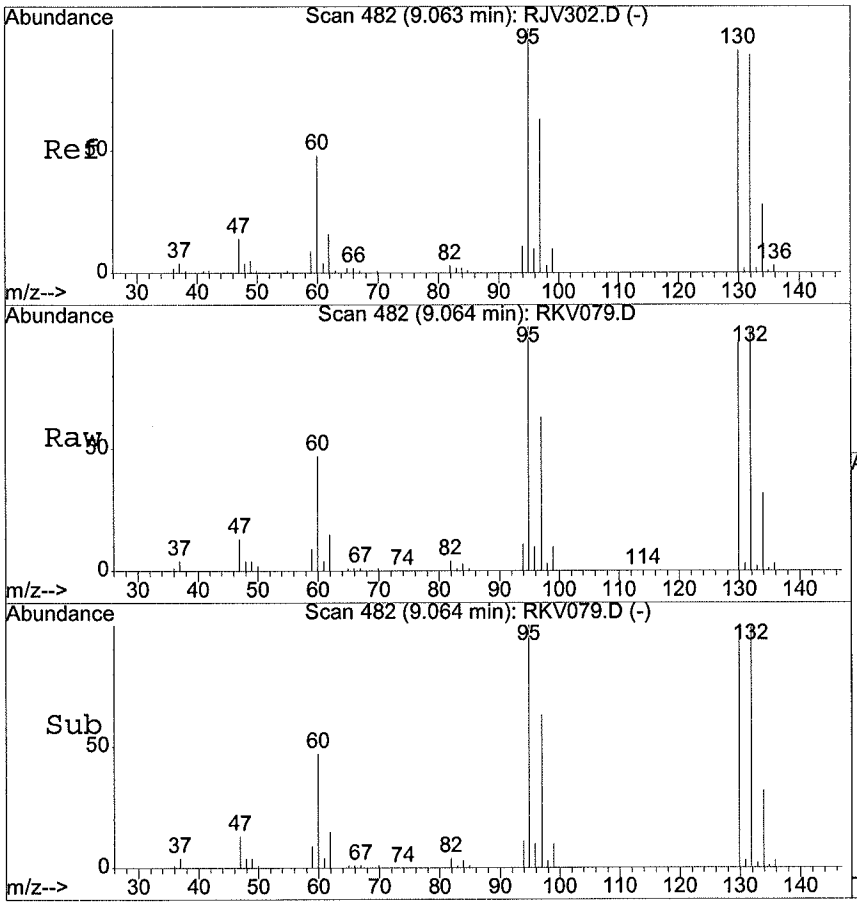


#30
cis-1,2-Dichloroethene
Concen: 2.18 ug/l
RT: 6.69 min Scan# 323
Delta R.T. -0.00 min
Lab File: RKV079.D
Acq: 6 Nov 2024 1:05 pm

Tgt Ion: 96 Resp: 50039

Ion	Ratio	Lower	Upper
96	100		
61	122.2	118.2	178.2
98	61.4	35.6	95.6

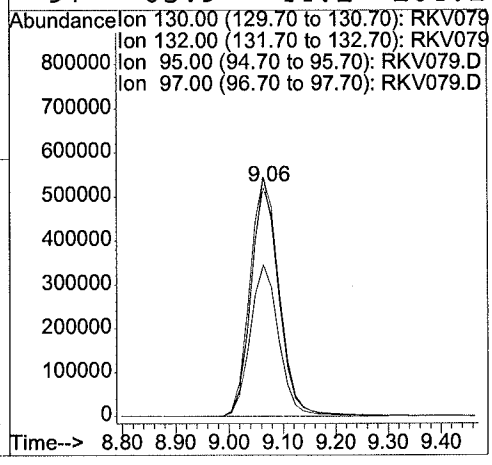




#44
Trichloroethene
Concen: 89.39 ug/l
RT: 9.06 min Scan# 482
Delta R.T. 0.00 min
Lab File: RKV079.D
Acq: 6 Nov 2024 1:05 pm

Tgt Ion:130 Resp: 1932864

Ion	Ratio	Lower	Upper
130	100		
132	102.3	67.4	127.4
95	103.5	81.2	141.2
97	65.9	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 09:41
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 13:35
Sample ID	: T1AMF-MW047_OCT24	Date Analyzed:	11/06/24 13:35
Lab Samp ID:	24J168-04	Dilution Factor:	1
Lab File ID:	RKV080	Matrix:	WATER
Ext Btch ID:	VO01K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	1.4	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.40J	1.0	0.10	0.20
Trichloroethene	26	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.3	10.0	113	81-118
4-Bromofluorobenzene	9.66	10.0	97	85-114
Toluene-d8	10.4	10.0	104	89-112
Dibromofluoromethane	11.1	10.0	111	80-119

Notes:

Sample Amount	: 25ml	Final Volume :	25ml
Prepared by	: DNguye	Analyzed by :	DNguye

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV080.D Vial: 13
Acq On : 6 Nov 2024 1:35 pm Operator: DNguye/CLingl
Sample : 24J168-04 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 11:29 2024 Quant Results File: VO01J12.RES

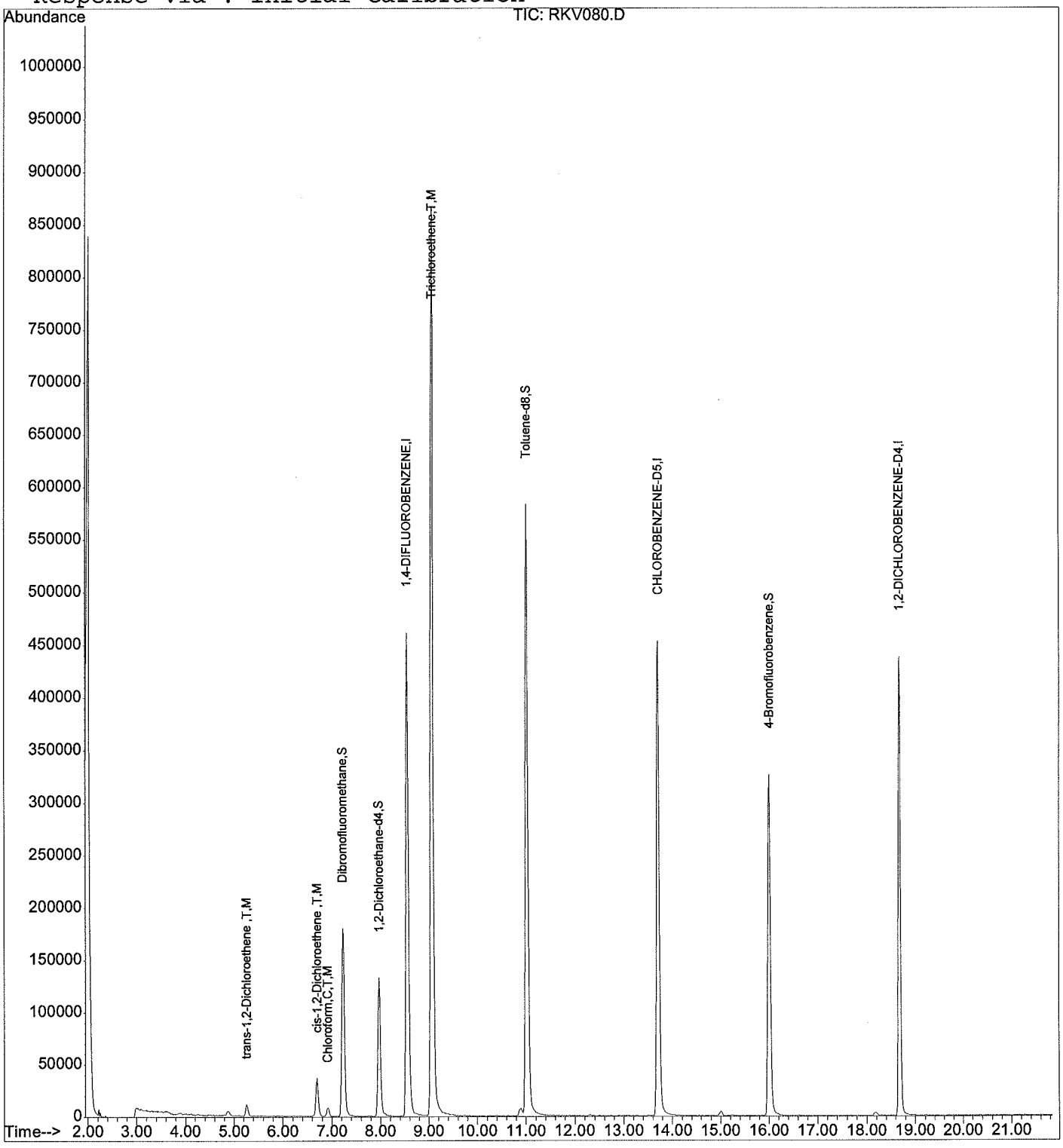
Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

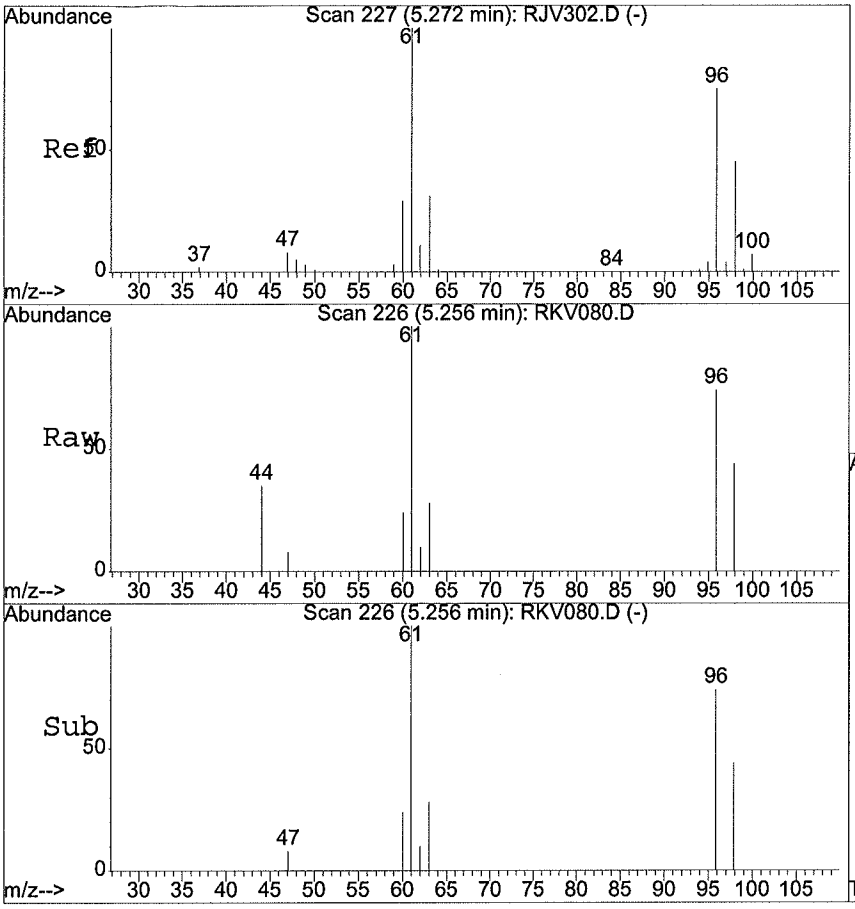
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.55	114	730120	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.71	117	565748	10.00	ug/l	0.02
72) 1,2-DICHLOROBENZENE-D4	18.67	152	236824	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	212303	11.13	ug/l	0.00
Spiked Amount 10.000			Recovery = 111.30%			
41) 1,2-Dichloroethane-d4	7.97	65	189030	11.25	ug/l	0.00
Spiked Amount 10.000			Recovery = 112.50%			
54) Toluene-d8	11.02	98	805396	10.35	ug/l	0.00
Spiked Amount 10.000			Recovery = 103.50%			
76) 4-Bromofluorobenzene	16.01	95	270855	9.66	ug/l	0.03
Spiked Amount 10.000			Recovery = 96.60%			
Target Compounds						Qvalue
22) trans-1,2-Dichloroethene	5.26	61	13168	0.40	ug/l	95
30) cis-1,2-Dichloroethene	6.69	96	32645	1.39	ug/l	86
31) Chloroform	6.91	83	13972	0.36	ug/l	91
44) Trichloroethene	9.06	130	572280	25.88	ug/l	93

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K06\RKV080.D Vial: 13
Acq On : 6 Nov 2024 1:35 pm Operator: DNguye/CLing
Sample : 24J168-04 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 11:29 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

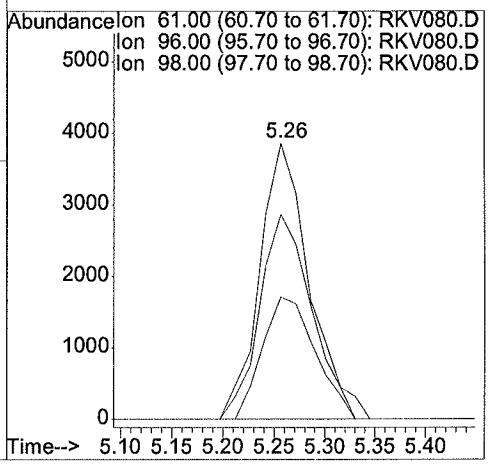


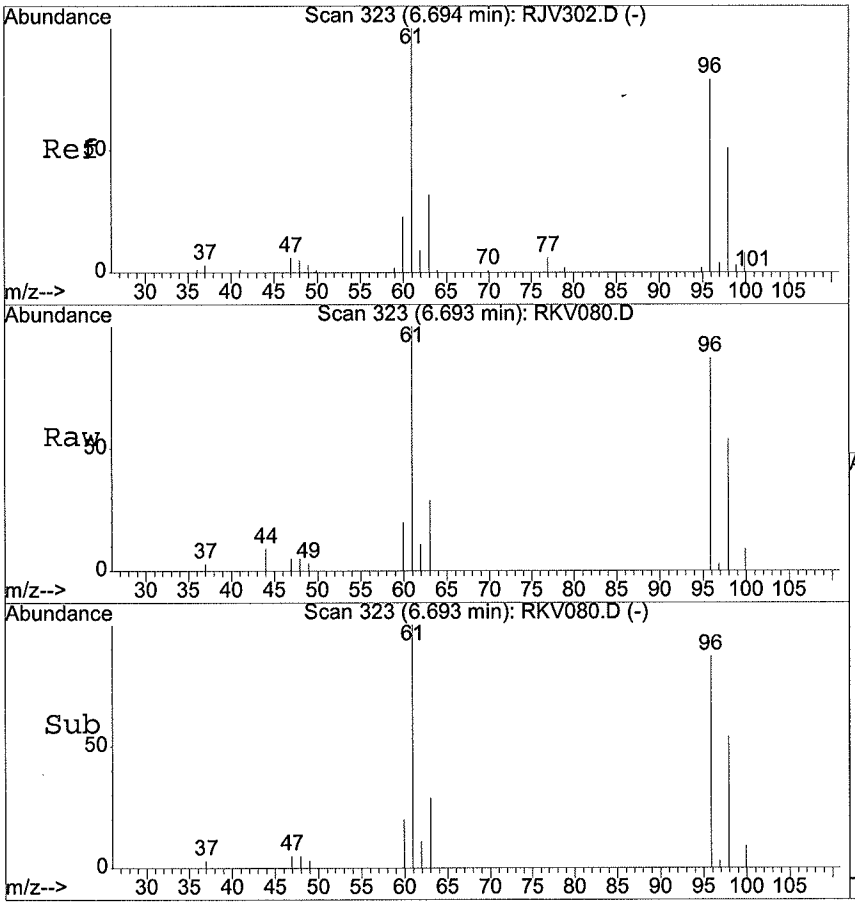


#22
trans-1,2-Dichloroethene
Concen: 0.40 ug/l
RT: 5.26 min Scan# 226
Delta R.T. -0.02 min
Lab File: RKV080.D
Acq: 6 Nov 2024 1:35 pm

Tgt Ion: 61 Resp: 13168

Ion	Ratio	Lower	Upper
61	100		
96	77.1	41.8	101.8
98	47.2	15.3	75.3

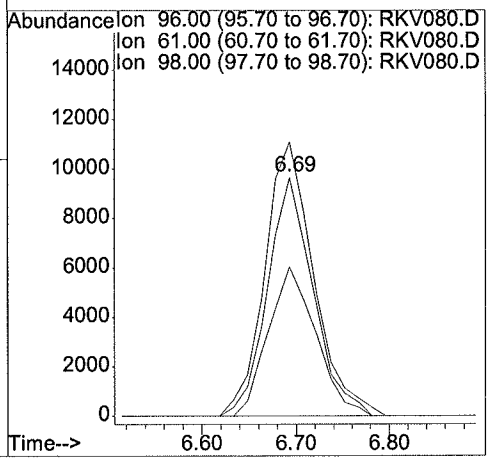


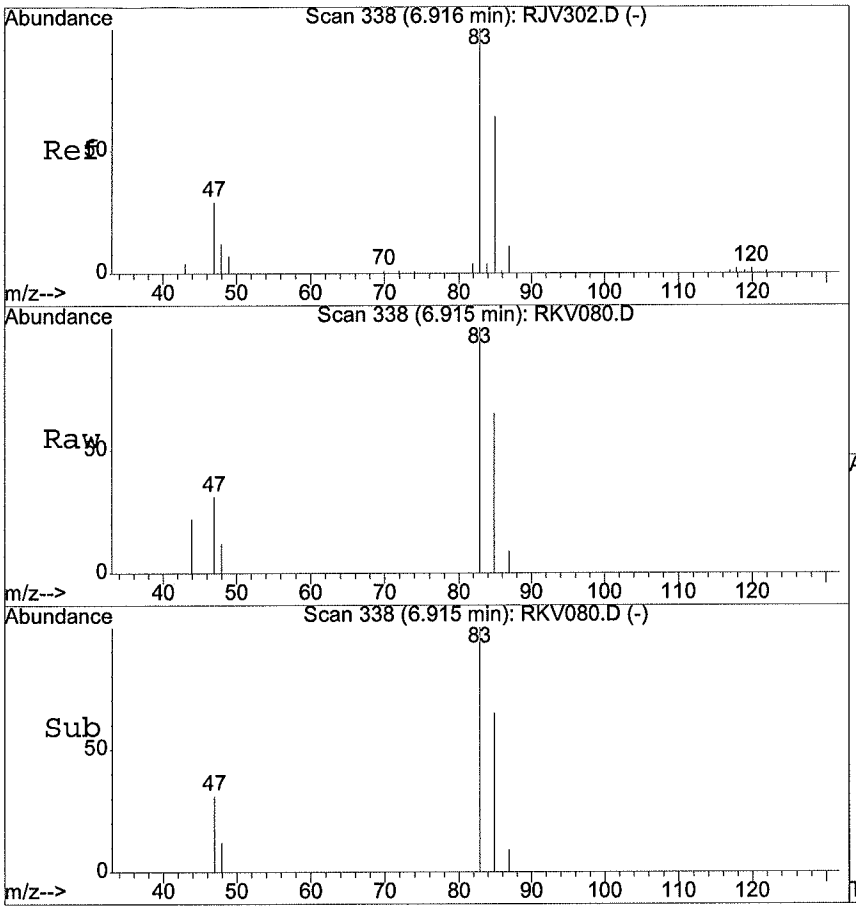


#30
cis-1,2-Dichloroethene
Concen: 1.39 ug/l
RT: 6.69 min Scan# 323
Delta R.T. -0.00 min
Lab File: RKV080.D
Acq: 6 Nov 2024 1:35 pm

Tgt Ion: 96 Resp: 32645

Ion	Ratio	Lower	Upper
96	100		
61	123.1	118.2	178.2
98	65.2	35.6	95.6

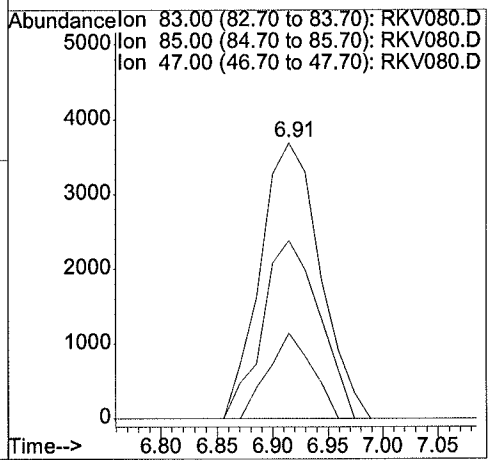


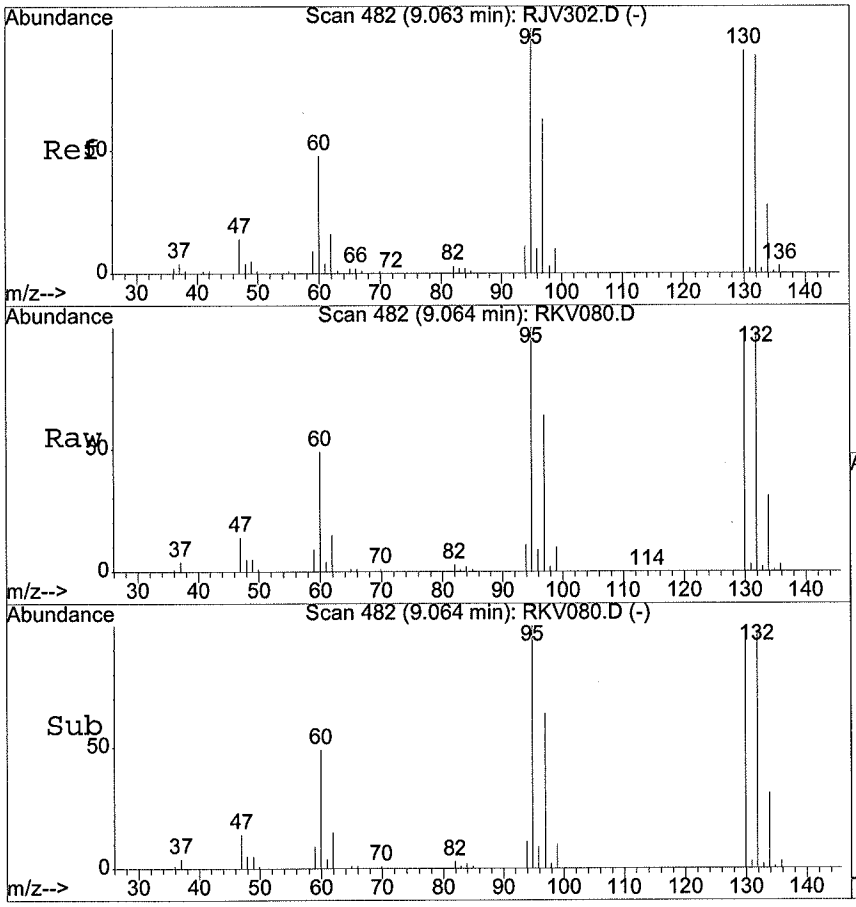


#31
Chloroform
Concen: 0.36 ug/l
RT: 6.91 min Scan# 338
Delta R.T. -0.00 min
Lab File: RKV080.D
Acq: 6 Nov 2024 1:35 pm

Tgt Ion: 83 Resp: 13972

Ion	Ratio	Lower	Upper
83	100		
85	61.4	37.8	97.8
47	22.9	0.0	59.1

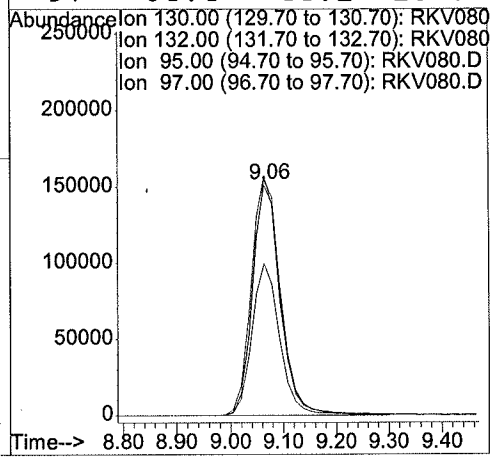




#44
Trichloroethene
Concen: 25.88 ug/l
RT: 9.06 min Scan# 482
Delta R.T. 0.00 min
Lab File: RKV080.D
Acq: 6 Nov 2024 1:35 pm

Tgt Ion:130 Resp: 572280

Ion	Ratio	Lower	Upper
130	100		
132	101.3	67.4	127.4
95	103.2	81.2	141.2
97	64.4	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 09:55
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 14:04
Sample ID	: T1AMF-MW043_OCT24	Date Analyzed:	11/06/24 14:04
Lab Samp ID:	24J168-05	Dilution Factor:	1
Lab File ID:	RKV081	Matrix:	WATER
Ext Btch ID:	V001K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	2.5	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.17J	1.0	0.10	0.20
Trichloroethene	44	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.6	10.0	116	81-118
4-Bromofluorobenzene	9.83	10.0	98	85-114
Toluene-d8	10.3	10.0	103	89-112
Dibromofluoromethane	11.2	10.0	112	80-119

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: DNguye	Analyzed by	: DNguye

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV081.D Vial: 14
Acq On : 6 Nov 2024 2:04 pm Operator: DNguye/CLingl
Sample : 24J168-05 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 11:29 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

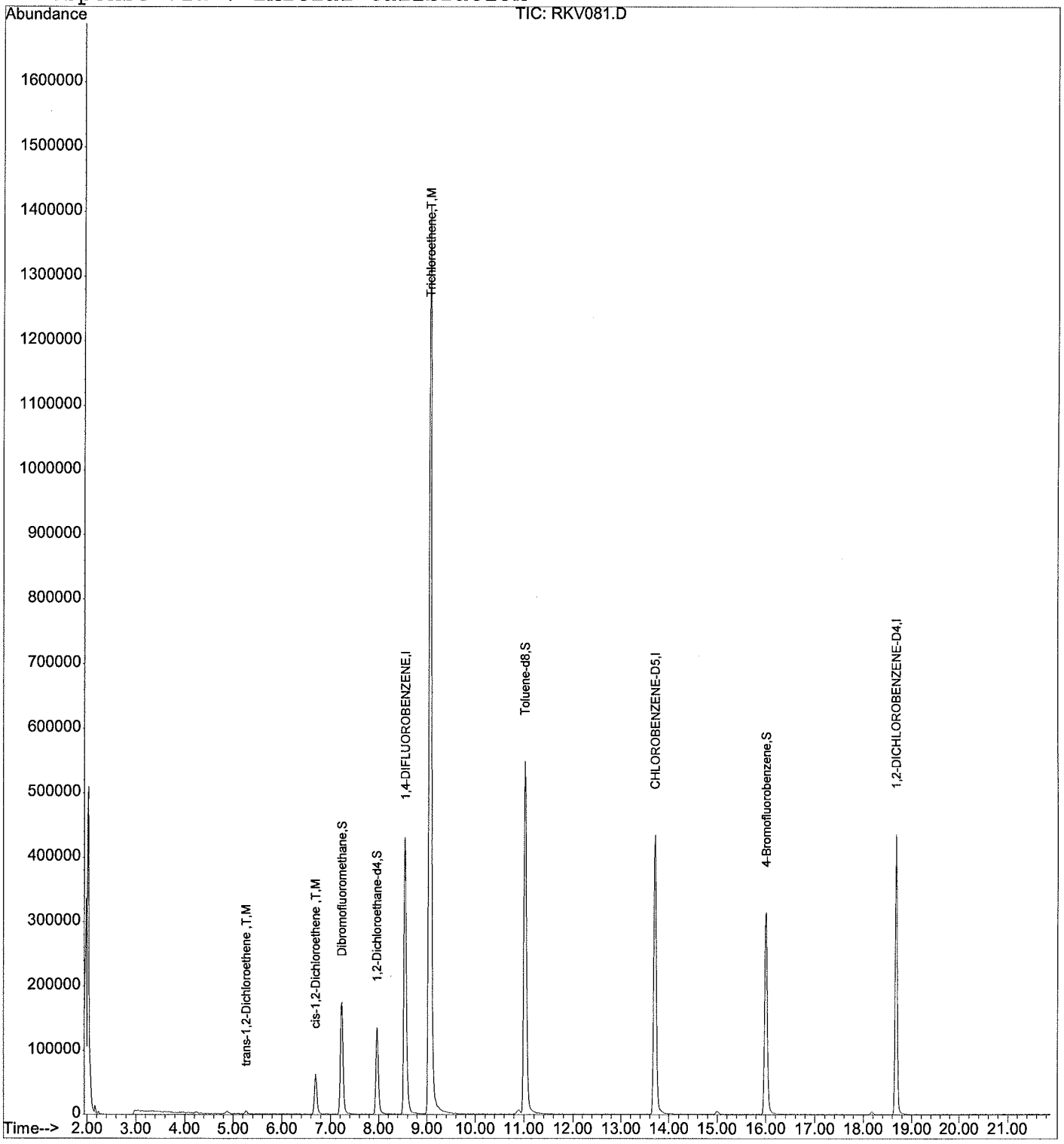
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.56	114	696707	10.00	ug/l	0.01
53) CHLOROBENZENE-D5	13.71	117	536262	10.00	ug/l	0.01
72) 1,2-DICHLOROBENZENE-D4	18.67	152	224271	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.24	111	204667	11.25	ug/l	0.01
Spiked Amount 10.000			Recovery =	112.50%		
41) 1,2-Dichloroethane-d4	7.97	65	185876	11.60	ug/l	0.00
Spiked Amount 10.000			Recovery =	116.00%		
54) Toluene-d8	11.02	98	757429	10.27	ug/l	0.00
Spiked Amount 10.000			Recovery =	102.70%		
76) 4-Bromofluorobenzene	16.01	95	261108	9.83	ug/l	0.03
Spiked Amount 10.000			Recovery =	98.30%		
Target Compounds						Qvalue
22) trans-1,2-Dichloroethene	5.27	61	5427	0.17	ug/l	95
30) cis-1,2-Dichloroethene	6.69	96	55774	2.49	ug/l	89
44) Trichloroethene	9.06	130	924026	43.80	ug/l	93

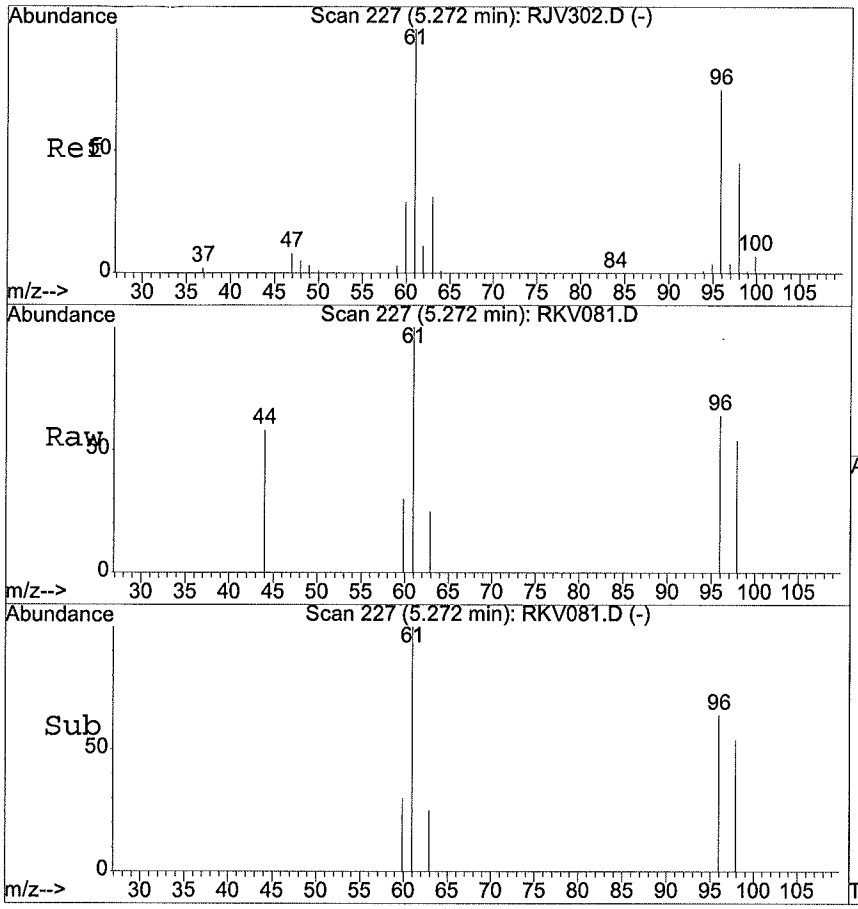
(#) = qualifier out of range (m) = manual integration
RKV081.D VO01J12.M Thu Nov 14 11:30:37 2024 Page 1

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV081.D Vial: 14
Acq On : 6 Nov 2024 2:04 pm Operator: DNguye/CLing
Sample : 24J168-05 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 11:29 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

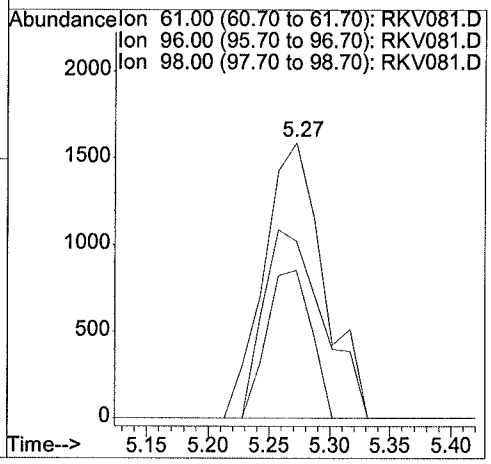


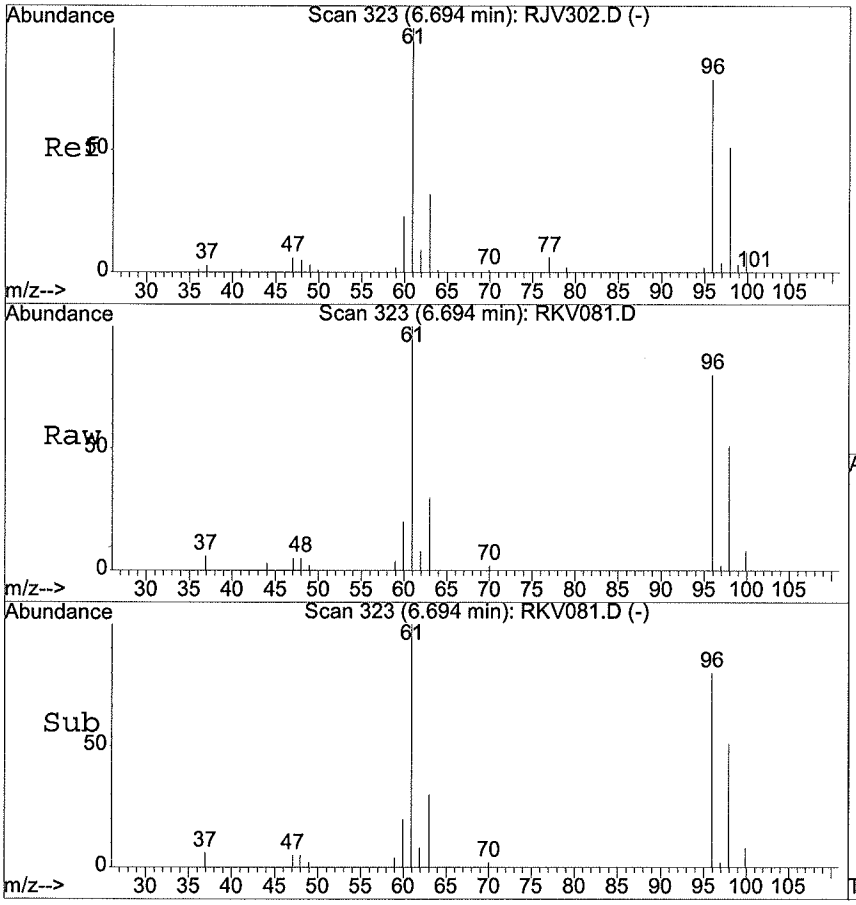


#22
trans-1,2-Dichloroethene
Concen: 0.17 ug/l
RT: 5.27 min Scan# 227
Delta R.T. -0.00 min
Lab File: RKV081.D
Acq: 6 Nov 2024 2:04 pm

Tgt Ion: 61 Resp: 5427

Ion	Ratio	Lower	Upper
61	100		
96	68.6	41.8	101.8
98	40.4	15.3	75.3

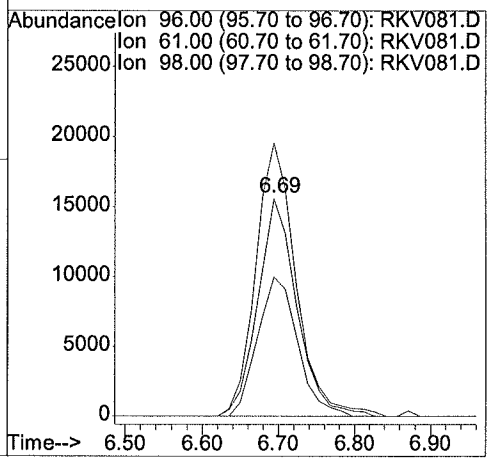


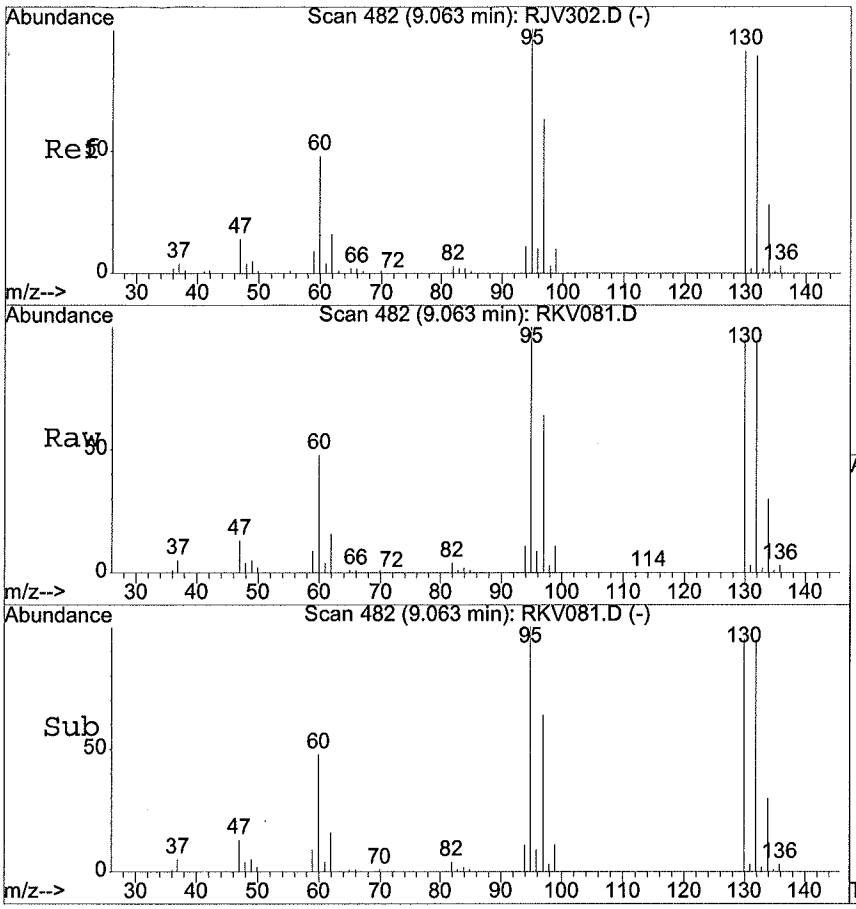


#30
cis-1,2-Dichloroethene
Concen: 2.49 ug/l
RT: 6.69 min Scan# 323
Delta R.T. -0.00 min
Lab File: RKV081.D
Acq: 6 Nov 2024 2:04 pm

Tgt Ion: 96 Resp: 55774

Ion	Ratio	Lower	Upper
96	100		
61	129.1	118.2	178.2
98	65.9	35.6	95.6

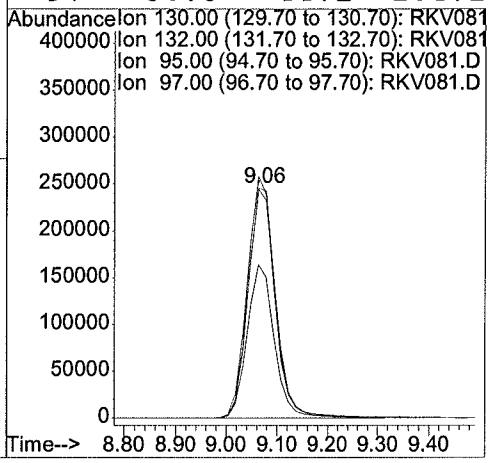




#44
Trichloroethene
Concen: 43.80 ug/l
RT: 9.06 min Scan# 482
Delta R.T. 0.00 min
Lab File: RKV081.D
Acq: 6 Nov 2024 2:04 pm

Tgt Ion:130 Resp: 924026

Ion	Ratio	Lower	Upper
130	100		
132	101.8	67.4	127.4
95	104.4	81.2	141.2
97	66.0	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 10:34
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 11:36
Sample ID	: T1AMF-MW044_OCT24	Date Analyzed:	11/06/24 11:36
Lab Samp ID:	24J168-06	Dilution Factor:	1
Lab File ID:	RKV076	Matrix:	WATER
Ext Btch ID:	VO01K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	2.9	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.25J	1.0	0.10	0.20
Trichloroethene	71	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.6	10.0	116	81-118
4-Bromofluorobenzene	9.47	10.0	95	85-114
Toluene-d8	10.3	10.0	103	89-112
Dibromofluoromethane	11.6	10.0	116	80-119

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: DNguye	Analyzed by	: DNguye

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV076.D Vial: 9
Acq On : 6 Nov 2024 11:36 am Operator: DNguye/CLingl
Sample : 24J168-06 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 11:26 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	728453	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.71	117	584196	10.00	ug/l	0.02
72) 1,2-DICHLOROBENZENE-D4	18.67	152	243937	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	220921	11.61	ug/l	0.00
Spiked Amount 10.000			Recovery =	116.10%		
41) 1,2-Dichloroethane-d4	7.97	65	193831	11.56	ug/l	0.00
Spiked Amount 10.000			Recovery =	115.60%		
54) Toluene-d8	11.02	98	823845	10.25	ug/l	0.00
Spiked Amount 10.000			Recovery =	102.50%		
76) 4-Bromofluorobenzene	15.99	95	273549	9.47	ug/l	0.02
Spiked Amount 10.000			Recovery =	94.70%		
Target Compounds						Qvalue
22) trans-1,2-Dichloroethene	5.27	61	8248	0.25	ug/l	92
30) cis-1,2-Dichloroethene	6.69	96	68469	2.92	ug/l	87
31) Chloroform	6.93	83	13599	0.35	ug/l	91
44) Trichloroethene	9.06	130	1565613	70.97	ug/l	93

(#) = qualifier out of range (m) = manual integration

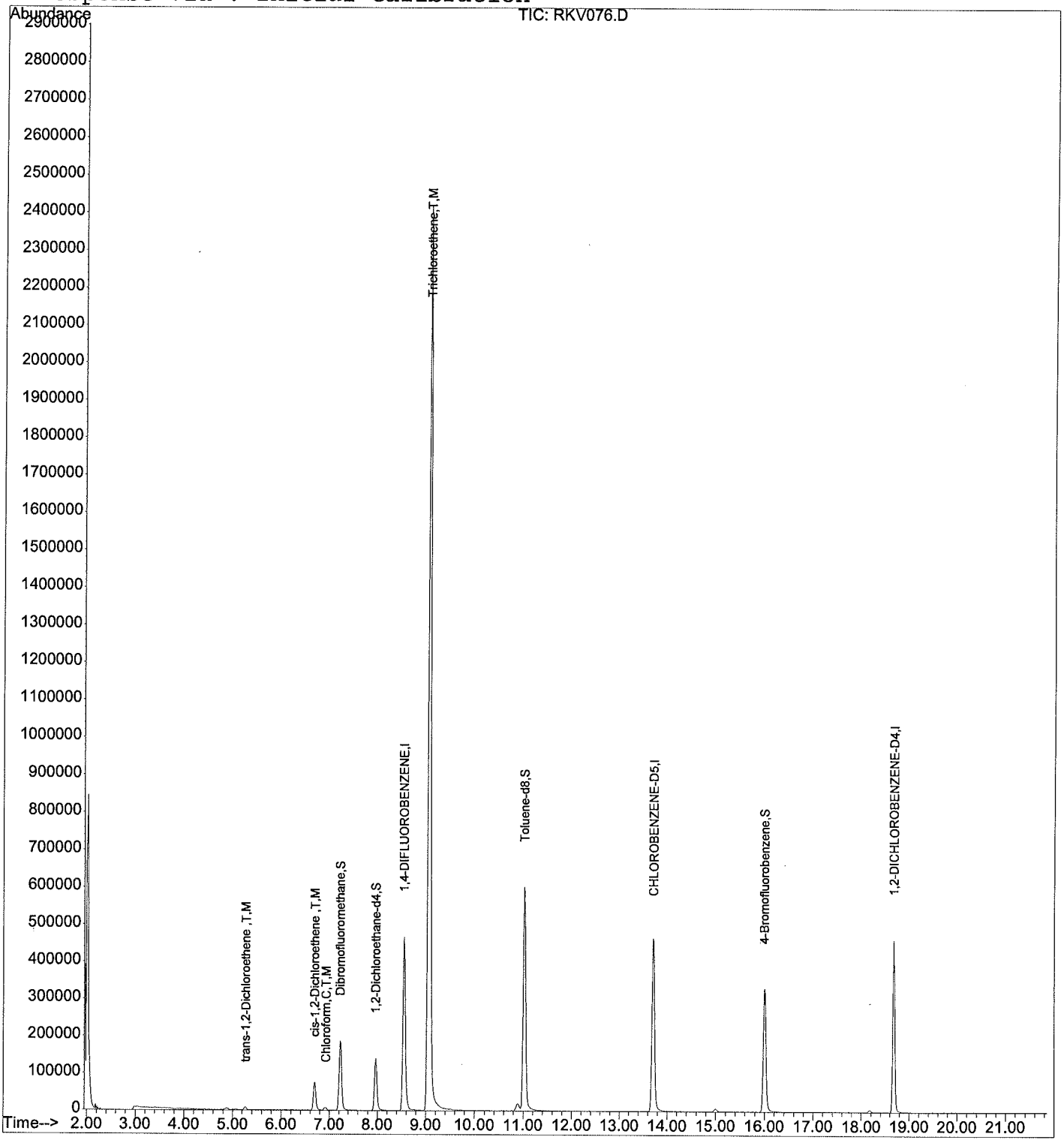
Quantitation Report

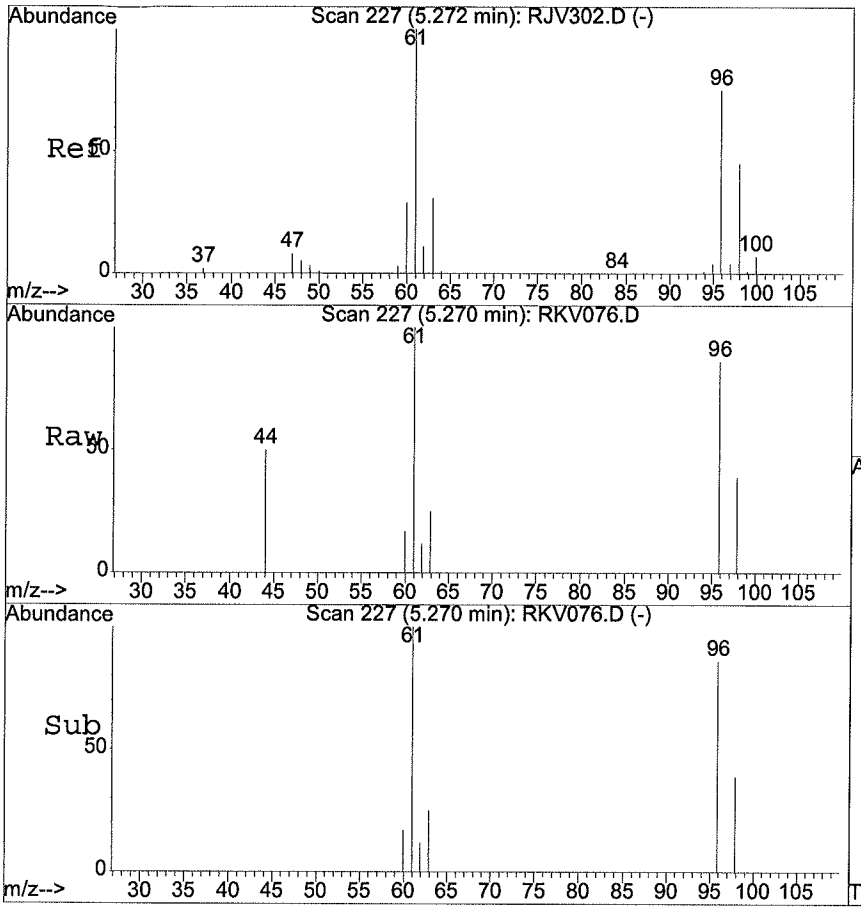
Data File : D:\HPCHEM\1\DATA\24K06\RKV076.D
Acq On : 6 Nov 2024 11:36 am
Sample : 24J168-06
Misc : 25mL
MS Integration Params: RTE.P
Quant Time: Nov 14 11:26 2024

Vial: 9
Operator: DNguye/CLing
Inst : 01
Multiplr: 1.00

Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

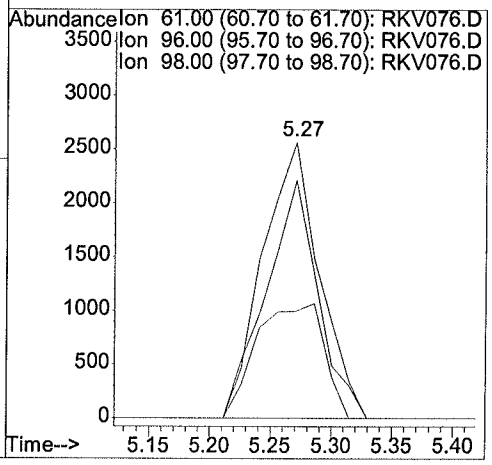


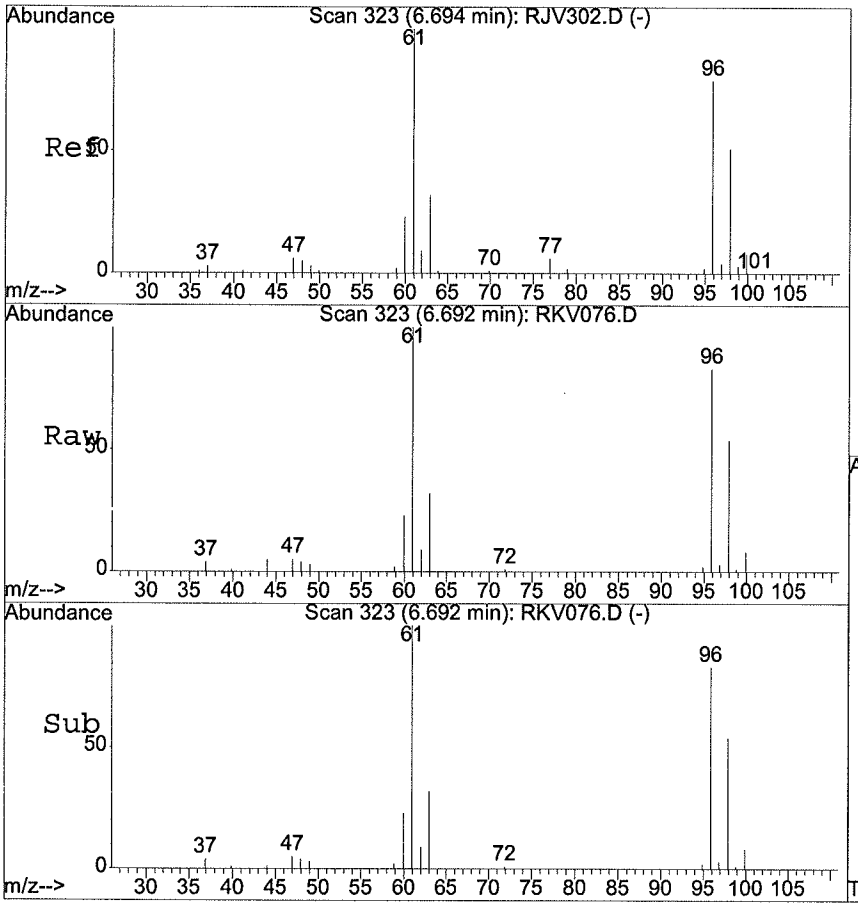


#22
trans-1,2-Dichloroethene
Concen: 0.25 ug/l
RT: 5.27 min Scan# 227
Delta R.T. -0.00 min
Lab File: RKV076.D
Acq: 6 Nov 2024 11:36 am

Tgt Ion: 61 Resp: 8248

Ion	Ratio	Lower	Upper
61	100		
96	79.7	41.8	101.8
98	49.4	15.3	75.3

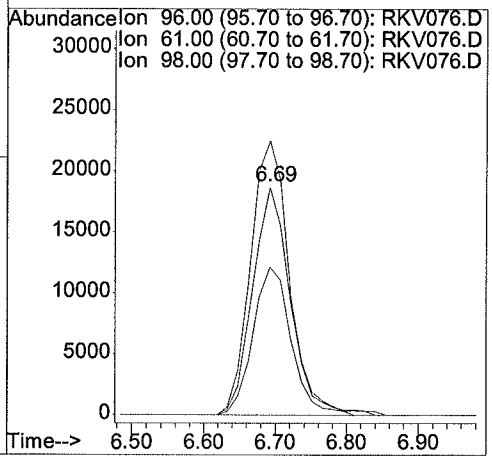


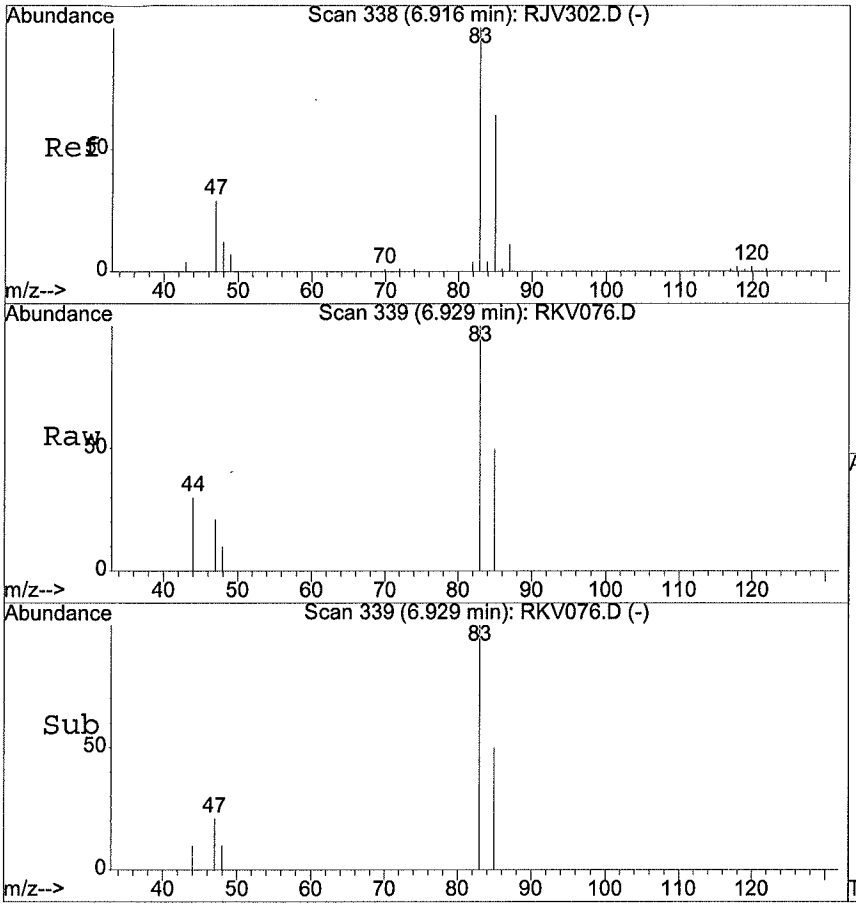


#30
cis-1,2-Dichloroethene
Concen: 2.92 ug/l
RT: 6.69 min Scan# 323
Delta R.T. -0.00 min
Lab File: RKV076.D
Acq: 6 Nov 2024 11:36 am

Tgt Ion: 96 Resp: 68469

Ion	Ratio	Lower	Upper
96	100		
61	124.6	118.2	178.2
98	65.4	35.6	95.6

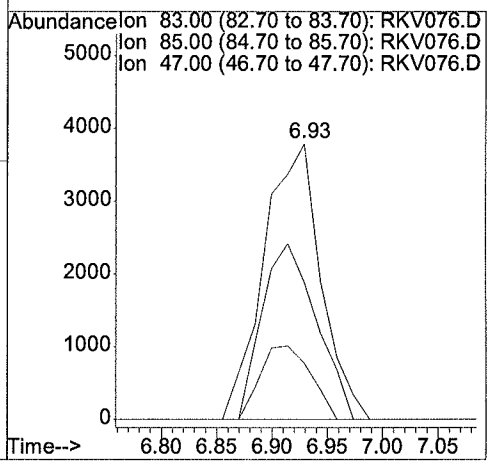


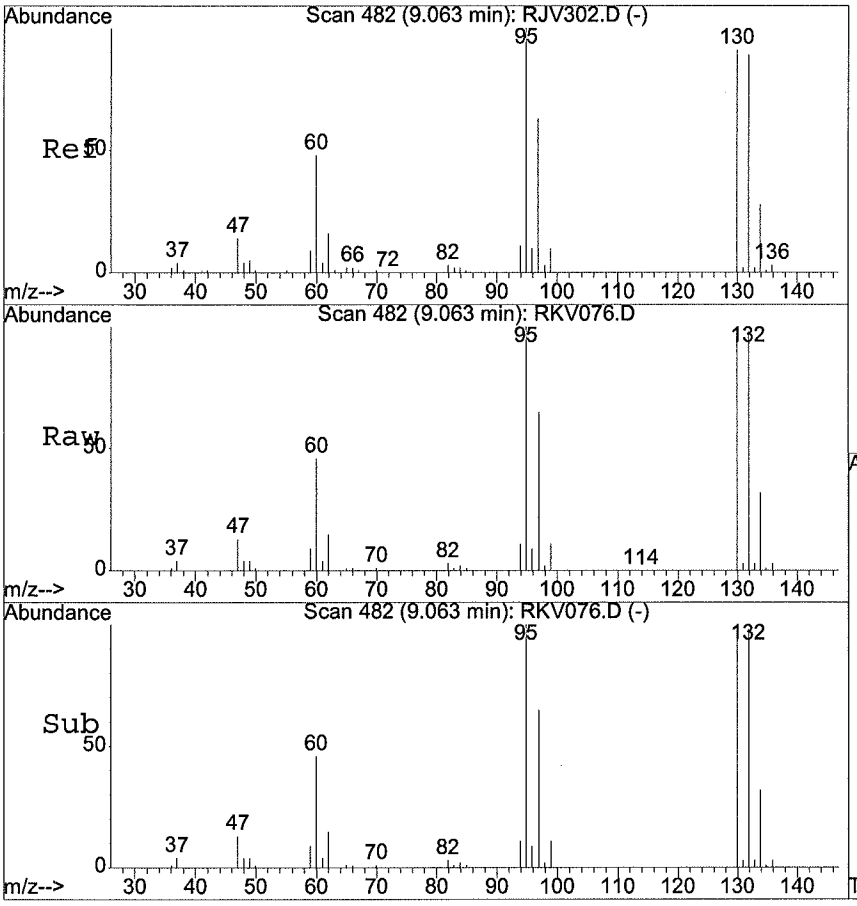


#31
Chloroform
Concen: 0.35 ug/l
RT: 6.93 min Scan# 339
Delta R.T. 0.01 min
Lab File: RKV076.D
Acq: 6 Nov 2024 11:36 am

Tgt Ion: 83 Resp: 13599

Ion	Ratio	Lower	Upper
83	100		
85	60.9	37.8	97.8
47	23.7	0.0	59.1

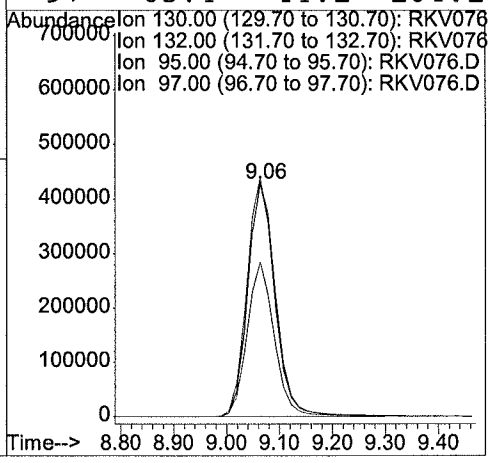




#44
Trichloroethene
Concen: 70.97 ug/l
RT: 9.06 min Scan# 482
Delta R.T. 0.00 min
Lab File: RKV076.D
Acq: 6 Nov 2024 11:36 am

Tgt Ion:130 Resp: 1565613

Ion	Ratio	Lower	Upper
130	100		
132	101.5	67.4	127.4
95	102.7	81.2	141.2
97	65.4	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 10:50
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/04/24 22:49
Sample ID	: T1AMF-MW042_OCT24	Date Analyzed:	11/04/24 22:49
Lab Samp ID:	24J168-07	Dilution Factor:	1
Lab File ID:	RKV038	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	1.8	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	57	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.4	10.0	104	81-118
4-Bromofluorobenzene	9.87	10.0	99	85-114
Toluene-d8	10.8	10.0	108	89-112
Dibromofluoromethane	10.9	10.0	109	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV038.D Vial: 13
Acq On : 4 Nov 2024 10:49 pm Operator: DNguye/CLingl
Sample : 24J168-07 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

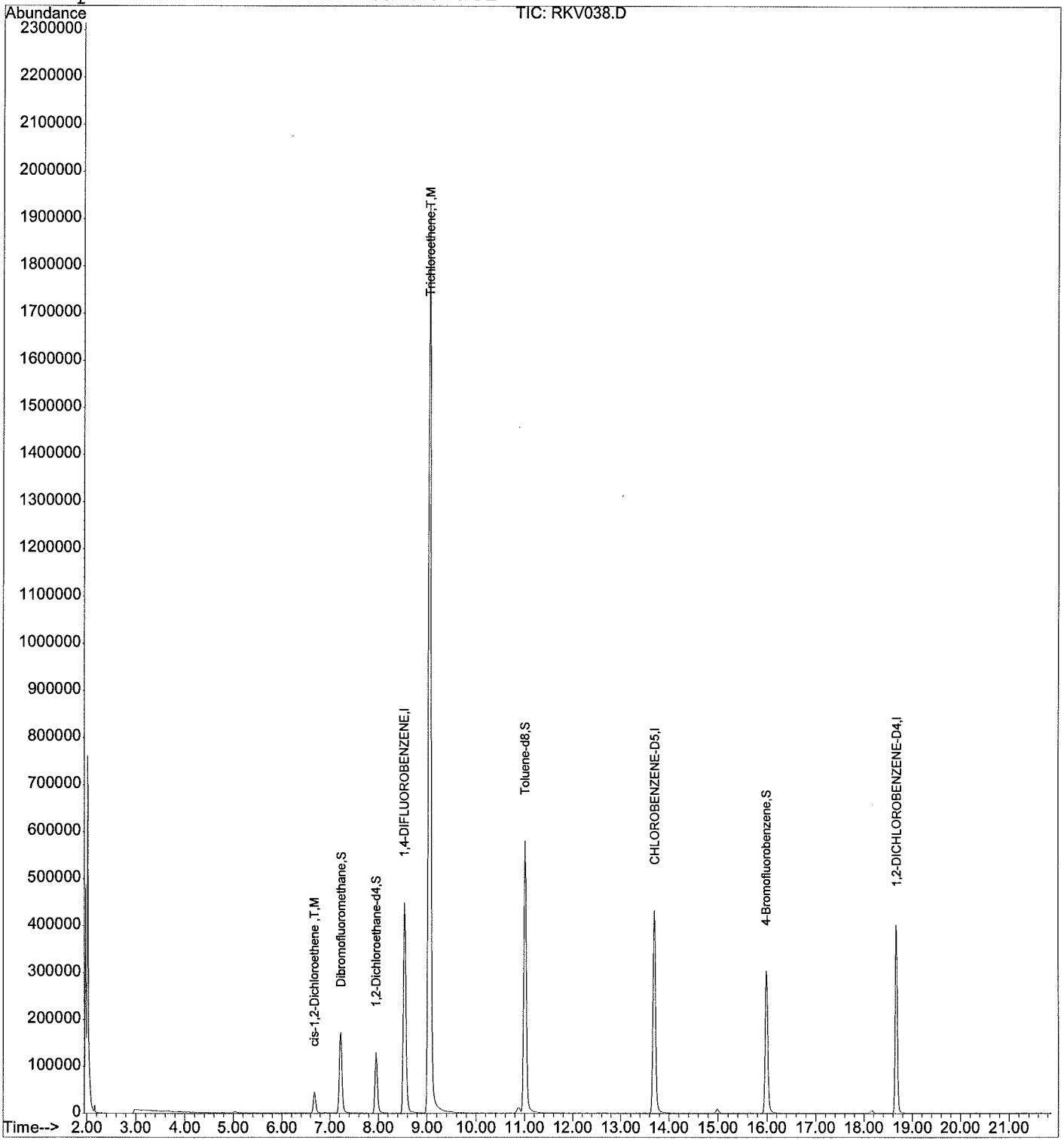
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.53	114	720142	10.00	ug/l	-0.01
53) CHLOROBENZENE-D5	13.70	117	540911	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	222342	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	205720	10.94	ug/l	0.00
Spiked Amount 10.000			Recovery = 109.40%			
41) 1,2-Dichloroethane-d4	7.95	65	173081	10.45	ug/l	-0.02
Spiked Amount 10.000			Recovery = 104.50%			
54) Toluene-d8	11.00	98	805935	10.83	ug/l	-0.01
Spiked Amount 10.000			Recovery = 108.30%			
76) 4-Bromofluorobenzene	15.98	95	259791	9.87	ug/l	0.00
Spiked Amount 10.000			Recovery = 98.70%			
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	6.68	96	42560	1.84	ug/l #	81
44) Trichloroethene	9.05	130	1248728	57.26	ug/l	93

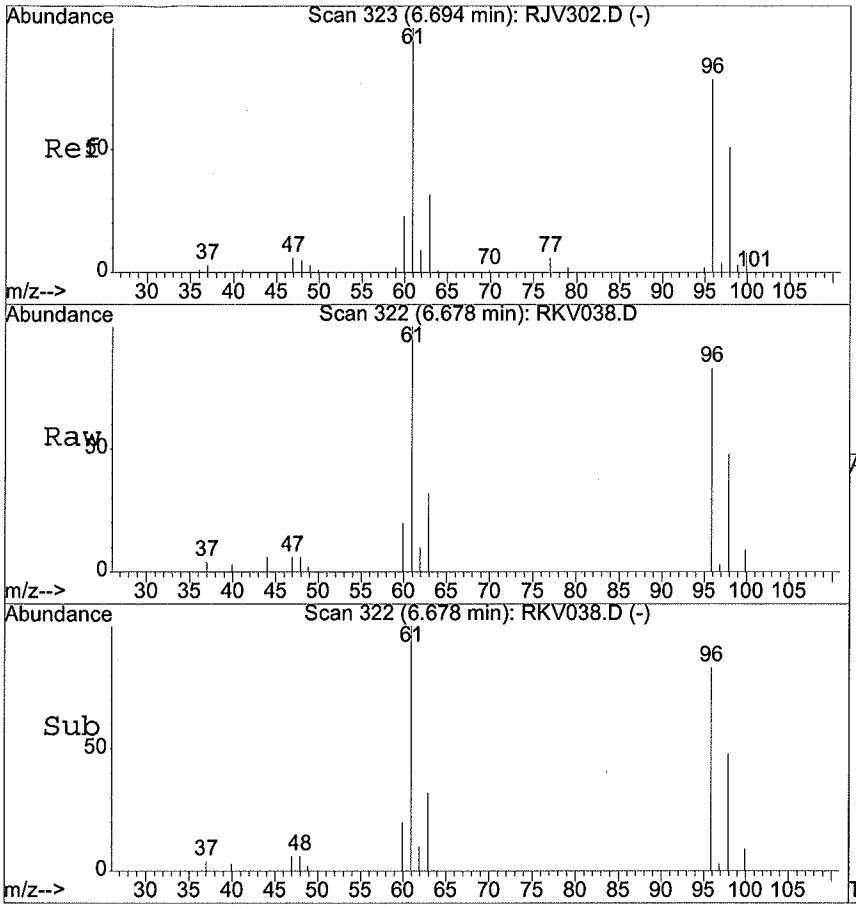
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RKV038.D VO01J12.M Fri Nov 08 19:13:30 2024 Page 1

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV038.D Vial: 13
Acq On : 4 Nov 2024 10:49 pm Operator: DNguye/CLing
Sample : 24J168-07 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:13 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

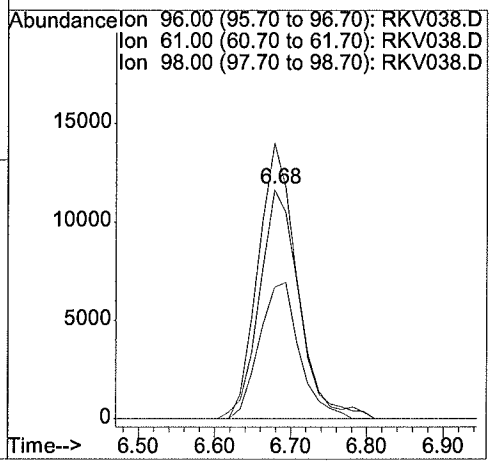


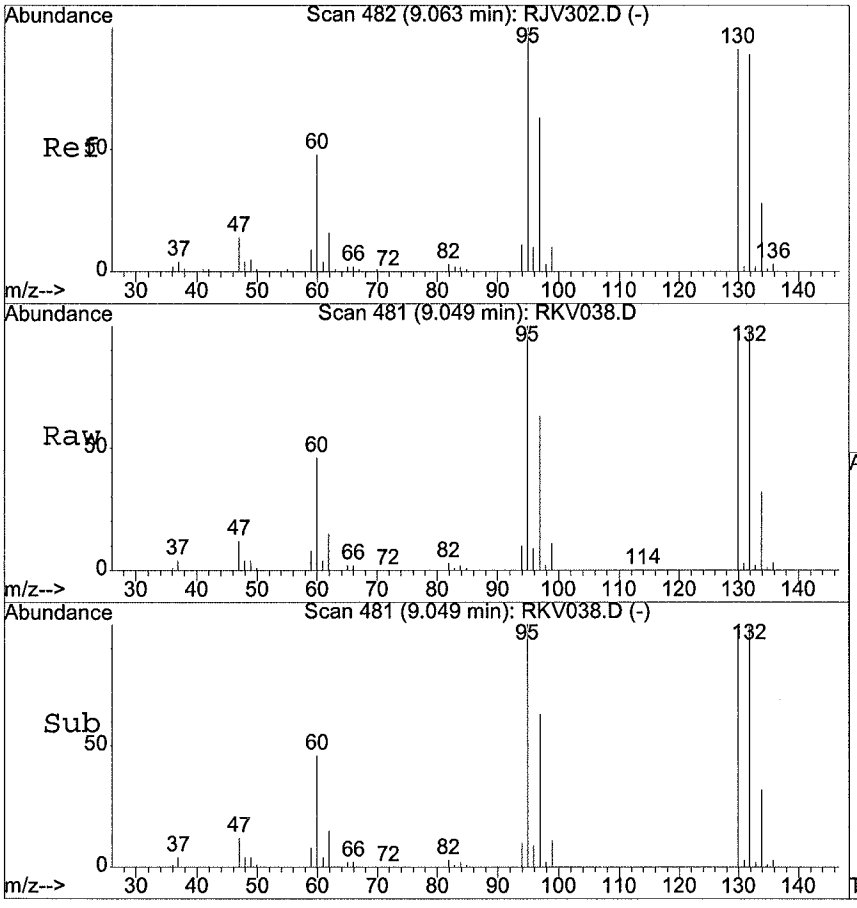


#30
cis-1,2-Dichloroethene
Concen: 1.84 ug/l
RT: 6.68 min Scan# 322
Delta R.T. -0.02 min
Lab File: RKV038.D
Acq: 4 Nov 2024 10:49 pm

Tgt Ion: 96 Resp: 42560

Ion	Ratio	Lower	Upper
96	100		
61	117.2	118.2	178.2#
98	59.8	35.6	95.6

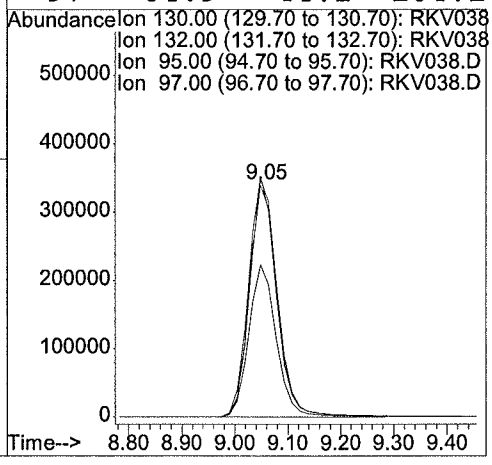




#44
Trichloroethene
Concen: 57.26 ug/l
RT: 9.05 min Scan# 481
Delta R.T. -0.01 min
Lab File: RKV038.D
Acq: 4 Nov 2024 10:49 pm

Tgt Ion:130 Resp: 1248728

Ion	Ratio	Lower	Upper
130	100		
132	101.5	67.4	127.4
95	102.7	81.2	141.2
97	64.9	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 11:34
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/04/24 23:17 # 11/06/24 14:34
Sample ID	: T1AMF-MW046_OCT24	Date Analyzed:	11/04/24 23:17 # 11/06/24 14:34
Lab Samp ID:	J168-08 #J168-08I	Dilution Factor:	1 # 5
Lab File ID:	RKV039 #RKV082	Matrix:	WATER
Ext Btch ID:	VO01K02 #VO01K04	% Moisture:	NA
Calib. Ref.:	RJV302 #RJV302	Instrument ID:	01 # 01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	4.0	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.18J	1.0	0.10	0.20
# Trichloroethene	160	5.0	0.50	1.0
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.8	10.0	108	81-118
4-Bromofluorobenzene	10.0	10.0	100	85-114
Toluene-d8	10.7	10.0	107	89-112
Dibromofluoromethane	11.0	10.0	110	80-119
# 1,2-Dichloroethane-d4	57.2	50.0	114	81-118
# 4-Bromofluorobenzene	48.0	50.0	96	85-114
# Toluene-d8	53.1	50.0	106	89-112
# Dibromofluoromethane	56.2	50.0	112	80-119

Result(s) associated as marked on the header

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: DNguye	Analyzed by	: DNguye
# Sample Amount	: 5.0ml	Final Volume	: 25ml
# Prepared by	: DNguye	Analyzed by	: DNguye

Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 11:34
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/04/24 23:17
Sample ID	: T1AMF-MW046_OCT24	Date Analyzed:	11/04/24 23:17
Lab Samp ID:	24J168-08	Dilution Factor:	1
Lab File ID:	RKV039	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	4.0	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.18J	1.0	0.10	0.20
Trichloroethene	160E	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.8	10.0	108	81-118
4-Bromofluorobenzene	10.0	10.0	100	85-114
Toluene-d8	10.7	10.0	107	89-112
Dibromofluoromethane	11.0	10.0	110	80-119

Notes:

Sample Amount	: 25ml	Final Volume :	25ml
Prepared by	: DNguye	Analyzed by :	DNguye

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV039.D Vial: 14
Acq On : 4 Nov 2024 11:17 pm Operator: DNguye/CLingl
Sample : 24J168-08 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	664934	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	510258	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	206849	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.21	111	190932	10.99	ug/l	-0.01
Spiked Amount 10.000			Recovery = 109.90%			
41) 1,2-Dichloroethane-d4	7.95	65	165223	10.80	ug/l	-0.01
Spiked Amount 10.000			Recovery = 108.00%			
54) Toluene-d8	11.00	98	747399	10.65	ug/l	-0.01
Spiked Amount 10.000			Recovery = 106.50%			
76) 4-Bromofluorobenzene	15.98	95	245859	10.04	ug/l	0.00
Spiked Amount 10.000			Recovery = 100.40%			
Target Compounds						Qvalue
22) trans-1,2-Dichloroethene	5.24	61	5411	0.18	ug/l	88
30) cis-1,2-Dichloroethene	6.68	96	86294	4.03	ug/l	87
31) Chloroform	6.90	83	34655	0.97	ug/l	91
44) Trichloroethene	9.05	130	3293801	163.58	ug/l	92

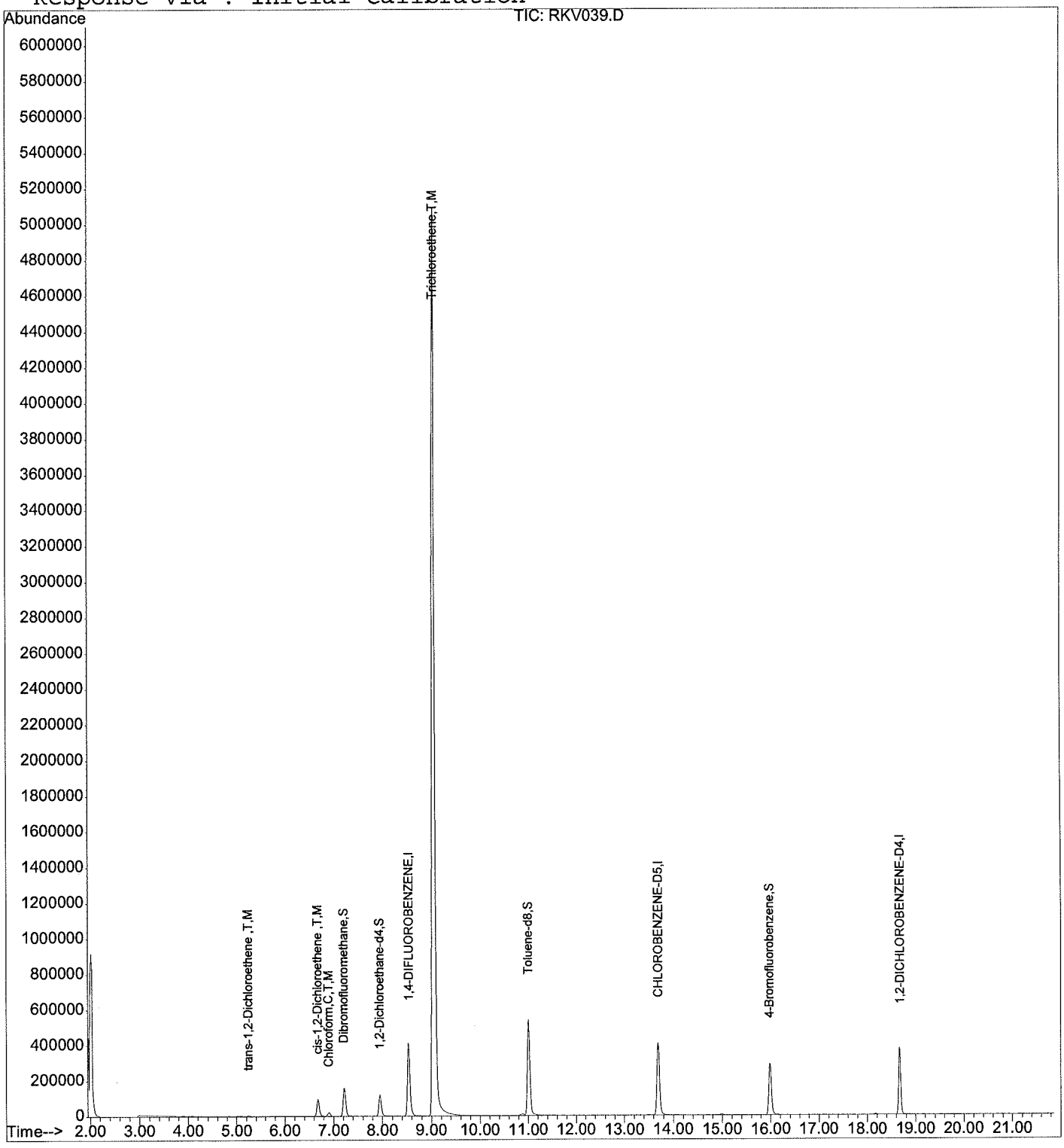
(#) = qualifier out of range (m) = manual integration

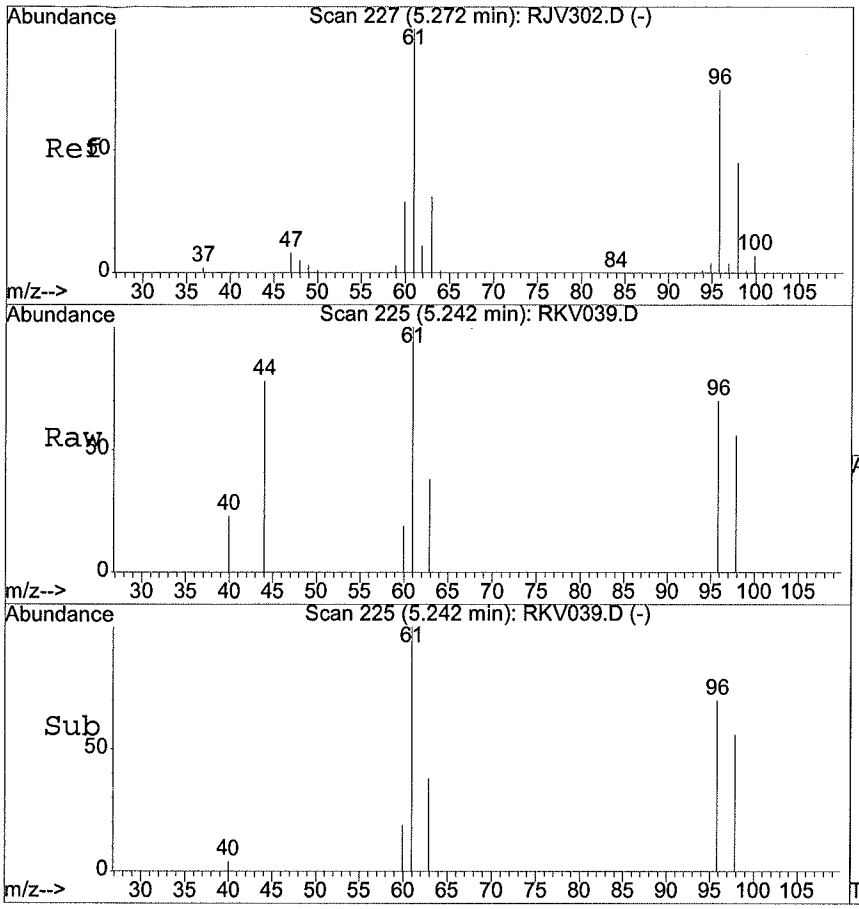
Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV039.D
Acq On : 4 Nov 2024 11:17 pm
Sample : 24J168-08
Misc : 25mL
MS Integration Params: RTE.P
Quant Time: Nov 8 19:13 2024

Vial: 14
Operator: DNguye/CLing
Inst : 01
Multiplr: 1.00
Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

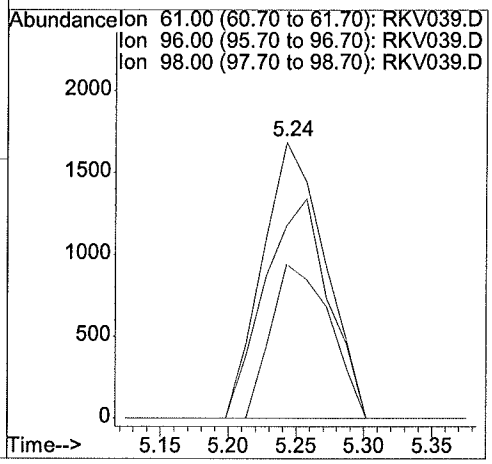


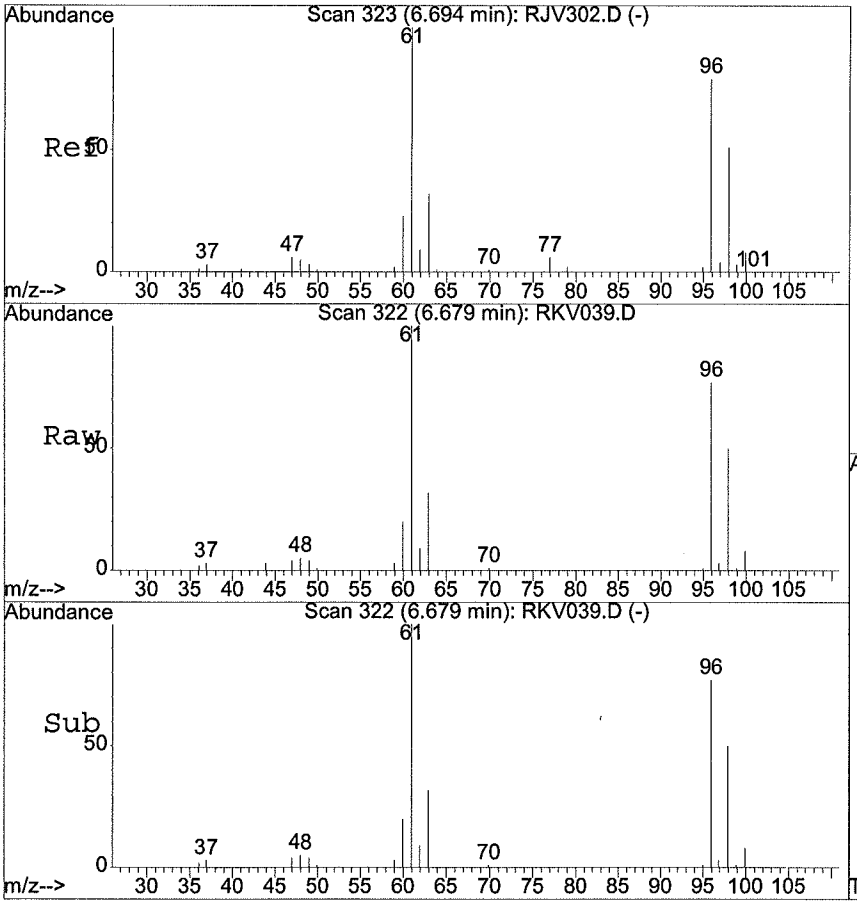


#22
trans-1,2-Dichloroethene
Concen: 0.18 ug/l
RT: 5.24 min Scan# 225
Delta R.T. -0.03 min
Lab File: RKV039.D
Acq: 4 Nov 2024 11:17 pm

Tgt Ion: 61 Resp: 5411

Ion	Ratio	Lower	Upper
61	100		
96	81.5	41.8	101.8
98	52.8	15.3	75.3

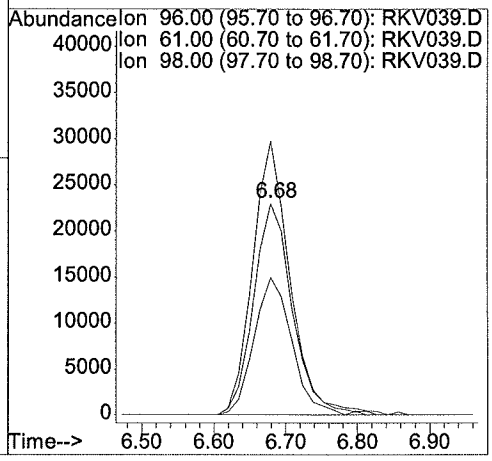


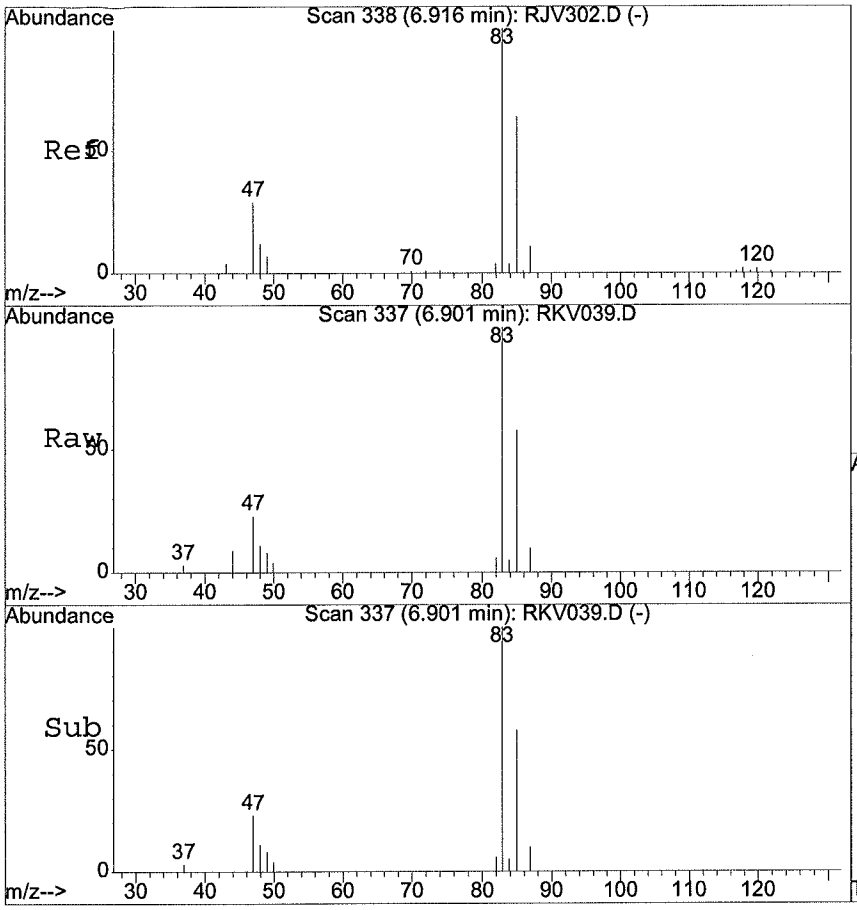


#30
cis-1,2-Dichloroethene
Concen: 4.03 ug/l
RT: 6.68 min Scan# 322
Delta R.T. -0.02 min
Lab File: RKV039.D
Acq: 4 Nov 2024 11:17 pm

Tgt Ion: 96 Resp: 86294

Ion	Ratio	Lower	Upper
96	100		
61	125.3	118.2	178.2
98	63.7	35.6	95.6

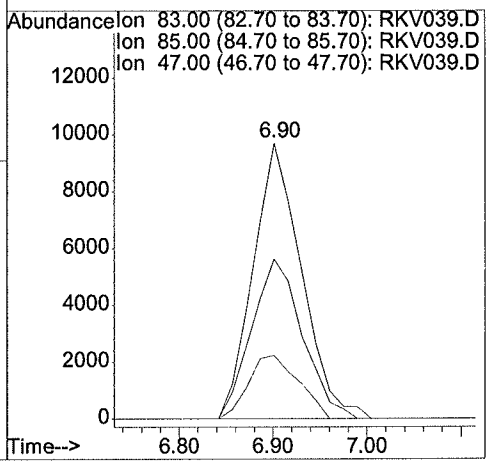


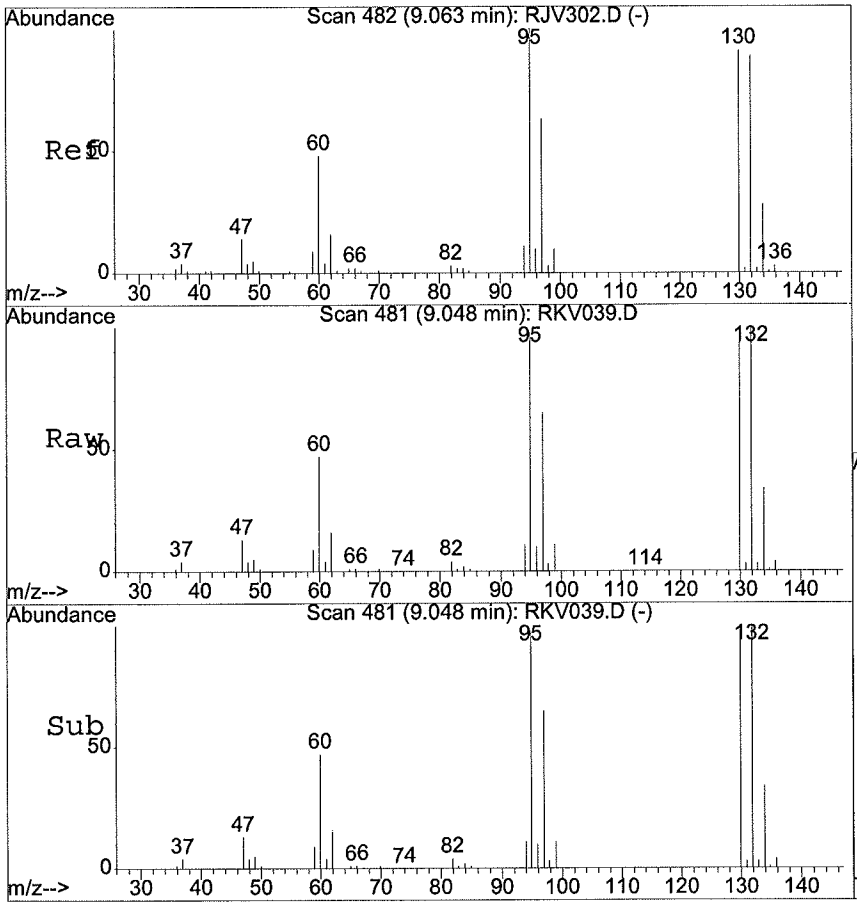


#31
Chloroform
Concen: 0.97 ug/l
RT: 6.90 min Scan# 337
Delta R.T. -0.02 min
Lab File: RKV039.D
Acq: 4 Nov 2024 11:17 pm

Tgt Ion: 83 Resp: 34655

Ion	Ratio	Lower	Upper
83	100		
85	60.9	37.8	97.8
47	23.8	0.0	59.1

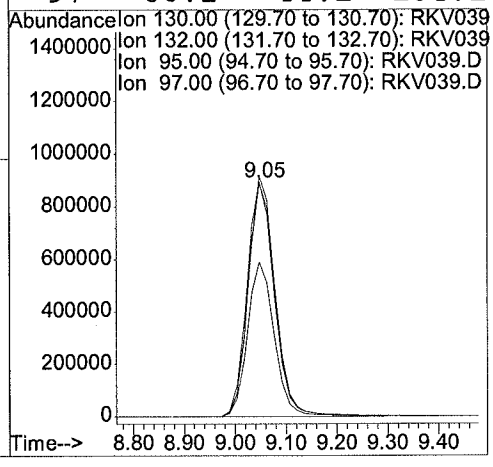




#44
Trichloroethene
Concen: 163.58 ug/l
RT: 9.05 min Scan# 481
Delta R.T. -0.01 min
Lab File: RKV039.D
Acq: 4 Nov 2024 11:17 pm

Tgt Ion:130 Resp: 3293801

Ion	Ratio	Lower	Upper
130	100		
132	102.7	67.4	127.4
95	102.0	81.2	141.2
97	66.2	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 11:34
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 14:34
Sample ID	: T1AMF-MW046_OCT24	Date Analyzed:	11/06/24 14:34
Lab Samp ID:	24J168-08I	Dilution Factor:	5
Lab File ID:	RKV082	Matrix:	WATER
Ext Btch ID:	V001K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	5.0	0.50	1.0
1,4-Dichlorobenzene	ND	5.0	0.50	1.0
Benzene	ND	5.0	0.50	1.0
cis-1,2-Dichloroethene	3.6J	5.0	0.50	1.0
Ethylbenzene	ND	5.0	0.50	1.0
m,p-Xylene	ND	10	1.0	2.5
o-Xylene	ND	5.0	0.50	1.0
Toluene	ND	5.0	0.50	1.0
Trans-1,2-Dichloroethene	ND	5.0	0.50	1.0
Trichloroethene	160	5.0	0.50	1.0
Vinyl Chloride	ND	5.0	0.55	1.5

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	57.2	50.0	114	81-118
4-Bromofluorobenzene	48.0	50.0	96	85-114
Toluene-d8	53.1	50.0	106	89-112
Dibromofluoromethane	56.2	50.0	112	80-119

Notes:
Sample Amount : 5.0ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV082.D Vial: 15
Acq On : 6 Nov 2024 2:34 pm Operator: DNguye/CLingl
Sample : 24J168-08I 5X Inst : 01
Misc : 5mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 11:30 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

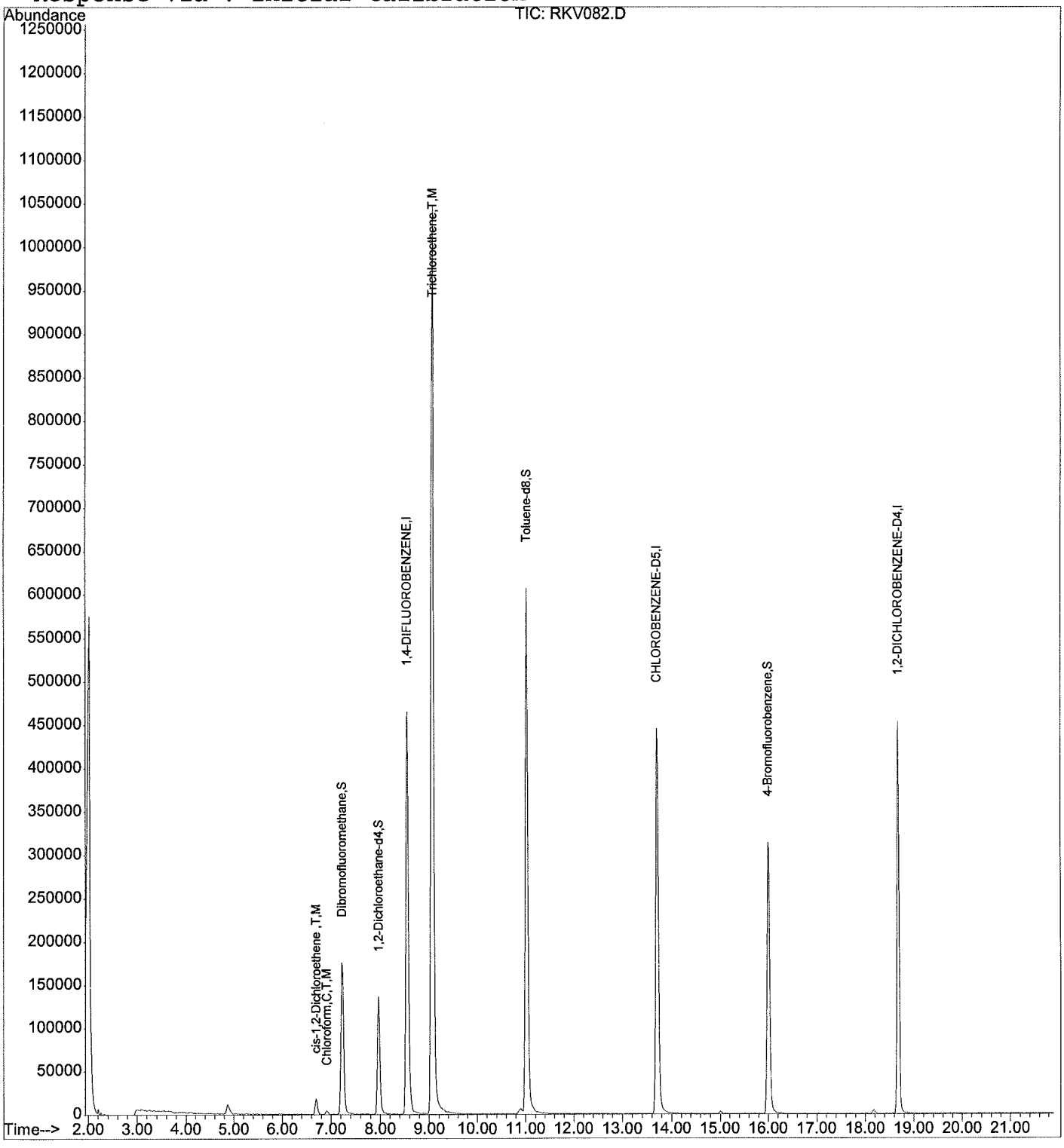
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.55	114	710128	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	546313	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	233676	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	208423	11.24	ug/l	0.00
Spiked Amount 10.000			Recovery =	112.40%		
41) 1,2-Dichloroethane-d4	7.97	65	186818	11.43	ug/l	0.00
Spiked Amount 10.000			Recovery =	114.30%		
54) Toluene-d8	11.02	98	797465	10.61	ug/l	0.00
Spiked Amount 10.000			Recovery =	106.10%		
76) 4-Bromofluorobenzene	15.99	95	265709	9.60	ug/l	0.02
Spiked Amount 10.000			Recovery =	96.00%		
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	6.69	96	16565	0.72	ug/l	85
31) Chloroform	6.92	83	6489	0.17	ug/l	93
44) Trichloroethene	9.06	130	670137	31.16	ug/l	94

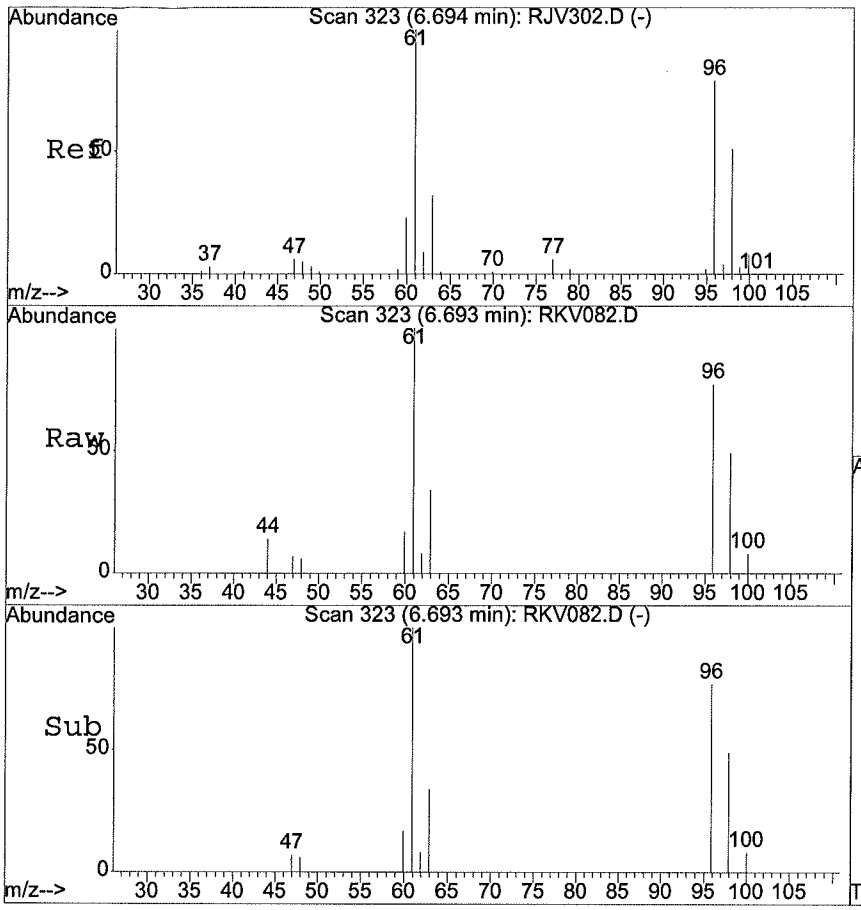
(#) = qualifier out of range (m) = manual integration
RKV082.D VO01J12.M Thu Nov 14 11:30:17 2024 Page 1

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV082.D Vial: 15
Acq On : 6 Nov 2024 2:34 pm Operator: DNguye/CLing
Sample : 24J168-08I 5X Inst : 01
Misc : 5mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 11:30 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

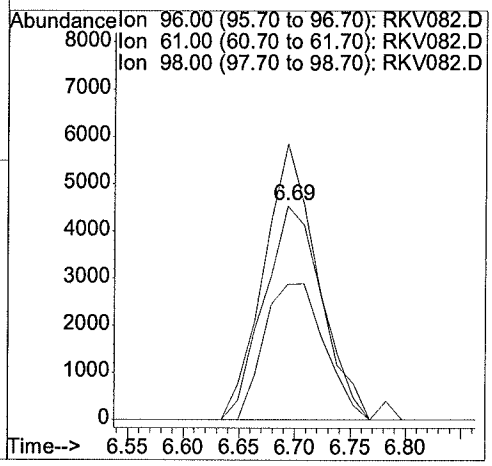


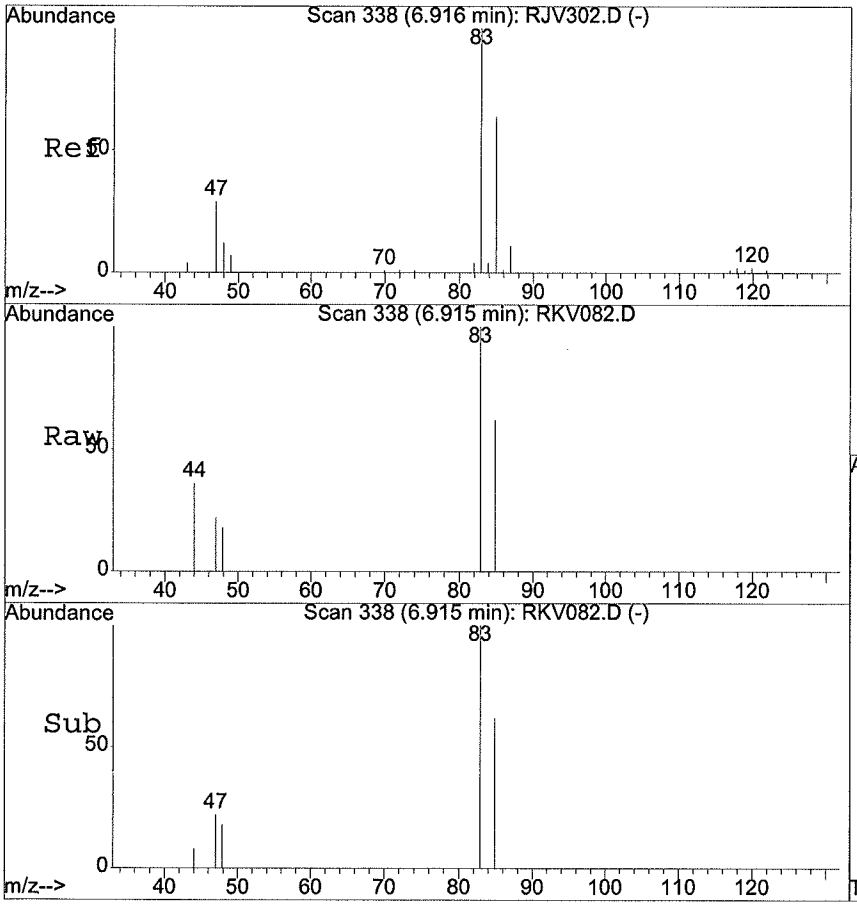


#30
cis-1,2-Dichloroethene
Concen: 0.72 ug/l
RT: 6.69 min Scan# 323
Delta R.T. -0.00 min
Lab File: RKV082.D
Acq: 6 Nov 2024 2:34 pm

Tgt Ion: 96 Resp: 16565

Ion	Ratio	Lower	Upper
96	100		
61	120.3	118.2	178.2
98	65.7	35.6	95.6

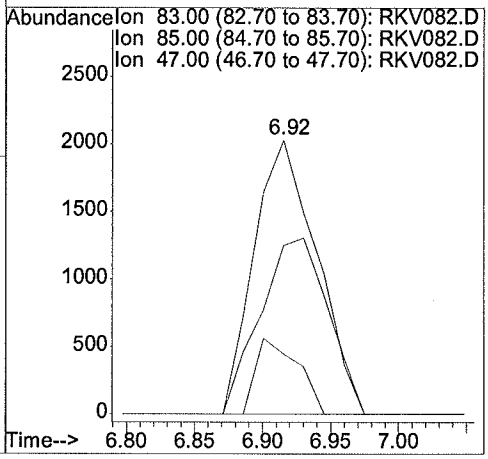


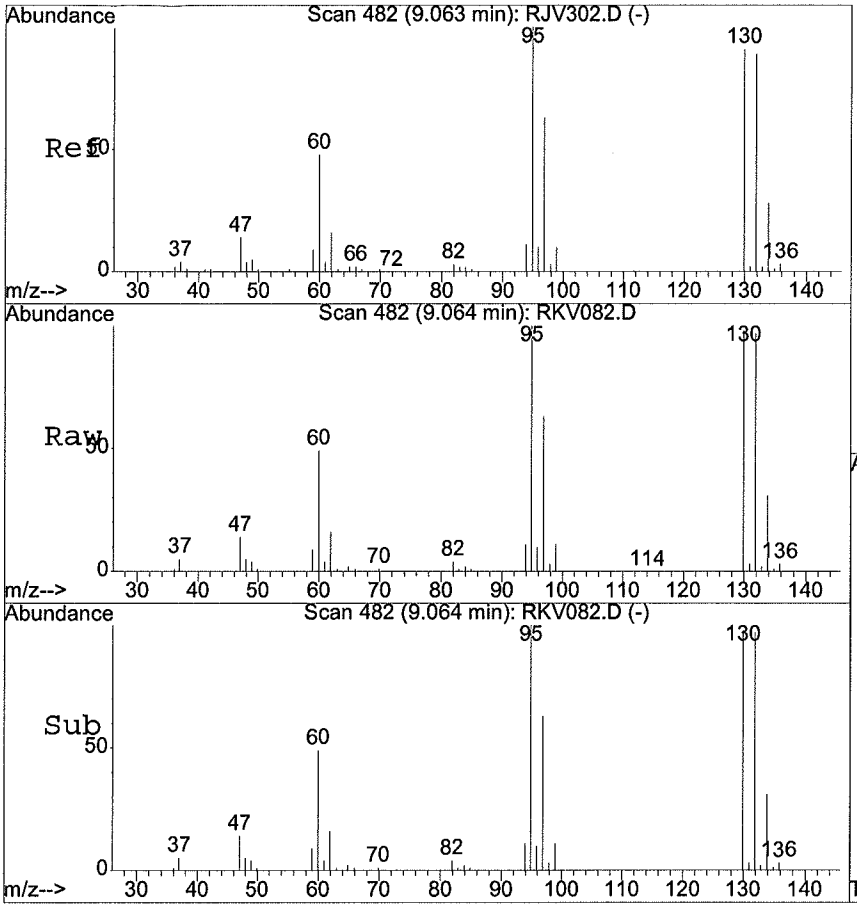


#31
Chloroform
Concen: 0.17 ug/l
RT: 6.92 min Scan# 338
Delta R.T. -0.00 min
Lab File: RKV082.D
Acq: 6 Nov 2024 2:34 pm

Tgt Ion: 83 Resp: 6489

Ion	Ratio	Lower	Upper
83	100		
85	69.6	37.8	97.8
47	18.6	0.0	59.1

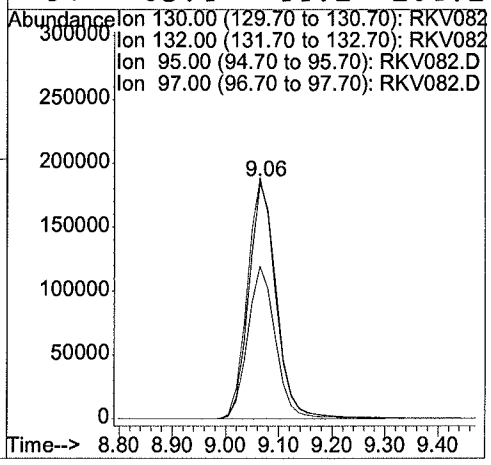




#44
Trichloroethene
Concen: 31.16 ug/l
RT: 9.06 min Scan# 482
Delta R.T. 0.00 min
Lab File: RKV082.D
Acq: 6 Nov 2024 2:34 pm

Tgt Ion:130 Resp: 670137

Ion	Ratio	Lower	Upper
130	100		
132	100.8	67.4	127.4
95	104.1	81.2	141.2
97	65.4	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 12:05
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/04/24 23:46
Sample ID	: T1AMF-MW056_OCT24	Date Analyzed:	11/04/24 23:46
Lab Samp ID:	24J168-09	Dilution Factor:	1
Lab File ID:	RKV040	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	7.9	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.3	10.0	103	81-118
4-Bromofluorobenzene	9.86	10.0	99	85-114
Toluene-d8	10.6	10.0	106	89-112
Dibromofluoromethane	10.7	10.0	107	80-119

Notes:

Sample Amount	: 25ml	Final Volume :	25ml
Prepared by	: DNguye	Analyzed by :	DNguye

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV040.D Vial: 15
Acq On : 4 Nov 2024 11:46 pm Operator: DNguye/CLingl
Sample : 24J168-09 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:14 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

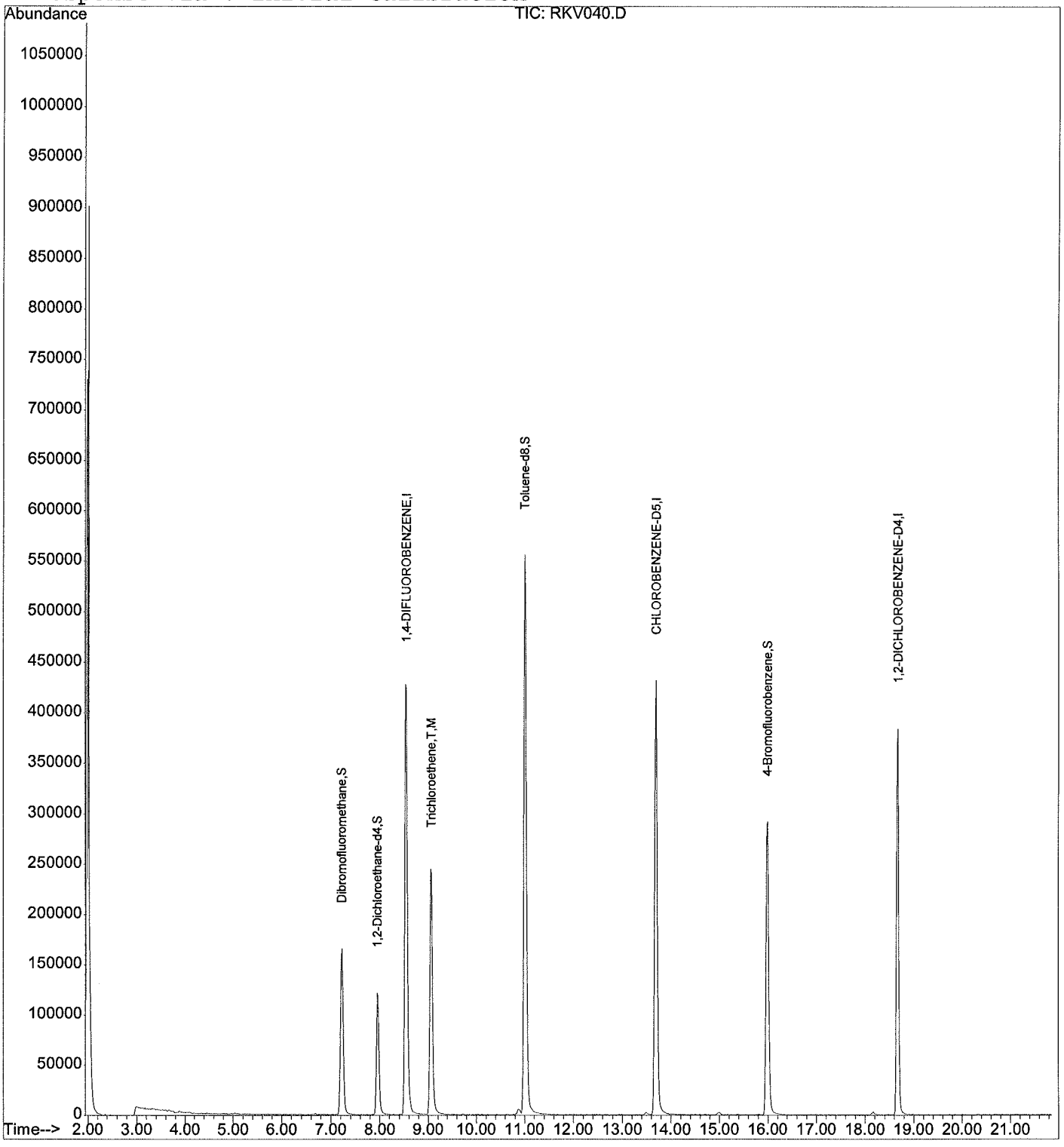
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.55	114	703913	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	520459	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	209110	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	196790	10.70	ug/l	0.00
Spiked Amount 10.000			Recovery =	107.00%		
41) 1,2-Dichloroethane-d4	7.95	65	167142	10.32	ug/l	-0.02
Spiked Amount 10.000			Recovery =	103.20%		
54) Toluene-d8	11.00	98	761887	10.64	ug/l	-0.01
Spiked Amount 10.000			Recovery =	106.40%		
76) 4-Bromofluorobenzene	15.99	95	244067	9.86	ug/l	0.02
Spiked Amount 10.000			Recovery =	98.60%		
Target Compounds						Qvalue
44) Trichloroethene	9.06	130	169250	7.94	ug/l	93

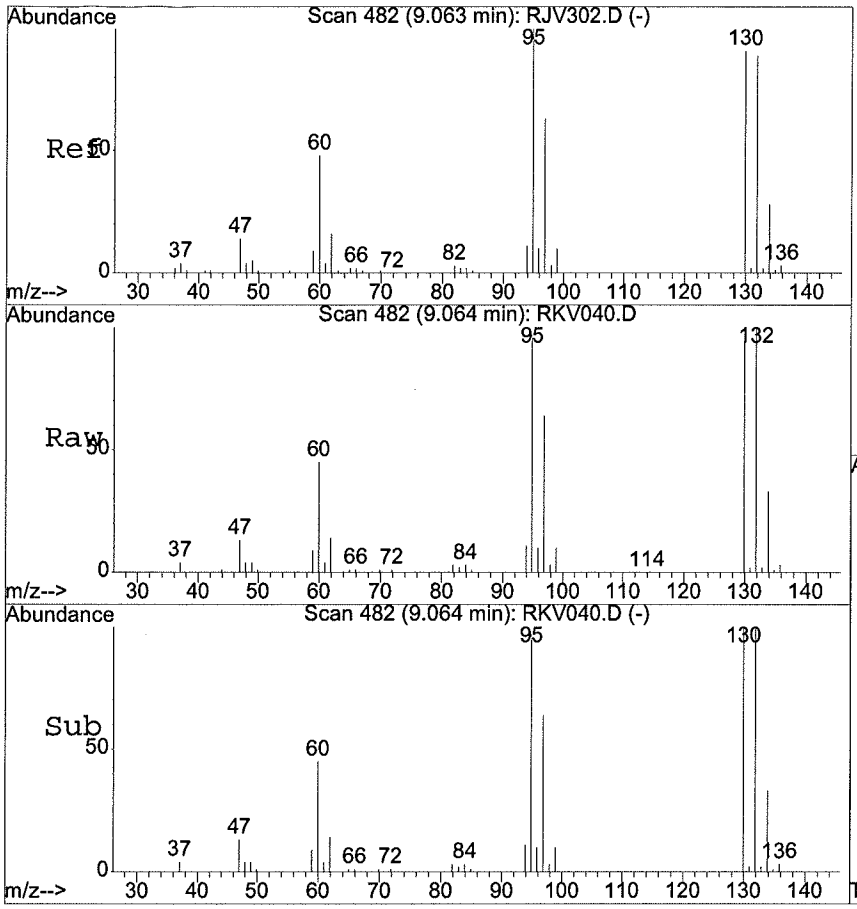
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV040.D Vial: 15
Acq On : 4 Nov 2024 11:46 pm Operator: DNguye/CLing
Sample : 24J168-09 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:14 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

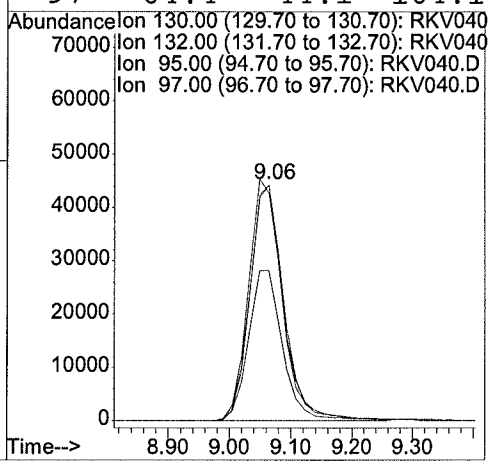




#44
Trichloroethene
Concen: 7.94 ug/l
RT: 9.06 min Scan# 482
Delta R.T. 0.00 min
Lab File: RKV040.D
Acq: 4 Nov 2024 11:46 pm

Tgt Ion:130 Resp: 169250

Ion	Ratio	Lower	Upper
130	100		
132	100.3	67.4	127.4
95	102.3	81.2	141.2
97	64.4	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 12:10
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 00:15
Sample ID	: T1AMF-MW056_OCT24_FD	Date Analyzed:	11/05/24 00:15
Lab Samp ID:	24J168-10	Dilution Factor:	1
Lab File ID:	RKV041	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	8.1	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.9	10.0	109	81-118
4-Bromofluorobenzene	9.77	10.0	98	85-114
Toluene-d8	10.6	10.0	106	89-112
Dibromofluoromethane	11.1	10.0	111	80-119

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: DNguye	Analyzed by	: DNguye

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV041.D Vial: 16
Acq On : 5 Nov 2024 12:15 am Operator: DNguye/CLingl
Sample : 24J168-10 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:14 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

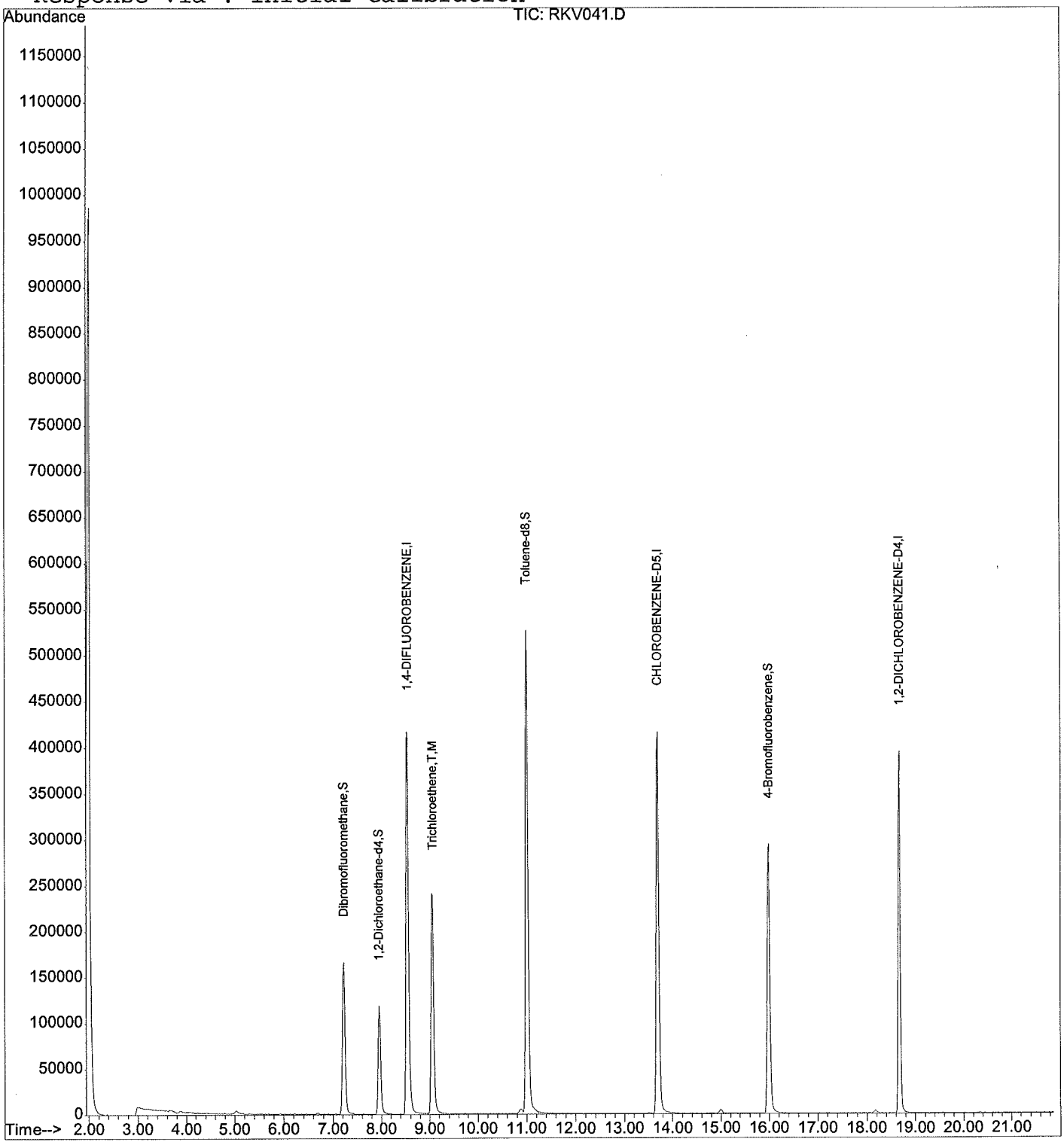
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	667929	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	506384	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	208484	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	194490	11.15	ug/l	0.00
Spiked Amount 10.000			Recovery = 111.50%			
41) 1,2-Dichloroethane-d4	7.95	65	167057	10.87	ug/l	-0.02
Spiked Amount 10.000			Recovery = 108.70%			
54) Toluene-d8	11.00	98	736566	10.58	ug/l	-0.01
Spiked Amount 10.000			Recovery = 105.80%			
76) 4-Bromofluorobenzene	15.99	95	241126	9.77	ug/l	0.02
Spiked Amount 10.000			Recovery = 97.70%			
Target Compounds						Qvalue
44) Trichloroethene	9.06	130	163602	8.09	ug/l	93

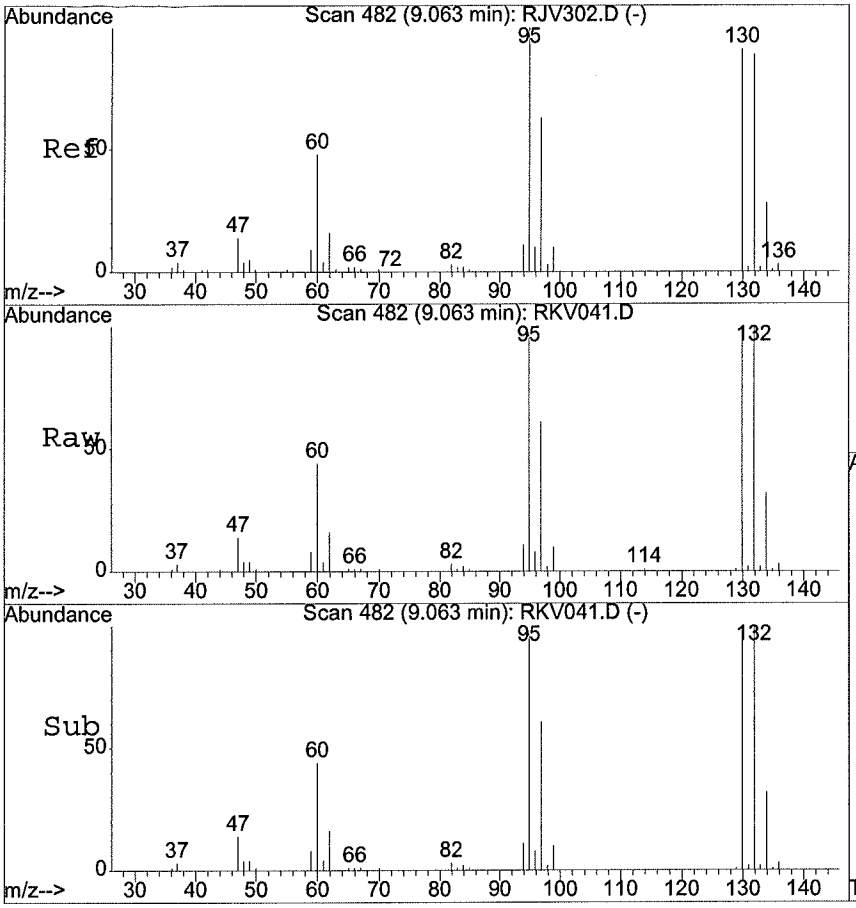
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV041.D Vial: 16
Acq On : 5 Nov 2024 12:15 am Operator: DNguye/CLing
Sample : 24J168-10 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:14 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

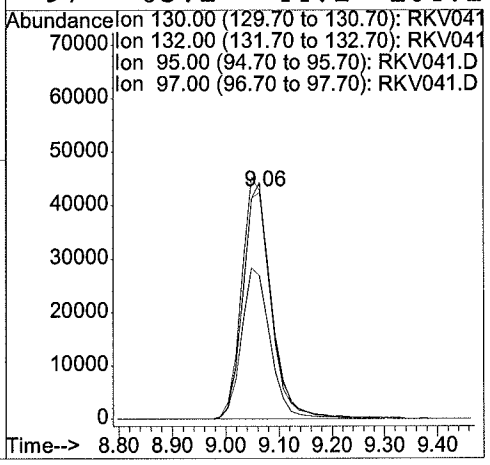




#44
Trichloroethene
Concen: 8.09 ug/l
RT: 9.06 min Scan# 482
Delta R.T. 0.00 min
Lab File: RKV041.D
Acq: 5 Nov 2024 12:15 am

Tgt Ion:130 Resp: 163602

Ion	Ratio	Lower	Upper
130	100		
132	100.9	67.4	127.4
95	103.6	81.2	141.2
97	65.1	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 12:31
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 00:43
Sample ID	: T1AMF-MW049_OCT24	Date Analyzed:	11/05/24 00:43
Lab Samp ID:	24J168-11	Dilution Factor:	1
Lab File ID:	RKV042	Matrix:	WATER
Ext Btch ID:	V001K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	1.6	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	89	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.7	10.0	107	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	10.7	10.0	107	89-112
Dibromofluoromethane	10.9	10.0	109	80-119

Notes:

Sample Amount	: 25ml	Final Volume :	25ml
Prepared by	: DNguye	Analyzed by :	DNguye

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV042.D Vial: 17
Acq On : 5 Nov 2024 12:43 am Operator: DNguye/CLingl
Sample : 24J168-11 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:14 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

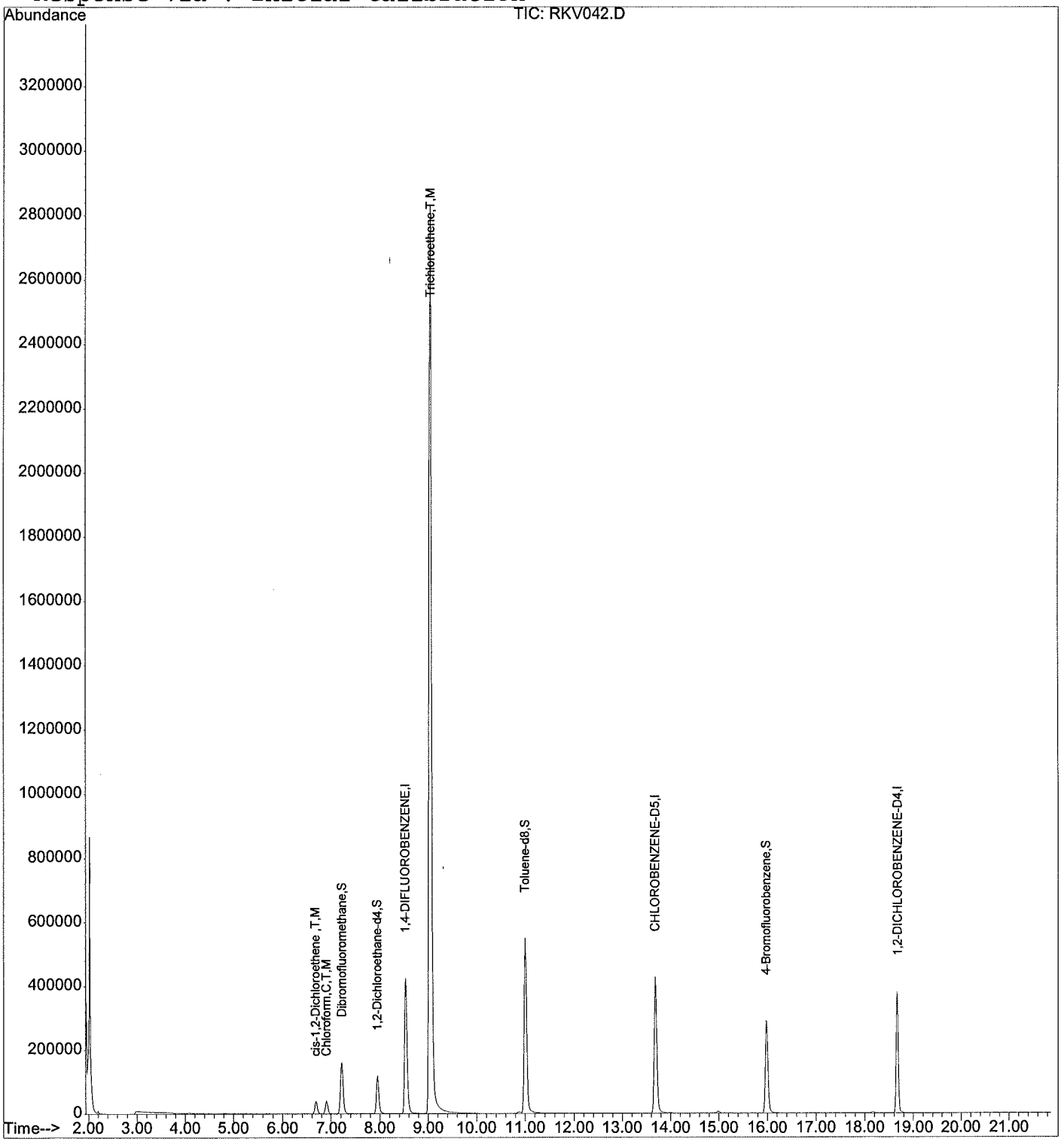
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.53	114	675022	10.00	ug/l	-0.01
53) CHLOROBENZENE-D5	13.68	117	509710	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	18.67	152	201334	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	192552	10.92	ug/l	0.00
Spiked Amount 10.000			Recovery =	109.20%		
41) 1,2-Dichloroethane-d4	7.95	65	165422	10.65	ug/l	-0.02
Spiked Amount 10.000			Recovery =	106.50%		
54) Toluene-d8	11.00	98	752563	10.74	ug/l	-0.01
Spiked Amount 10.000			Recovery =	107.40%		
76) 4-Bromofluorobenzene	15.98	95	241157	10.12	ug/l	0.00
Spiked Amount 10.000			Recovery =	101.20%		
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	6.68	96	35502	1.63	ug/l	87
31) Chloroform	6.90	83	63219	1.75	ug/l	92
44) Trichloroethene	9.05	130	1829319	89.49	ug/l	93

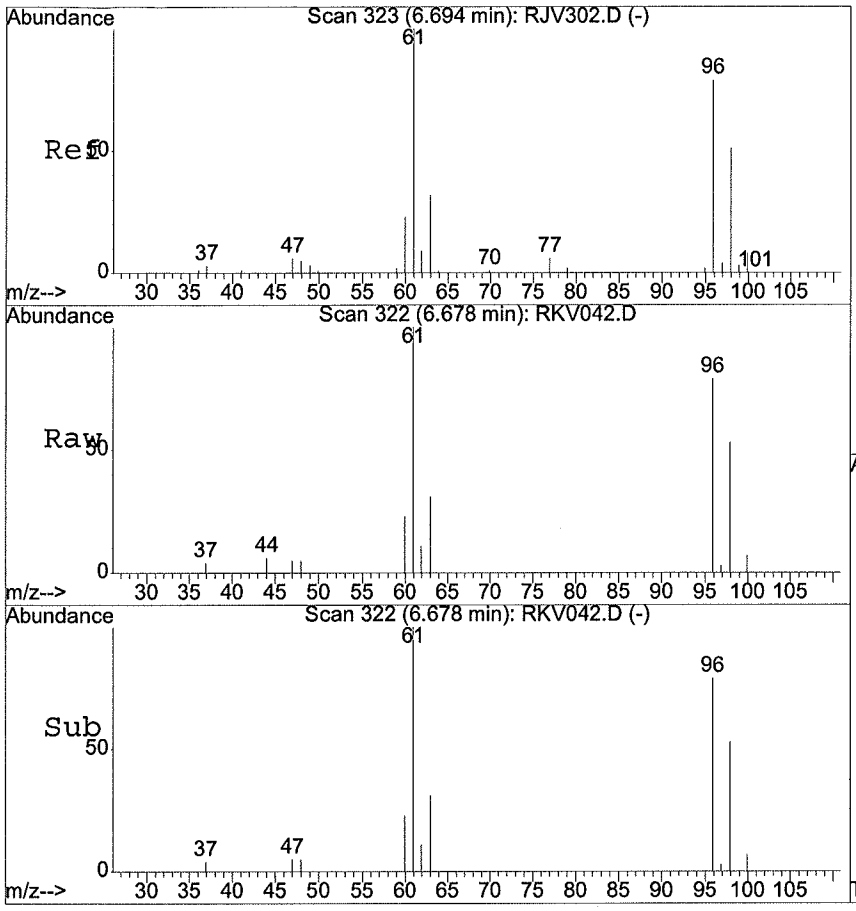
(#) = qualifier out of range (m) = manual integration
RKV042.D VO01J12.M Fri Nov 08 19:15:02 2024 Page 1

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV042.D Vial: 17
Acq On : 5 Nov 2024 12:43 am Operator: DNguye/CLing
Sample : 24J168-11 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:14 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

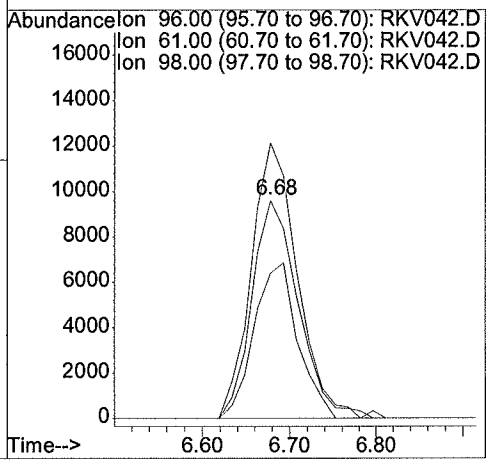


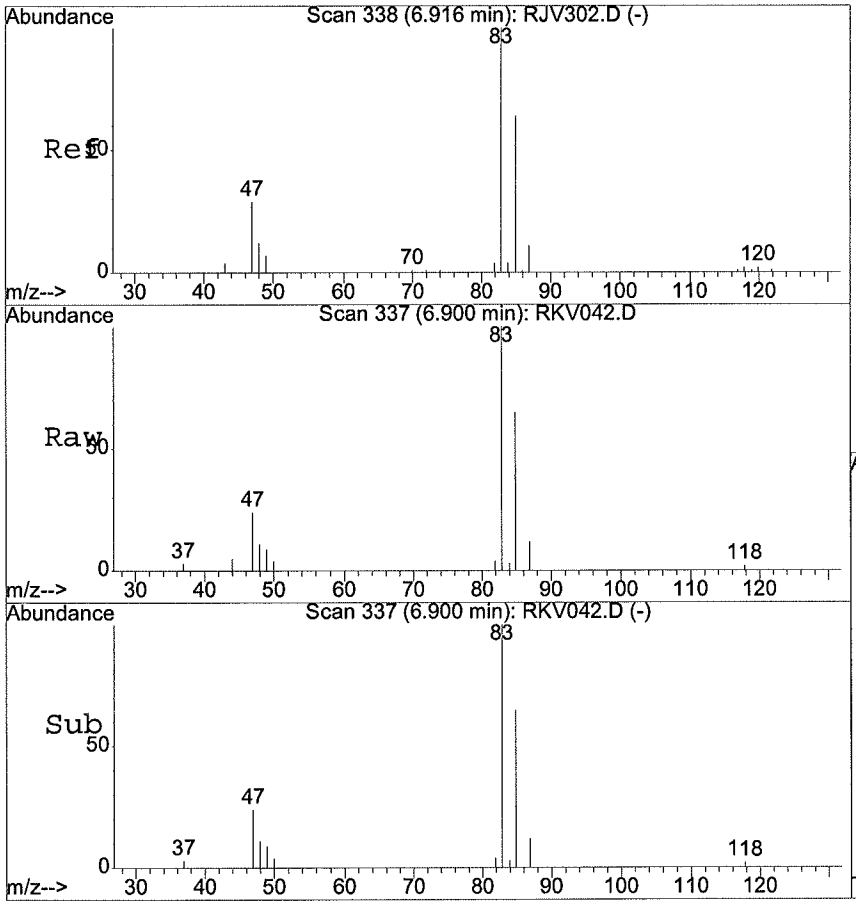


#30
cis-1,2-Dichloroethene
Concen: 1.63 ug/l
RT: 6.68 min Scan# 322
Delta R.T. -0.02 min
Lab File: RKV042.D
Acq: 5 Nov 2024 12:43 am

Tgt Ion: 96 Resp: 35502

Ion	Ratio	Lower	Upper
96	100		
61	125.9	118.2	178.2
98	67.2	35.6	95.6

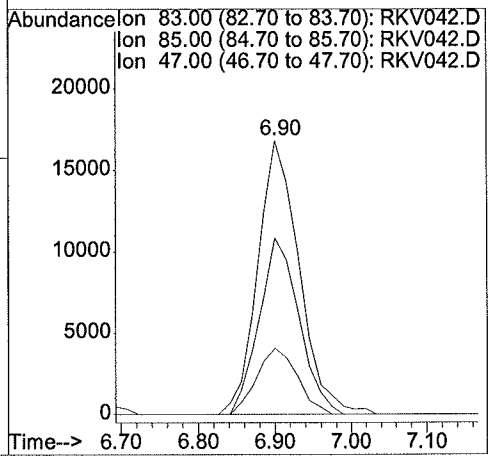


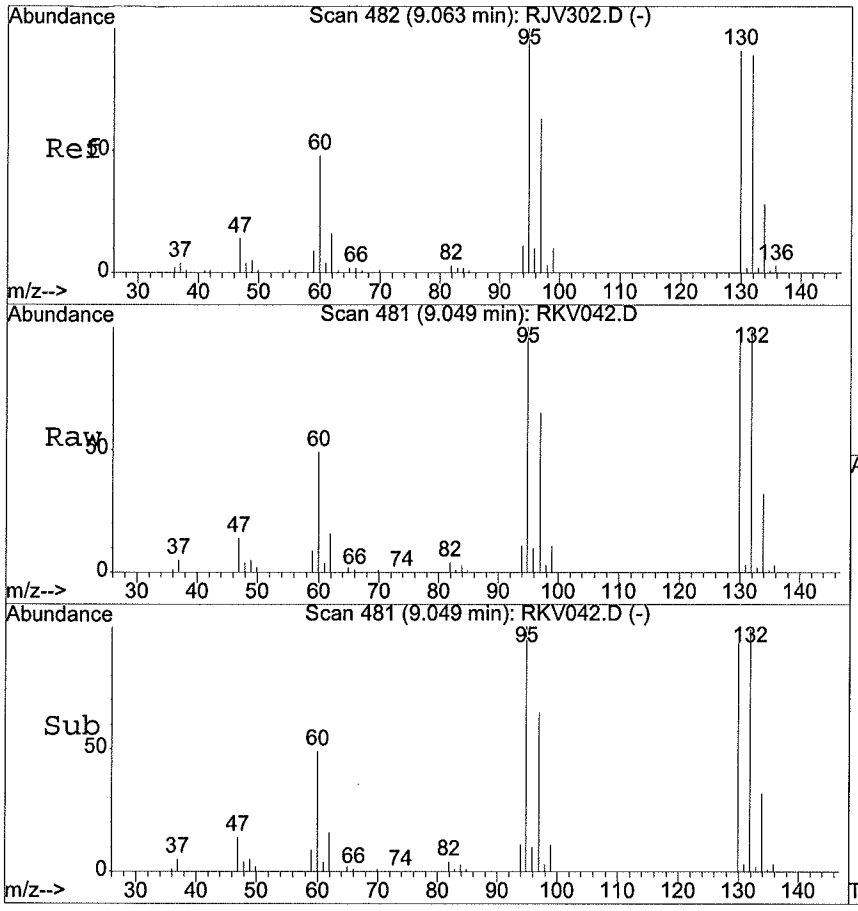


#31
Chloroform
Concen: 1.75 ug/l
RT: 6.90 min Scan# 337
Delta R.T. -0.02 min
Lab File: RKV042.D
Acq: 5 Nov 2024 12:43 am

Tgt Ion: 83 Resp: 63219

Ion	Ratio	Lower	Upper
83	100		
85	62.1	37.8	97.8
47	23.7	0.0	59.1

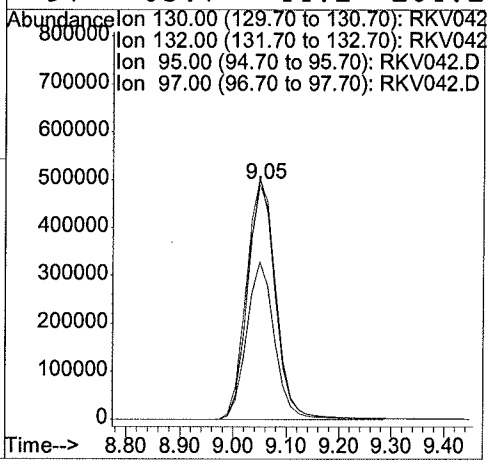




#44
Trichloroethene
Concen: 89.49 ug/l
RT: 9.05 min Scan# 481
Delta R.T. -0.01 min
Lab File: RKV042.D
Acq: 5 Nov 2024 12:43 am

Tgt Ion:130 Resp: 1829319

Ion	Ratio	Lower	Upper
130	100		
132	101.8	67.4	127.4
95	103.5	81.2	141.2
97	65.7	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 13:08
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 01:12
Sample ID	: T1AMF-MW051_OCT24	Date Analyzed:	11/05/24 01:12
Lab Samp ID:	24J168-12	Dilution Factor:	1
Lab File ID:	RKV043	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	0.14J	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	16	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.3	10.0	113	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	10.7	10.0	107	89-112
Dibromofluoromethane	11.0	10.0	110	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV043.D Vial: 18
Acq On : 5 Nov 2024 1:12 am Operator: DNguye/CLingl
Sample : 24J168-12 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:15 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

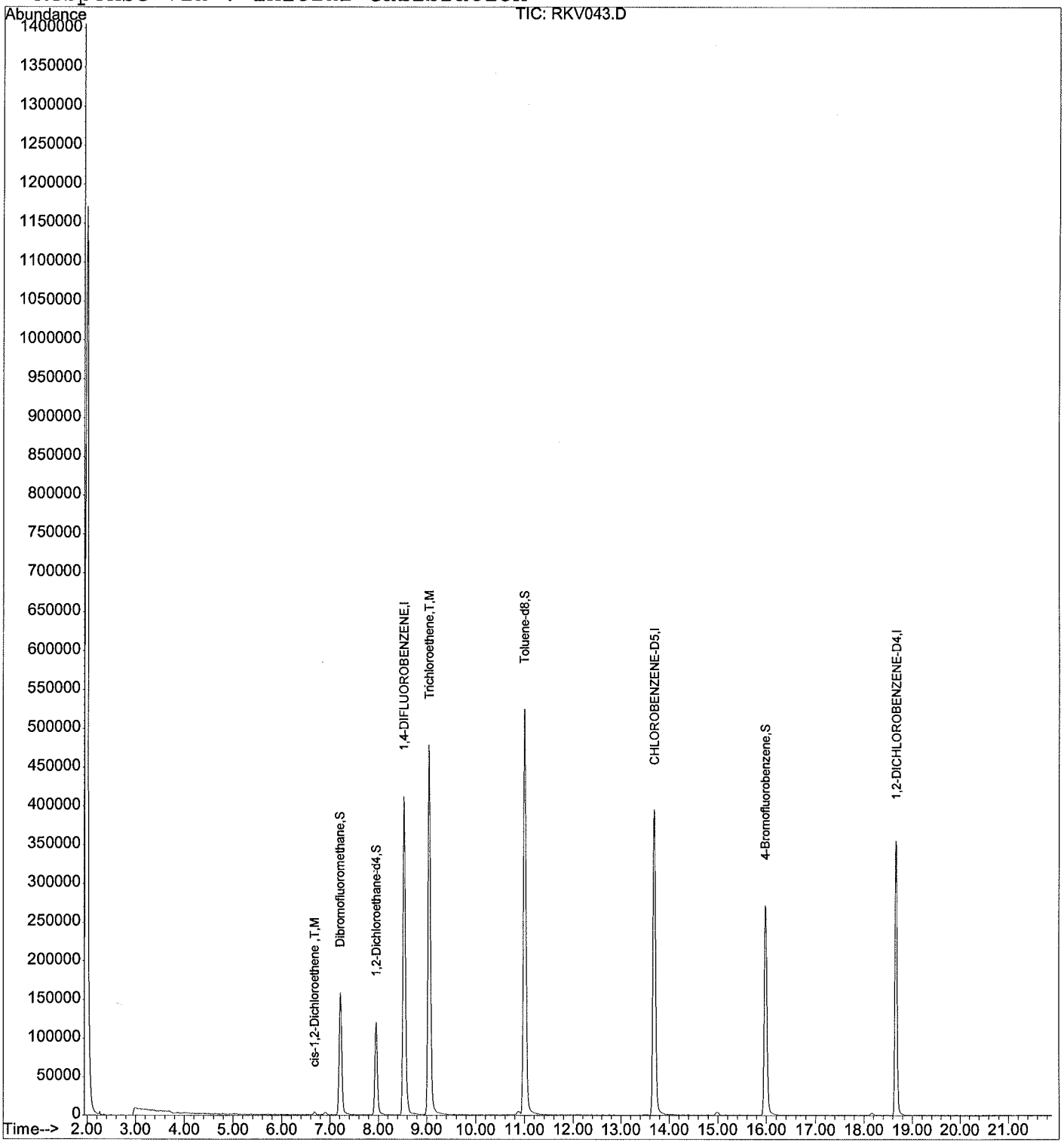
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.53	114	643347	10.00	ug/l	-0.02
53) CHLOROBENZENE-D5	13.70	117	484739	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	193605	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.21	111	184559	10.98	ug/l	-0.02
Spiked Amount 10.000			Recovery = 109.80%			
41) 1,2-Dichloroethane-d4	7.95	65	166833	11.27	ug/l	-0.02
Spiked Amount 10.000			Recovery = 112.70%			
54) Toluene-d8	11.00	98	713888	10.71	ug/l	-0.01
Spiked Amount 10.000			Recovery = 107.10%			
76) 4-Bromofluorobenzene	15.98	95	231090	10.08	ug/l	0.00
Spiked Amount 10.000			Recovery = 100.80%			
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	6.68	96	2845	0.14	ug/l	97
44) Trichloroethene	9.05	130	303686	15.59	ug/l	94

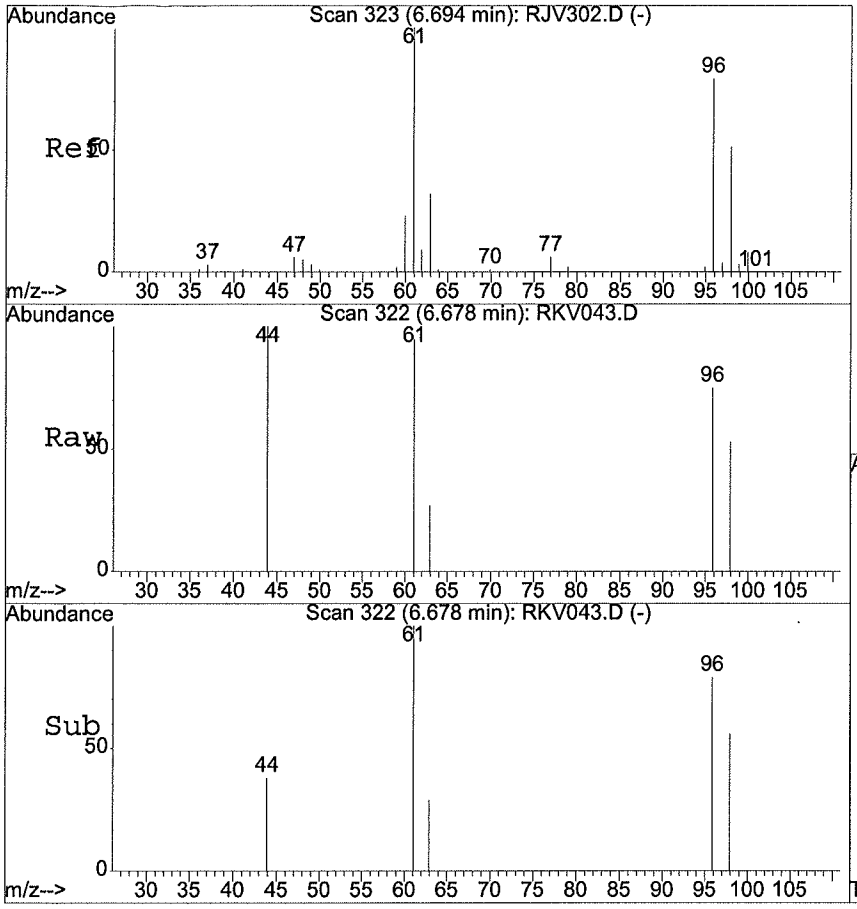
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV043.D Vial: 18
Acq On : 5 Nov 2024 1:12 am Operator: DNguye/CLing
Sample : 24J168-12 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:15 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

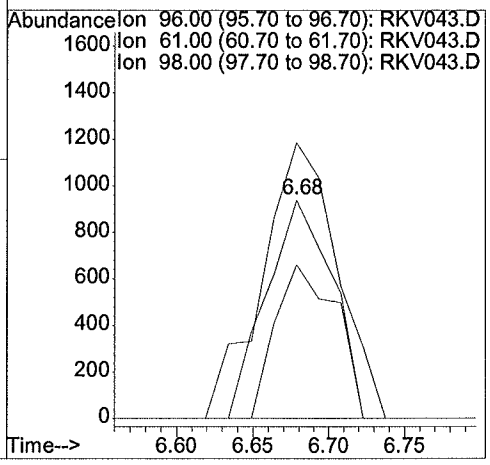


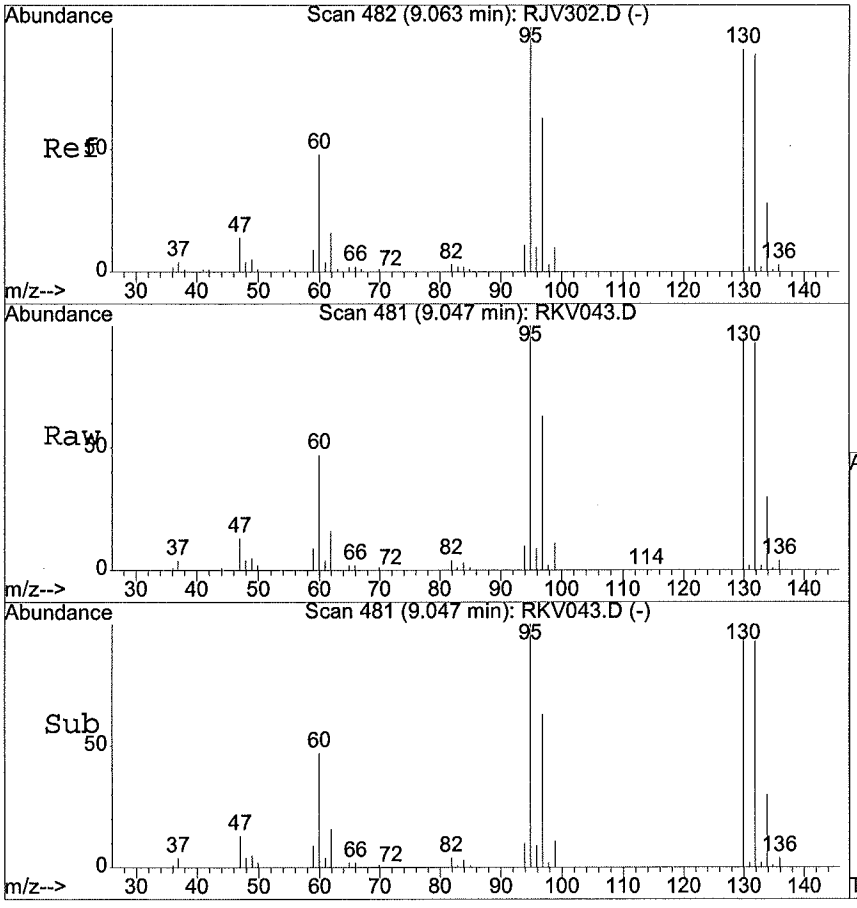


#30
cis-1,2-Dichloroethene
Concen: 0.14 ug/l
RT: 6.68 min Scan# 322
Delta R.T. -0.02 min
Lab File: RKV043.D
Acq: 5 Nov 2024 1:12 am

Tgt Ion: 96 Resp: 2845

Ion	Ratio	Lower	Upper
96	100		
61	144.0	118.2	178.2
98	65.1	35.6	95.6

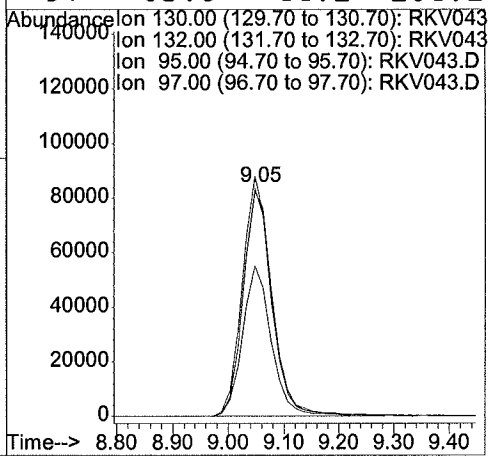




#44
Trichloroethene
Concen: 15.59 ug/l
RT: 9.05 min Scan# 481
Delta R.T. -0.02 min
Lab File: RKV043.D
Acq: 5 Nov 2024 1:12 am

Tgt Ion:130 Resp: 303686

Ion	Ratio	Lower	Upper
130	100		
132	101.3	67.4	127.4
95	104.5	81.2	141.2
97	65.8	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 13:10
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 01:41
Sample ID	: T1AMF-MW029_OCT24	Date Analyzed:	11/05/24 01:41
Lab Samp ID:	24J168-13	Dilution Factor:	1
Lab File ID:	RKV044	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	1.9	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	47	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.1	10.0	111	81-118
4-Bromofluorobenzene	9.99	10.0	100	85-114
Toluene-d8	10.8	10.0	108	89-112
Dibromofluoromethane	10.9	10.0	109	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV044.D Vial: 19
Acq On : 5 Nov 2024 1:41 am Operator: DNguye/CLingl
Sample : 24J168-13 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:17 2024 Quant Results File: VO01J12.RES

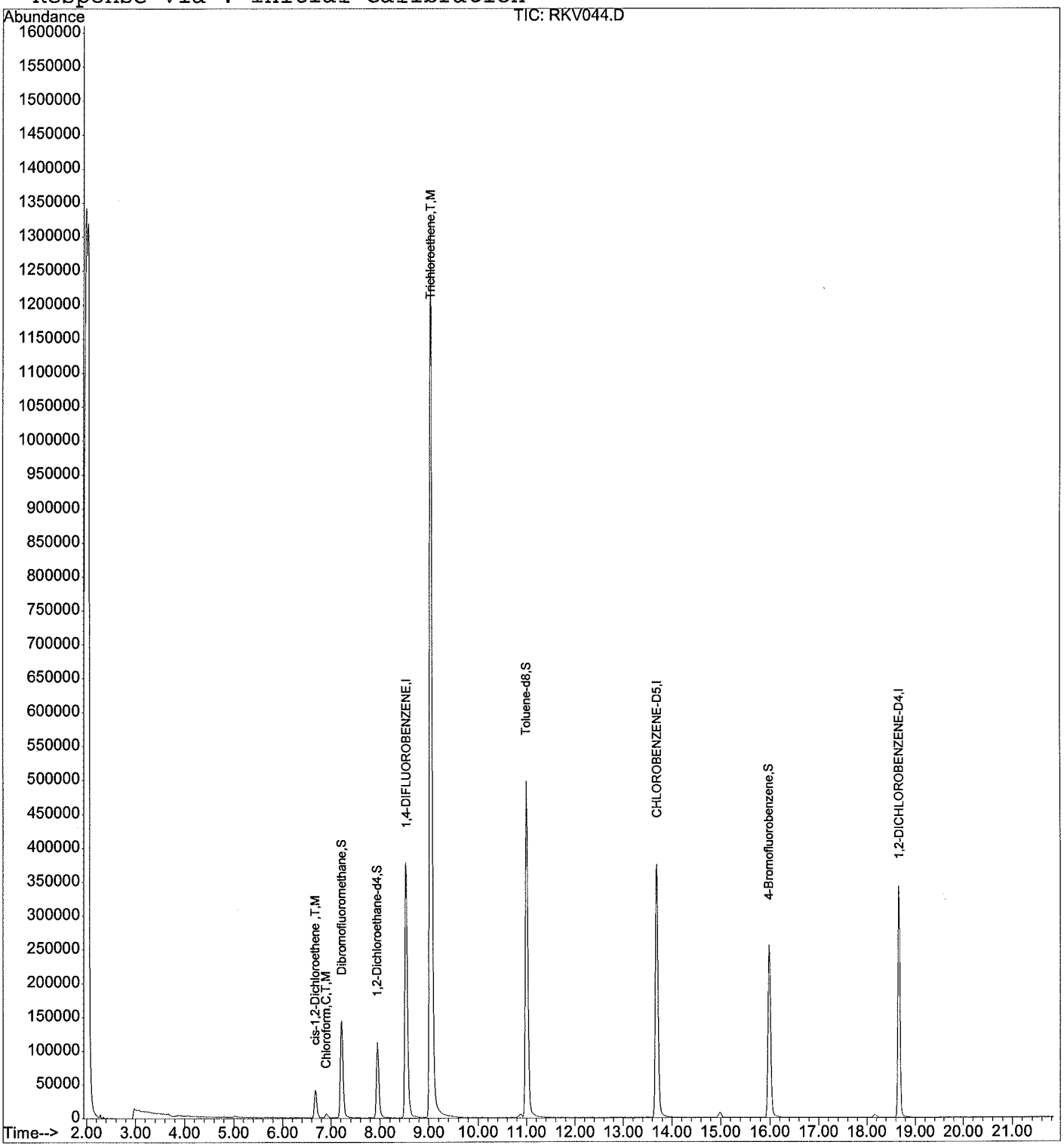
Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

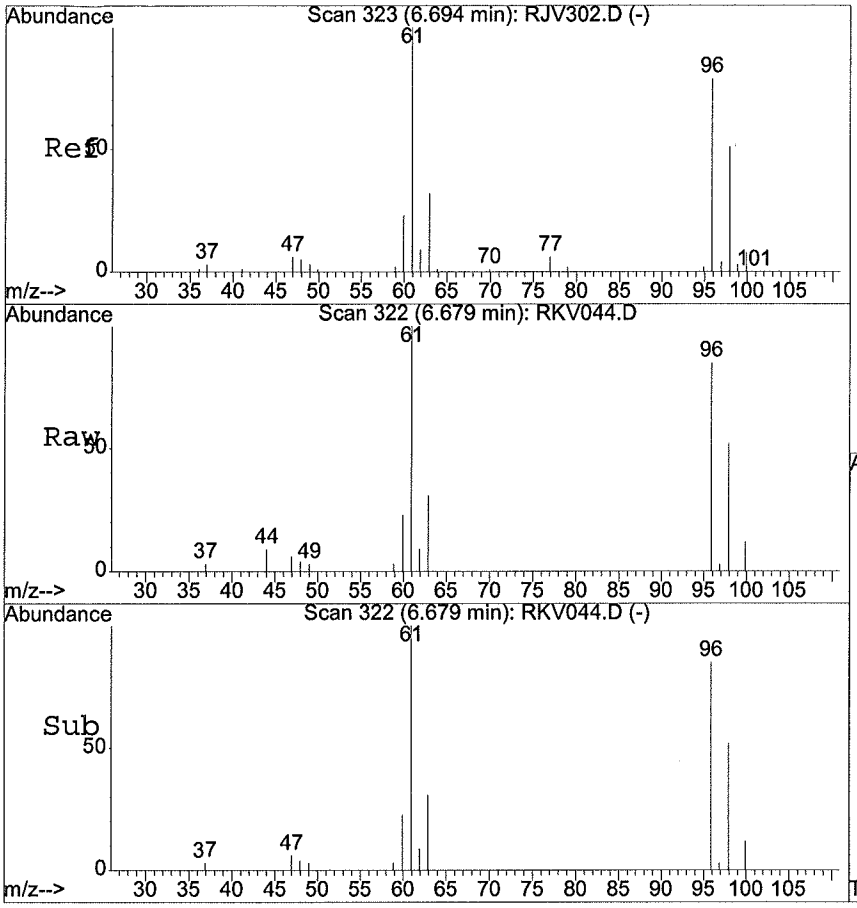
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	600066	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	455147	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	182043	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	171615	10.95	ug/l	0.00
Spiked Amount 10.000			Recovery =	109.50%		
41) 1,2-Dichloroethane-d4	7.95	65	152776	11.07	ug/l	-0.01
Spiked Amount 10.000			Recovery =	110.70%		
54) Toluene-d8	11.00	98	674253	10.77	ug/l	-0.01
Spiked Amount 10.000			Recovery =	107.70%		
76) 4-Bromofluorobenzene	15.98	95	215396	9.99	ug/l	0.00
Spiked Amount 10.000			Recovery =	99.90%		
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	6.68	96	37178	1.93	ug/l	85
31) Chloroform	6.90	83	9974	0.31	ug/l	93
44) Trichloroethene	9.05	130	847068	46.62	ug/l	94

(#) = qualifier out of range (m) = manual integration
RKV044.D VO01J12.M Fri Nov 08 19:17:07 2024 Page 1

Data File : D:\HPCHEM\1\DATA\24K04\RKV044.D Vial: 19
Acq On : 5 Nov 2024 1:41 am Operator: DNguye/CLing
Sample : 24J168-13 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:17 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

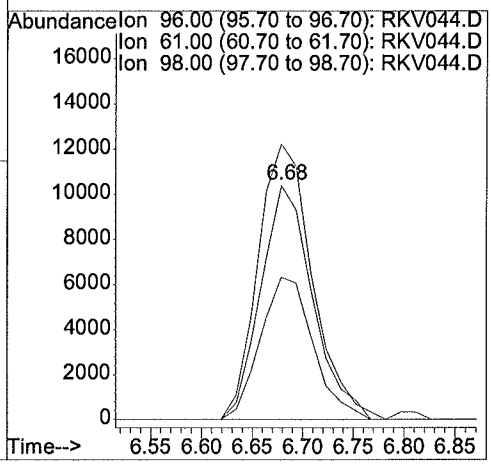


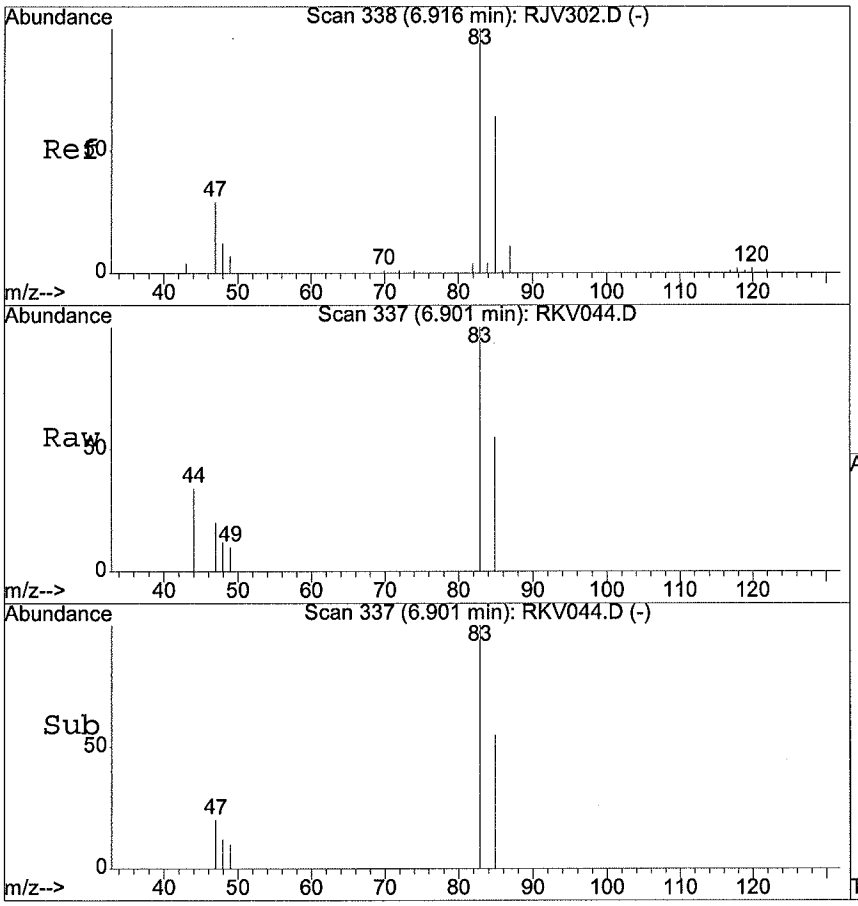


#30
cis-1,2-Dichloroethene
Concen: 1.93 ug/l
RT: 6.68 min Scan# 322
Delta R.T. -0.02 min
Lab File: RKV044.D
Acq: 5 Nov 2024 1:41 am

Tgt Ion: 96 Resp: 37178

Ion	Ratio	Lower	Upper
96	100		
61	123.6	118.2	178.2
98	62.1	35.6	95.6

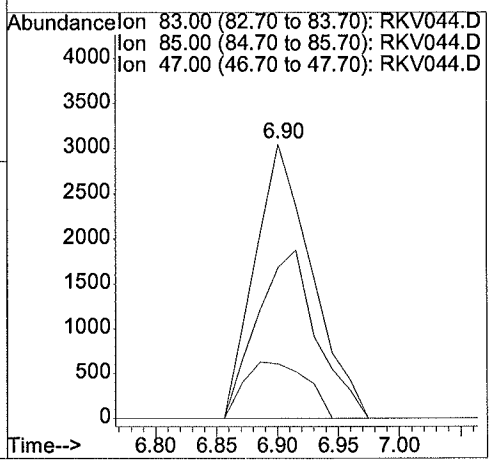


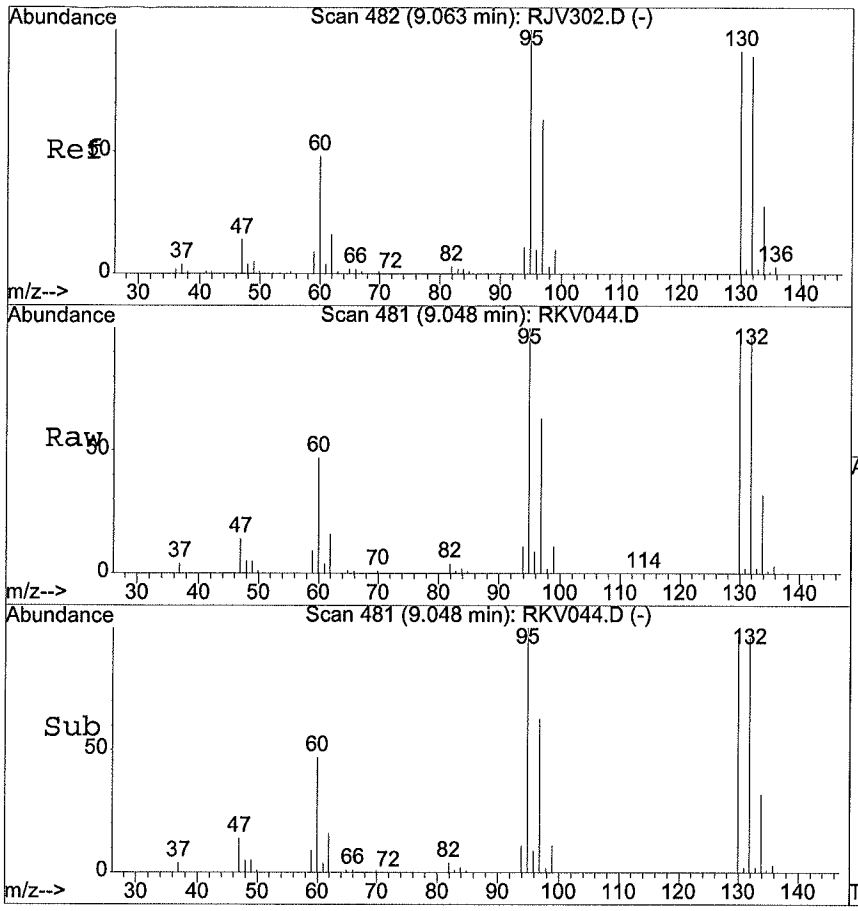


#31
Chloroform
Concen: 0.31 ug/l
RT: 6.90 min Scan# 337
Delta R.T. -0.02 min
Lab File: RKV044.D
Acq: 5 Nov 2024 1:41 am

Tgt Ion: 83 Resp: 9974

Ion	Ratio	Lower	Upper
83	100		
85	64.2	37.8	97.8
47	22.7	0.0	59.1

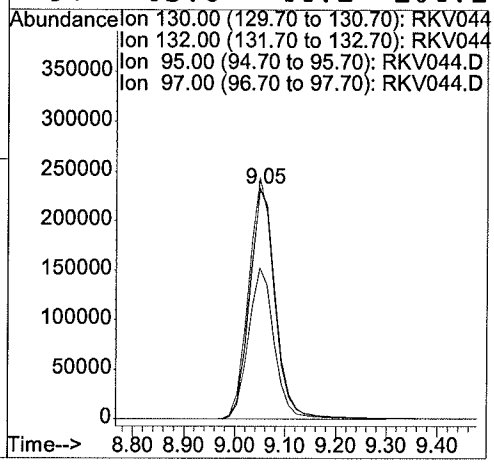




#44
Trichloroethene
Concen: 46.62 ug/l
RT: 9.05 min Scan# 481
Delta R.T. -0.01 min
Lab File: RKV044.D
Acq: 5 Nov 2024 1:41 am

Tgt Ion:130 Resp: 847068

Ion	Ratio	Lower	Upper
130	100		
132	100.3	67.4	127.4
95	104.0	81.2	141.2
97	65.6	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 10/24/24 14:04
Project : TITAN 1-A	Date Received: 10/28/24
Batch No. : 24J168	Date Extracted: 11/05/24 02:09 # 11/06/24 15:04
Sample ID : T1AMF-EW01_OCT24	Date Analyzed: 11/05/24 02:09 # 11/06/24 15:04
Lab Samp ID: J168-14 #J168-14I	Dilution Factor: 1 # 25
Lab File ID: RKV045 #RKV083	Matrix: WATER
Ext Btch ID: V001K02 #V001K04	% Moisture: NA
Calib. Ref.: RJV302 #RJV302	Instrument ID: 01 # 01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	18	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
# Trichloroethene	450	25	2.5	5.0
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.2	10.0	112	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	10.6	10.0	106	89-112
Dibromofluoromethane	11.1	10.0	111	80-119
# 1,2-Dichloroethane-d4	284	250	113	81-118
# 4-Bromofluorobenzene	251	250	100	85-114
# Toluene-d8	264	250	105	89-112
# Dibromofluoromethane	284	250	114	80-119

Result(s) associated as marked on the header

Notes:

Sample Amount : 25ml	Final Volume : 25ml
Prepared by : DNguye	Analyzed by : DNguye
# Sample Amount : 1.0ml	Final Volume : 25ml
# Prepared by : DNguye	Analyzed by : DNguye

Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 14:04
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 02:09
Sample ID	: T1AMF-EW01_OCT24	Date Analyzed:	11/05/24 02:09
Lab Samp ID:	24J168-14	Dilution Factor:	1
Lab File ID:	RKV045	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	18	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	420E	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.2	10.0	112	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	10.6	10.0	106	89-112
Dibromofluoromethane	11.1	10.0	111	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV045.D Vial: 20
Acq On : 5 Nov 2024 2:09 am Operator: DNguye/CLingl
Sample : 24J168-14 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:17 2024 Quant Results File: VO01J12.RES

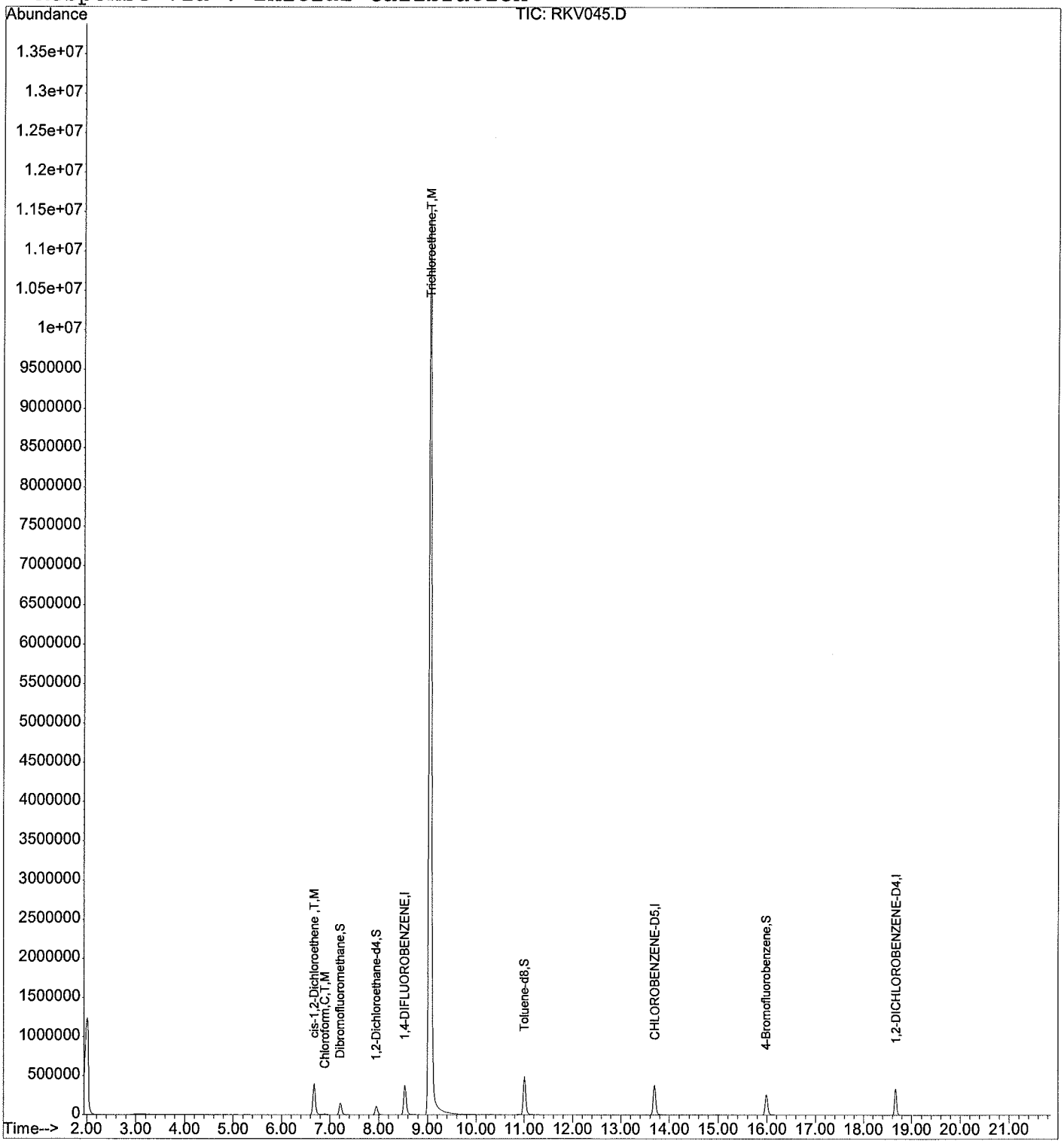
Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

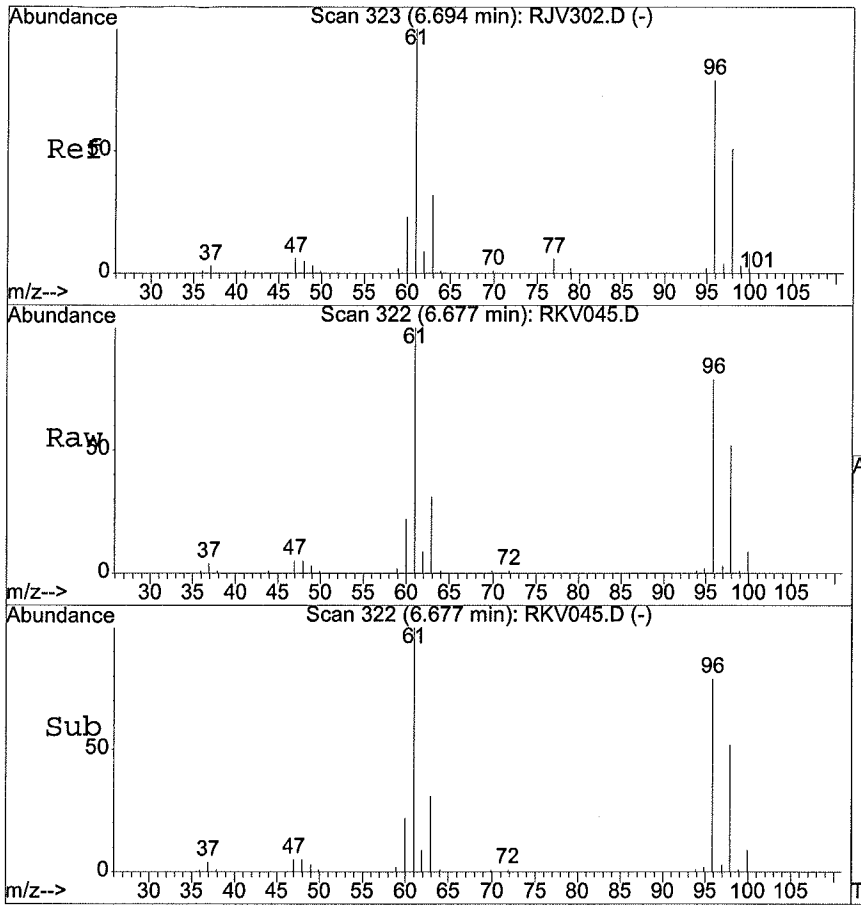
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.53	114	588114	10.00	ug/l	-0.01
53) CHLOROBENZENE-D5	13.70	117	454582	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	180986	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.21	111	171271	11.15	ug/l	-0.02
Spiked Amount 10.000			Recovery = 111.50%			
41) 1,2-Dichloroethane-d4	7.95	65	151184	11.17	ug/l	-0.02
Spiked Amount 10.000			Recovery = 111.70%			
54) Toluene-d8	11.00	98	665654	10.65	ug/l	-0.01
Spiked Amount 10.000			Recovery = 106.50%			
76) 4-Bromofluorobenzene	15.98	95	215392	10.05	ug/l	0.00
Spiked Amount 10.000			Recovery = 100.50%			
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	6.68	96	344068	18.18	ug/l	88
31) Chloroform	6.90	83	18013	0.57	ug/l	98
44) Trichloroethene	9.05	130	7483933	420.23	ug/l	92

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV045.D Vial: 20
Acq On : 5 Nov 2024 2:09 am Operator: DNguye/CLing
Sample : 24J168-14 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:17 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

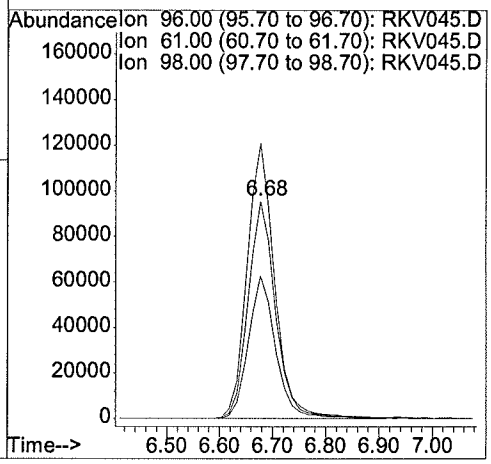


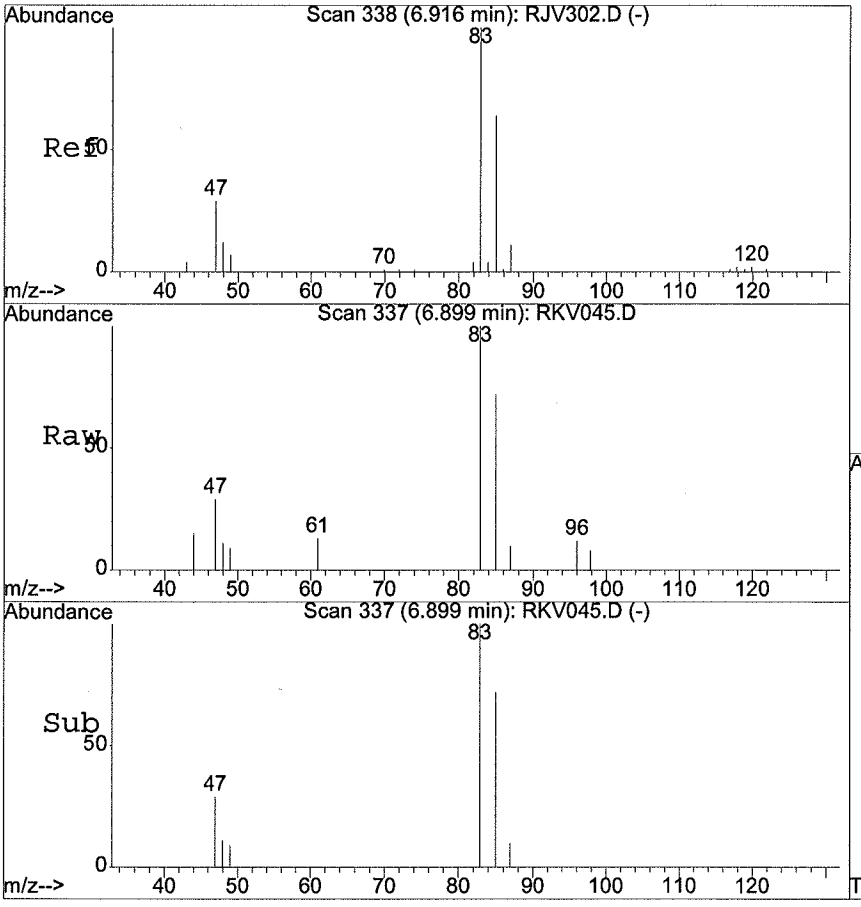


#30
cis-1,2-Dichloroethene
Concen: 18.18 ug/l
RT: 6.68 min Scan# 322
Delta R.T. -0.02 min
Lab File: RKV045.D
Acq: 5 Nov 2024 2:09 am

Tgt Ion: 96 Resp: 344068

Ion	Ratio	Lower	Upper
96	100		
61	127.2	118.2	178.2
98	65.2	35.6	95.6

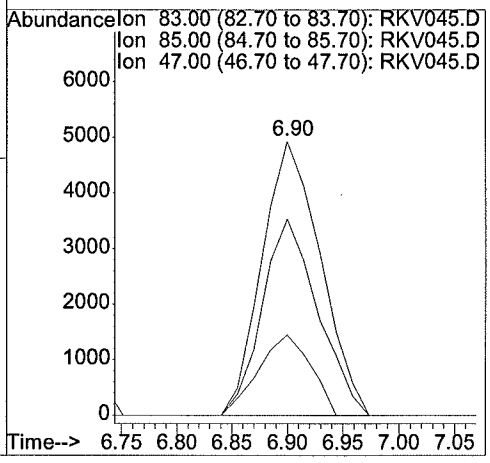


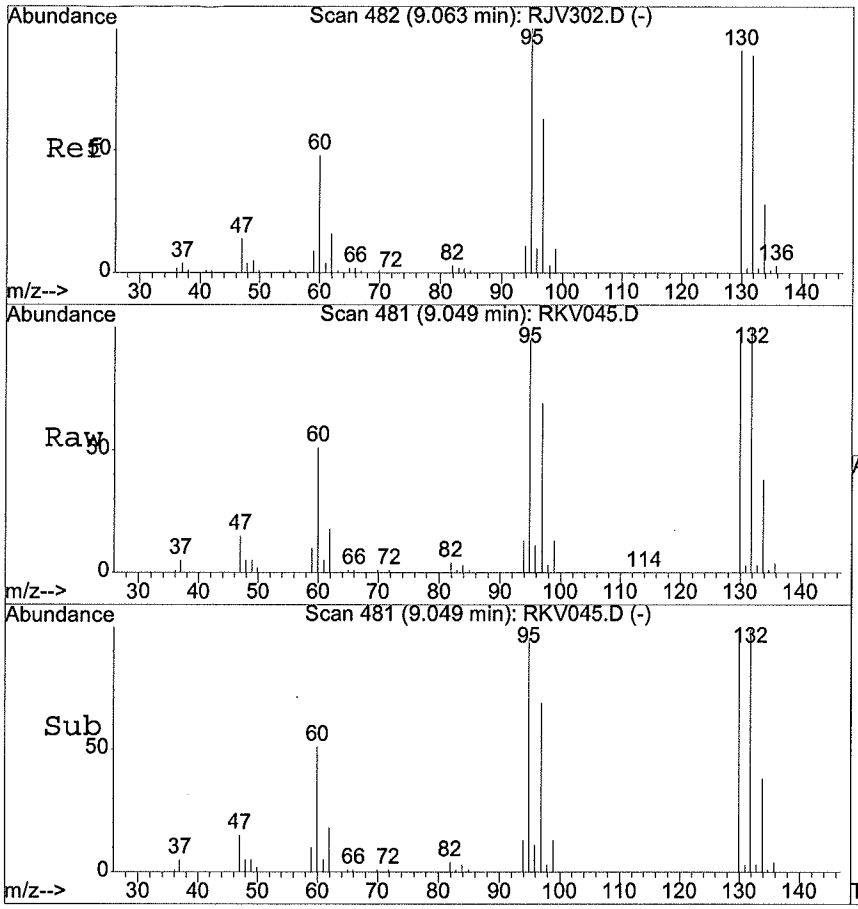


#31
Chloroform
Concen: 0.57 ug/l
RT: 6.90 min Scan# 337
Delta R.T. -0.02 min
Lab File: RKV045.D
Acq: 5 Nov 2024 2:09 am

Tgt Ion: 83 Resp: 18013

Ion	Ratio	Lower	Upper
83	100		
85	68.1	37.8	97.8
47	26.4	0.0	59.1

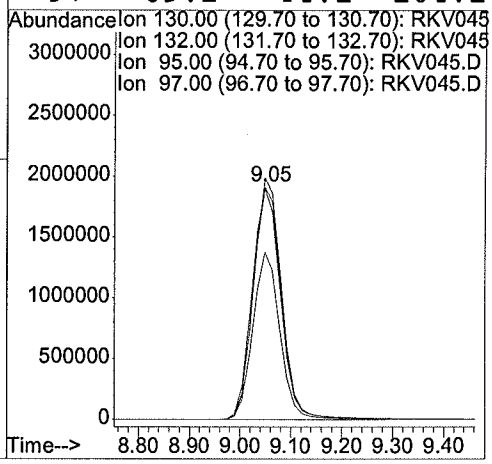




#44
Trichloroethene
Concen: 420.23 ug/l
RT: 9.05 min Scan# 481
Delta R.T. -0.01 min
Lab File: RKV045.D
Acq: 5 Nov 2024 2:09 am

Tgt Ion:130 Resp: 7483933

Ion	Ratio	Lower	Upper
130	100		
132	103.2	67.4	127.4
95	100.5	81.2	141.2
97	69.2	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 14:04
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 15:04
Sample ID	: T1AMF-EW01_OCT24	Date Analyzed:	11/06/24 15:04
Lab Samp ID:	24J168-14I	Dilution Factor:	25
Lab File ID:	RKV083	Matrix:	WATER
Ext Btch ID:	VO01K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	25	2.5	5.0
1,4-Dichlorobenzene	ND	25	2.5	5.0
Benzene	ND	25	2.5	5.0
cis-1,2-Dichloroethene	17J	25	2.5	5.0
Ethylbenzene	ND	25	2.5	5.0
m,p-Xylene	ND	50	5.2	12
o-Xylene	ND	25	2.5	5.0
Toluene	ND	25	2.5	5.0
Trans-1,2-Dichloroethene	ND	25	2.5	5.0
Trichloroethene	450	25	2.5	5.0
Vinyl Chloride	ND	25	2.8	7.5

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	284	250	113	81-118
4-Bromofluorobenzene	251	250	100	85-114
Toluene-d8	264	250	105	89-112
Dibromofluoromethane	284	250	114	80-119

Notes:

Sample Amount	: 1.0ml	Final Volume :	25ml
Prepared by	: DNguye	Analyzed by :	DNguye

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV083.D Vial: 16
Acq On : 6 Nov 2024 3:04 pm Operator: DNguye/CLingl
Sample : 24J168-14I 25X Inst : 01
Misc : 1mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 11:30 2024 Quant Results File: VO01J12.RES

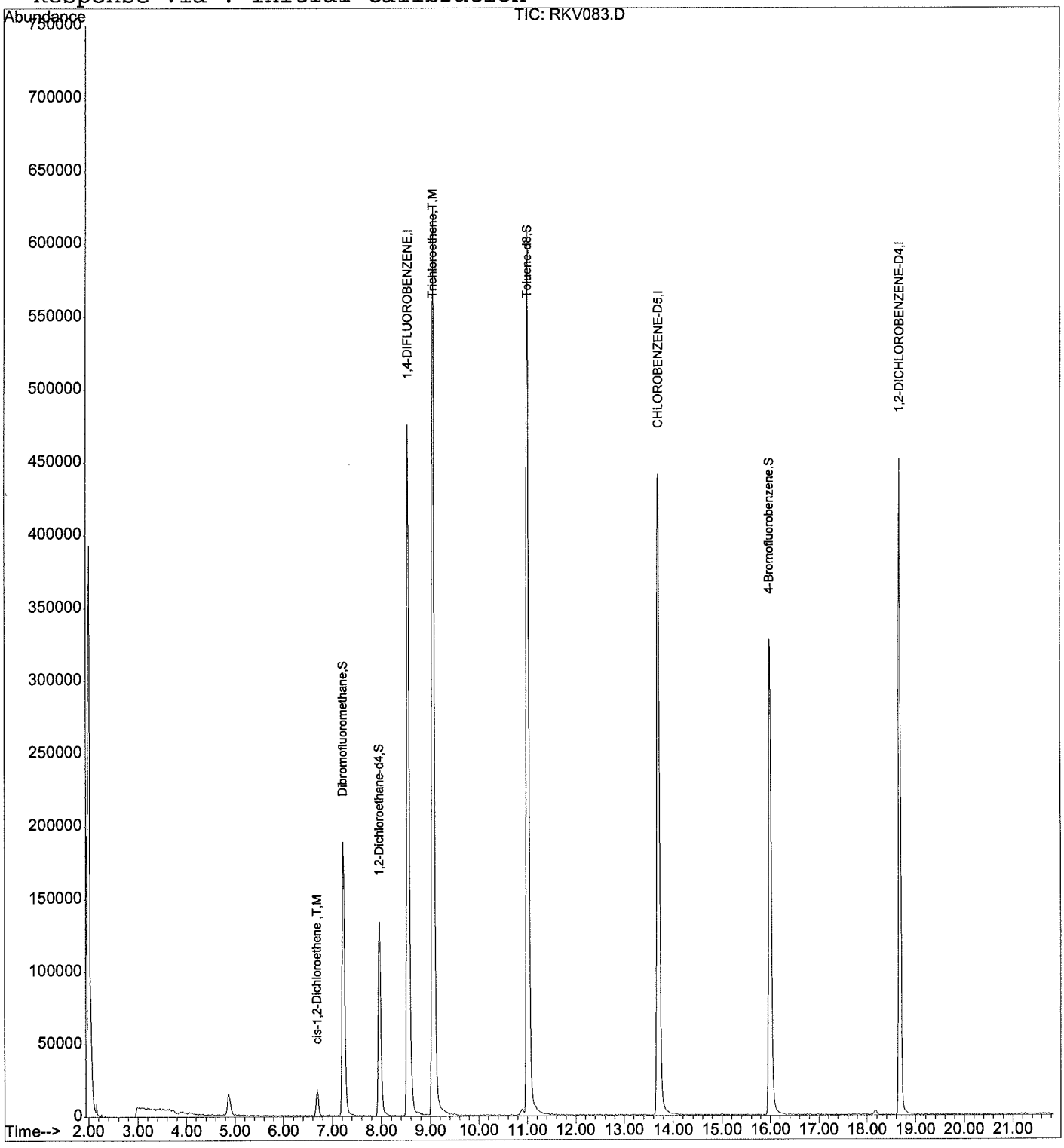
Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

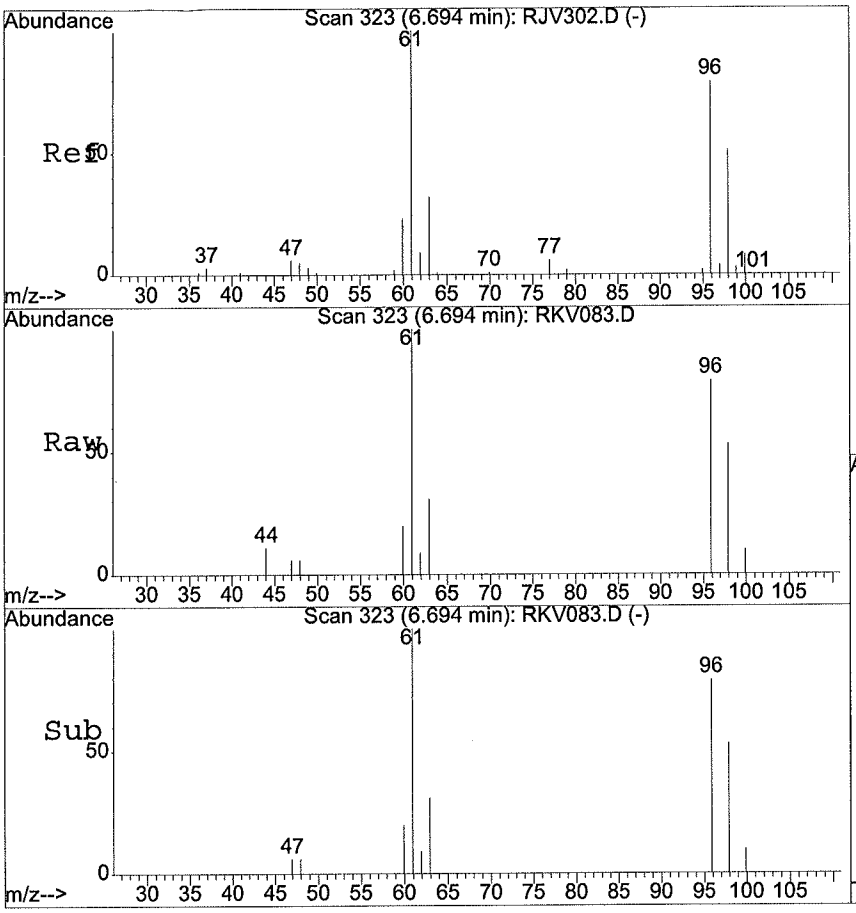
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	729346	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.71	117	560830	10.00	ug/l	0.02
72) 1,2-DICHLOROBENZENE-D4	18.67	152	231809	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	216682	11.37	ug/l	0.00
Spiked Amount 10.000			Recovery = 113.70%			
41) 1,2-Dichloroethane-d4	7.97	65	190306	11.34	ug/l	0.00
Spiked Amount 10.000			Recovery = 113.40%			
54) Toluene-d8	11.02	98	813242	10.54	ug/l	0.00
Spiked Amount 10.000			Recovery = 105.40%			
76) 4-Bromofluorobenzene	15.99	95	275422	10.04	ug/l	0.02
Spiked Amount 10.000			Recovery = 100.40%			
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	6.69	96	16025	0.68	ug/l	87
44) Trichloroethene	9.06	130	400887	18.15	ug/l	94

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K06\RKV083.D Vial: 16
Acq On : 6 Nov 2024 3:04 pm Operator: DNguye/CLing
Sample : 24J168-14I 25X Inst : 01
Misc : 1mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 11:30 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

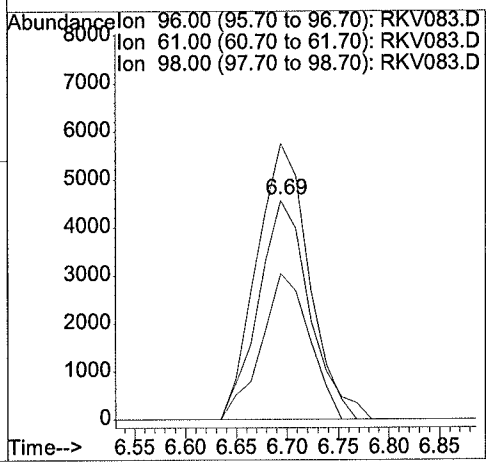


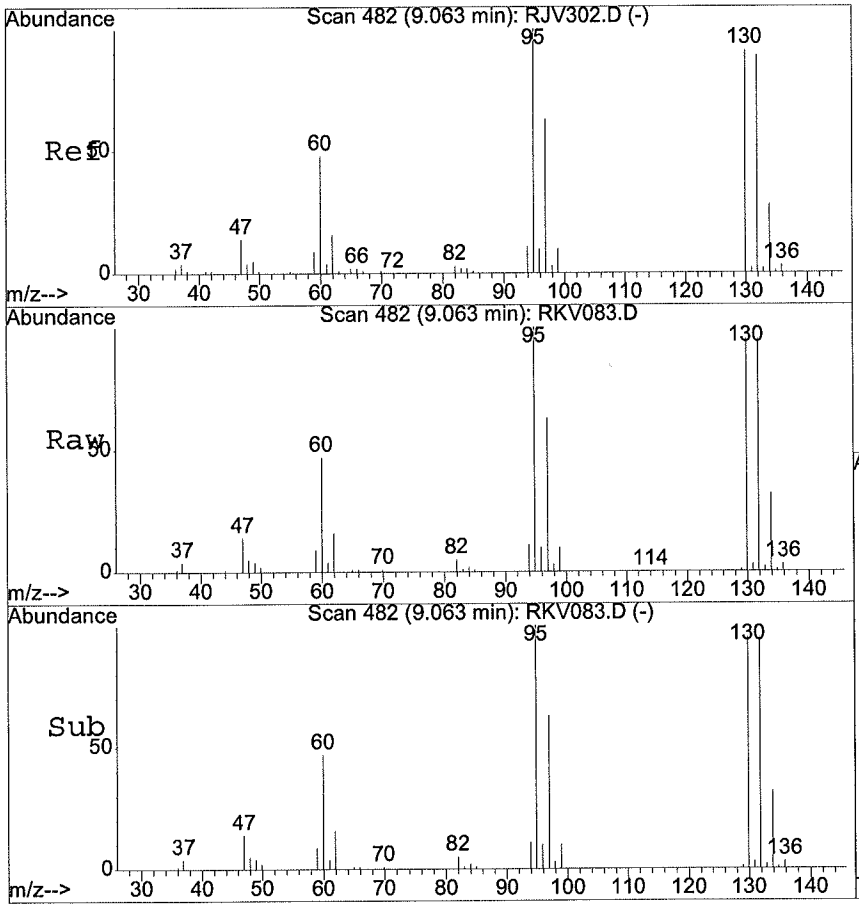


#30
cis-1,2-Dichloroethene
Concen: 0.68 ug/l
RT: 6.69 min Scan# 323
Delta R.T. -0.00 min
Lab File: RKV083.D
Acq: 6 Nov 2024 3:04 pm

Tgt Ion: 96 Resp: 16025

Ion	Ratio	Lower	Upper
96	100		
61	126.9	118.2	178.2
98	62.1	35.6	95.6

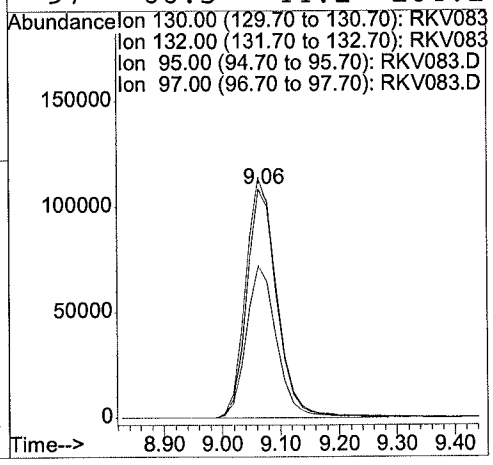




#44
Trichloroethene
Concen: 18.15 ug/l
RT: 9.06 min Scan# 482
Delta R.T. 0.00 min
Lab File: RKV083.D
Acq: 6 Nov 2024 3:04 pm

Tgt Ion:130 Resp: 400887

Ion	Ratio	Lower	Upper
130	100		
132	100.7	67.4	127.4
95	105.3	81.2	141.2
97	66.5	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client : PARSONS	Date Collected: 10/24/24 14:05
Project : TITAN 1-A	Date Received: 10/28/24
Batch No. : 24J168	Date Extracted: 11/05/24 02:38 # 11/06/24 15:34
Sample ID : T1AMF-MW045_OCT24	Date Analyzed: 11/05/24 02:38 # 11/06/24 15:34
Lab Samp ID: J168-15 #J168-15I	Dilution Factor: 1 # 10
Lab File ID: RKV046 #RKV084	Matrix: WATER
Ext Btch ID: VO01K02 #VO01K04	% Moisture: NA
Calib. Ref.: RJV302 #RJV302	Instrument ID: 01 # 01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	9.4	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.46J	1.0	0.10	0.20
# Trichloroethene	310	10	1.0	2.0
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.6	10.0	106	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	10.9	10.0	109	89-112
Dibromofluoromethane	10.8	10.0	108	80-119
# 1,2-Dichloroethane-d4	115	100	115	81-118
# 4-Bromofluorobenzene	97.7	100	98	85-114
# Toluene-d8	103	100	103	89-112
# Dibromofluoromethane	115	100	115	80-119

Result(s) associated as marked on the header

Notes:

Sample Amount : 25ml	Final Volume : 25ml
Prepared by : DNguye	Analyzed by : DNguye
# Sample Amount : 2.5ml	Final Volume : 25ml
# Prepared by : DNguye	Analyzed by : DNguye

Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 14:05
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 02:38
Sample ID	: T1AMF-MW045_OCT24	Date Analyzed:	11/05/24 02:38
Lab Samp ID:	24J168-15	Dilution Factor:	1
Lab File ID:	RKV046	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	9.4	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.46J	1.0	0.10	0.20
Trichloroethene	310E	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.6	10.0	106	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	10.9	10.0	109	89-112
Dibromofluoromethane	10.8	10.0	108	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV046.D Vial: 21
Acq On : 5 Nov 2024 2:38 am Operator: DNguye/CLingl
Sample : 24J168-15 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:17 2024 Quant Results File: VO01J12.RES

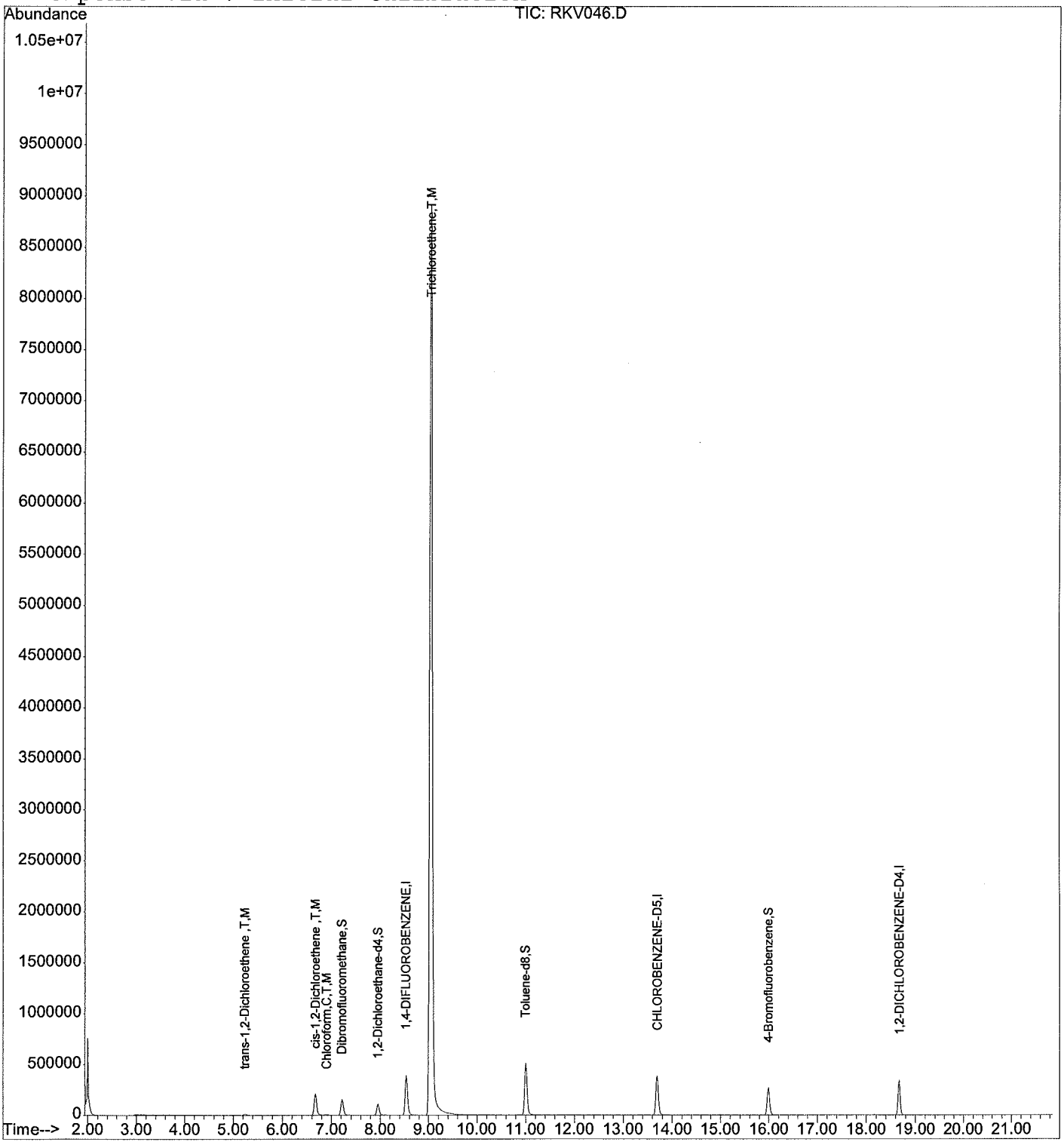
Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

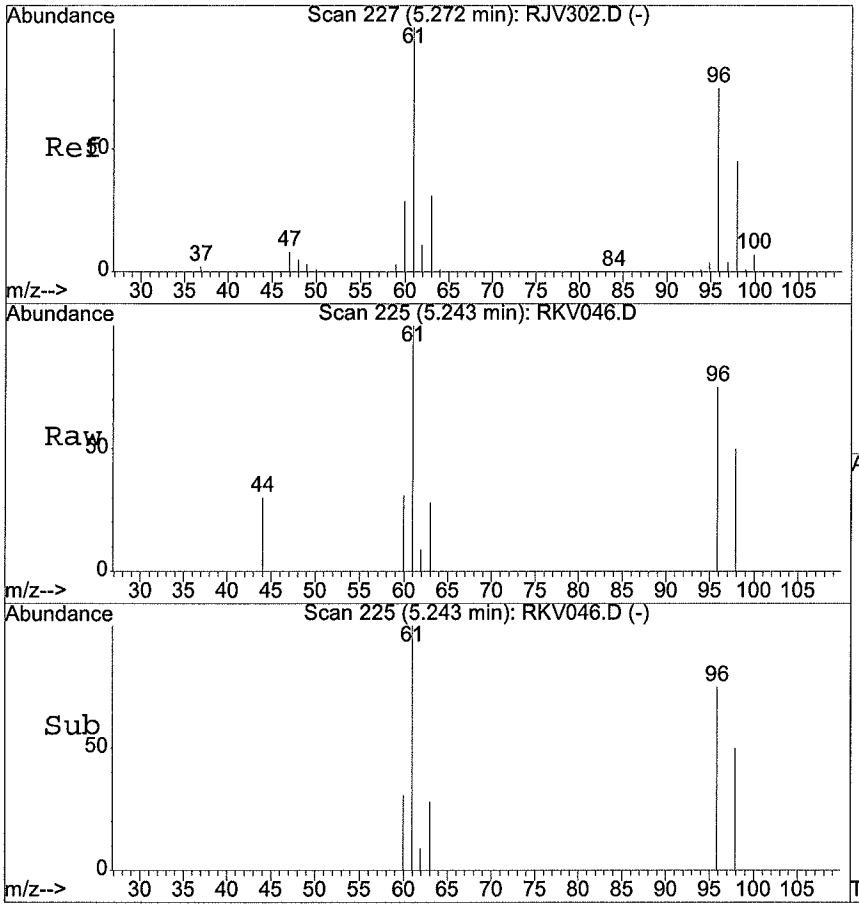
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.53	114	620829	10.00	ug/l	-0.01
53) CHLOROBENZENE-D5	13.70	117	463405	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	183922	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.21	111	175203	10.80	ug/l	-0.01
Spiked Amount 10.000			Recovery =	108.00%		
41) 1,2-Dichloroethane-d4	7.95	65	151360	10.60	ug/l	-0.01
Spiked Amount 10.000			Recovery =	106.00%		
54) Toluene-d8	11.00	98	692366	10.86	ug/l	-0.01
Spiked Amount 10.000			Recovery =	108.60%		
76) 4-Bromofluorobenzene	15.99	95	220199	10.11	ug/l	0.02
Spiked Amount 10.000			Recovery =	101.10%		
Target Compounds						Qvalue
22) trans-1,2-Dichloroethene	5.24	61	12704	0.46	ug/l	99
30) cis-1,2-Dichloroethene	6.68	96	188454	9.43	ug/l	86
31) Chloroform	6.90	83	11569	0.35	ug/l	91
44) Trichloroethene	9.05	130	5783202	307.62	ug/l	93

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV046.D Vial: 21
Acq On : 5 Nov 2024 2:38 am Operator: DNguye/CLing
Sample : 24J168-15 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:17 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

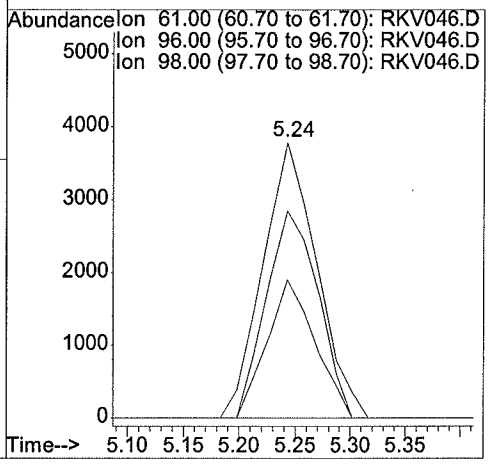


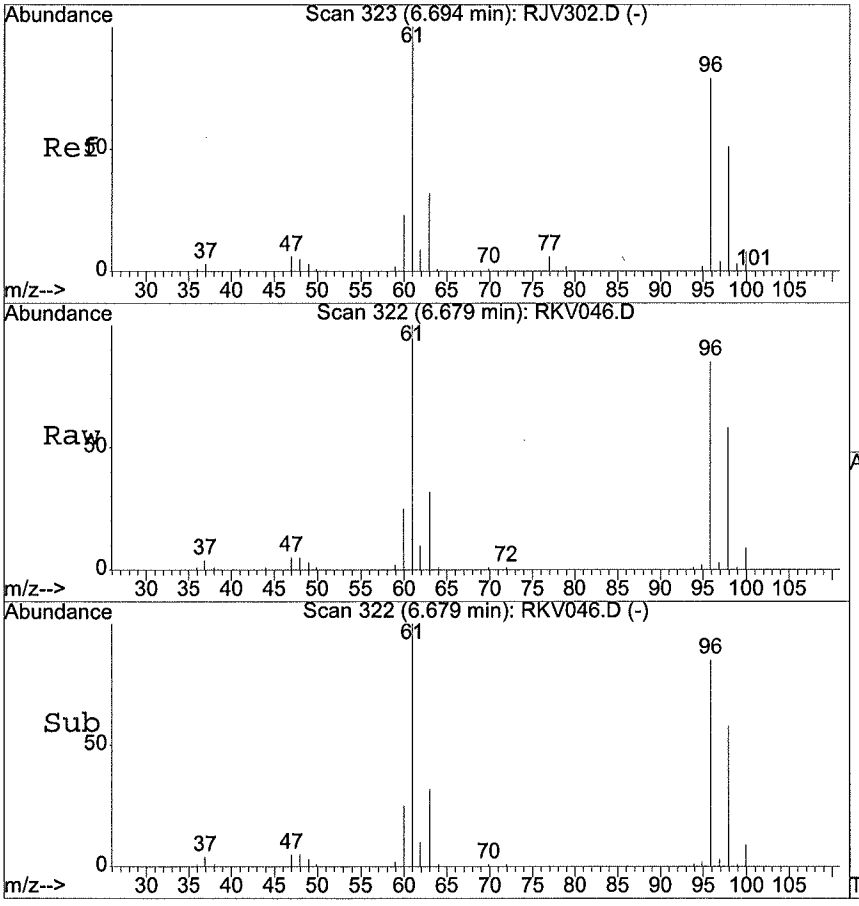


#22
trans-1,2-Dichloroethene
Concen: 0.46 ug/l
RT: 5.24 min Scan# 225
Delta R.T. -0.03 min
Lab File: RKV046.D
Acq: 5 Nov 2024 2:38 am

Tgt Ion: 61 Resp: 12704

Ion	Ratio	Lower	Upper
61	100		
96	72.4	41.8	101.8
98	44.7	15.3	75.3

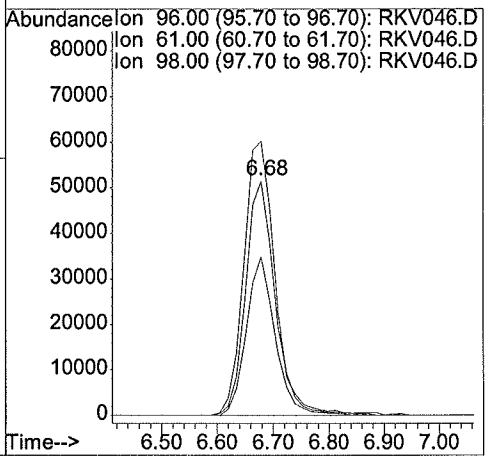


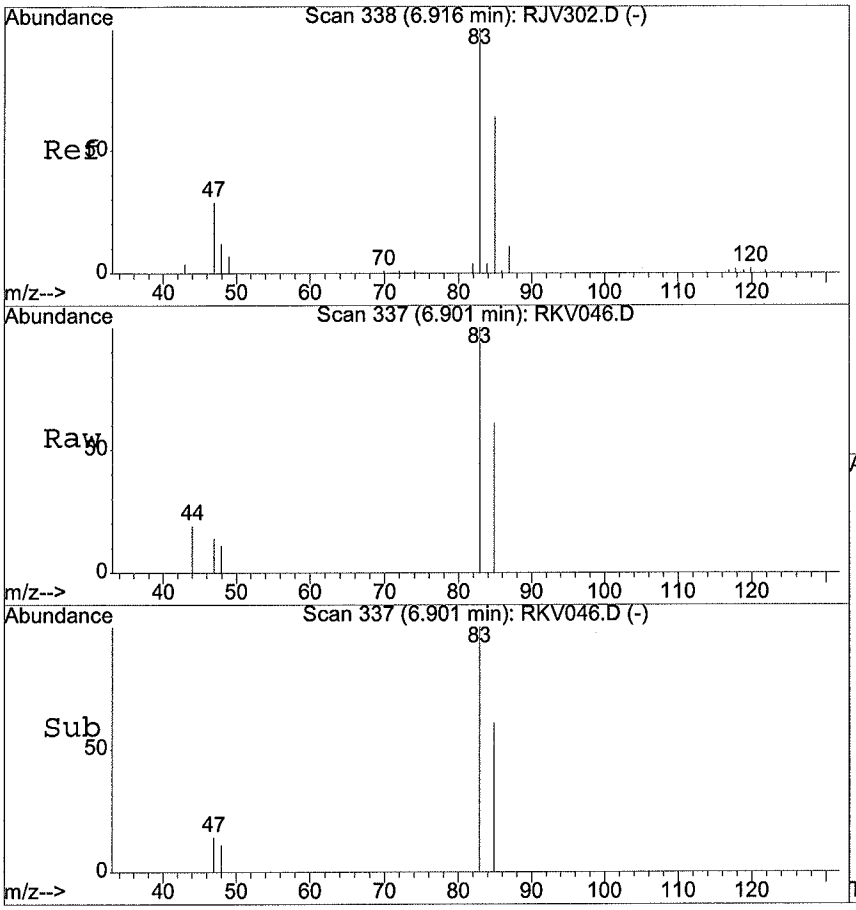


#30
cis-1,2-Dichloroethene
Concen: 9.43 ug/l
RT: 6.68 min Scan# 322
Delta R.T. -0.02 min
Lab File: RKV046.D
Acq: 5 Nov 2024 2:38 am

Tgt Ion: 96 Resp: 188454

Ion	Ratio	Lower	Upper
96	100		
61	123.4	118.2	178.2
98	65.8	35.6	95.6

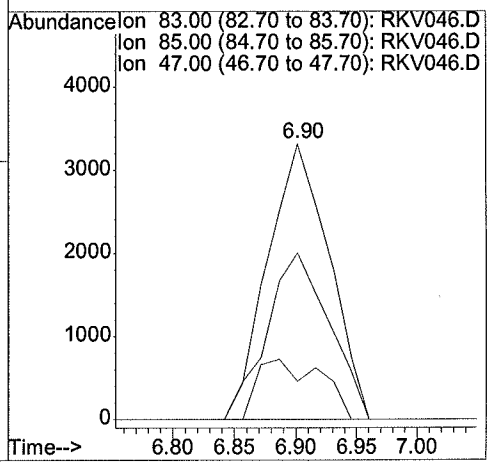


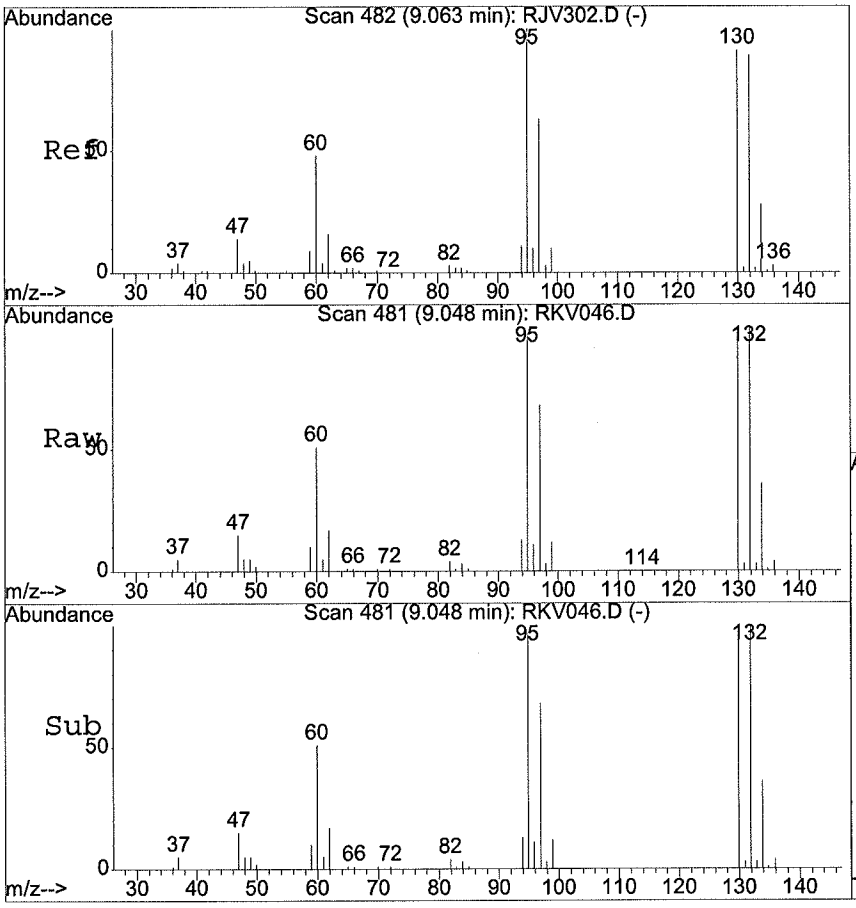


#31
Chloroform
Concen: 0.35 ug/l
RT: 6.90 min Scan# 337
Delta R.T. -0.02 min
Lab File: RKV046.D
Acq: 5 Nov 2024 2:38 am

Tgt Ion: 83 Resp: 11569

Ion	Ratio	Lower	Upper
83	100		
85	61.6	37.8	97.8
47	22.4	0.0	59.1

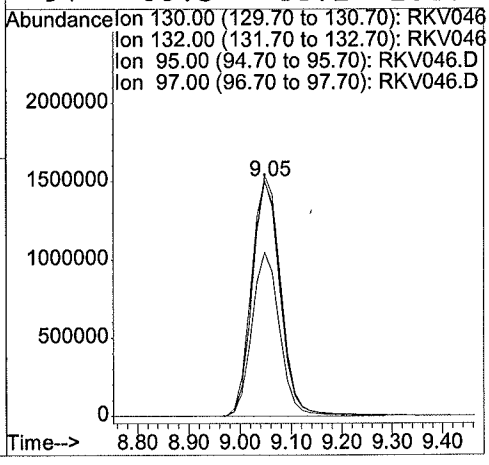




#44
Trichloroethene
Concen: 307.62 ug/l
RT: 9.05 min Scan# 481
Delta R.T. -0.01 min
Lab File: RKV046.D
Acq: 5 Nov 2024 2:38 am

Tgt Ion:130 Resp: 5783202

Ion	Ratio	Lower	Upper
130	100		
132	102.8	67.4	127.4
95	102.2	81.2	141.2
97	68.5	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 14:05
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/06/24 15:34
Sample ID	: T1AMF-MW045_OCT24	Date Analyzed:	11/06/24 15:34
Lab Samp ID:	24J168-15I	Dilution Factor:	10
Lab File ID:	RKV084	Matrix:	WATER
Ext Btch ID:	V001K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	10	1.0	2.0
1,4-Dichlorobenzene	ND	10	1.0	2.0
Benzene	ND	10	1.0	2.0
cis-1,2-Dichloroethene	8.5J	10	1.0	2.0
Ethylbenzene	ND	10	1.0	2.0
m,p-Xylene	ND	20	2.1	5.0
o-Xylene	ND	10	1.0	2.0
Toluene	ND	10	1.0	2.0
Trans-1,2-Dichloroethene	ND	10	1.0	2.0
Trichloroethene	310	10	1.0	2.0
Vinyl Chloride	ND	10	1.1	3.0

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	115	100	115	81-118
4-Bromofluorobenzene	97.7	100	98	85-114
Toluene-d8	103	100	103	89-112
Dibromofluoromethane	115	100	115	80-119

Notes:
Sample Amount : 2.5ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV084.D
Acq On : 6 Nov 2024 3:34 pm
Sample : 24J168-15I 10X
Misc : 2.5mL
MS Integration Params: RTE.P
Quant Time: Nov 14 11:23 2024

Vial: 17
Operator: DNguye/CLingl
Inst : 01
Multiplr: 1.00
Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

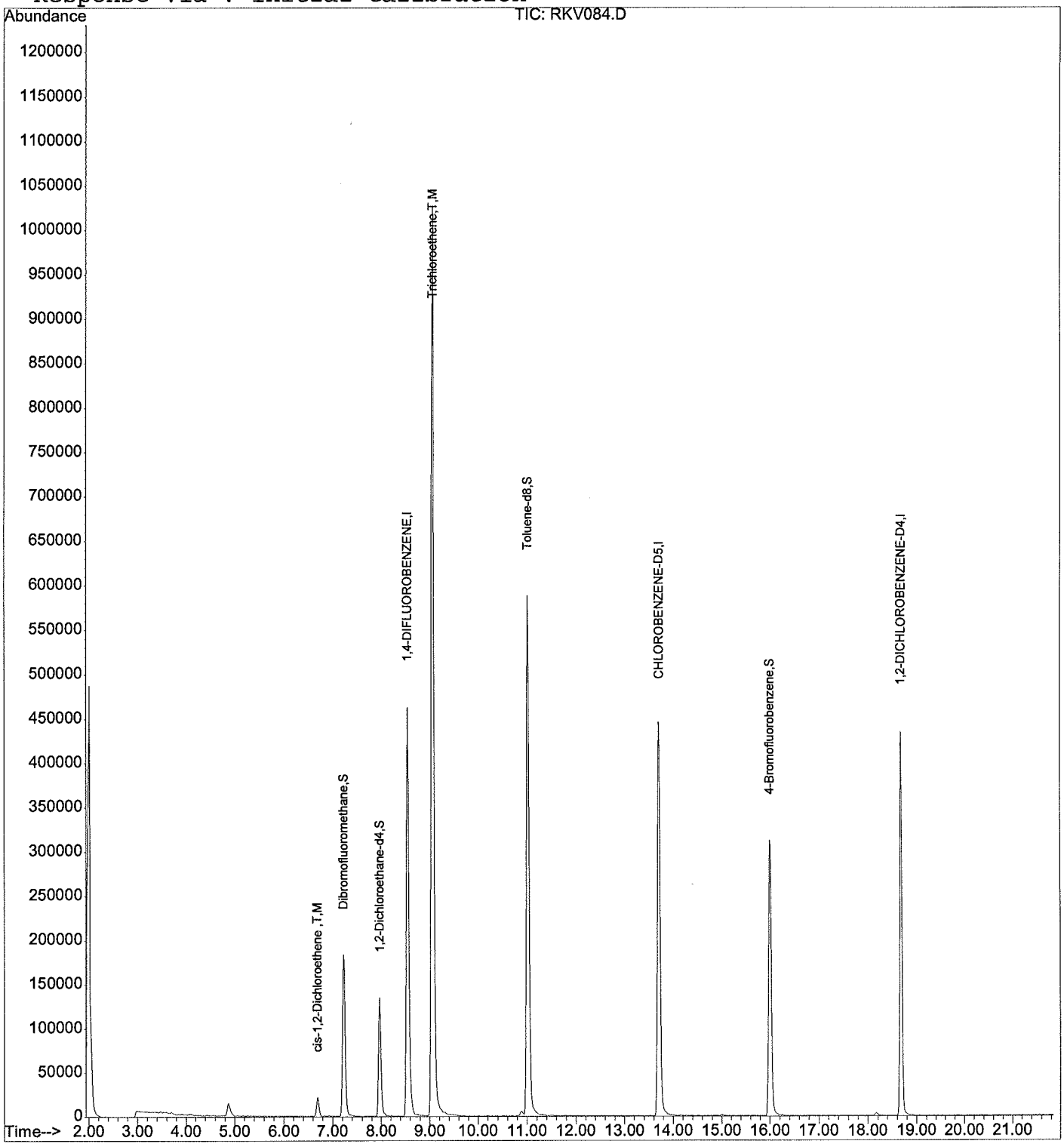
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	704705	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.71	117	559912	10.00	ug/l	0.02
72) 1,2-DICHLOROBENZENE-D4	18.67	152	229506	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	211768	11.50	ug/l	0.00
Spiked Amount 10.000			Recovery =	115.00%		
41) 1,2-Dichloroethane-d4	7.97	65	187107	11.54	ug/l	0.00
Spiked Amount 10.000			Recovery =	115.40%		
54) Toluene-d8	11.02	98	790003	10.26	ug/l	0.00
Spiked Amount 10.000			Recovery =	102.60%		
76) 4-Bromofluorobenzene	15.99	95	265483	9.77	ug/l	0.02
Spiked Amount 10.000			Recovery =	97.70%		
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	6.69	96	19231	0.85	ug/l	88
44) Trichloroethene	9.06	130	658262	30.85	ug/l	93

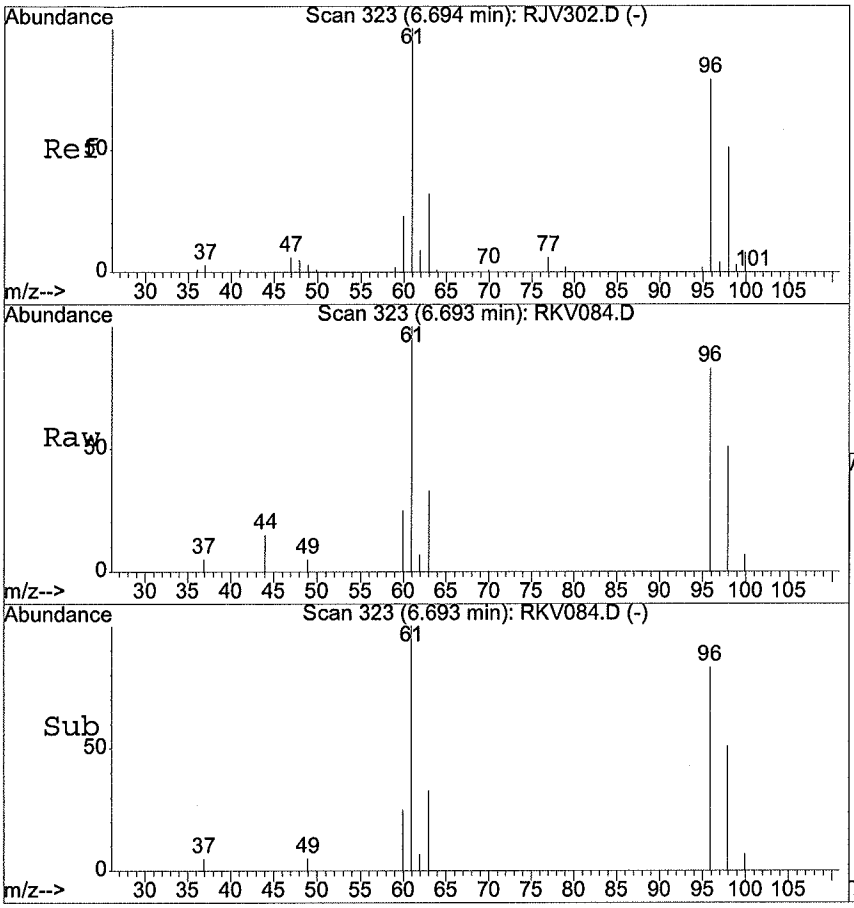
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV084.D Vial: 17
Acq On : 6 Nov 2024 3:34 pm Operator: DNguye/CLing
Sample : 24J168-15I 10X Inst : 01
Misc : 2.5mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 11:23 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

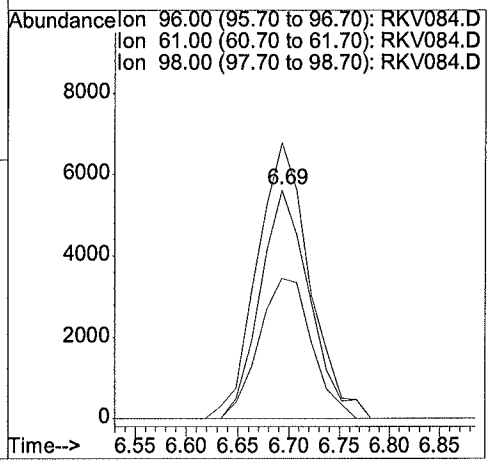


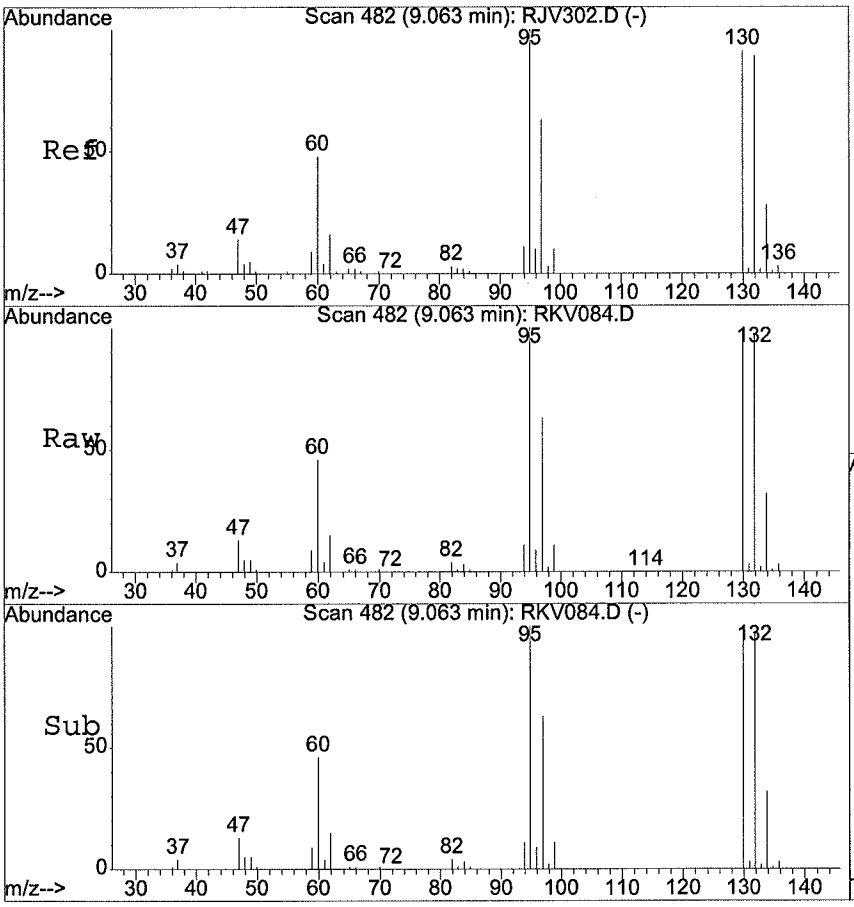


#30
cis-1,2-Dichloroethene
Concen: 0.85 ug/l
RT: 6.69 min Scan# 323
Delta R.T. -0.00 min
Lab File: RKV084.D
Acq: 6 Nov 2024 3:34 pm

Tgt Ion: 96 Resp: 19231

Ion	Ratio	Lower	Upper
96	100		
61	127.4	118.2	178.2
98	65.3	35.6	95.6

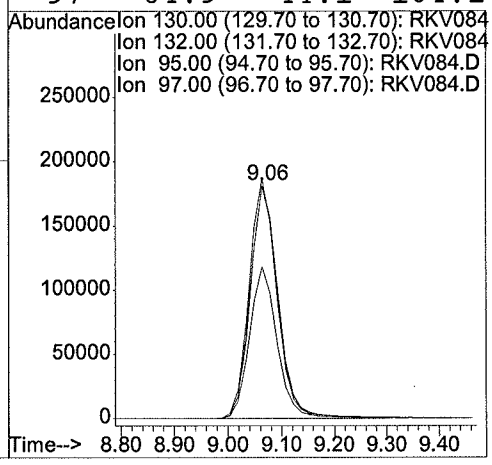




#44
Trichloroethene
Concen: 30.85 ug/l
RT: 9.06 min Scan# 482
Delta R.T. 0.00 min
Lab File: RKV084.D
Acq: 6 Nov 2024 3:34 pm

Tgt Ion:130 Resp: 658262

Ion	Ratio	Lower	Upper
130	100		
132	100.7	67.4	127.4
95	102.9	81.2	141.2
97	64.9	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 14:10
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 03:07
Sample ID	: T1AMF-EB001_OCT24	Date Analyzed:	11/05/24 03:07
Lab Samp ID:	24J168-16	Dilution Factor:	1
Lab File ID:	RKV047	Matrix:	WATER
Ext Btch ID:	V001K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.9	10.0	109	81-118
4-Bromofluorobenzene	9.97	10.0	100	85-114
Toluene-d8	10.7	10.0	107	89-112
Dibromofluoromethane	11.0	10.0	110	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV047.D Vial: 22
Acq On : 5 Nov 2024 3:07 am Operator: DNguye/CLingl
Sample : 24J168-16 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:18 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	628709	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	469708	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	187276	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	180783	11.01	ug/l	0.00
Spiked Amount 10.000			Recovery = 110.10%			
41) 1,2-Dichloroethane-d4	7.95	65	157654	10.90	ug/l	-0.02
Spiked Amount 10.000			Recovery = 109.00%			
54) Toluene-d8	11.00	98	689492	10.67	ug/l	-0.01
Spiked Amount 10.000			Recovery = 106.70%			
76) 4-Bromofluorobenzene	15.99	95	221134	9.97	ug/l	0.02
Spiked Amount 10.000			Recovery = 99.70%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

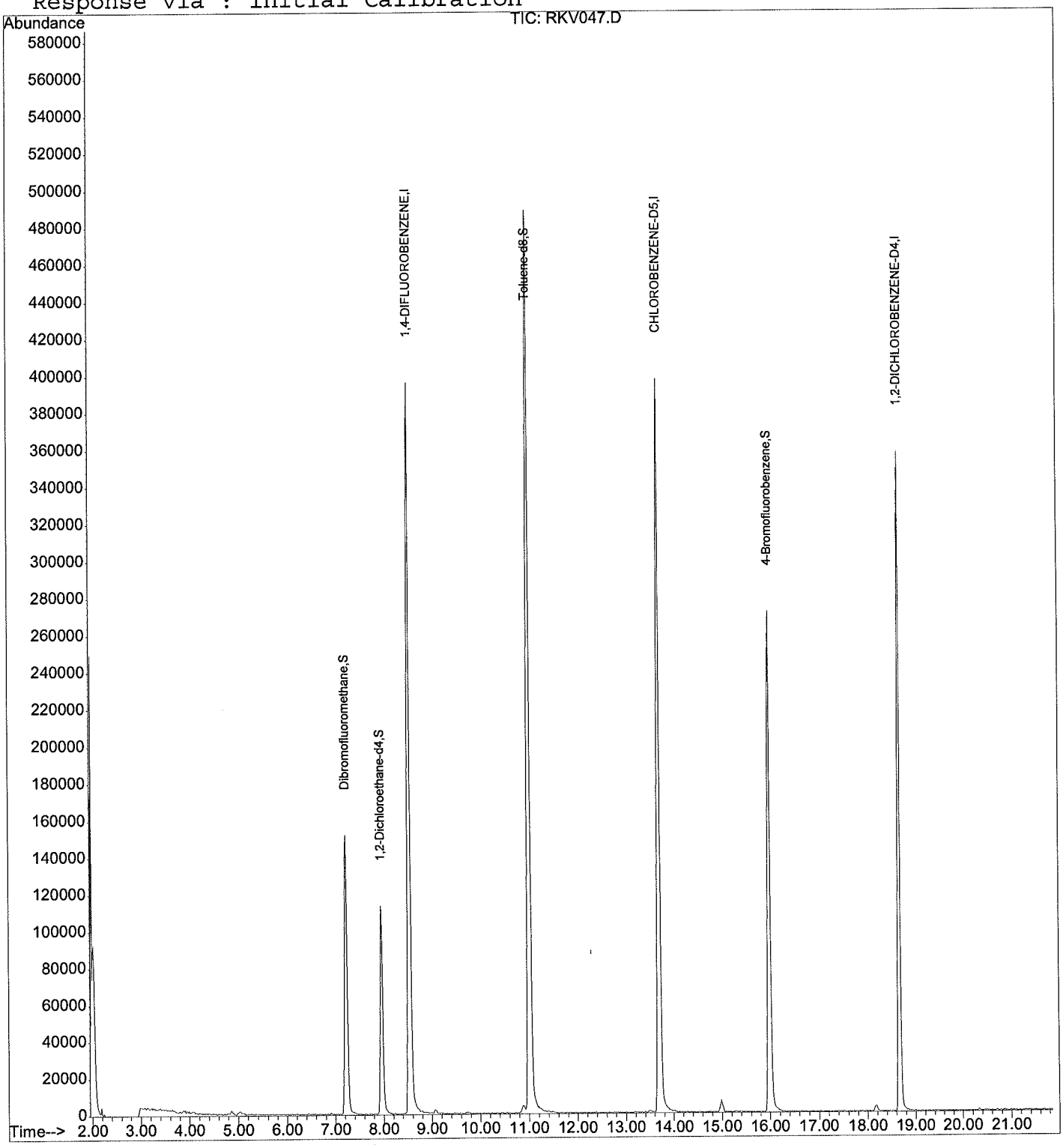
Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV047.D
Acq On : 5 Nov 2024 3:07 am
Sample : 24J168-16
Misc : 25mL
MS Integration Params: RTE.P
Quant Time: Nov 8 19:18 2024

Vial: 22
Operator: DNguye/CLing
Inst : 01
Multiplr: 1.00

Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 14:30
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 03:36
Sample ID	: T1AMF-EB002_OCT24	Date Analyzed:	11/05/24 03:36
Lab Samp ID:	24J168-17	Dilution Factor:	1
Lab File ID:	RKV048	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.3	10.0	113	81-118
4-Bromofluorobenzene	9.93	10.0	99	85-114
Toluene-d8	10.5	10.0	105	89-112
Dibromofluoromethane	11.3	10.0	113	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV048.D Vial: 23
Acq On : 5 Nov 2024 3:36 am Operator: DNguye/CLingl
Sample : 24J168-17 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:18 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	588733	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	441020	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	178242	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	174426	11.34	ug/l	0.00
Spiked Amount 10.000			Recovery = 113.40%			
41) 1,2-Dichloroethane-d4	7.95	65	152521	11.26	ug/l	-0.01
Spiked Amount 10.000			Recovery = 112.60%			
54) Toluene-d8	11.02	98	637670	10.51	ug/l	0.00
Spiked Amount 10.000			Recovery = 105.10%			
76) 4-Bromofluorobenzene	15.99	95	209595	9.93	ug/l	0.02
Spiked Amount 10.000			Recovery = 99.30%			
Target Compounds						Qvalue

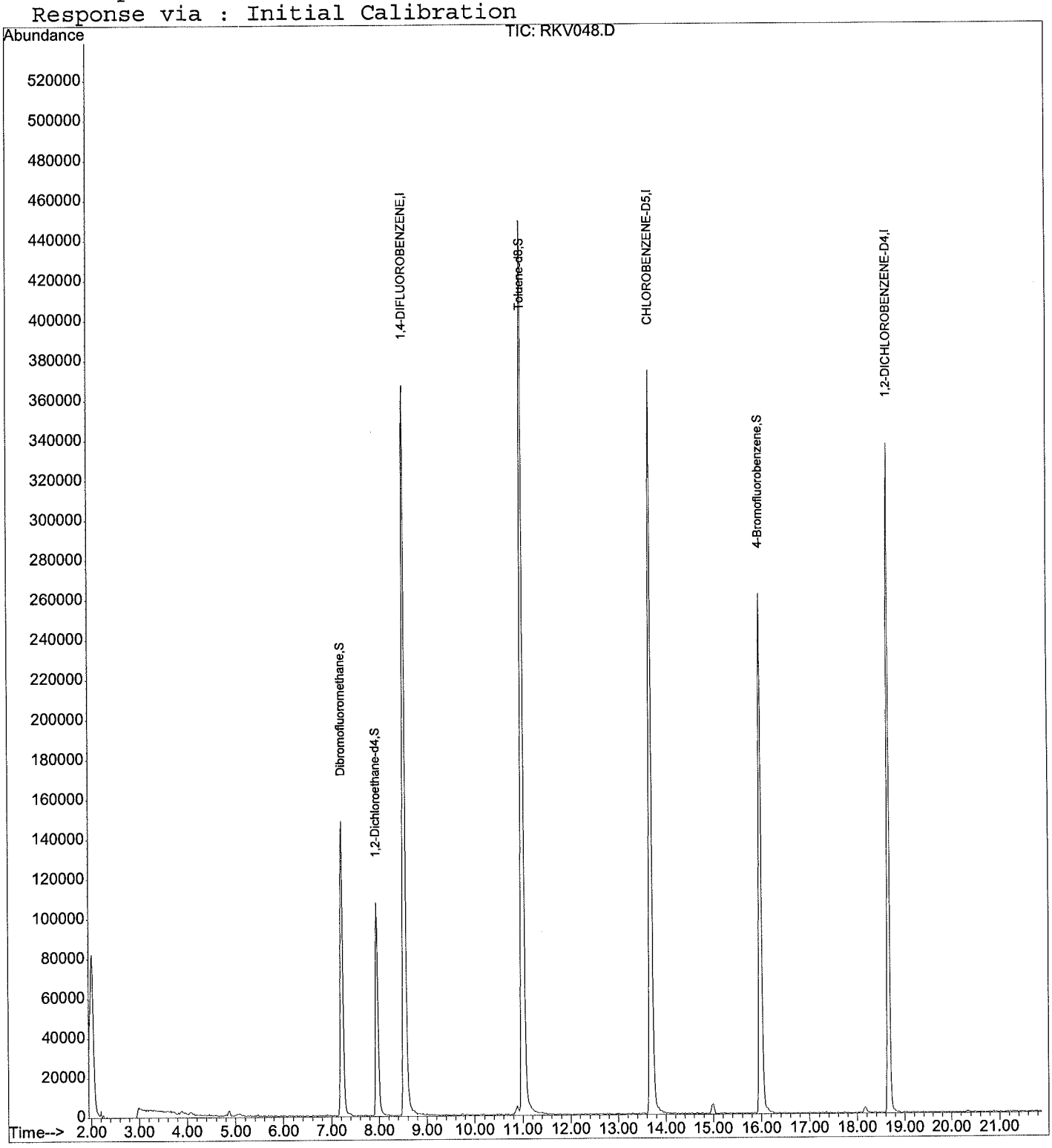
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV048.D
Acq On : 5 Nov 2024 3:36 am
Sample : 24J168-17
Misc : 25mL
MS Integration Params: RTE.P
Quant Time: Nov 8 19:18 2024

Vial: 23
Operator: DNguye/CLing
Inst : 01
Multiplr: 1.00
Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/24/24 15:00
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J168	Date Extracted:	11/05/24 04:05
Sample ID	: T1AMF-SB001_OCT24	Date Analyzed:	11/05/24 04:05
Lab Samp ID:	24J168-18	Dilution Factor:	1
Lab File ID:	RKV049	Matrix:	WATER
Ext Btch ID:	V001K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.6	10.0	106	81-118
4-Bromofluorobenzene	10.0	10.0	100	85-114
Toluene-d8	10.5	10.0	105	89-112
Dibromofluoromethane	10.7	10.0	107	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV049.D Vial: 24
Acq On : 5 Nov 2024 4:05 am Operator: DNguye/CLingl
Sample : 24J168-18 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:18 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	635254	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	475687	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	191222	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	177672	10.71	ug/l	0.00
Spiked Amount 10.000			Recovery = 107.10%			
41) 1,2-Dichloroethane-d4	7.95	65	155281	10.62	ug/l	-0.01
Spiked Amount 10.000			Recovery = 106.20%			
54) Toluene-d8	11.00	98	686503	10.49	ug/l	-0.01
Spiked Amount 10.000			Recovery = 104.90%			
76) 4-Bromofluorobenzene	15.98	95	226798	10.02	ug/l	0.00
Spiked Amount 10.000			Recovery = 100.20%			

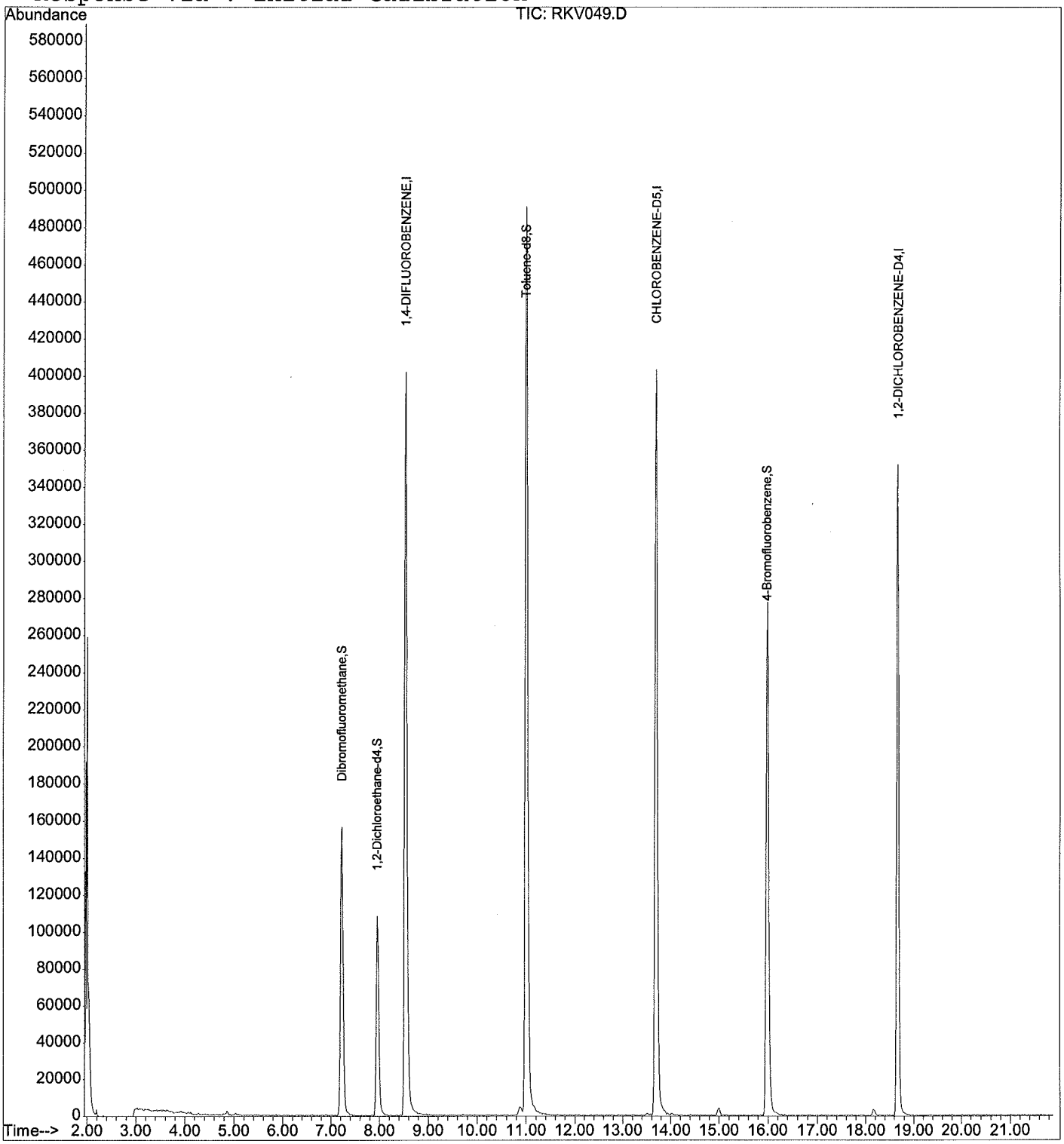
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration
RKV049.D VO01J12.M Fri Nov 08 19:19:01 2024 Page 1

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV049.D Vial: 24
Acq On : 5 Nov 2024 4:05 am Operator: DNguye/CLing
Sample : 24J168-18 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:18 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



QC SUMMARIES

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	11/04/24 19:26
Project	: TITAN 1-A	Date Received:	11/04/24
Batch No.	: 24J168	Date Extracted:	11/04/24 19:26
Sample ID	: MBLK1W	Date Analyzed:	11/04/24 19:26
Lab Samp ID:	VO01K02B	Dilution Factor:	1
Lab File ID:	RKV031	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	8.91	10.0	89	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	10.9	10.0	109	89-112
Dibromofluoromethane	10.3	10.0	103	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J168
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: VO01K02B	VO01K02L	VO01K02C
LAB FILE ID	: RKV031	RKV028	RKV029
DATE PREPARED	: 11/04/24 19:26	11/04/24 17:58	11/04/24 18:27
DATE ANALYZED	: 11/04/24 19:26	11/04/24 17:58	11/04/24 18:27
PREP BATCH	: VO01K02	VO01K02	VO01K02
CALIBRATION REF:	RJV302	RJV302	RJV302

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichloroethene	ND	10.0	9.72	97	10.0	10.0	100	3	71-131	20
1,4-Dichlorobenzene	ND	10.0	10.8	108	10.0	11.3	113	5	79-118	20
Benzene	ND	10.0	10.8	108	10.0	11.0	110	2	79-120	20
cis-1,2-Dichloroethene	ND	10.0	10.9	109	10.0	11.4	114	4	78-123	20
Ethylbenzene	ND	10.0	11.0	110	10.0	11.1	111	1	79-121	20
m,p-Xylene	ND	20.0	20.4	102	20.0	20.8	104	2	80-121	20
o-Xylene	ND	10.0	10.8	108	10.0	11.9	119	10	78-122	20
Toluene	ND	10.0	10.1	101	10.0	11.1	111	9	80-121	20
Trans-1,2-Dichloroethene	ND	10.0	9.91	99	10.0	10.1	101	2	75-124	20
Trichloroethene	ND	10.0	10.9	109	10.0	11.5	115	5	79-123	20
Vinyl Chloride	ND	10.0	9.50	95	10.0	10.0	100	5	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	9.38	94	10.0	9.37	94	81-118
4-Bromofluorobenzene	10.0	9.21	92	10.0	9.77	98	85-114
Toluene-d8	10.0	9.30	93	10.0	10.4	104	89-112
Dibromofluoromethane	10.0	10.3	103	10.0	10.5	105	80-119

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	11/06/24 10:08
Project	: TITAN 1-A	Date Received:	11/06/24
Batch No.	: 24J168	Date Extracted:	11/06/24 10:08
Sample ID	: MBLK2W	Date Analyzed:	11/06/24 10:08
Lab Samp ID:	VO01K04B	Dilution Factor:	1
Lab File ID:	RKV073	Matrix:	WATER
Ext Btch ID:	VO01K04	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	9.84	10.0	98	81-118
4-Bromofluorobenzene	9.73	10.0	97	85-114
Toluene-d8	10.5	10.0	105	89-112
Dibromofluoromethane	10.5	10.0	105	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J168
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK2W	LCS2W	LCD2W
LAB SAMPLE ID	: V001K04B	V001K04L	V001K04C
LAB FILE ID	: RKV073	RKV070	RKV071
DATE PREPARED	: 11/06/24 10:08	11/06/24 08:40	11/06/24 09:09
DATE ANALYZED	: 11/06/24 10:08	11/06/24 08:40	11/06/24 09:09
PREP BATCH	: V001K04	V001K04	V001K04
CALIBRATION REF	: RJV302	RJV302	RJV302

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichloroethene	ND	10.0	10.4	104	10.0	9.60	96	8	71-131	20
1,4-Dichlorobenzene	ND	10.0	11.0	110	10.0	10.7	107	3	79-118	20
Benzene	ND	10.0	10.5	105	10.0	10.3	103	2	79-120	20
cis-1,2-Dichloroethene	ND	10.0	10.9	109	10.0	10.6	106	3	78-123	20
Ethylbenzene	ND	10.0	11.0	110	10.0	10.4	104	6	79-121	20
m,p-Xylene	ND	20.0	20.9	105	20.0	19.2	96	8	80-121	20
o-Xylene	ND	10.0	13.4	134*	10.0	10.5	105	24*	78-122	20
Toluene	ND	10.0	10.8	108	10.0	8.66	87	22*	80-121	20
Trans-1,2-Dichloroethene	ND	10.0	10.2	102	10.0	9.83	98	4	75-124	20
Trichloroethene	ND	10.0	11.7	117	10.0	11.3	113	3	79-123	20
Vinyl Chloride	ND	10.0	10.7	107	10.0	9.11	91	16	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	10.2	102	10.0	9.44	94	81-118
4-Bromofluorobenzene	10.0	9.70	97	10.0	9.55	96	85-114
Toluene-d8	10.0	10.0	100	10.0	8.42	84*	89-112
Dibromofluoromethane	10.0	10.8	108	10.0	10.5	105	80-119

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate
* Out of QC Limit

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J168
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: T1AMF-MW044_OCT24	T1AMF-MW044_OCT24MS	T1AMF-MW044_OCT24MSD
LAB SAMPLE ID	: 24J168-06	24J168-06M	24J168-06S
LAB FILE ID	: RKV076	RKV088	RKV089
DATE PREPARED	: 11/06/24 11:36	11/06/24 17:33	11/06/24 18:03
DATE ANALYZED	: 11/06/24 11:36	11/06/24 17:33	11/06/24 18:03
PREP BATCH	: V001K04	V001K04	V001K04
CALIBRATION REF:	RJV302	RJV302	RJV302

ACCESSION:

PARAMETERS	PSResult (ug/L)	SpikeAmt (ug/L)	MSResult (ug/L)	MSRec (%)	SpikeAmt (ug/L)	MSDResult (ug/L)	MSDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichloroethene	ND	10.0	9.60	96	10.0	9.64	96	0	71-131	20
1,4-Dichlorobenzene	ND	10.0	10.5	105	10.0	10.1	101	4	79-118	20
Benzene	ND	10.0	10.5	105	10.0	10.7	107	2	79-120	20
cis-1,2-Dichloroethene	2.92	10.0	13.5	106	10.0	13.4	105	1	78-123	20
Ethylbenzene	ND	10.0	10.8	108	10.0	10.4	104	4	79-121	20
m,p-Xylene	ND	20.0	20.3	102	20.0	19.3	97	5	80-121	20
o-Xylene	ND	10.0	16.2	162*	10.0	12.3	123*	27*	78-122	20
Toluene	ND	10.0	10.7	107	10.0	10.2	102	5	80-121	20
trans-1,2-Dichloroethene	0.253J	10.0	10.0	97	10.0	10.1	98	1	75-124	20
Trichloroethene	71.0	10.0	72.5	15*	10.0	72.0	10*	1	79-123	20
Vinyl chloride	ND	10.0	10.2	102	10.0	9.48	95	7	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	MSResult (ug/L)	MSRec (%)	SpikeAmt (ug/L)	MSDResult (ug/L)	MSDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	11.3	113	10.0	11.0	110	81-118
4-Bromofluorobenzene	10.0	9.51	95	10.0	9.55	96	85-114
Toluene-d8	10.0	10.4	104	10.0	10.0	100	89-112
Dibromofluoromethane	10.0	11.4	114	10.0	11.0	110	80-119

PS: Parent Sample MS: Matrix Spike MSD: Matrix Spike Duplicate
* Out of QC Limit

QC DATA

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV031.D Vial: 6
Acq On : 4 Nov 2024 7:26 pm Operator: DNguye/CLingl
Sample : VO01K02B Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:07 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	957179	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	709126	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	274730	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	256428	10.26	ug/l	0.00
Spiked Amount 10.000			Recovery = 102.60%			
41) 1,2-Dichloroethane-d4	7.95	65	196309	8.91	ug/l	-0.01
Spiked Amount 10.000			Recovery = 89.10%			
54) Toluene-d8	11.00	98	1058201	10.85	ug/l	-0.01
Spiked Amount 10.000			Recovery = 108.50%			
76) 4-Bromofluorobenzene	15.98	95	328560	10.10	ug/l	0.00
Spiked Amount 10.000			Recovery = 101.00%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

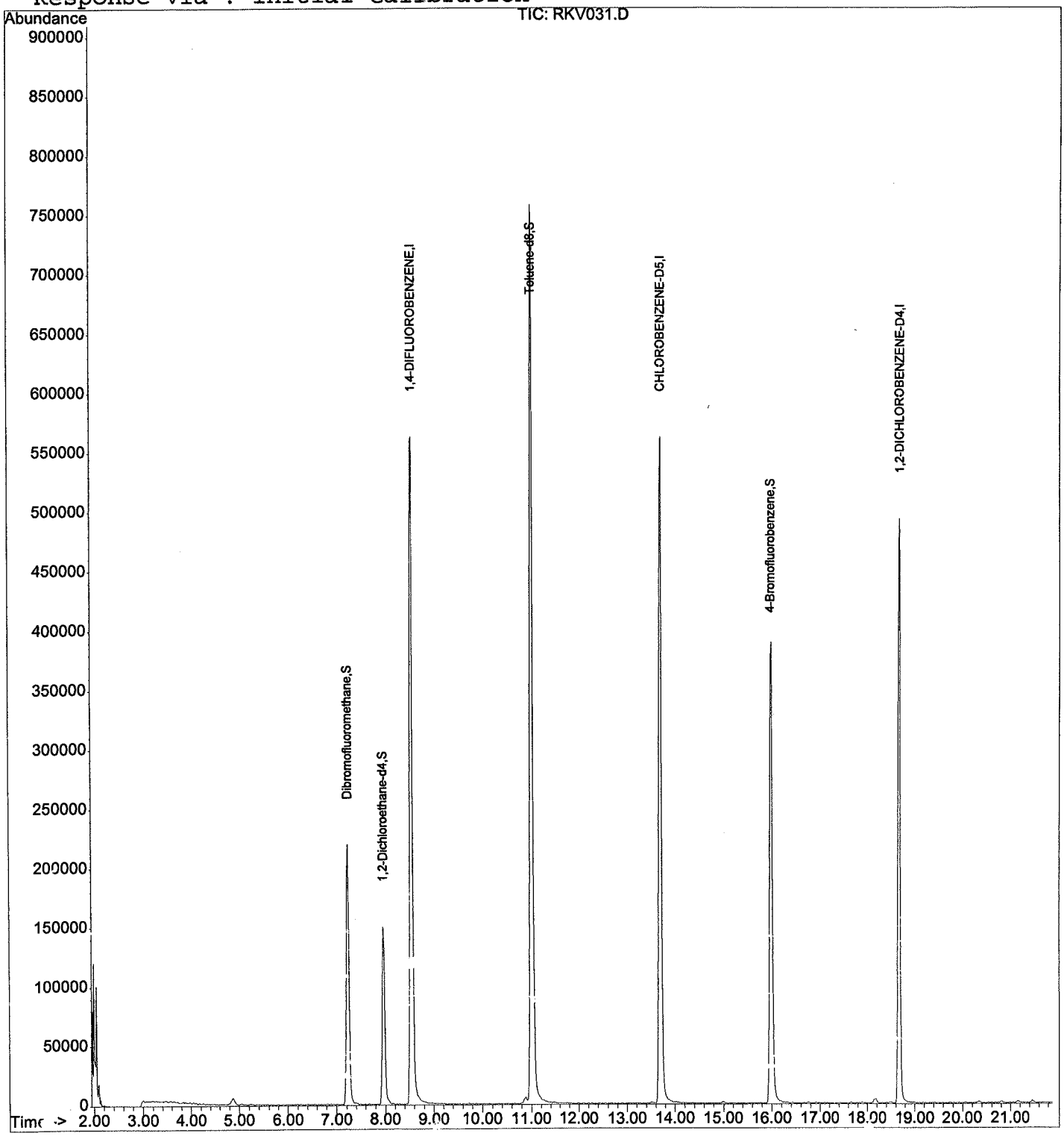
Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV031.D
Acq On : 4 Nov 2024 7:26 pm
Sample : VO01K02B
Misc : 25mL
MS Integration Params: RTE.P
Quant Time: Nov 8 19:07 2024

Vial: 6
Operator: DNguye/CLing
Inst : 01
Multiplr: 1.00

Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV028.D Vial: 3
Acq On : 4 Nov 2024 5:58 pm Operator: DNguye/CLingl
Sample : VO01K02L Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:45 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.53	114	947008	10.00	ug/l	-0.01
53) CHLOROBENZENE-D5	13.68	117	785265	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	18.67	152	362450	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.21	111	253804	10.26	ug/l	-0.01
Spiked Amount 10.000			Recovery = 102.60%			
41) 1,2-Dichloroethane-d4	7.95	65	204398	9.38	ug/l	-0.01
Spiked Amount 10.000			Recovery = 93.80%			
54) Toluene-d8	11.00	98	1004556	9.30	ug/l	-0.01
Spiked Amount 10.000			Recovery = 93.00%			
76) 4-Bromofluorobenzene	15.98	95	395091	9.21	ug/l	0.00
Spiked Amount 10.000			Recovery = 92.10%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.18	85	325753	8.37	ug/l	98
5) Chloromethane	2.48	50	269285	9.17	ug/l	99
6) Vinyl chloride	2.62	62	246037	9.50	ug/l	100
7) Bromomethane	3.15	94	202064m	10.82	ug/l	
8) Chloroethane	3.23	64	197671	10.07	ug/l	92
9) Dichlorofluoromethane	3.29	67	393656	10.95	ug/l	99
10) Trichlorofluoromethane	3.55	101	426449	10.12	ug/l	97
11) Acrolein	3.98	56	42647	58.90	ug/l	76
12) 1,1,2-Trichloro-1,2,2-trif	4.09	151	210442	12.14	ug/l	98
13) Acetone	4.06	43	191405	54.74	ug/l	90
14) 1,1-Dichloroethene	4.22	61	429397	9.72	ug/l	84
15) tert-Butyl alcohol	4.34	59	233953	267.41	ug/l	98
16) Iodomethane	4.64	142	418904	11.16	ug/l	94
17) Methyl acetate	4.65	43	93664	10.38	ug/l	95
18) Methylene chloride	4.86	49	314594	9.88	ug/l	90
19) Carbon disulfide	4.87	76	963608	10.43	ug/l	100
20) Acrylonitrile	5.04	53	190502	57.99	ug/l	99
21) tert-Butyl methyl ether (M	5.05	73	486776	11.13	ug/l	95
22) trans-1,2-Dichloroethene	5.24	61	420658	9.91	ug/l	95
23) Isopropyl ether (DIPE)	5.66	45	892239	10.04	ug/l	93
24) Vinyl acetate	5.82	43	278155	9.78	ug/l	94
25) 1,1-Dichloroethane	5.82	63	523384	10.52	ug/l	100
26) 2-Butanol	6.15	45	241413	329.31	ug/l #	82
27) tert-Butyl ethyl ether (ET	6.23	59	677102	10.48	ug/l	96
28) 2-Butanone	6.41	43	285902	53.32	ug/l	94
29) 2,2-Dichloropropane	6.62	77	464559	10.91	ug/l	99
30) cis-1,2-Dichloroethene	6.68	96	332789	10.92	ug/l	95

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV028.D Vial: 3
Acq On : 4 Nov 2024 5:58 pm Operator: DNguye/CLingl
Sample : VO01K02L Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:45 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.90	83	539356	10.64	ug/l		97
32)	Bromochloromethane	7.14	49	186231	9.88	ug/l		84
33)	Tetrahydrofuran	7.20	42	31352	10.52	ug/l		96
35)	1,1,1-Trichloroethane	7.48	97	464819	10.21	ug/l		98
36)	Cyclohexane	7.51	84	456400	9.71	ug/l		100
37)	2,2,4-Trimethylpentane	7.49	57	20022	8.81	ug/l	#	100
38)	1,1-Dichloropropene	7.72	110	144719	10.49	ug/l		98
39)	Carbon tetrachloride	7.86	119	365198	10.59	ug/l		98
40)	tert-Amyl methyl ether (TA	7.88	73	515611	10.39	ug/l		99
42)	Benzene	8.12	78	1166836	10.76	ug/l		98
43)	1,2-Dichloroethane	8.09	62	248649	10.29	ug/l		99
44)	Trichloroethene	9.05	130	313725	10.94	ug/l		93
45)	Methylcyclohexane	9.14	83	542231	9.76	ug/l		96
46)	1,2-Dichloropropane	9.33	63	258504	10.59	ug/l		99
47)	Bromodichloromethane	9.72	83	364361	10.91	ug/l		100
48)	1,4-Dioxane	9.76	88	19240	206.24	ug/l		99
49)	Dibromomethane	9.80	93	110617	10.44	ug/l		92
50)	2-Chloroethyl vinyl ether	10.22	63	24754	13.19	ug/l		96
51)	4-Methyl-2-pentanone	10.25	43	642038	53.55	ug/l		94
52)	cis-1,3-Dichloropropene	10.60	75	403432	11.03	ug/l		96
55)	Toluene	11.14	91	1261069	10.13	ug/l		99
56)	Ethyl methacrylate	11.43	69	195997	10.99	ug/l		89
57)	trans-1,3-Dichloropropene	11.46	75	303862	10.78	ug/l		97
58)	1,1,2-Trichloroethane	11.73	97	167311	10.92	ug/l		99
59)	2-Hexanone	11.73	43	416851	51.19	ug/l		91
60)	1,3-Dichloropropane	12.17	76	341323	11.83	ug/l		100
61)	Tetrachloroethene	12.28	164	305263	11.35	ug/l		97
62)	Dibromochloromethane	12.65	129	222374	12.18	ug/l		100
63)	1,2-Dibromoethane	13.00	107	169695	11.69	ug/l		97
64)	1-Chlorohexane	13.28	91	605138	10.41	ug/l		99
65)	Chlorobenzene	13.76	112	831815	11.16	ug/l		99
66)	1,1,1,2-Tetrachloroethane	13.83	131	278647	12.25	ug/l		100
67)	Ethylbenzene	13.86	91	1616698	10.98	ug/l		98
68)	m-Xylene & p-Xylene	13.99	91	2372783	20.40	ug/l		98
69)	o-Xylene	14.81	91	1244736	10.84	ug/l		99
70)	Styrene	14.89	104	947615	11.28	ug/l		99
71)	Isopropylbenzene	15.09	105	1692433	10.85	ug/l		99
73)	Bromoform	15.53	173	108759	10.44	ug/l		100
74)	trans-1,4-Dichloro-2-buten	15.61	53	51599	9.25	ug/l		90
75)	1,1,2,2-Tetrachloroethane	15.83	83	204019	10.66	ug/l		98
77)	1,2,3-Trichloropropane	16.13	110	56507	10.52	ug/l		94

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV028.D Vial: 3
Acq On : 4 Nov 2024 5:58 pm Operator: DNguye/CLingl
Sample : VO01K02L Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:45 2024 Quant Results File: VO01J12.RES

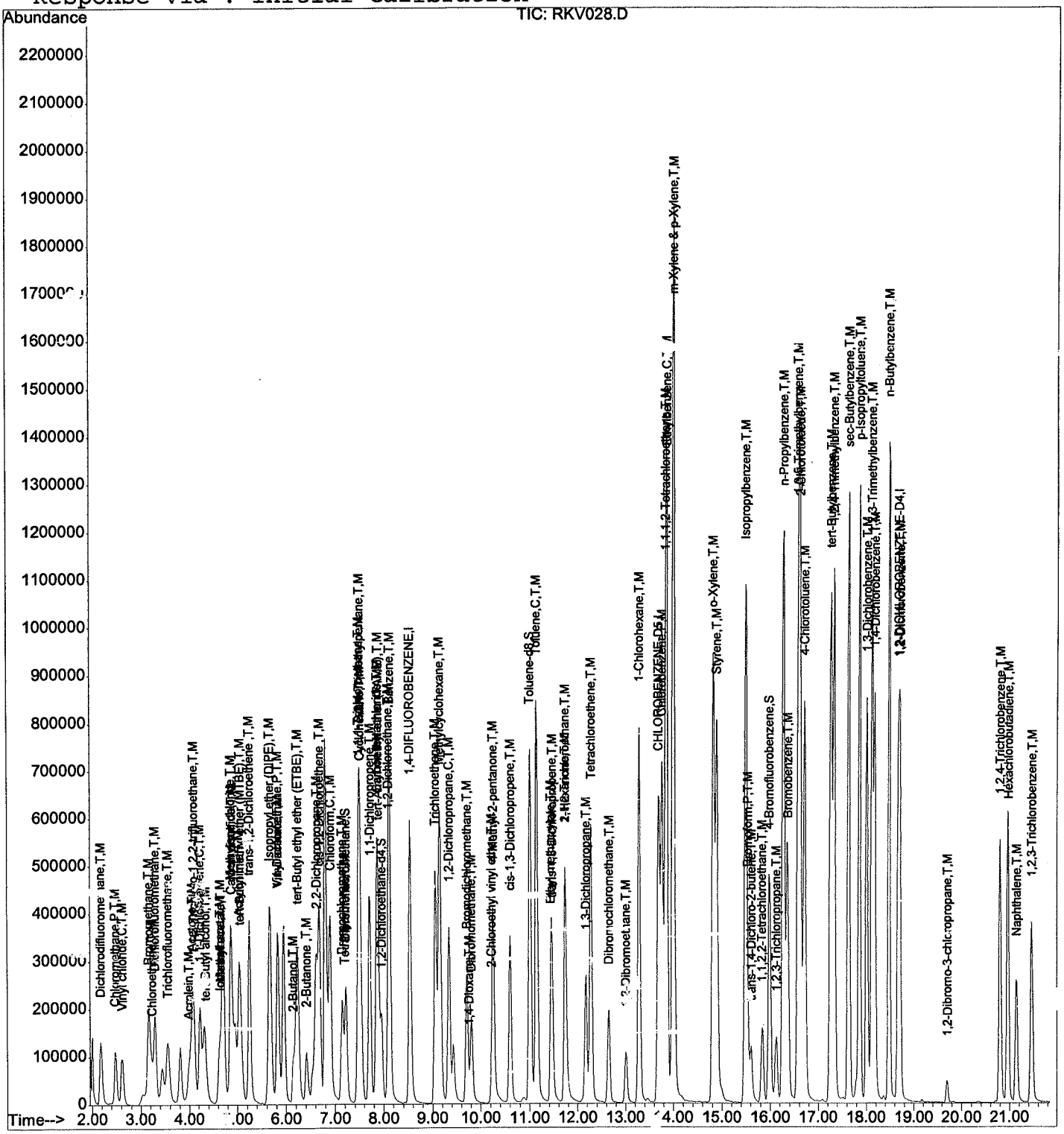
Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.28	91	2166508	10.09	ug/l	97
79)	Bromobenzene	16.36	156	367772	11.83	ug/l	99
80)	1,3,5-Trimethylbenzene	16.57	105	1343427	10.12	ug/l	97
81)	2-Chlorotoluene	16.62	91	1308453	10.03	ug/l	94
82)	4-Chlorotoluene	16.70	91	1151886	9.90	ug/l	94
83)	tert-Butylbenzene	17.27	134	333480	11.14	ug/l	92
84)	1,2,4-Trimethylbenzene	17.33	105	1322111	10.18	ug/l	97
85)	sec-Butylbenzene	17.64	105	1896449	10.14	ug/l	9[illegible]
86)	p-Isopropyltoluene	17.86	119	1457079	9.99	ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	706338	11.30	ug/l	97
88)	1,2,3-Trimethylbenzene	18.11	105	1175545	9.94	ug/l	97
89)	1,4-Dichlorobenzene	18.17	146	669061	10.77	ug/l	96
90)	n-Butylbenzene	18.47	91	1436365	9.00	ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	572950	11.24	ug/l	99
92)	1,2-Dibromo-3-chloropropan	19.71	157	29348	11.48	ug/l	96
93)	1,2,4-Trichlorobenzene	20.79	180	383952	11.13	ug/l	99
94)	Hexachlorobutadiene	20.97	225	252963	11.44	ug/l	100
95)	Naphthalene	21.15	128	466465	10.98	ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	286129	11.44	ug/l	99

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV028.D Vial: 3
Acq On : 4 Nov 2024 5:58 pm Operator: DNguye/CLing
Sample : VO01K02L Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:45 2024 Quant Results File: VO01J12.RES

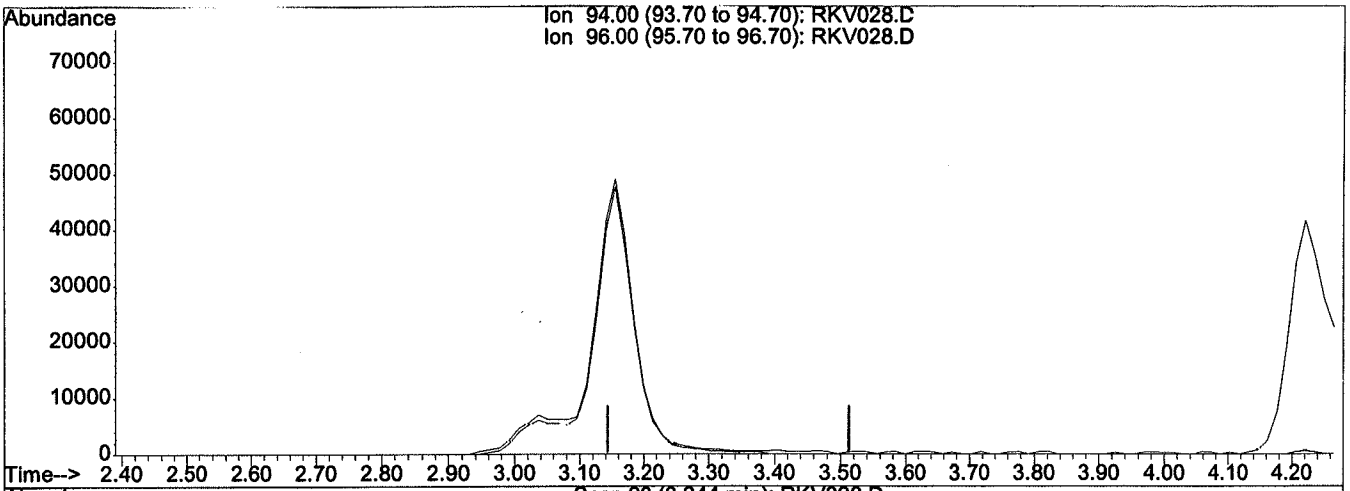
Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

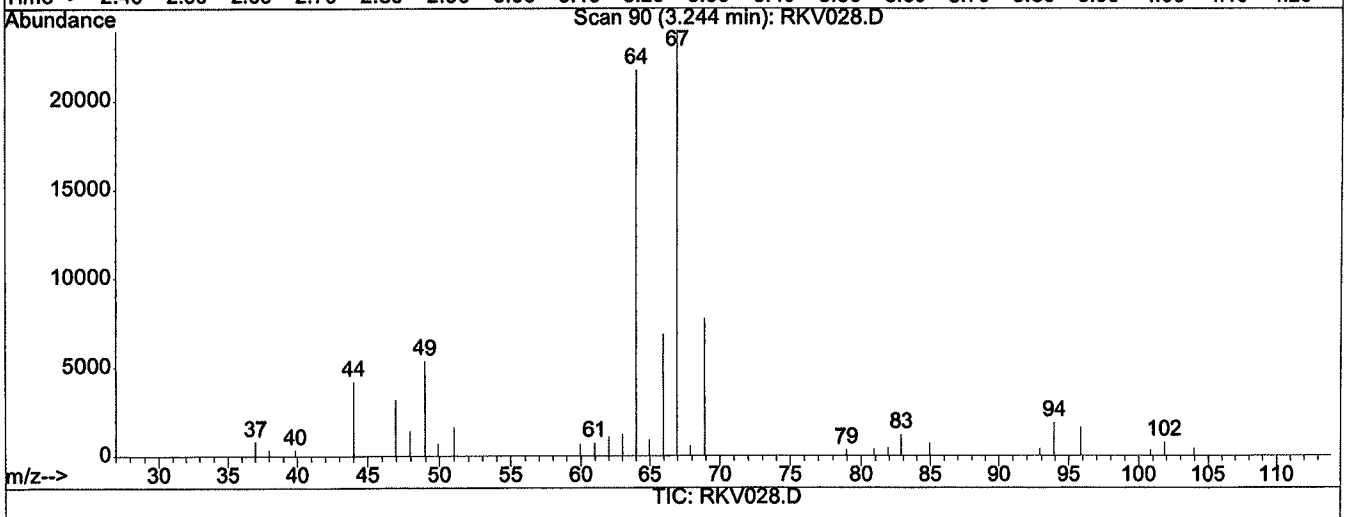


Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\24K04\RKV028.D Vial: 3
Acq On : 4 Nov 2024 5:58 pm Operator: DNguye/CLi
Sample : VO01K02L Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 4 18:20 2024 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration





TIC: RKV028.D

(7) Bromomethane (T,M)

3.24min 0.00ug/l

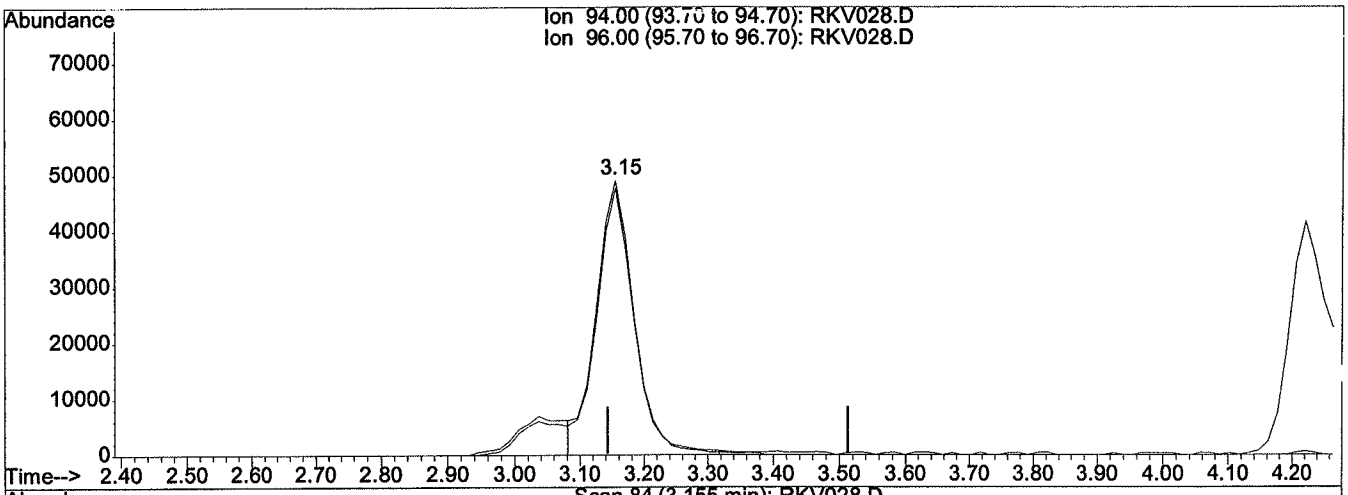
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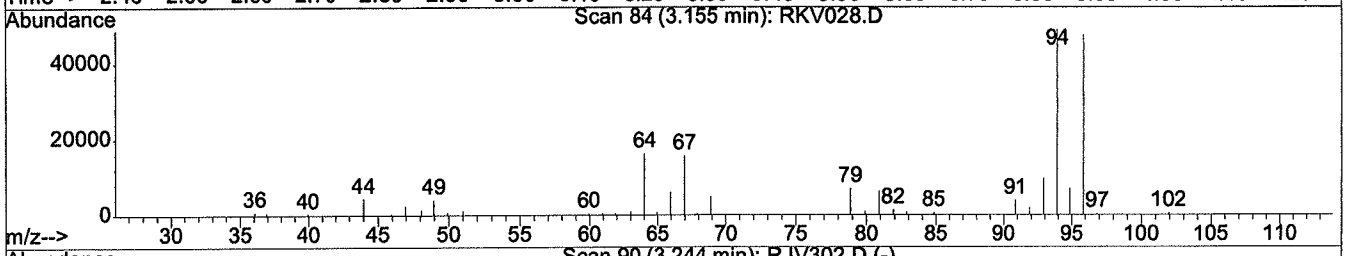
Ion	Exp%	Act%
94.00	100	0.00
96.00	98.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

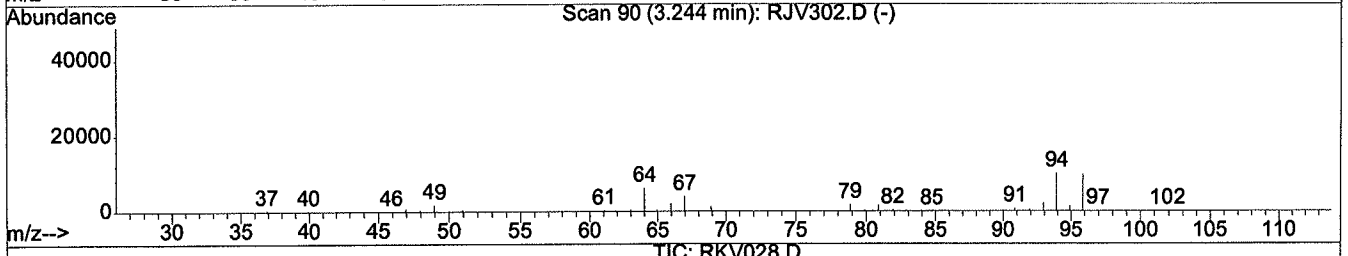
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\24K04\RKV028.D Vial: 3
Acq On : 4 Nov 2024 5:58 pm Operator: DNguye/CLi
Sample : VO01K02L Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:45 2024 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration







TIC: RKV028.D

(7) Bromomethane (T,M)

3.15min 10.82ug/l m

response 202064

Ion	Exp%	Act%
94.00	100	100
96.00	96.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

☐ Incorrect Retention Time
☑ Incorrect Baseline
☐ Incorrect Integration
☐ Other _____

Initials CL 11/6/24

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV029.D Vial: 4
Acq On : 4 Nov 2024 6:27 pm Operator: DNguye/CLingl
Sample : VO01K02C Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:46 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	893647	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	696021	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	351155	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.21	111	245397	10.51	ug/l	-0.01
Spiked Amount 10.000			Recovery = 105.10%			
41) 1,2-Dichloroethane-d4	7.95	65	192725	9.37	ug/l	-0.01
Spiked Amount 10.000			Recovery = 93.70%			
54) Toluene-d8	11.00	98	991849	10.36	ug/l	-0.01
Spiked Amount 10.000			Recovery = 103.60%			
76) 4-Bromofluorobenzene	15.98	95	406332	9.77	ug/l	0.00
Spiked Amount 10.000			Recovery = 97.70%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.19	85	323989	8.83	ug/l	99
5) Chloromethane	2.49	50	265907	9.60	ug/l	99
6) Vinyl chloride	2.62	62	244473	10.01	ug/l	100
7) Bromomethane	3.17	94	201676m	11.45	ug/l	
8) Chloroethane	3.23	64	191261	10.33	ug/l	92
9) Dichlorofluoromethane	3.30	67	379640	11.19	ug/l	97
10) Trichlorofluoromethane	3.57	101	407370	10.25	ug/l	98
11) Acrolein	3.98	56	44665	65.37	ug/l	95
12) 1,1,2-Trichloro-1,2,2-trif	4.09	151	212281	12.97	ug/l	97
13) Acetone	4.07	43	181840	55.10	ug/l	89
14) 1,1-Dichloroethene	4.22	61	418821	10.05	ug/l	81
15) tert-Butyl alcohol	4.34	59	225844	273.56	ug/l	95
16) Iodomethane	4.64	142	422102	11.92	ug/l	93
17) Methyl acetate	4.67	43	85389	10.03	ug/l	91
18) Methylene chloride	4.86	49	301911	10.05	ug/l	88
19) Carbon disulfide	4.87	76	899490	10.31	ug/l	100
20) Acrylonitrile	5.04	53	185945	59.99	ug/l	98
21) tert-Butyl methyl ether (M	5.05	73	476460	11.54	ug/l	95
22) trans-1,2-Dichloroethene	5.24	61	402466	10.03	ug/l	94
23) Isopropyl ether (DIPE)	5.67	45	863571	10.30	ug/l	92
24) Vinyl acetate	5.84	43	267534	9.97	ug/l	93
25) 1,1-Dichloroethane	5.82	63	517008	11.01	ug/l	99
26) 2-Butanol	6.15	45	228536	330.35	ug/l	85
27) tert-Butyl ethyl ether (ET	6.23	59	655141	10.75	ug/l	96
28) 2-Butanone	6.41	43	268724	53.11	ug/l	92
29) 2,2-Dichloropropane	6.62	77	454637	11.32	ug/l	99
30) cis-1,2-Dichloroethene	6.68	96	328409	11.42	ug/l	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV029.D Vial: 4
Acq On : 4 Nov 2024 6:27 pm Operator: DNguye/CLingl
Sample : VO01K02C Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:46 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.90	83	525466	10.98	ug/l		97
32)	Bromochloromethane	7.14	49	179514	10.09	ug/l		83
33)	Tetrahydrofuran	7.20	42	26955	9.59	ug/l		98
35)	1,1,1-Trichloroethane	7.48	97	462457	10.76	ug/l		98
36)	Cyclohexane	7.51	84	448537	10.12	ug/l		100
37)	2,2,4-Trimethylpentane	7.49	57	20429	9.52	ug/l	#	100
38)	1,1-Dichloropropene	7.72	110	146590	11.27	ug/l		99
39)	Carbon tetrachloride	7.86	119	359393	11.05	ug/l		99
40)	tert-Amyl methyl ether (TA	7.88	73	495155	10.57	ug/l		99
42)	Benzene	8.12	78	1124015	10.98	ug/l		97
43)	1,2-Dichloroethane	8.09	62	243160	10.66	ug/l		100
44)	Trichloroethene	9.06	130	311958	11.53	ug/l		93
45)	Methylcyclohexane	9.15	83	532389	10.15	ug/l		94
46)	1,2-Dichloropropane	9.33	63	253705	11.02	ug/l		99
47)	Bromodichloromethane	9.71	83	354003	11.23	ug/l		99
48)	1,4-Dioxane	9.77	88	18448	209.56	ug/l		95
49)	Dibromomethane	9.80	93	106166	10.61	ug/l		91
50)	2-Chloroethyl vinyl ether	10.20	63	22889	12.95	ug/l		92
51)	4-Methyl-2-pentanone	10.25	43	609871	53.90	ug/l		94
52)	cis-1,3-Dichloropropene	10.60	75	394179	11.42	ug/l		97
55)	Toluene	11.14	91	1227579	11.13	ug/l		100
56)	Ethyl methacrylate	11.43	69	186609	11.81	ug/l		88
57)	trans-1,3-Dichloropropene	11.46	75	292261	11.70	ug/l		97
58)	1,1,2-Trichloroethane	11.73	97	169059	12.45	ug/l		99
59)	2-Hexanone	11.73	43	403708	55.93	ug/l		90
60)	1,3-Dichloropropane	12.17	76	296969	11.61	ug/l		100
61)	Tetrachloroethene	12.28	164	277690	11.65	ug/l		97
62)	Dibromochloromethane	12.65	129	201993	12.49	ug/l		98
63)	1,2-Dibromoethane	13.00	107	149542	11.62	ug/l		98
64)	1-Chlorohexane	13.28	91	536113	10.40	ug/l		100
65)	Chlorobenzene	13.76	112	754764	11.43	ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	258103	12.80	ug/l		98
67)	Ethylbenzene	13.86	91	144784	11.09	ug/l		99
68)	m-Xylene & p-Xylene	13.99	91	2147875	20.84	ug/l		98
69)	o-Xylene	14.81	91	1211205	11.90	ug/l		99
70)	Styrene	14.88	104	925949	12.43	ug/l		98
71)	Isopropylbenzene	15.49	105	1663257	12.03	ug/l		98
73)	Bromoform	15.53	173	108126	10.70	ug/l		99
74)	trans-1,4-Dichloro-2-buten	15.61	53	48378	8.95	ug/l		84
75)	1,1,2,2-Tetrachloroethane	15.83	83	213191	11.50	ug/l		100
77)	1,2,3-Trichloropropane	16.13	110	58372	11.22	ug/l		90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV029.D Vial: 4
Acq On : 4 Nov 2024 6:27 pm Operator: DNguye/CLingl
Sample : VO01K02C Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:46 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

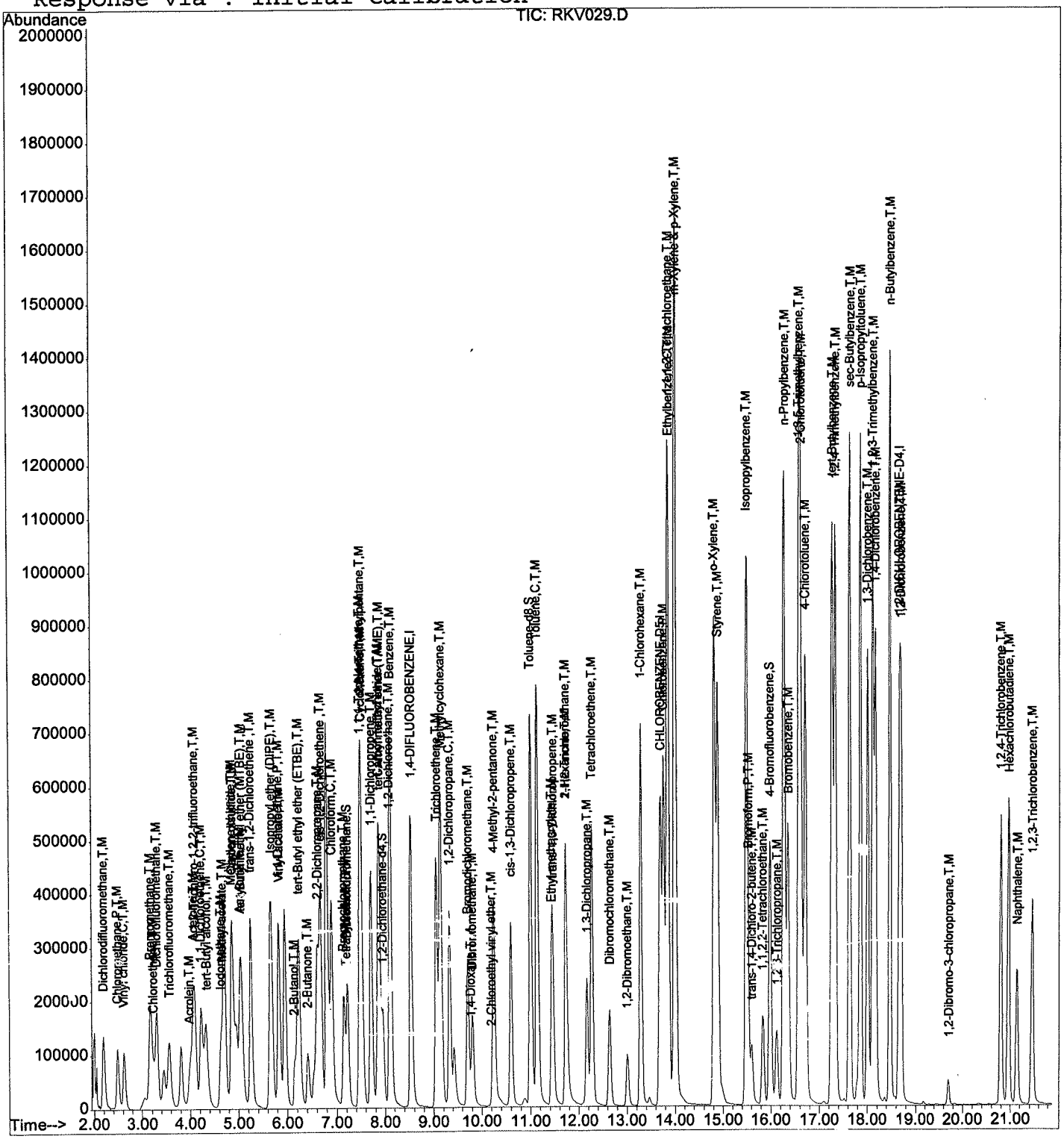
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.27	91	2121712	10.20	ug/l	97
79)	Bromobenzene	16.36	156	356998	11.85	ug/l	99
80)	1,3,5-Trimethylbenzene	16.57	105	1297674	10.09	ug/l	96
81)	2-Chlorotoluene	16.62	91	1280569	10.13	ug/l	94
82)	4-Chlorotoluene	16.70	91	1132223	10.04	ug/l	93
83)	tert-Butylbenzene	17.27	134	325268	11.22	ug/l	94
84)	1,2,4-Trimethylbenzene	17.33	105	1264793	10.05	ug/l	96
85)	sec-Butylbenzene	17.64	105	1842546	10.17	ug/l	97
86)	p-Isopropyltoluene	17.86	119	1447402	10.24	ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	695641	11.49	ug/l	97
88)	1,2,3-Trimethylbenzene	18.11	105	1174230	10.25	ug/l	96
89)	1,4-Dichlorobenzene	18.17	146	678157	11.27	ug/l	96
90)	n-Butylbenzene	18.47	91	1431934	9.26	ug/l	97
91)	1,2-Dichlorobenzene	18.70	146	563155	11.40	ug/l	98
92)	1,2-Dibromo-3-chloropropan	19.71	157	27772	11.21	ug/l	99
93)	1,2,4-Trichlorobenzene	20.79	180	379172	11.34	ug/l	99
94)	Hexachlorobutadiene	20.97	225	242307	11.31	ug/l	97
95)	Naphthalene	21.15	128	456502	11.09	ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	289802	11.96	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV029.D Vial: 4
Acq On : 4 Nov 2024 6:27 pm Operator: DNguye/CLing
Sample : VO01K02C Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:46 2024 Quant Results File: VO01J12.RES

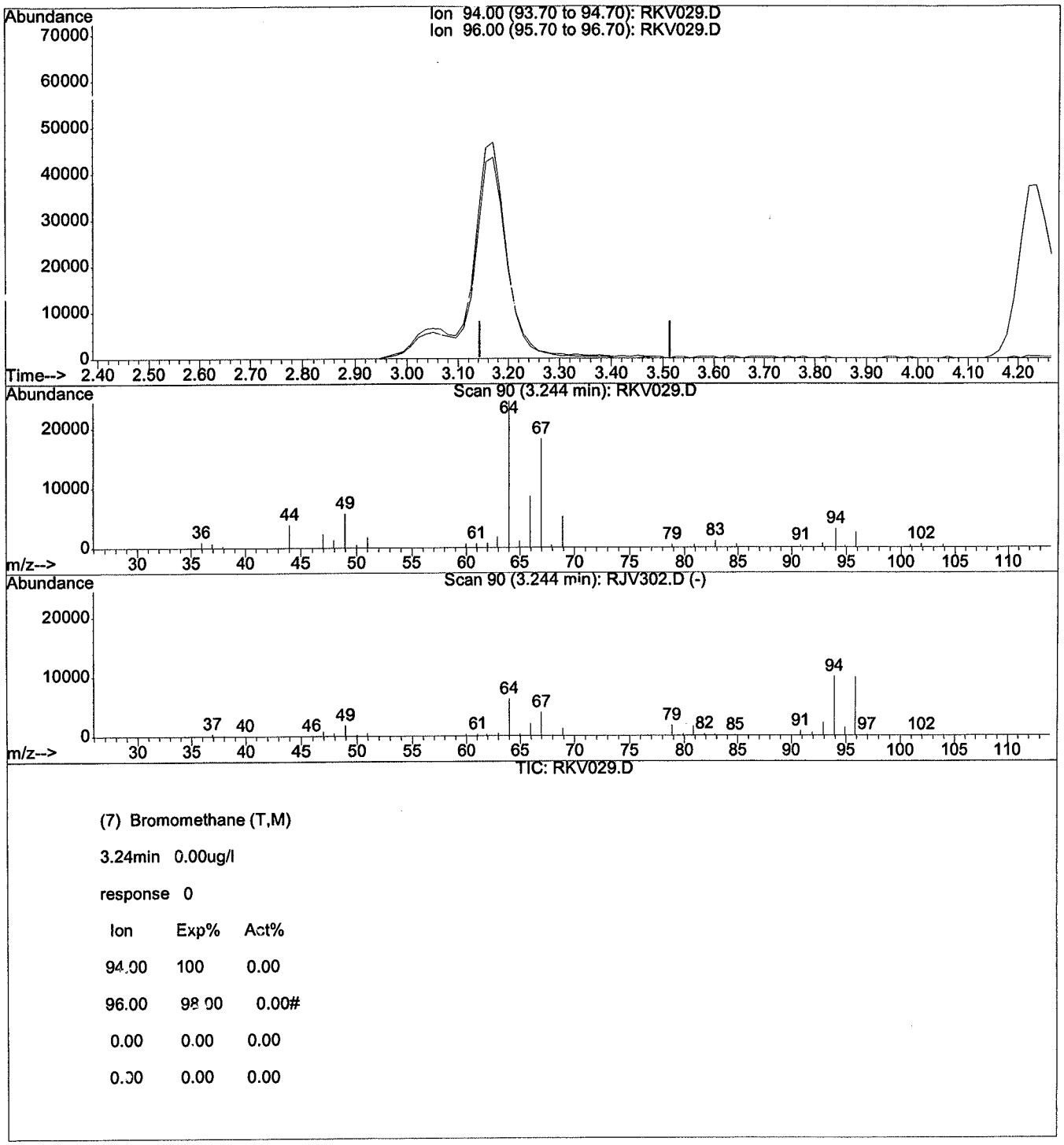
Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\24K04\RKV029.D Vial: 4
Acq On : 4 Nov 2024 6:27 pm Operator: DNguye/CLi
Sample : VO01K02C Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 4 18:49 2024 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration



TIC: RKV029.D

(7) Bromomethane (T,M)

3.24min 0.00ug/l

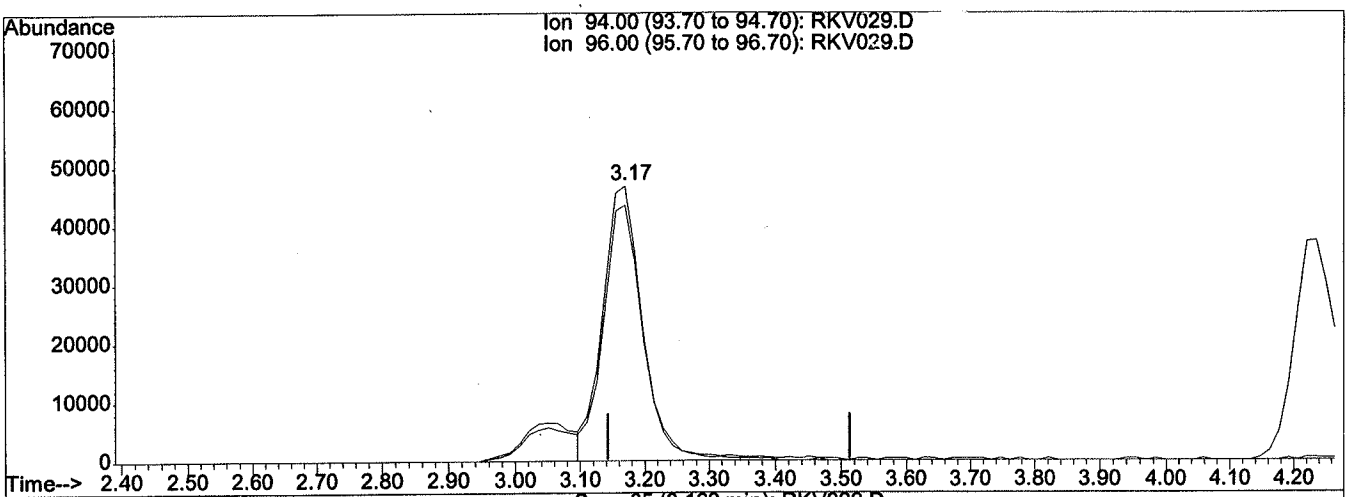
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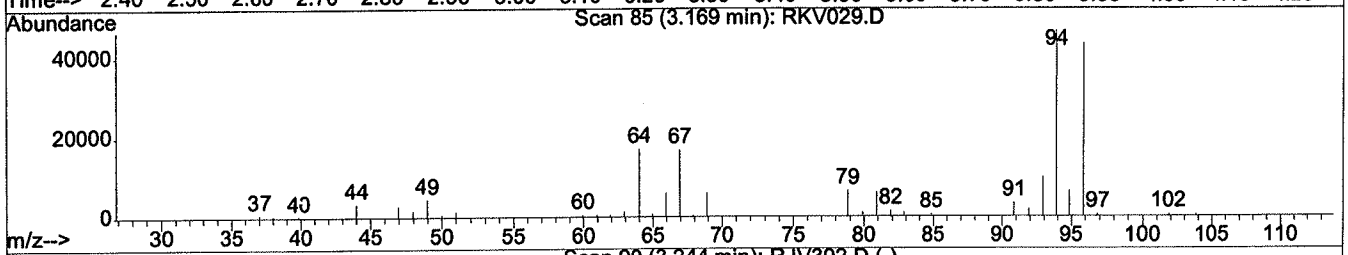
Ion	Exp%	Act%
94.00	100	0.00
96.00	98.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

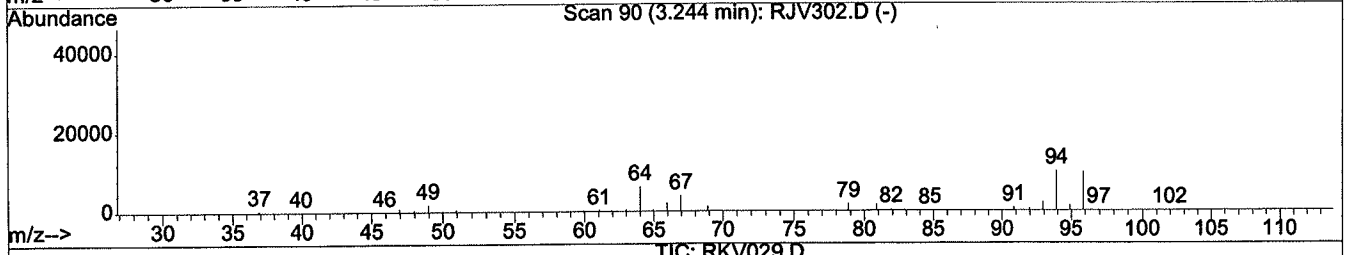
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\24K04\RKV029.D Vial: 4
Acq On : 4 Nov 2024 6:27 pm Operator: DNguye/CLi
Sample : VO01K02C Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:46 2024 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration







TIC: RKV029.D

(7) Bromomethane (T,M)

3.17min 11.45ug/l m

response 201676

Ion	Exp%	Act%
94.00	100	100
96.00	98.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

☐ Incorrect Retention Time.
☐ Incorrect Baseline
☑ Incorrect Integration
☐ Other _____

Initials CL 11/6/24

RKV029.D VO01J12.M Wed Nov 06 17:46:35 2024

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV073.D Vial: 6
Acq On : 6 Nov 2024 10:08 am Operator: DNguye/CLingl
Sample : VO01K04B Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 16:33 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	1037828	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	780396	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	320040	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	284861	10.51	ug/l	0.00
Spiked Amount 10.000			Recovery =	105.10%		
41) 1,2-Dichloroethane-d4	7.97	65	235088	9.84	ug/l	0.00
Spiked Amount 10.000			Recovery =	98.40%		
54) Toluene-d8	11.02	98	1126251	10.49	ug/l	0.00
Spiked Amount 10.000			Recovery =	104.90%		
76) 4-Bromofluorobenzene	15.99	95	368761	9.73	ug/l	0.02
Spiked Amount 10.000			Recovery =	97.30%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
RKV073.D VO01J12.M Fri Nov 08 16:33:26 2024 Page 1

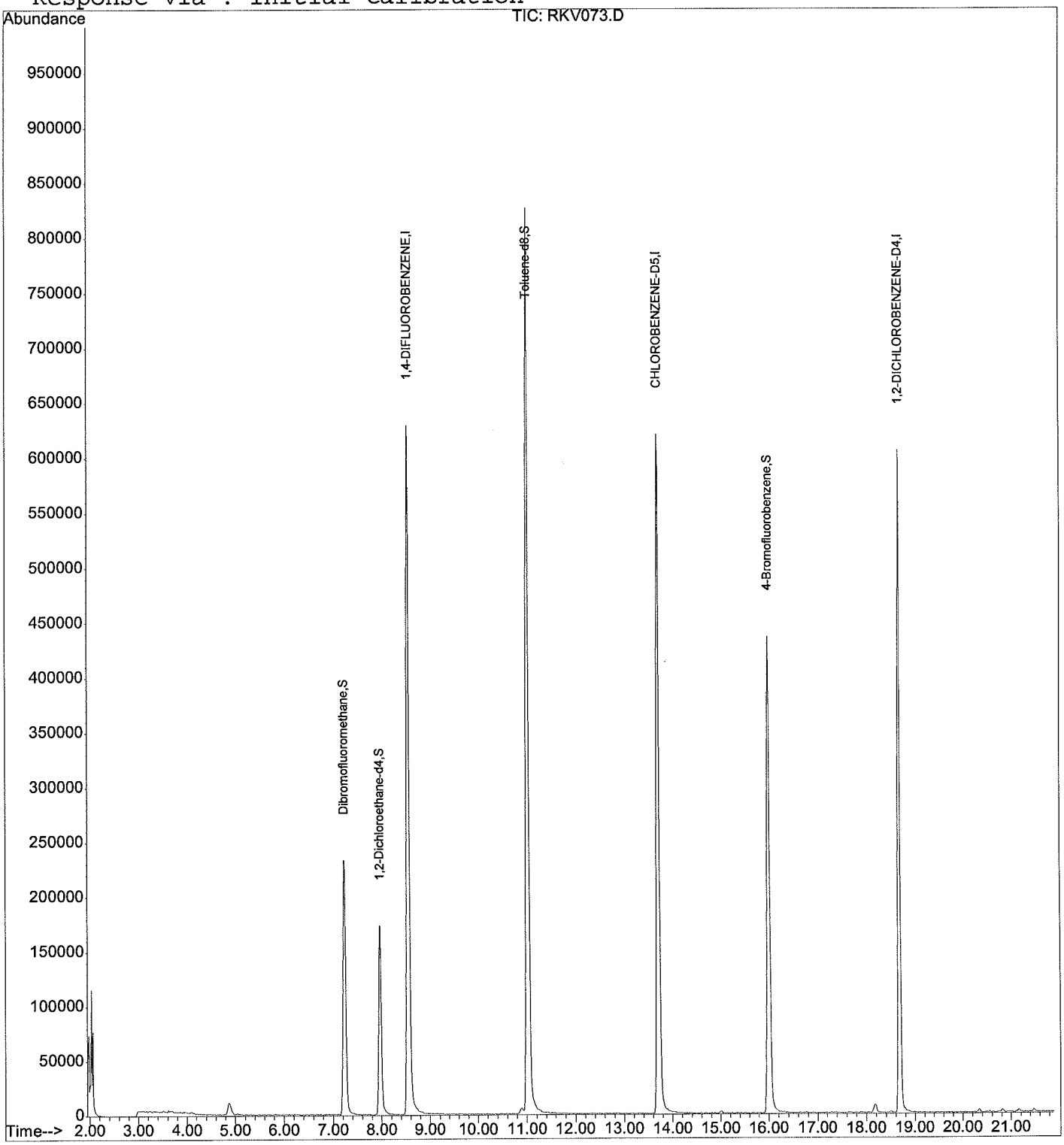
Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV073.D
Acq On : 6 Nov 2024 10:08 am
Sample : VO01K04B
Misc : 25mL
MS Integration Params: RTE.P
Quant Time: Nov 8 16:33 2024

Vial: 6
Operator: DNguye/CLing
Inst : 01
Multiplr: 1.00

Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV070.D Vial: 3
Acq On : 6 Nov 2024 8:40 am Operator: DNguye/CLingl
Sample : VO01K04L Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 9:02 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.56	114	884248	10.00	ug/l	0.02
53) CHLOROBENZENE-D5	13.71	117	712257	10.00	ug/l	0.02
72) 1,2-DICHLOROBENZENE-D4	18.67	152	428576	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.24	111	250367	10.84	ug/l	0.01
Spiked Amount 10.000			Recovery = 108.40%			
41) 1,2-Dichloroethane-d4	7.97	65	206849	10.17	ug/l	0.00
Spiked Amount 10.000			Recovery = 101.70%			
54) Toluene-d8	11.02	98	980457	10.01	ug/l	0.00
Spiked Amount 10.000			Recovery = 100.10%			
76) 4-Bromofluorobenzene	15.99	95	492139	9.70	ug/l	0.02
Spiked Amount 10.000			Recovery = 97.00%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.22	85	378805	10.43	ug/l	99
5) Chloromethane	2.53	50	255316	9.31	ug/l	99
6) Vinyl chloride	2.66	62	257548	10.65	ug/l	99
7) Bromomethane	3.20	94	134011	7.69	ug/l	99
8) Chloroethane	3.23	64	192404	10.50	ug/l	100
9) Dichlorofluoromethane	3.33	67	385411	11.48	ug/l	97
10) Trichlorofluoromethane	3.60	101	469107	11.93	ug/l	99
11) Acrolein	4.01	56	38949	57.61	ug/l	72
12) 1,1,2-Trichloro-1,2,2-trif	4.13	151	211068	13.04	ug/l	98
13) Acetone	4.09	43	180217	55.19	ug/l	96
14) 1,1-Dichloroethene	4.25	61	427752	10.37	ug/l	98
15) tert-Butyl alcohol	4.37	59	209300	256.21	ug/l	98
16) Iodomethane	4.65	142	403490	11.51	ug/l	98
17) Methyl acetate	4.68	43	77116	9.16	ug/l	92
18) Methylene chloride	4.87	49	304538	10.24	ug/l	93
19) Carbon disulfide	4.90	76	911384	10.56	ug/l	100
20) Acrylonitrile	5.05	53	163754	53.39	ug/l	97
21) tert-Butyl methyl ether (M	5.08	73	447151	10.95	ug/l	98
22) trans-1,2-Dichloroethene	5.27	61	403077	10.17	ug/l	98
23) Isopropyl ether (DIPE)	5.67	45	798955	9.63	ug/l	95
24) Vinyl acetate	5.85	43	262527	9.89	ug/l	95
25) 1,1-Dichloroethane	5.85	63	503209	10.83	ug/l	100
26) 2-Butanol	6.16	45	208333	304.35	ug/l	90
27) tert-Butyl ethyl ether (ET	6.25	59	622326	10.32	ug/l	96
28) 2-Butanone	6.43	43	245846	49.10	ug/l	93
29) 2,2-Dichloropropane	6.63	77	500693	12.60	ug/l	99
30) cis-1,2-Dichloroethene	6.69	96	309767	10.89	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV070.D Vial: 3
Acq On : 6 Nov 2024 8:40 am Operator: DNguye/CLingl
Sample : VO01K04L Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 9:02 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.92	83	528287	11.16	ug/l		98
32)	Bromochloromethane	7.17	49	173927	9.88	ug/l		87
33)	Tetrahydrofuran	7.21	42	27749	9.97	ug/l		95
35)	1,1,1-Trichloroethane	7.51	97	500617	11.77	ug/l		99
36)	Cyclohexane	7.52	84	441164	10.06	ug/l		99
37)	2,2,4-Trimethylpentane	7.52	57	19327	9.10	ug/l	#	100
38)	1,1-Dichloropropene	7.73	110	139883	10.86	ug/l		100
39)	Carbon tetrachloride	7.88	119	393074	12.21	ug/l		97
40)	tert-Amyl methyl ether (TA	7.89	73	469889	10.14	ug/l		99
42)	Benzene	8.13	78	1066952	10.54	ug/l		98
43)	1,2-Dichloroethane	8.11	62	254375	11.27	ug/l		100
44)	Trichloroethene	9.06	130	312395	11.67	ug/l		94
45)	Methylcyclohexane	9.17	83	539534	10.40	ug/l		95
46)	1,2-Dichloropropane	9.34	63	235869	10.35	ug/l		93
47)	Bromodichloromethane	9.73	83	365003	11.71	ug/l		100
48)	1,4-Dioxane	9.77	88	16832	193.24	ug/l		97
49)	Dibromomethane	9.82	93	106138	10.72	ug/l		95
50)	2-Chloroethyl vinyl ether	10.23	63	19459	11.26	ug/l		99
51)	4-Methyl-2-pentanone	10.26	43	583064	52.08	ug/l		96
52)	cis-1,3-Dichloropropene	10.62	75	393153	11.51	ug/l		99
55)	Toluene	11.15	91	1221931	10.82	ug/l		100
56)	Ethyl methacrylate	11.45	69	179590	11.11	ug/l		89
57)	trans-1,3-Dichloropropene	11.48	75	296601	11.60	ug/l		99
58)	1,1,2-Trichloroethane	11.74	97	158659	11.42	ug/l		100
59)	2-Hexanone	11.76	43	367507	49.76	ug/l		93
60)	1,3-Dichloropropane	12.19	76	293637	11.22	ug/l		100
61)	Tetrachloroethene	12.29	164	276878	11.35	ug/l		96
62)	Dibromochloromethane	12.66	129	199848	12.07	ug/l		99
63)	1,2-Dibromoethane	13.03	107	142168	10.80	ug/l		98
64)	1-Chlorohexane	13.30	91	547224	10.38	ug/l		100
65)	Chlorobenzene	13.79	112	761270	11.26	ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.86	131	261339	12.66	ug/l		96
67)	Ethylbenzene	13.88	91	1471383	11.02	ug/l		100
68)	m-Xylene & p-Xylene	14.01	91	2207019	20.92	ug/l		98
69)	o-Xylene	14.82	91	1391826	13.36	ug/l		99
70)	Styrene	14.90	104	1043718	13.70	ug/l		100
71)	Isopropylbenzene	15.50	105	2155778	15.24	ug/l		98
73)	Bromoform	15.55	173	131732	10.69	ug/l		99
74)	trans-1,4-Dichloro-2-buten	15.62	53	60502	9.18	ug/l		89
75)	1,1,2,2-Tetrachloroethane	15.85	83	249292	11.02	ug/l		100
77)	1,2,3-Trichloropropane	16.14	110	69179	10.89	ug/l		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV070.D Vial: 3
Acq On : 6 Nov 2024 8:40 am Operator: DNguye/CLingl
Sample : VO01K04L Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 9:02 2024 Quant Results File: VO01J12.RES

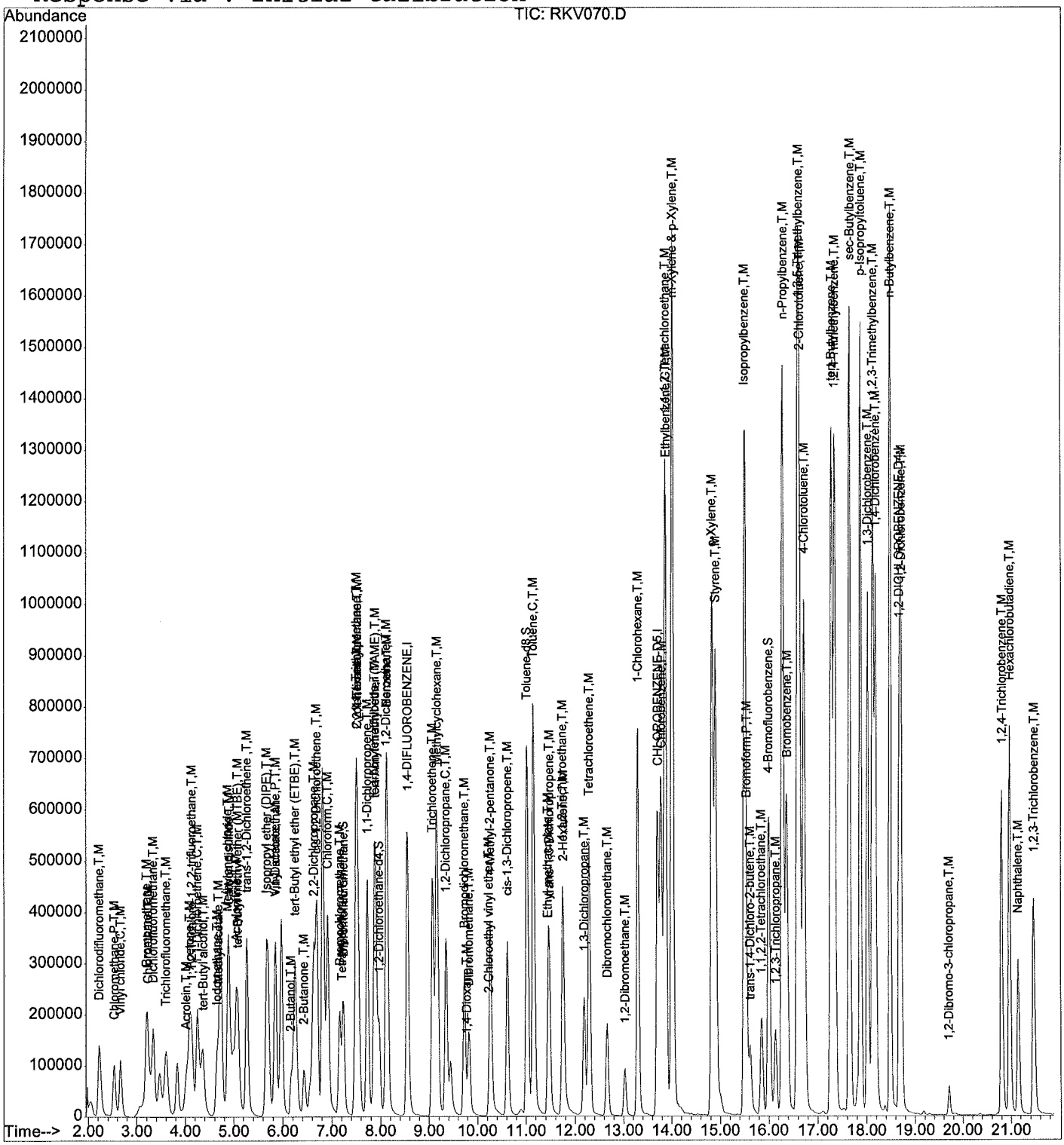
Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.29	91	2607448	10.27	ug/l	97
79)	Bromobenzene	16.38	156	422353	11.49	ug/l	99
80)	1,3,5-Trimethylbenzene	16.60	105	1605978	10.23	ug/l	95
81)	2-Chlorotoluene	16.63	91	1563827	10.14	ug/l	94
82)	4-Chlorotoluene	16.72	91	1401951	10.19	ug/l	95
83)	tert-Butylbenzene	17.28	134	411156	11.62	ug/l	94
84)	1,2,4-Trimethylbenzene	17.34	105	1574084	10.25	ug/l	95
85)	sec-Butylbenzene	17.65	105	2317332	10.48	ug/l	97
86)	p-Isopropyltoluene	17.87	119	1807364	10.48	ug/l	97
87)	1,3-Dichlorobenzene	18.02	146	836167	11.32	ug/l	97
88)	1,2,3-Trimethylbenzene	18.13	105	1385513	9.91	ug/l	95
89)	1,4-Dichlorobenzene	18.19	146	808762	11.01	ug/l	96
90)	n-Butylbenzene	18.48	91	1761450	9.33	ug/l	97
91)	1,2-Dichlorobenzene	18.72	146	674995	11.20	ug/l	99
92)	1,2-Dibromo-3-chloropropan	19.71	157	33415	11.06	ug/l	98
93)	1,2,4-Trichlorobenzene	20.81	180	447981	10.98	ug/l	98
94)	Hexachlorobutadiene	20.97	225	308013	11.78	ug/l	100
95)	Naphthalene	21.15	128	522333	10.40	ug/l	100
96)	1,2,3-Trichlorobenzene	21.47	180	341337	11.54	ug/l	95

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K06\RKV070.D Vial: 3
Acq On : 6 Nov 2024 8:40 am Operator: DNguye/CLing
Sample : VO01K04L Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 9:02 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV071.D Vial: 4
Acq On : 6 Nov 2024 9:09 am Operator: DNguye/CLingl
Sample : VO01K04C Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 9:31 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	982622	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	938041	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	431483	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	268956	10.48	ug/l	0.00
Spiked Amount 10.000			Recovery	= 104.80%		
41) 1,2-Dichloroethane-d4	7.97	65	213434	9.44	ug/l	0.00
Spiked Amount 10.000			Recovery	= 94.40%		
54) Toluene-d8	11.02	98	1086114	8.42	ug/l	0.00
Spiked Amount 10.000			Recovery	= 84.20%		
76) 4-Bromofluorobenzene	15.99	95	487679	9.55	ug/l	0.02
Spiked Amount 10.000			Recovery	= 95.50%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.21	85	335152	8.30	ug/l	99
5) Chloromethane	2.51	50	249079	8.18	ug/l	99
6) Vinyl chloride	2.66	62	244690	9.11	ug/l	100
7) Bromomethane	3.20	94	134366	6.94	ug/l	97
8) Chloroethane	3.21	64	181950	8.94	ug/l	98
9) Dichlorofluoromethane	3.32	67	395305	10.60	ug/l	99
10) Trichlorofluoromethane	3.60	101	423165	9.68	ug/l	98
11) Acrolein	4.00	56	41336	55.02	ug/l	93
12) 1,1,2-Trichloro-1,2,2-trif	4.09	151	220516	12.26	ug/l	98
13) Acetone	4.07	43	189371	52.19	ug/l	96
14) 1,1-Dichloroethene	4.24	61	440006	9.60	ug/l	97
15) tert-Butyl alcohol	4.35	59	214801	236.62	ug/l	98
16) Iodomethane	4.65	142	427752	10.98	ug/l	96
17) Methyl acetate	4.68	43	78786	8.42	ug/l	90
18) Methylene chloride	4.87	49	322514	9.76	ug/l	90
19) Carbon disulfide	4.89	76	948422	9.89	ug/l	100
20) Acrylonitrile	5.05	53	179331	52.61	ug/l	98
21) tert-Butyl methyl ether (M	5.06	73	482142	10.62	ug/l	96
22) trans-1,2-Dichloroethene	5.26	61	432652	9.83	ug/l	97
23) Isopropyl ether (DIPE)	5.67	45	863768	9.37	ug/l	93
24) Vinyl acetate	5.83	43	248780	8.43	ug/l	92
25) 1,1-Dichloroethane	5.83	63	529291	10.25	ug/l	100
26) 2-Butanol	6.16	45	215605	283.44	ug/l	92
27) tert-Butyl ethyl ether (ET	6.23	59	654236	9.76	ug/l	96
28) 2-Butanone	6.43	43	256727	46.14	ug/l	91
29) 2,2-Dichloropropane	6.63	77	510567	11.56	ug/l	100
30) cis-1,2-Dichloroethene	6.69	96	333798	10.56	ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV071.D Vial: 4
Acq On : 6 Nov 2024 9:09 am Operator: DNguye/CLingl
Sample : VO01K04C Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 9:31 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.92	83	555556	10.56	ug/l		97
32)	Bromochloromethane	7.15	49	180378	9.22	ug/l		83
33)	Tetrahydrofuran	7.20	42	28401	9.19	ug/l		91
35)	1,1,1-Trichloroethane	7.49	97	511612	10.83	ug/l		98
36)	Cyclohexane	7.51	84	448932	9.21	ug/l		100
37)	2,2,4-Trimethylpentane	7.51	57	18882	8.00	ug/l	#	100
38)	1,1-Dichloropropene	7.73	110	151836	10.61	ug/l		100
39)	Carbon tetrachloride	7.88	119	411859	11.51	ug/l		96
40)	tert-Amyl methyl ether (TA	7.88	73	504868	9.80	ug/l		100
42)	Benzene	8.13	78	1163973	10.34	ug/l		98
43)	1,2-Dichloroethane	8.10	62	262724	10.48	ug/l		99
44)	Trichloroethene	9.06	130	337341	11.34	ug/l		94
45)	Methylcyclohexane	9.15	83	501822	8.70	ug/l		95
46)	1,2-Dichloropropane	9.34	63	258316	10.20	ug/l		95
47)	Bromodichloromethane	9.73	83	379593	10.95	ug/l		98
48)	1,4-Dioxane	9.76	88	20866	215.57	ug/l		96
49)	Dibromomethane	9.82	93	117318	10.67	ug/l		94
50)	2-Chloroethyl vinyl ether	10.23	63	21582	11.24	ug/l		95
51)	4-Methyl-2-pentanone	10.26	43	605029	48.63	ug/l		94
52)	cis-1,3-Dichloropropene	10.62	75	414252	10.91	ug/l		96
55)	Toluene	11.15	91	1288164	8.66	ug/l		99
56)	Ethyl methacrylate	11.45	69	194878	9.15	ug/l		87
57)	trans-1,3-Dichloropropene	11.46	75	312565	9.28	ug/l		98
58)	1,1,2-Trichloroethane	11.74	97	171933	9.39	ug/l		99
59)	2-Hexanone	11.74	43	391236	40.22	ug/l		92
60)	1,3-Dichloropropane	12.19	76	313608	9.10	ug/l		99
61)	Tetrachloroethene	12.29	164	309896	9.65	ug/l		97
62)	Dibromochloromethane	12.66	129	246709	11.32	ug/l		99
63)	1,2-Dibromoethane	13.02	107	182279	10.51	ug/l		100
64)	1-Chlorohexane	13.30	91	694836	10.00	ug/l		100
65)	Chlorobenzene	13.77	112	944619	10.61	ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	328933	12.10	ug/l		95
67)	Ethylbenzene	13.88	91	1826628	10.38	ug/l		98
68)	m-Xylene & p-Xylene	14.01	91	2672845	19.24	ug/l		98
69)	o-Xylene	14.82	91	1438042	10.48	ug/l		100
70)	Styrene	14.90	104	1097168	10.93	ug/l		99
71)	Isopropylbenzene	15.51	105	2015969	10.82	ug/l		98
73)	Bromoform	15.55	173	120420	9.72	ug/l		100
74)	trans-1,4-Dichloro-2-buten	15.62	53	55394	8.34	ug/l		85
75)	1,1,2,2-Tetrachloroethane	15.85	83	229853	10.09	ug/l		100
77)	1,2,3-Trichloropropane	16.14	110	65439	10.24	ug/l		90

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K06\RKV071.D Vial: 4
Acq On : 6 Nov 2024 9:09 am Operator: DNguye/CLingl
Sample : VO01K04C Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 9:31 2024 Quant Results File: VO01J12.RES

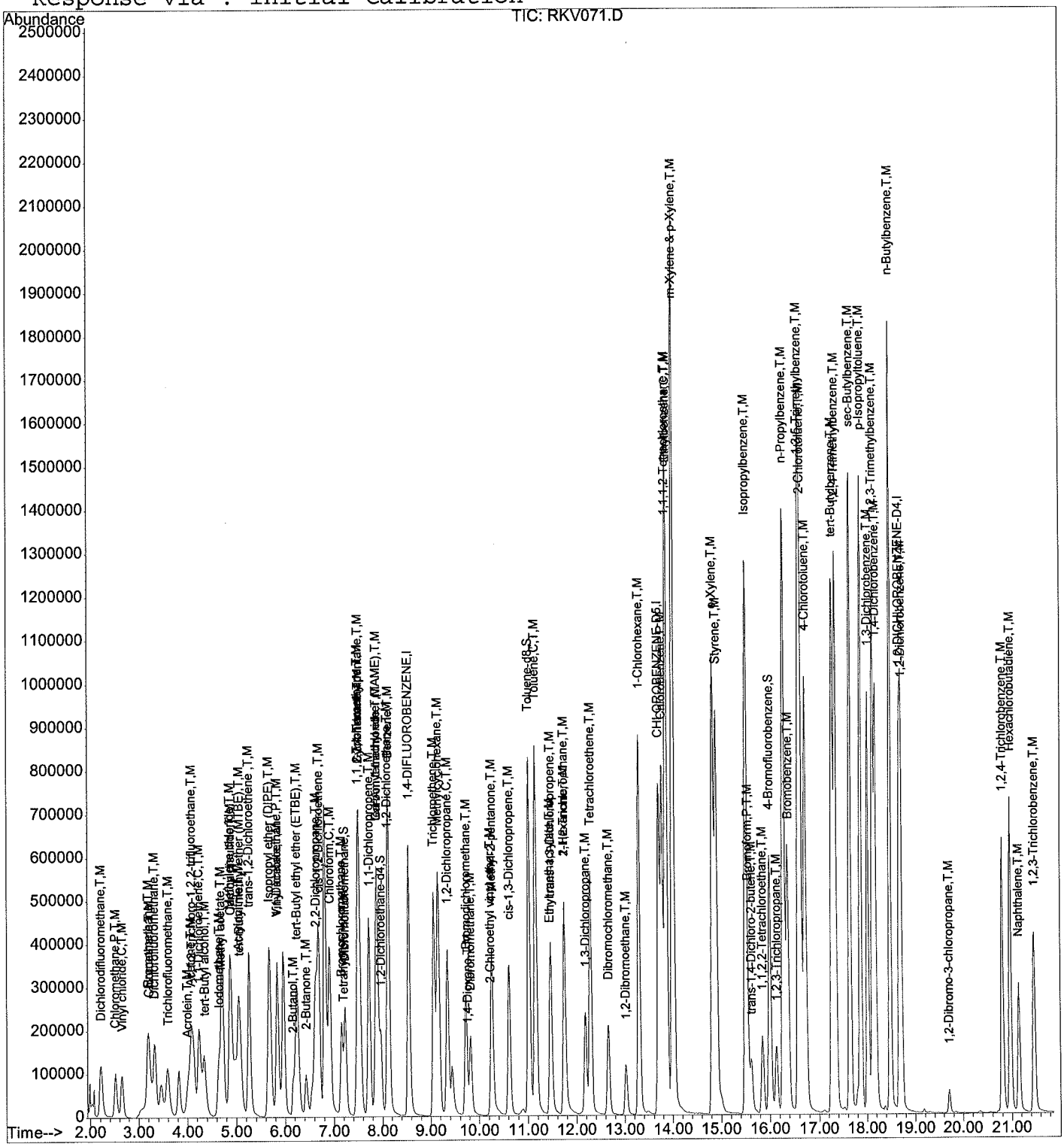
Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.28	91	2528571	9.90	ug/l	97
79)	Bromobenzene	16.38	156	421790	11.40	ug/l	100
80)	1,3,5-Trimethylbenzene	16.59	105	1550180	9.81	ug/l	96
81)	2-Chlorotoluene	16.63	91	1537402	9.90	ug/l	94
82)	4-Chlorotoluene	16.72	91	1337914	9.66	ug/l	94
83)	tert-Butylbenzene	17.28	134	395462	11.10	ug/l	93
84)	1,2,4-Trimethylbenzene	17.34	105	1501932	9.72	ug/l	95
85)	sec-Butylbenzene	17.65	105	2258313	10.15	ug/l	97
86)	p-Isopropyltoluene	17.87	119	1743876	10.04	ug/l	97
87)	1,3-Dichlorobenzene	18.02	146	818018	11.00	ug/l	97
88)	1,2,3-Trimethylbenzene	18.13	105	1356158	9.64	ug/l	95
89)	1,4-Dichlorobenzene	18.19	146	789044	10.67	ug/l	97
90)	n-Butylbenzene	18.48	91	1724535	9.08	ug/l	97
91)	1,2-Dichlorobenzene	18.72	146	664187	10.95	ug/l	100
92)	1,2-Dibromo-3-chloropropan	19.71	157	32611	10.72	ug/l	99
93)	1,2,4-Trichlorobenzene	20.81	180	445015	10.83	ug/l	100
94)	Hexachlorobutadiene	20.97	225	301426	11.45	ug/l	98
95)	Naphthalene	21.15	128	524449	10.37	ug/l	99
96)	1,2,3-Trichlorobenzene	21.47	180	334403	11.23	ug/l	98

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K06\RKV071.D Vial: 4
Acq On : 6 Nov 2024 9:09 am Operator: DNguye/CLing
Sample : VO01K04C Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 9:31 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV088.D Vial: 21
Acq On : 6 Nov 2024 5:33 pm Operator: DNguye/CLingl
Sample : 24J168-06M Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:55 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.55	114	721358	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	562991	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	389487	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	215682	11.45	ug/l	0.00
Spiked Amount 10.000			Recovery = 114.50%			
41) 1,2-Dichloroethane-d4	7.97	65	187535	11.30	ug/l	0.00
Spiked Amount 10.000			Recovery = 113.00%			
54) Toluene-d8	11.02	98	802857	10.37	ug/l	0.00
Spiked Amount 10.000			Recovery = 103.70%			
76) 4-Bromofluorobenzene	15.99	95	438469	9.51	ug/l	0.02
Spiked Amount 10.000			Recovery = 95.10%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.20	85	281302	9.49	ug/l	98
5) Chloromethane	2.51	50	196911	8.81	ug/l	99
6) Vinyl chloride	2.64	62	200803	10.18	ug/l	98
7) Bromomethane	3.18	94	100754	7.08	ug/l	99
8) Chloroethane	3.26	64	147043	9.84	ug/l	100
9) Dichlorofluoromethane	3.32	67	314574	11.49	ug/l	97
10) Trichlorofluoromethane	3.58	101	385771	12.02	ug/l	96
11) Acrolein	4.00	56	30051	54.49	ug/l	82
12) 1,1,2-Trichloro-1,2,2-trif	4.12	151	163211	12.36	ug/l	98
13) Acetone	4.07	43	132549	49.76	ug/l	95
14) 1,1-Dichloroethene	4.23	61	323232	9.60	ug/l	80
15) tert-Butyl alcohol	4.35	59	183310	275.07	ug/l	99
16) Iodomethane	4.63	142	330477	11.56	ug/l	100
17) Methyl acetate	4.66	43	64644	9.41	ug/l	94
18) Methylene chloride	4.87	49	247464	10.20	ug/l	89
19) Carbon disulfide	4.89	76	589683	8.38	ug/l	99
20) Acrylonitrile	5.03	53	138618	55.40	ug/l	100
21) tert-Butyl methyl ether (M	5.06	73	403071	12.09	ug/l	98
22) trans-1,2-Dichloroethene	5.26	61	324335	10.03	ug/l	96
23) Isopropyl ether (DIPE)	5.67	45	649315	9.59	ug/l	91
24) Vinyl acetate	5.83	43	174985	8.08	ug/l	93
25) 1,1-Dichloroethane	5.83	63	404439	10.67	ug/l	98
26) 2-Butanol	6.16	45	167059	299.17	ug/l	99
27) tert-Butyl ethyl ether (ET	6.23	59	528897	10.75	ug/l	96
28) 2-Butanone	6.43	43	205130	50.22	ug/l	93
29) 2,2-Dichloropropane	6.62	77	338938	10.45	ug/l	99
30) cis-1,2-Dichloroethene	6.69	96	312713	13.47	ug/l	94

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K06\RKV088.D Vial: 21
Acq On : 6 Nov 2024 5:33 pm Operator: DNguye/CLingl
Sample : 24J168-06M Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:55 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.92	83	464112	12.01	ug/l		98
32)	Bromochloromethane	7.15	49	138487	9.64	ug/l		79
33)	Tetrahydrofuran	7.20	42	22084	9.73	ug/l		97
35)	1,1,1-Trichloroethane	7.49	97	401482	11.57	ug/l		98
36)	Cyclohexane	7.51	84	319131	8.92	ug/l		99
37)	2,2,4-Trimethylpentane	7.51	57	13686	7.90	ug/l	#	100
38)	1,1-Dichloropropene	7.71	110	104863	9.98	ug/l		99
39)	Carbon tetrachloride	7.88	119	306289	11.66	ug/l		98
40)	tert-Amyl methyl ether (TA	7.88	73	401127	10.61	ug/l		100
42)	Benzene	8.13	78	867020	10.50	ug/l		98
43)	1,2-Dichloroethane	8.10	62	224628	12.20	ug/l		99
44)	Trichloroethene	9.06	130	1583043	72.47	ug/l		93
45)	Methylcyclohexane	9.15	83	397608	9.39	ug/l		89
46)	1,2-Dichloropropane	9.35	63	196139	10.55	ug/l		88
47)	Bromodichloromethane	9.72	83	306305	12.04	ug/l		97
48)	1,4-Dioxane	9.77	88	14379	202.35	ug/l		88
49)	Dibromomethane	9.82	93	94989	11.77	ug/l		94
50)	2-Chloroethyl vinyl ether	10.25	63	219	1.15	ug/l	#	1
51)	4-Methyl-2-pentanone	10.25	43	479462	52.50	ug/l		94
52)	cis-1,3-Dichloropropene	10.60	75	313197	11.24	ug/l		99
55)	Toluene	11.15	91	952027	10.67	ug/l		99
56)	Ethyl methacrylate	11.45	69	152201	11.91	ug/l		89
57)	trans-1,3-Dichloropropene	11.46	75	244355	12.09	ug/l		100
58)	1,1,2-Trichloroethane	11.73	97	134630	12.26	ug/l		98
59)	2-Hexanone	11.74	43	298717	51.16	ug/l		95
60)	1,3-Dichloropropane	12.17	76	242364	11.71	ug/l		99
61)	Tetrachloroethene	12.28	164	206271	10.70	ug/l		98
62)	Dibromochloromethane	12.65	129	170291	13.01	ug/l		99
63)	1,2-Dibromoethane	13.02	107	120254	11.55	ug/l		99
64)	1-Chlorohexane	13.30	91	379012	9.09	ug/l		99
65)	Chlorobenzene	13.77	112	586407	10.98	ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	214085	13.13	ug/l		99
67)	Ethylbenzene	13.86	91	1143339	10.83	ug/l		99
68)	m-Xylene & p-Xylene	14.01	91	1696853	20.35	ug/l		98
69)	o-Xylene	14.82	91	1330922	16.16	ug/l		99
70)	Styrene	14.90	104	818126	13.58	ug/l		98
71)	Isopropylbenzene	15.51	105	1757669	15.72	ug/l		99
73)	Bromoform	15.55	173	115402	10.31	ug/l		97
74)	trans-1,4-Dichloro-2-buten	15.61	53	53216	8.88	ug/l		90
75)	1,1,2,2-Tetrachloroethane	15.85	83	226227	11.00	ug/l		99
77)	1,2,3-Trichloropropane	16.13	110	61119	10.59	ug/l		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV088.D Vial: 21
Acq On : 6 Nov 2024 5:33 pm Operator: DNguye/CLingl
Sample : 24J168-06M Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:55 2024 Quant Results File: VO01J12.RES

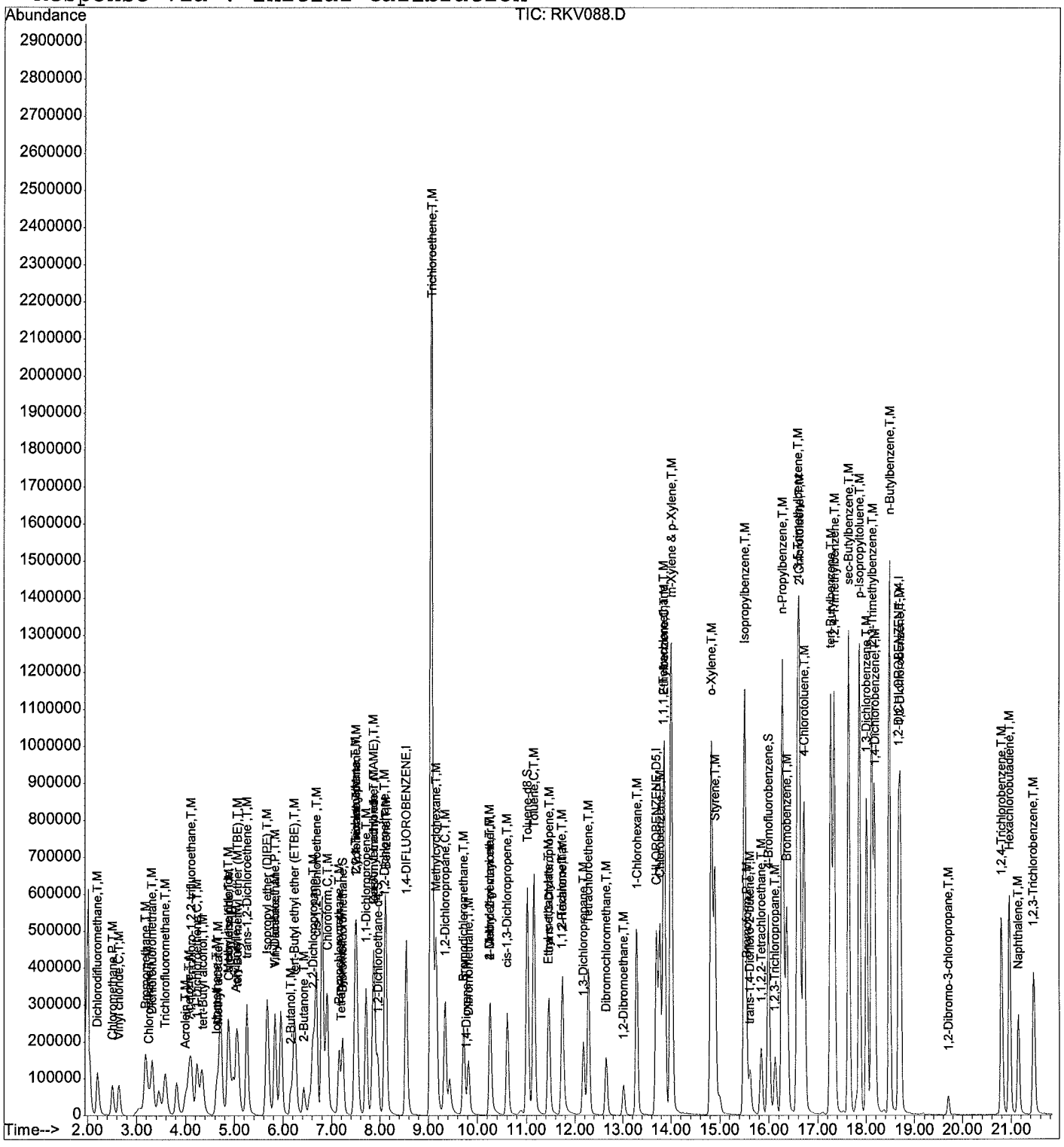
Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.28	91	2143509	9.29	ug/l	98
79)	Bromobenzene	16.36	156	376059	11.26	ug/l	99
80)	1,3,5-Trimethylbenzene	16.59	105	1319736	9.25	ug/l	97
81)	2-Chlorotoluene	16.62	91	1391889	9.93	ug/l	95
82)	4-Chlorotoluene	16.72	91	1131404	9.05	ug/l	93
83)	tert-Butylbenzene	17.27	134	335761	10.44	ug/l	97
84)	1,2,4-Trimethylbenzene	17.34	105	1307162	9.37	ug/l	97
85)	sec-Butylbenzene	17.64	105	1876636	9.34	ug/l	97
86)	p-Isopropyltoluene	17.86	119	1455690	9.29	ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	726036	10.81	ug/l	97
88)	1,2,3-Trimethylbenzene	18.13	105	1223980	9.64	ug/l	97
89)	1,4-Dichlorobenzene	18.19	146	698493	10.47	ug/l	96
90)	n-Butylbenzene	18.48	91	1454962	8.48	ug/l	97
91)	1,2-Dichlorobenzene	18.70	146	597690	10.91	ug/l	99
92)	1,2-Dibromo-3-chloropropan	19.71	157	30579	11.13	ug/l	96
93)	1,2,4-Trichlorobenzene	20.81	180	380579	10.26	ug/l	98
94)	Hexachlorobutadiene	20.97	225	252970	10.64	ug/l	99
95)	Naphthalene	21.15	128	472005	10.34	ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	297460	11.07	ug/l	97

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K06\RKV088.D Vial: 21
Acq On : 6 Nov 2024 5:33 pm Operator: DNguye/CLing
Sample : 24J168-06M Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:55 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV089.D Vial: 22
Acq On : 6 Nov 2024 6:03 pm Operator: DNguye/CLingl
Sample : 24J168-06S Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 17:05 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	810034	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	658416	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	399140	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	232656	11.00	ug/l	0.00
Spiked Amount 10.000			Recovery = 110.00%			
41) 1,2-Dichloroethane-d4	7.95	65	205768	11.04	ug/l	-0.01
Spiked Amount 10.000			Recovery = 110.40%			
54) Toluene-d8	11.02	98	908127	10.03	ug/l	0.00
Spiked Amount 10.000			Recovery = 100.30%			
76) 4-Bromofluorobenzene	15.99	95	451072	9.54	ug/l	0.02
Spiked Amount 10.000			Recovery = 95.40%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.19	85	296987	8.93	ug/l	99
5) Chloromethane	2.50	50	225448	8.98	ug/l	98
6) Vinyl chloride	2.63	62	210021	9.48	ug/l	99
7) Bromomethane	3.17	94	175027m	10.96	ug/l	
8) Chloroethane	3.20	64	165751	9.87	ug/l	99
9) Dichlorofluoromethane	3.30	67	347249	11.29	ug/l	98
10) Trichlorofluoromethane	3.57	101	374499	10.40	ug/l	97
11) Acrolein	4.00	56	35533	57.38	ug/l	82
12) 1,1,2-Trichloro-1,2,2-trif	4.10	151	162318	10.94	ug/l	98
13) Acetone	4.09	43	157019	52.49	ug/l	95
14) 1,1-Dichloroethene	4.24	61	364232	9.64	ug/l	94
15) tert-Butyl alcohol	4.35	59	213779	285.67	ug/l	96
16) Iodomethane	4.64	142	338646	10.55	ug/l	99
17) Methyl acetate	4.67	43	78415	10.16	ug/l	94
18) Methylene chloride	4.87	49	289270	10.62	ug/l	96
19) Carbon disulfide	4.89	76	813670	10.29	ug/l	99
20) Acrylonitrile	5.04	53	181852	64.72	ug/l	100
21) tert-Butyl methyl ether (M	5.06	73	463260	12.38	ug/l	97
22) trans-1,2-Dichloroethene	5.26	61	367135	10.12	ug/l	100
23) Isopropyl ether (DIPE)	5.67	45	792082	10.42	ug/l	97
24) Vinyl acetate	5.83	43	171935	7.07	ug/l	96
25) 1,1-Dichloroethane	5.83	63	455644	10.71	ug/l	99
26) 2-Butanol	6.16	45	227347	362.56	ug/l #	80
27) tert-Butyl ethyl ether (ET	6.23	59	629189	11.39	ug/l	98
28) 2-Butanone	6.41	43	261159	56.94	ug/l	97
29) 2,2-Dichloropropane	6.62	77	366444	10.06	ug/l	99
30) cis-1,2-Dichloroethene	6.69	96	348698	13.38	ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV089.D Vial: 22
Acq On : 6 Nov 2024 6:03 pm Operator: DNguye/CLingl
Sample : 24J168-06S Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 17:05 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Chloroform	6.90	83	508394	11.72 ug/l		98
32)	Bromochloromethane	7.15	49	177406	11.00 ug/l		94
33)	Tetrahydrofuran	7.20	42	26341	10.33 ug/l		99
35)	1,1,1-Trichloroethane	7.49	97	416218	10.69 ug/l		100
36)	Cyclohexane	7.51	84	356364	8.87 ug/l		99
37)	2,2,4-Trimethylpentane	7.49	57	15634	8.04 ug/l	#	100
38)	1,1-Dichloropropene	7.72	110	116799	9.90 ug/l		98
39)	Carbon tetrachloride	7.86	119	319331	10.83 ug/l		99
40)	tert-Amyl methyl ether (TA	7.88	73	471532	11.10 ug/l		100
42)	Benzene	8.12	78	990102	10.67 ug/l		99
43)	1,2-Dichloroethane	8.10	62	246720	11.93 ug/l		99
44)	Trichloroethene	9.06	130	1766872	72.03 ug/l		94
45)	Methylcyclohexane	9.15	83	438690	9.23 ug/l		93
46)	1,2-Dichloropropane	9.34	63	230375	11.04 ug/l		95
47)	Bromodichloromethane	9.71	83	343747	12.03 ug/l		100
48)	1,4-Dioxane	9.77	88	14409	180.58 ug/l		95
49)	Dibromomethane	9.82	93	104681	11.55 ug/l		97
50)	2-Chloroethyl vinyl ether	10.25	63	519	1.30 ug/l	#	1
51)	4-Methyl-2-pentanone	10.26	43	614419	59.91 ug/l		96
52)	cis-1,3-Dichloropropene	10.60	75	356007	11.38 ug/l		100
55)	Toluene	11.15	91	1063312	10.19 ug/l		99
56)	Ethyl methacrylate	11.43	69	184173	12.32 ug/l		91
57)	trans-1,3-Dichloropropene	11.46	75	273935	11.59 ug/l		100
58)	1,1,2-Trichloroethane	11.73	97	154151	12.00 ug/l		97
59)	2-Hexanone	11.74	43	396274	58.04 ug/l		94
60)	1,3-Dichloropropane	12.17	76	287913	11.90 ug/l		99
61)	Tetrachloroethene	12.29	164	223160	9.90 ug/l		98
62)	Dibromochloromethane	12.65	129	193053	12.61 ug/l		99
63)	1,2-Dibromoethane	13.02	107	143592	11.80 ug/l		97
64)	1-Chlorohexane	13.28	91	444354	9.11 ug/l		99
65)	Chlorobenzene	13.77	112	663602	10.62 ug/l		99
66)	1,1,1,2-Tetrachloroethane	13.85	131	234656	12.30 ug/l		97
67)	Ethylbenzene	13.86	91	1287255	10.43 ug/l		99
68)	m-Xylene & p-Xylene	13.99	91	1882903	19.31 ug/l		100
69)	o-Xylene	14.82	91	1188804	12.34 ug/l		99
70)	Styrene	14.90	104	271642	3.86 ug/l		82
71)	Isopropylbenzene	15.50	105	1595540	12.20 ug/l		99
73)	Bromoform	15.53	173	112170	9.79 ug/l		99
74)	trans-1,4-Dichloro-2-buten	15.61	53	53196	8.66 ug/l		92
75)	1,1,2,2-Tetrachloroethane	15.85	83	240294	11.41 ug/l		100
77)	1,2,3-Trichloropropane	16.13	110	65805	11.13 ug/l		96

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K06\RKV089.D Vial: 22
Acq On : 6 Nov 2024 6:03 pm Operator: DNguye/CLingl
Sample : 24J168-06S Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 17:05 2024 Quant Results File: VO01J12.RES

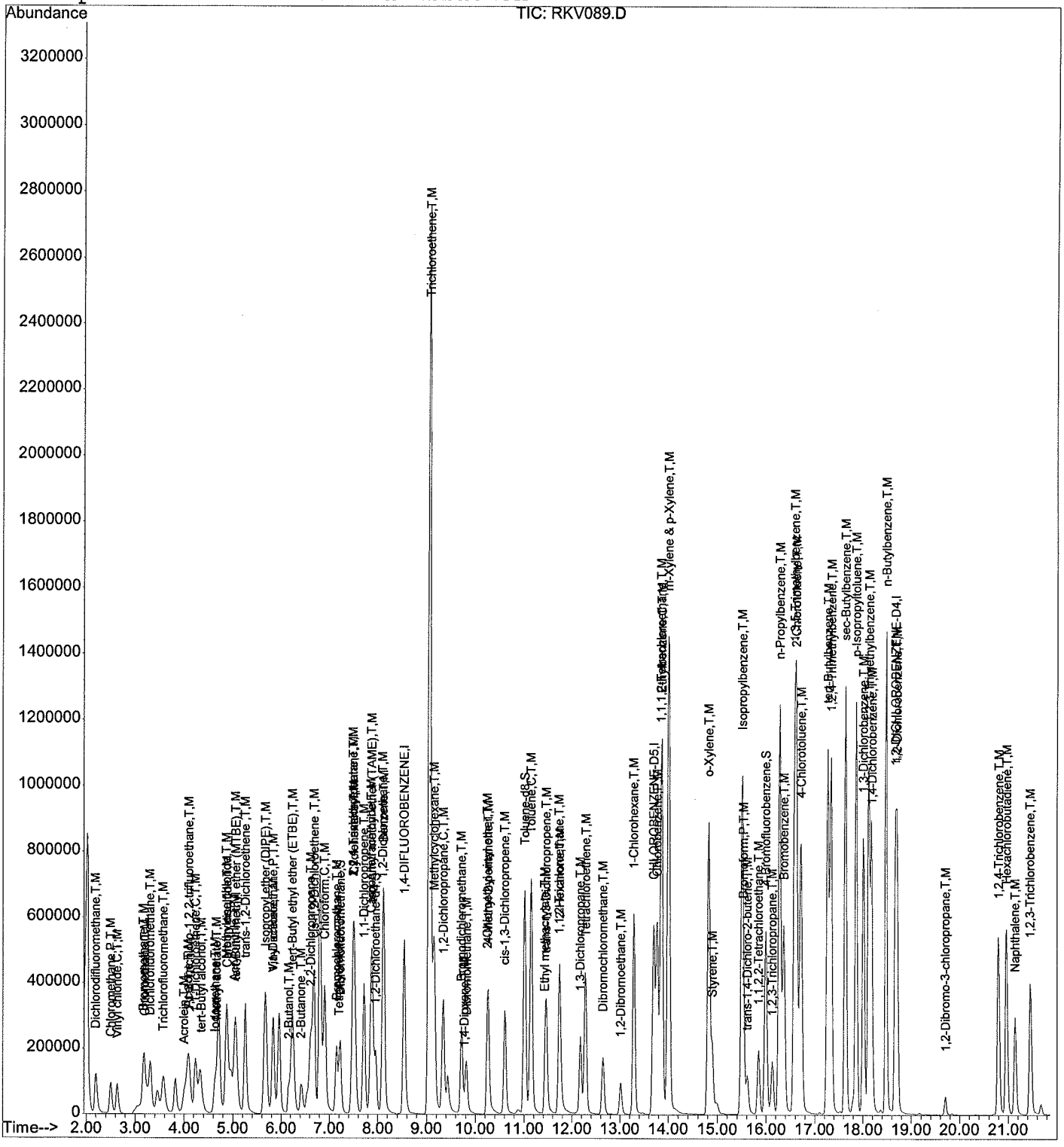
Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.27	91	2135619	9.04	ug/l	98
79)	Bromobenzene	16.36	156	374886	10.95	ug/l	99
80)	1,3,5-Trimethylbenzene	16.59	105	1245793	8.52	ug/l	96
81)	2-Chlorotoluene	16.62	91	1283406	8.94	ug/l	89
82)	4-Chlorotoluene	16.72	91	1220593	9.52	ug/l	99
83)	tert-Butylbenzene	17.27	134	326045	9.89	ug/l	91
84)	1,2,4-Trimethylbenzene	17.34	105	1288278	9.01	ug/l	98
85)	sec-Butylbenzene	17.64	105	1874819	9.11	ug/l	97
86)	p-Isopropyltoluene	17.86	119	1443324	8.99	ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	715507	10.40	ug/l	96
88)	1,2,3-Trimethylbenzene	18.13	105	1207408	9.28	ug/l	97
89)	1,4-Dichlorobenzene	18.18	146	692883	10.13	ug/l	96
90)	n-Butylbenzene	18.48	91	1426320	8.12	ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	601081	10.71	ug/l	100
92)	1,2-Dibromo-3-chloropropan	19.71	157	31734	11.27	ug/l	98
93)	1,2,4-Trichlorobenzene	20.81	180	390226	10.27	ug/l	100
94)	Hexachlorobutadiene	20.97	225	241469	9.91	ug/l	97
95)	Naphthalene	21.15	128	509988	10.90	ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	302146	10.97	ug/l	99

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K06\RKV089.D Vial: 22
Acq On : 6 Nov 2024 6:03 pm Operator: DNguye/CLing
Sample : 24J168-06S Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 17:05 2024 Quant Results File: VO01J12.RES

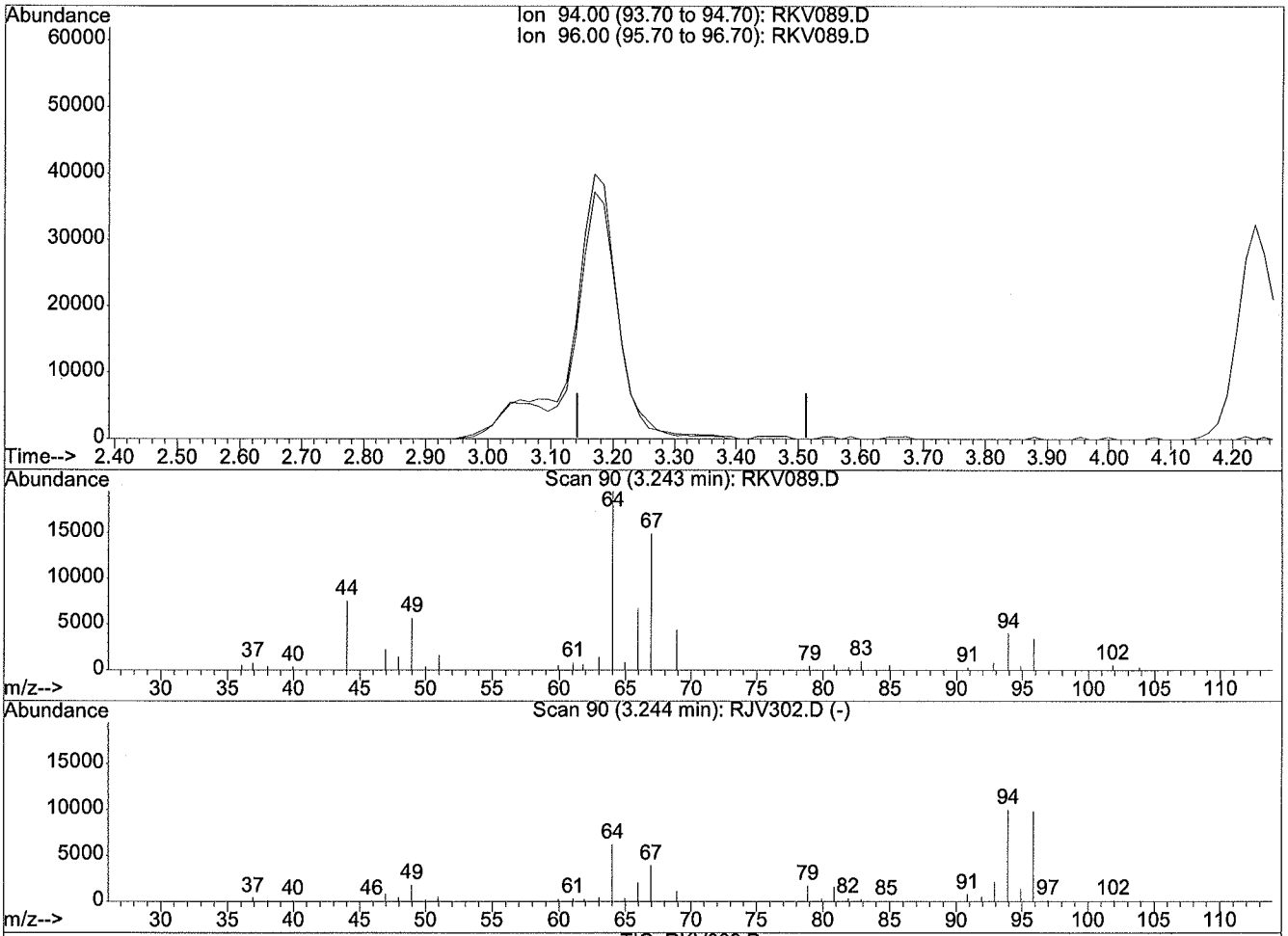
Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\24K06\RKV089.D Vial: 22
Acq On : 6 Nov 2024 6:03 pm Operator: DNguye/CLi
Sample : 24J168-06S Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 18:25 2024 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration



TIC: RKV089.D

(7) Bromomethane (T,M)

3.24min 0.00ug/l

response 0

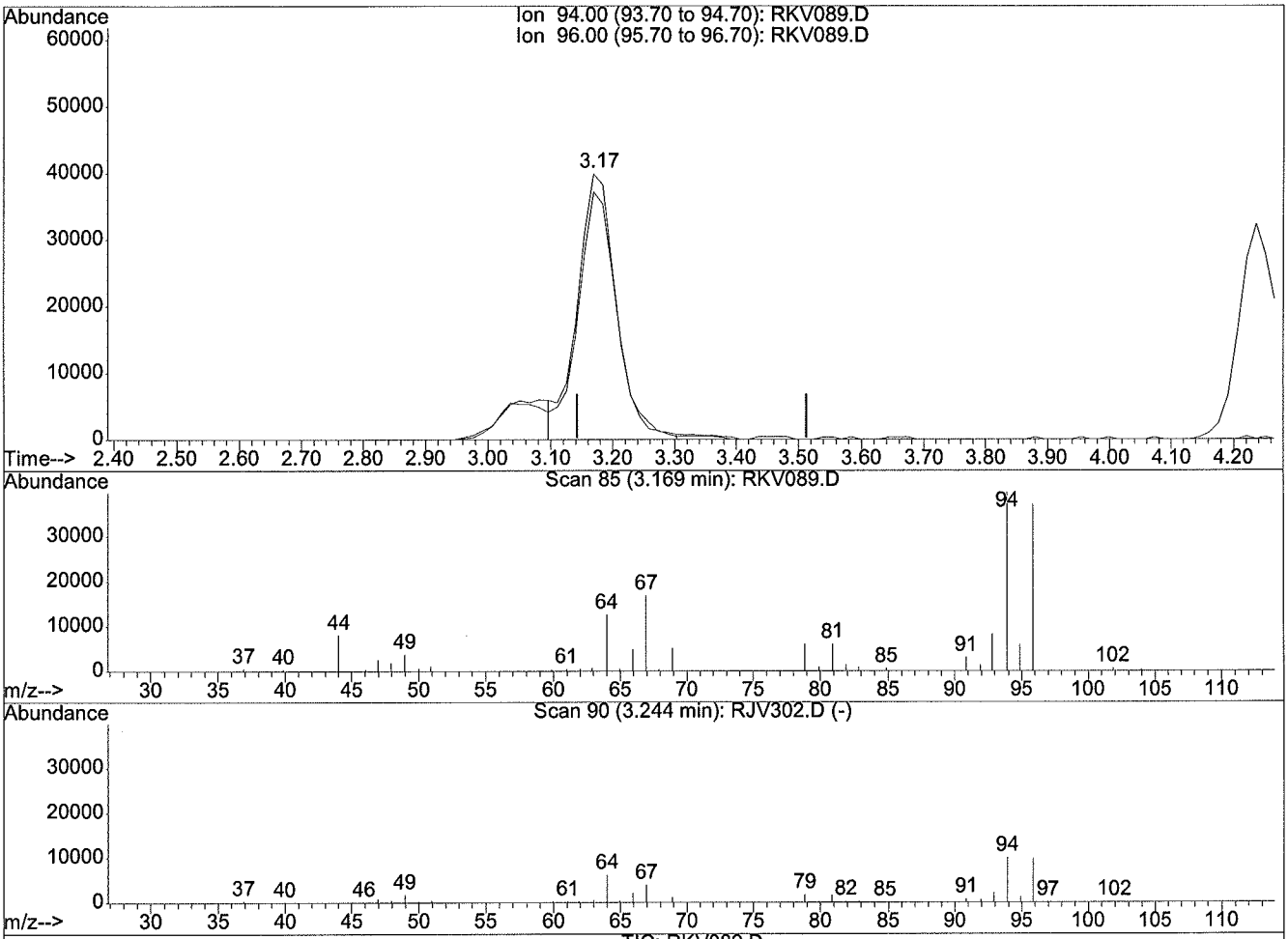
Ion	Exp%	Act%
94.00	100	0.00
96.00	98.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

RKV089.D VO01J12.M Fri Nov 08 17:05:05 2024

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\24K06\RKV089.D Vial: 22
Acq On : 6 Nov 2024 6:03 pm Operator: DNguye/CLi
Sample : 24J168-06S Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 17:05 2024 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration



TIC: RKV089.D

(7) Bromomethane (T,M)

3.17min 10.96ug/l m

response 175027

Ion	Exp%	Act%
94.00	100	100
96.00	98.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

☐ Incorrect Retention Time
☐ Incorrect Baseline
☑ Incorrect Integration
☐ Other

Initials cv 11/8/24

12/1/24

RKV089.D VO01J12.M Fri Nov 08 17:05:12 2024

INITIAL CALIBRATIONS

FORM 5

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : ICAL

Lab Code : EMAX SDG No : ICAL

Lab File ID: RJV296 BFB Injection Date: 10/12/24

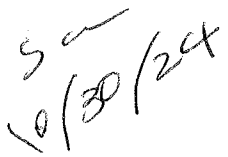
Instrument ID: 01 BFB Injection Time: 12:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	20.245
75	30 - 60% of mass 95	42.693
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	6.659
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	68.470
175	5 - 9% of mass 174	3.843(5.61)1
176	95 - 101% % of mass 174	66.756(97.5)1
177	5 - 9% % of mass 176	3.550(5.32)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following Calibration Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	VO01J121	RJV297	10/12/24	13:38
2	VSTD0.5	VO01J122	RJV298	10/12/24	14:08
3	VSTD1	VO01J123	RJV299	10/12/24	14:39
4	VSTD2	VO01J124	RJV300	10/12/24	15:09
5	VSTD5	VO01J125	RJV301	10/12/24	15:39
6	VSTD10	VO01J126	RJV302	10/12/24	16:08
7	VSTD20	VO01J127	RJV303	10/12/24	16:38
8	VSTD50	VO01J128	RJV304	10/12/24	17:08
9	VSTD30	VO01J129	RJV305	10/12/24	17:38
10	VSTD100	VO01J1210	RJV306	10/12/24	18:07
11	VSTD10	IVO01J1201	RJV309	10/12/24	19:36



Instrument ID :01
Beginning DateTime :10/12/24 13:38
Spike Units :PPB
IC File :RJV302

Column Spec :RXI-624SILMS ID :0.25MM
Ending DateTime :10/12/24 18:07
HPChem Method :VO01J12

M	IDX	Parameters	.3 13:38 RJV297	.5 14:08 RJV298	1 14:39 RJV299	2 15:09 RJV300	5 15:39 RJV301	10 16:08 RJV302	20 16:38 RJV303	30 17:38 RJV305	50 17:08 RJV304	100 18:07 RJV306	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	8.5435
	2	Chlorotrifluoroethylene	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	3	Dichlorodifluoromethane	0.346	0.383	0.455	0.425	0.471	0.456	0.437	0.412	0.371	0.351	0.411	11.08	2.2475
	4	2-Chloro-1,1,1-trifluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	5	Chloromethane	0.224	0.310	0.353	0.332	0.358	0.341	0.319	0.319	0.276	0.268	0.310	13.65	2.5594
	6	Vinyl chloride	0.195	0.242	0.294	0.299	0.315	0.296	0.287	0.295	0.251	0.261	0.273	13.19	2.6904
	7	Bromomethane	0.204	0.201	0.223	0.195	0.207	0.188	0.198	0.207	0.173	0.177	0.197	7.64	3.2326
	8	Chloroethane	------	0.175	0.213	0.211	0.221	0.216	0.212	0.232	0.192	0.193	0.207	8.38	3.2364
	9	Dichlorofluoromethane	0.332	0.484	0.387	0.387	0.395	0.310	0.363	0.366	0.439	0.334	0.380	13.68	3.3585
	10	Trichlorofluoromethane	------	0.422	0.472	0.475	0.495	0.479	0.459	0.444	0.391	0.366	0.445	9.80	3.6280
5	11	Acrolein	------	------	0.007	0.007	0.008	0.008	0.007	0.009	0.008	0.008	0.008	7.80	4.0240
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	0.154	0.180	0.195	0.199	0.198	0.177	0.190	0.199	0.173	0.168	0.183	8.51	4.1478
5	13	Acetone	------	------	------	0.039	0.039	0.038	0.035	0.036	0.034	------	0.037	6.03	4.0946
	14	1,1-Dichloroethene	0.433	0.475	0.520	0.515	0.497	0.442	0.464	0.482	0.425	0.413	0.467	8.08	4.2485
25	15	tert-Butyl alcohol	------	0.008	0.009	0.010	0.009	0.010	0.010	0.009	0.009	0.009	0.009	7.42	4.3734
	16	Iodomethane	0.342	0.364	0.437	0.434	0.425	0.373	0.404	0.427	0.377	0.381	0.396	8.42	4.6617
	17	Methyl acetate	------	------	------	0.112	0.089	0.099	0.083	0.094	------	------	0.095	11.58	4.6795
	18	Methylene chloride	0.311	0.350	0.385	0.369	0.353	0.312	0.327	0.345	0.303	0.308	0.336	8.38	4.8808
	19	Carbon disulfide	------	0.762	0.944	0.967	1.024	1.015	1.018	1.102	------	------	0.976	10.91	4.8974
5	20	Acrylonitrile	------	0.026	0.032	0.037	0.037	0.037	0.034	0.038	0.035	0.035	0.035	10.80	5.0579
	21	tert-Butyl methyl ether (MTBE)	0.351	0.414	0.498	0.521	0.510	0.475	0.478	0.489	0.449	0.436	0.462	11.13	5.0793
	22	trans-1,2-Dichloroethene	0.409	0.442	0.503	0.489	0.483	0.420	0.458	0.469	0.409	0.399	0.448	8.41	5.2644
	23	Isopropyl ether (DIPE)	0.827	0.913	1.055	1.025	1.016	0.885	0.932	0.998	0.887	0.845	0.938	8.58	5.6820
	24	Vinyl acetate	0.190	0.302	0.330	0.309	0.316	0.349	0.309	0.334	0.287	0.277	0.300	14.72	5.8464
	25	1,1-Dichloroethane	0.471	0.514	0.605	0.568	0.566	0.493	0.531	0.555	0.483	0.469	0.525	8.95	5.8360
25	26	2-Butanol	------	------	------	0.006	0.008	0.008	0.008	0.009	------	------	0.008	12.15	6.1781
	27	tert-Butyl ethyl ether (ETBE)	0.576	0.614	0.766	0.774	0.763	0.668	0.686	0.720	0.639	0.616	0.682	10.48	6.2477
5	28	2-Butanone	0.052	0.054	0.067	0.056	0.056	0.060	0.055	0.058	0.054	0.054	0.057	7.33	6.4417
	29	2,2-Dichloropropane	0.428	0.445	0.518	0.507	0.476	0.427	0.453	0.456	0.403	0.381	0.449	9.59	6.6297
	30	cis-1,2-Dichloroethene	0.285	0.311	0.360	0.344	0.344	0.303	0.327	0.344	0.302	0.297	0.322	7.93	6.6920
	31	Chloroform	0.555	0.551	0.631	0.590	0.566	0.490	0.523	0.526	0.478	0.445	0.535	10.32	6.9096
	32	Bromochloromethane	0.182	0.174	0.228	0.223	0.214	0.196	0.199	0.206	0.186	0.183	0.199	9.24	7.1510
	33	Tetrahydrofuran	------	------	0.031	0.032	0.039	0.031	0.029	0.031	0.030	0.029	0.031	10.36	7.2079
	34	Dibromofluoromethane	------	------	0.261	0.250	0.264	0.257	0.269	0.266	------	------	0.261	2.58	7.2265
	35	1,1,1-Trichloroethane	0.415	0.463	0.548	0.535	0.527	0.462	0.503	0.491	0.446	0.420	0.481	9.83	7.4946
	36	Cyclohexane	0.447	0.452	0.500	0.513	0.529	0.503	0.496	0.528	------	------	0.496	6.28	7.5172
	37	2,2,4-Trimethylpentane	------	------	------	0.023	0.025	0.024	0.023	0.025	------	------	0.024	5.03	7.5139
	38	1,1-Dichloropropene	0.125	0.137	0.158	0.152	0.157	0.139	0.151	0.160	0.140	0.137	0.146	7.96	7.7167
	39	Carbon tetrachloride	0.298	0.349	0.403	0.395	0.400	0.356	0.392	0.379	0.345	0.323	0.364	9.79	7.8722
	40	tert-Amyl methyl ether (TAME)	0.462	0.516	0.601	0.589	0.558	0.506	0.525	0.527	0.488	0.469	0.524	8.94	7.8914
	41	1,2-Dichloroethane-d4	------	------	0.227	0.227	0.235	0.237	0.236	0.219	------	------	0.230	3.01	7.9669
	42	Benzene	1.147	1.180	1.311	1.243	1.225	1.064	1.148	1.177	1.031	0.924	1.145	9.85	8.1239
	43	1,2-Dichloroethane	0.190	0.229	0.291	0.283	0.291	0.271	0.271	0.258	0.243	0.225	0.255	12.95	8.1002
	44	Trichloroethene	0.280	0.313	0.333	0.325	0.314	0.282	0.311	0.316	0.281	0.273	0.303	7.09	9.0632
	45	Methylcyclohexane	0.632	0.561	0.557	0.600	0.602	0.569	0.581	0.593	------	------	0.587	4.28	9.1484
	46	1,2-Dichloropropane	0.251	0.235	0.285	0.275	0.274	0.244	0.262	0.271	0.243	0.236	0.258	7.03	9.3431
	47	Bromodichloromethane	0.332	0.335	0.394	0.377	0.379	0.342	0.367	0.356	0.330	0.313	0.353	7.42	9.7148
20	48	1,4-Dioxane	------	------	------	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	14.16	9.7571
	49	Dibromomethane	0.091	0.103	0.131	0.125	0.121	0.113	0.115	0.113	0.106	0.101	0.112	10.72	9.8066
	50	2-Chloroethyl vinyl ether	------	------	0.005	0.010	0.014	0.017	0.019	0.022	0.022	------	0.016	39.29	10.2225
5	51	4-Methyl-2-pentanone	------	0.093	0.120	0.131	0.140	0.145	0.132	0.135	0.126	0.117	0.127	12.23	10.2611
	52	cis-1,3-Dichloropropene	0.295	0.356	0.420	0.404	0.415	0.385	0.422	0.419	0.384	0.363	0.386	10.37	10.6063
	53	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	13.6939
	54	Toluene-d8	------	------	1.423	1.446	1.443	1.342	1.199	1.399	------	------	1.375	6.87	11.0131
	55	Toluene	1.599	1.679	1.880	1.804	1.739	1.508	1.383	1.663	1.363	1.230	1.585	13.23	11.1483
	56	Ethyl methacrylate	------	0.158	0.214	0.240	0.251	0.254	0.213	0.258	0.229	0.228	0.227	13.58	11.4475
	57	trans-1,3-Dichloropropene	0.262	0.309	0.370	0.408	0.409	0.384	0.336	0.402	0.357	0.352	0.359	13.11	11.4682
	58	1,1,2-Trichloroethane	0.147	0.191	0.227	0.220	0.215	0.203	0.172	0.208	0.183	0.184	0.195	12.51	11.7318
5	59	2-Hexanone	------	------	0.078	0.104	0.113	0.119	0.094	0.115	0.105	0.101	0.104	12.75	11.7455
	60	1,3-Dichloropropane	0.286	0.335	0.407	0.421	0.396	0.373	0.374	0.390	0.356	0.339	0.368	10.91	12.1745
	61	Tetrachloroethene	0.356	0.356	0.377	0.376	0.362	0.315	0.338	0.347	0.306	0.292	0.343	8.52	12.2767
	62	Dibromochloromethane	0.201	0.226	0.230	0.245	0.246	0.238	0.238	0.247	0.230	0.223	0.232	6.04	12.6470
	63	1,2-Dibromoethane	0.135	0.168	0.193	0.197	0.204	0.193	0.195	0.200	0.187	0.177	0.185	11.07	13.0127
	64	1-Chlorohexane	0.748	0.745	0.830	0.804	0.791	0.687	0.745	0.767	0.675	0.612	0.740	8.90	13.2837
	65	Chlorobenzene	0.895	0.943	1.048	1.058	1.014	0.891	0.962	0.988	0.881	0.808	0.949	8.50	13.7620
	66	1,1,1,2-Tetrachloroethane	0.219	0.262	0.321	0.317	0.320	0.280	0.303	0.312	0.289	0.275	0.290	11.11	13.8435
	67	Ethylbenzene	1.926	1.945	2.180	2.149	2.060	1.793	1.884	1.875	1.616	1.325	1.875	13.61	13.8598
2	68	m-Xylene & p-Xylene	1.529	1.446	1.644	1.621	1.553	1.311	1.375	1.370	------	------	1.481	8.36	13.9964
	69	o-Xylene	1.422	1.449	1.670	1.651	1.728	1.561	1.405	1.424	1.241	1.076	1.463	13.73	14.8164
	70	Styrene	0.947	0.981	1.179	1.161	1.246	1.176	1.078	1.082	0.970	0.879	1.070	11.33	14.8860
	71	Isopropylbenzene	1.835	1.857	2.162	2.165	2.450	2.076	1.863	1.887	1.578	------	1.986	12.81	15.4951
	72	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	18.6667
	73	Bromoform	0.135	0.188	0.226	0.217	0.257	0.270	0.279	0.300	0.285	0.300	0.246	21.91	15.5361
	74	trans-1,4-Dichloro-2-butene	------	------	0.117	0.127	0.151	0.167	0.164	0.174	0.160	0.172	0.154	13.73	15.6087
	75	1,1,2,2-Tetrachloroethane	0.384	0.490	0.571	0.509	0.563	0.579	0.560	0.567	0.529	0.526	0.528	11.05	15.8353
	76	4-Bromofluorobenzene	------	------	1.235	1.019	1.171	1.172	1.265	1.242	------	------	1.184	7.58	15.9814
	77	1,2,3-Trichloropropane	------	0.112	0.147	0.141	0.153	0.160	0.156	0.160	0.152	0.153	0.148	10.16	16.1270
	78	n-Propylbenzene	6.302	6.289	6.963	5.873	6.565	5.625	6.079	6.091	5.063	4.364	5.921	12.69	16.2751
	79	Bromobenzene	0.806	0.845	0.914	0.805	0.914	0.812	0.887	0.917	0.827	0.850	0.858	5.43	16.3610
	80	1,3,5-Trimethylbenzene	3.764	3.860	4.238	3.518	3.941	3.444	3.764	3.815	3.287	3.001	3.663	9.71	16.5816
	81	2-Chlorotoluene	3.673	3.763	4.232	3.543	3.897	3.357	3.637	3.731	3.160	2.991	3.598	10.00	16.6157
	82	4-Chlorotoluene	3.572	3.435	3.477	3.079	3.313	2.992	3.286	3.256	2.943	2.756	3.211	8.13	16.7060
	83	tert-Butylbenzene	0.801	0.787	0.899	0.790	0.890	0.791	0.847	0.877	0.790	0.785	0.826	5.73	17.2643
	84	1,2,4-Trimethylbenzene	3.709	3.588	4.109	3.600	3.957	3.412	3.681	3.689	3.196	2.887	3.583	9.83	17.3339
	85	sec-Butylbenzene	5.868	5.508	6.020	5.144	5.666	5.024	5.252	5.172	4.288	3.642	5.158	14.02	17.6375
	86	p-Isopropyltoluene	4.356	4.251	4.770	4.019	4.391	3.814	4.043	4.055	3.483	3.061	4.024	12.06	17.8596
	87	1,3-Dichlorobenzene	1.747	1.715	1.963	1.724	1.839	1.633	1.736	1.770	1.593	1.520	1.724	7.25	18.0077
	88	1,2,3-Trimethylbenzene	3.248	3.363	3.806	3.704	3.515	3.115	3.285	3.247	2.792	2.538	3.261	11.80	18.1143
	89	1,4-Dichlorobenzene	1.846	1.787	1.987	1.819	1.788	1.568	1.683	1.697	1.511	1.445	1.713	9.73	18.1706
	90	n-Butylbenzene	4.848	4.649	5.049	4.717	4.620	3.978	4.162	4.164	3.413	------	4.400	11.64	18.4716
	91	1,2-Dichlorobenzene	1.390	1.390	1.632	1.521	1.501	1.334	1.397	1.408	1.274	1.217	1.406	8.62	18.7037
	92	1,2-Dibromo-3-chloropropane	------	------	0.058	0.066	0.064	0.075	0.074	0.078	0.074	0.075	0.071	9.99	19.7015
	93	1,2,4-Trichlorobenzene	0.933	0.982	1.009	1.010	1.003	0.900	0.952	0.987	0.887	0.857	0.952	5.80	20.7917
	94	Hexachlorobutadiene	0.574	0.613	0.695	0.654	0.646	0.564	0.618	0.649	0.558	0.530	0.610	8.57	20.9561
	95	Naphthalene	1.256	1.003	1.258	1.213	1.162	1.231	1.160	1.257	1.107	1.074	1.172	7.49	21.1368
	96	1,2,3-Trichlorobenzene	0.595	0.651	0.782	0.742	0.730	0.685	0.701	0.733	0.648	0.636	0.690	8.36	21.4581

Spike Amount = Nominal Amount * M
Ave_%RSD : 10.1 Max_%RSD : 39.3

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
50	2-Chloroethyl vinyl ether	-0.00216	0.02145	0.9977
73	Bromoform	-0.00663	0.29386	0.9993

SM 12/30/24

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR(%REC)

Instrument ID :01
Beginning DateTime :10/12/24 13:38
Spike Units :PPB
IC File :RJV302

Column Spec :RXI-624SILMS ID :0.25MM
Ending DateTime :10/12/24 18:07
HPChem Method :VO01J12

M	IDX	Parameters	.3 13:38 RJV297	.5 14:08 RJV298	1 14:39 RJV299	2 15:09 RJV300	5 15:39 RJV301	10 16:08 RJV302	20 16:38 RJV303	30 17:38 RJV305	50 17:08 RJV304	100 18:07 RJV306	AvDRec	% RSD	Av Rt M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	8.5435
	2	Chlorotrifluoroethylene	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	3	Dichlorodifluoromethane	84	93	111	103	115	111	106	100	90	85	9.3	11.08	2.2475
	4	2-Chloro-1,1,1-trifluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	5	Chloromethane	72	100	114	107	115	110	103	103	89	86	10.5	13.65	2.5594
	6	Vinyl chloride	71	89	108	110	115	108	105	108	92	96	10.7	13.19	2.6904
	7	Bromomethane	104	102	113	99	105	95	101	105	88	90	5.7	7.64	3.2326
	8	Chloroethane	------	85	103	102	107	104	102	112	93	93	6.7	8.38	3.2364
	9	Dichlorofluoromethane	87	127	102	102	104	82	96	96	116	88	10.2	13.68	3.3585
	10	Trichlorofluoromethane	------	95	106	107	111	108	103	100	88	82	7.8	9.80	3.6280
5	11	Acrolein	------	------	87	87	100	100	87	112	100	100	6.3	7.80	4.0240
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	84	98	107	109	108	97	104	109	95	92	7	8.51	4.1478
5	13	Acetone	------	------	------	105	105	103	95	97	92	------	5	6.03	4.0946
	14	1,1-Dichloroethene	93	102	111	110	106	95	99	103	91	88	6.7	8.08	4.2485
25	15	tert-Butyl alcohol	------	89	100	111	100	111	111	100	100	100	4.9	7.42	4.3734
	16	Iodomethane	86	92	110	110	107	94	102	108	95	96	7.3	8.42	4.6617
	17	Methyl acetate	------	------	------	118	94	104	87	99	------	------	8.4	11.58	4.6795
	18	Methylene chloride	93	104	115	110	105	93	97	103	90	92	7.2	8.38	4.8808
	19	Carbon disulfide	------	78	97	99	105	104	104	113	------	------	7.5	10.91	4.8974
5	20	Acrylonitrile	------	74	91	106	106	106	97	109	100	100	7	10.80	5.0579
	21	tert-Butyl methyl ether (MTBE)	76	90	108	113	110	103	103	106	97	94	8.6	11.13	5.0793
	22	trans-1,2-Dichloroethene	91	99	112	109	108	94	102	105	91	89	7.2	8.41	5.2644
	23	Isopropyl ether (DIPE)	88	97	112	109	108	94	99	106	95	90	7.3	8.58	5.6820
	24	Vinyl acetate	63	101	110	103	105	116	103	111	96	92	9.8	14.72	5.8464
	25	1,1-Dichloroethane	90	98	115	108	108	94	101	106	92	89	7.5	8.95	5.8360
25	26	2-Butanol	------	------	------	75	100	100	100	112	------	------	7.5	12.15	6.1781
	27	tert-Butyl ethyl ether (ETBE)	84	90	112	113	112	98	101	106	94	90	8.7	10.48	6.2477
5	28	2-Butanone	91	95	118	98	98	105	96	102	95	95	5.6	7.33	6.4417
	29	2,2-Dichloropropane	95	99	115	113	106	95	101	102	90	85	7.3	9.59	6.6297
	30	cis-1,2-Dichloroethene	89	97	112	107	107	94	102	107	94	92	6.9	7.93	6.6920
	31	Chloroform	104	103	118	110	106	92	98	98	89	83	8.1	10.32	6.9096
	32	Bromochloromethane	91	87	115	112	108	98	100	104	93	92	7.5	9.24	7.1510
	33	Tetrahydrofuran	------	------	100	103	126	100	94	100	97	94	5.6	10.36	7.2079
	34	Dibromofluoromethane	------	------	100	96	101	98	103	102	------	------	2	2.58	7.2265
	35	1,1,1-Trichloroethane	86	96	114	111	110	96	105	102	93	87	8.3	9.83	7.4946
	36	Cyclohexane	90	91	101	103	107	101	100	106	------	------	4.7	6.28	7.5172
	37	2,2,4-Trimethylpentane	------	------	------	96	104	100	96	104	------	------	3.3	5.03	7.5139
	38	1,1-Dichloropropene	86	94	108	104	108	95	103	110	96	94	6.8	7.96	7.7167
	39	Carbon tetrachloride	82	96	111	109	110	98	108	104	95	89	8.2	9.79	7.8722
	40	tert-Amyl methyl ether (TAME)	88	98	115	112	106	97	100	101	93	90	6.9	8.94	7.8914
	41	1,2-Dichloroethane-d4	------	------	99	99	102	103	103	95	------	------	2.5	3.01	7.9669
	42	Benzene	100	103	114	109	107	93	100	103	90	81	7.3	9.85	8.1239
	43	1,2-Dichloroethane	75	90	114	111	114	106	106	101	95	88	10.5	12.95	8.1002
	44	Trichloroethene	92	103	110	107	104	93	103	104	93	90	6.3	7.09	9.0632
	45	Methylcyclohexane	108	96	95	102	103	97	99	101	------	------	3.4	4.28	9.1484
	46	1,2-Dichloropropane	97	91	110	107	106	95	102	105	94	91	6.1	7.03	9.3431
	47	Bromodichloromethane	94	95	112	107	107	97	104	101	93	89	6.3	7.42	9.7148
20	48	1,4-Dioxane	------	------	------	70	94	104	110	110	108	105	0	14.16	9.7571
	49	Dibromomethane	81	92	117	112	108	101	103	101	95	90	8.3	10.72	9.8066
	50	2-Chloroethyl vinyl ether	------	------	126	97	86	90	95	104	103	------	31.2	39.29	10.2225
5	51	4-Methyl-2-pentanone	------	73	94	103	110	114	104	106	99	92	8.7	12.23	10.2611
	52	cis-1,3-Dichloropropene	76	92	109	105	108	100	109	109	99	94	7.7	10.37	10.6063
	53	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	13.6939
	54	Toluene-d8	------	------	103	105	105	98	87	102	------	------	5.1	6.87	11.0131
	55	Toluene	101	106	119	114	110	95	87	105	86	78	10.8	13.23	11.1483
	56	Ethyl methacrylate	------	70	94	106	111	112	94	114	101	100	9.5	13.58	11.4475
	57	trans-1,3-Dichloropropene	73	86	103	114	114	107	94	112	99	98	9.9	13.11	11.4682
	58	1,1,2-Trichloroethane	75	98	116	113	110	104	88	107	94	94	10.1	12.51	11.7318
5	59	2-Hexanone	------	------	75	100	109	114	90	111	101	97	9	12.75	11.7455
	60	1,3-Dichloropropane	78	91	111	114	108	101	102	106	97	92	8.4	10.91	12.1745
	61	Tetrachloroethene	104	104	110	110	106	92	99	101	89	85	6.9	8.52	12.2767
	62	Dibromochloromethane	87	97	99	106	106	103	103	106	99	96	4.5	6.04	12.6470
	63	1,2-Dibromoethane	73	91	104	106	110	104	105	108	101	96	8.1	11.07	13.0127
	64	1-Chlorohexane	101	101	112	109	107	93	101	104	91	83	6.7	8.90	13.2837
	65	Chlorobenzene	94	99	110	111	107	94	101	104	93	85	6.9	8.50	13.7620
	66	1,1,1,2-Tetrachloroethane	76	90	111	109	110	97	104	108	100	95	8.6	11.11	13.8435
	67	Ethylbenzene	103	104	116	115	110	96	100	100	86	71	9.5	13.61	13.8598
2	68	m-Xylene & p-Xylene	103	98	111	109	105	89	93	93	------	------	7.1	8.36	13.9964
	69	o-Xylene	97	99	114	113	118	107	96	97	85	74	10.4	13.73	14.8164
	70	Styrene	89	92	110	109	116	110	101	101	91	82	9.4	11.33	14.8860
	71	Isopropylbenzene	92	94	109	109	123	105	94	95	79	------	10.2	12.81	15.4951
	72	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	18.6667
	73	Bromoform	120	110	99	85	92	94	96	103	98	102	17.6	21.91	15.5361
	74	trans-1,4-Dichloro-2-butene	------	------	76	82	98	108	106	113	104	112	10.9	13.73	15.6087
	75	1,1,2,2-Tetrachloroethane	73	93	108	96	107	110	106	107	100	100	7.7	11.05	15.8353
	76	4-Bromofluorobenzene	------	------	104	86	99	99	107	105	------	------	5.3	7.58	15.9814
	77	1,2,3-Trichloropropane	------	76	99	95	103	108	105	108	103	103	6.8	10.16	16.1270
	78	n-Propylbenzene	106	106	118	99	111	95	103	103	86	74	9.3	12.69	16.2751
	79	Bromobenzene	94	98	107	94	107	95	103	107	96	99	4.7	5.43	16.3610
	80	1,3,5-Trimethylbenzene	103	105	116	96	108	94	103	104	90	82	7.7	9.71	16.5816
	81	2-Chlorotoluene	102	105	118	98	108	93	101	104	88	83	7.5	10.00	16.6157
	82	4-Chlorotoluene	111	107	108	96	103	93	102	101	92	86	6.7	8.13	16.7060
	83	tert-Butylbenzene	97	95	109	96	108	96	103	106	96	95	5.1	5.73	17.2643
	84	1,2,4-Trimethylbenzene	104	100	115	100	110	95	103	103	89	81	7	9.83	17.3339
	85	sec-Butylbenzene	114	107	117	100	110	97	102	100	83	71	9.8	14.02	17.6375
	86	p-Isopropyltoluene	108	106	119	100	109	95	100	101	87	76	8.6	12.06	17.8596
	87	1,3-Dichlorobenzene	101	99	114	100	107	95	101	103	92	88	5	7.25	18.0077
	88	1,2,3-Trimethylbenzene	100	103	117	114	108	96	101	100	86	78	8.4	11.80	18.1143
	89	1,4-Dichlorobenzene	108	104	116	106	104	92	98	99	88	84	7.7	9.73	18.1706
	90	n-Butylbenzene	110	106	115	107	105	90	95	95	78	------	9.5	11.64	18.4716
	91	1,2-Dichlorobenzene	99	99	116	108	107	95	99	100	91	87	6.2	8.62	18.7037
	92	1,2-Dibromo-3-chloropropane	------	------	82	93	90	106	104	110	104	106	8.1	9.99	19.7015
	93	1,2,4-Trichlorobenzene	98	103	106	106	105	95	100	104	93	90	4.9	5.80	20.7917
	94	Hexachlorobutadiene	94	100	114	107	106	92	101	106	91	87	7	8.57	20.9561
	95	Naphthalene	107	86	107	103	99	105	99	107	94	92	6	7.49	21.1368
	96	1,2,3-Trichlorobenzene	86	94	113	108	106	99	102	106	94	92	6.9	8.36	21.4581

SC
10/30/24

Compound List Report 01

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
Total Cpnds : 96

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-DIFLUOROBENZENE	114	8.54	1.000	A	1	A	B
2	T	Chlorotrifluoroethylene	116	2.08	0.243	A	2	A	B
3	T	Dichlorodifluoromethane	85	2.26	0.264	A	1	A	B
4	T	2-Chloro-1,1,1-trifluoroethane	118	2.53	0.296	A	2	A	B
5	T	Chloromethane	50	2.57	0.301	A	1	A	B
6	T	Vinyl chloride	62	2.70	0.316	A	1	A	B
7	T	Bromomethane	94	3.24	0.380	A	1	A	B
8	T	Chloroethane	64	3.24	0.380	A	1	A	B
9	T	Dichlorofluoromethane	67	3.36	0.393	A	1	A	B
10	T	Trichlorofluoromethane	101	3.63	0.425	A	1	A	B
11	T	Acrolein	56	4.01	0.470	A	1	A	B
12	T	1,1,2-Trichloro-1,2,2-trifluor	151	4.15	0.485	A	1	A	B
13	T	Acetone	43	4.09	0.478	A	1	A	B
14	T	1,1-Dichloroethene	61	4.25	0.497	A	2	A	B
15	T	tert-Butyl alcohol	59	4.37	0.511	A	1	A	B
16	T	Iodomethane	142	4.67	0.546	A	1	A	B
17	T	Methyl acetate	43	4.68	0.548	A	1	A	B
18	T	Methylene chloride	49	4.89	0.572	A	2	A	B
19	T	Carbon disulfide	76	4.90	0.574	A	1	A	B
20	T	Acrylonitrile	53	5.05	0.591	A	2	A	B
21	T	tert-Butyl methyl ether (MTBE)	73	5.08	0.595	A	1	A	B
22	T	trans-1,2-Dichloroethene	61	5.27	0.617	A	2	A	B
23	T	Isopropyl ether (DIPE)	45	5.69	0.666	A	1	A	B
24	T	Vinyl acetate	43	5.85	0.685	A	1	A	B
25	T	1,1-Dichloroethane	63	5.84	0.683	A	2	A	B
26	T	2-Butanol	45	6.17	0.723	A	1	A	B
27	T	tert-Butyl ethyl ether (ETBE)	59	6.25	0.731	A	1	A	B
28	T	2-Butanone	43	6.43	0.752	A	1	A	B
29	T	2,2-Dichloropropane	77	6.63	0.777	A	2	A	B
30	T	cis-1,2-Dichloroethene	96	6.69	0.783	A	2	A	B
31	T	Chloroform	83	6.92	0.809	A	2	A	B
32	T	Bromochloromethane	49	7.15	0.837	A	2	A	B
33	T	Tetrahydrofuran	42	7.21	0.844	A	2	A	B
34	S	Dibromofluoromethane	111	7.23	0.846	A	2	A	B
35	T	1,1,1-Trichloroethane	97	7.49	0.877	A	2	A	B
36	T	Cyclohexane	84	7.52	0.880	A	1	A	B
37	T	2,2,4-Trimethylpentane	57	7.52	0.880	A	1	A	B
38	T	1,1-Dichloropropene	110	7.72	0.903	A	1	A	B
39	T	Carbon tetrachloride	119	7.88	0.922	A	1	A	B
40	T	tert-Amyl methyl ether (TAME)	73	7.89	0.924	A	1	A	B
41	S	1,2-Dichloroethane-d4	65	7.97	0.932	A	1	A	B
42	T	Benzene	78	8.13	0.952	A	2	A	B
43	T	1,2-Dichloroethane	62	8.10	0.948	A	1	A	B
44	T	Trichloroethene	130	9.06	1.061	A	3	A	B
45	T	Methylcyclohexane	83	9.15	1.071	A	2	A	B
46	T	1,2-Dichloropropane	63	9.34	1.094	A	1	A	B
47	T	Bromodichloromethane	83	9.71	1.137	A	1	A	B
48	T	1,4-Dioxane	88	9.76	1.142	A	1	A	B
49	T	Dibromomethane	93	9.80	1.147	A	2	A	B
50	T	2-Chloroethyl vinyl ether	63	10.22	1.196	L	2	A	B
51	T	4-Methyl-2-pentanone	43	10.25	1.199	A	3	A	B
52	T	cis-1,3-Dichloropropene	75	10.60	1.241	A	1	A	B

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53	I	CHLOROBENZENE-D5	117	13.70	1.000	A	2	A	B
54	S	Toluene-d8	98	11.02	0.804	A	1	A	B
55	T	Toluene	91	11.15	0.814	A	1	A	B
56	T	Ethyl methacrylate	69	11.43	0.835	A	1	A	B
57	T	trans-1,3-Dichloropropene	75	11.46	0.837	A	1	A	B
58	T	1,1,2-Trichloroethane	97	11.73	0.856	A	2	A	B
59	T	2-Hexanone	43	11.74	0.857	A	1	A	B
60	T	1,3-Dichloropropane	76	12.17	0.889	A	1	A	B
61	T	Tetrachloroethene	164	12.28	0.896	A	3	A	B
62	T	Dibromochloromethane	129	12.65	0.923	A	1	A	B
63	T	1,2-Dibromoethane	107	13.02	0.950	A	1	A	B
64	T	1-Chlorohexane	91	13.28	0.970	A	1	A	B
65	P,M	Chlorobenzene	112	13.77	1.005	A	1	A	B
66	T	1,1,1,2-Tetrachloroethane	131	13.85	1.011	A	1	A	B
67	T	Ethylbenzene	91	13.86	1.012	A	1	A	B
68	T	m-Xylene & p-Xylene	91	13.99	1.022	A	1	A	B
69	T	o-Xylene	91	14.82	1.082	A	1	A	B
70	T	Styrene	104	14.88	1.086	A	2	A	B
71	T	Isopropylbenzene	105	15.50	1.132	A	3	A	B
72	I	1,2-DICHLOROBENZENE-D4	152	18.67	1.000	A	1	A	B
73	T	Bromoform	173	15.53	0.832	L	1	A	B
74	T	trans-1,4-Dichloro-2-butene	53	15.61	0.836	A	1	A	B
75	T	1,1,2,2-Tetrachloroethane	83	15.85	0.849	A	1	A	B
76	S	4-Bromofluorobenzene	95	15.98	0.856	A	2	A	B
77	T	1,2,3-Trichloropropane	110	16.13	0.864	A	1	A	B
78	T	n-Propylbenzene	91	16.27	0.872	A	2	A	B
79	T	Bromobenzene	156	16.36	0.876	A	1	A	B
80	T	1,3,5-Trimethylbenzene	105	16.59	0.888	A	2	A	B
81	T	2-Chlorotoluene	91	16.62	0.890	A	1	A	B
82	T	4-Chlorotoluene	91	16.70	0.895	A	1	A	B
83	T	tert-Butylbenzene	134	17.27	0.925	A	1	A	B
84	T	1,2,4-Trimethylbenzene	105	17.34	0.929	A	1	A	B
85	T	sec-Butylbenzene	105	17.64	0.944	A	1	A	B
86	T	p-Isopropyltoluene	119	17.86	0.956	A	2	A	B
87	T	1,3-Dichlorobenzene	146	18.01	0.964	A	2	A	B
88	T	1,2,3-Trimethylbenzene	105	18.11	0.970	A	2	A	B
89	T	1,4-Dichlorobenzene	146	18.17	0.973	A	2	A	B
90	T	n-Butylbenzene	91	18.48	0.990	A	2	A	B
91	T	1,2-Dichlorobenzene	146	18.70	1.002	A	1	A	B
92	T	1,2-Dibromo-3-chloropropane	157	19.71	1.056	A	1	A	B
93	T	1,2,4-Trichlorobenzene	180	20.79	1.113	A	2	A	B
94	T	Hexachlorobutadiene	225	20.95	1.122	A	1	A	B
95	T	Naphthalene	128	21.13	1.132	A	1	A	B
96	T	1,2,3-Trichlorobenzene	180	21.46	1.149	A	2	A	B

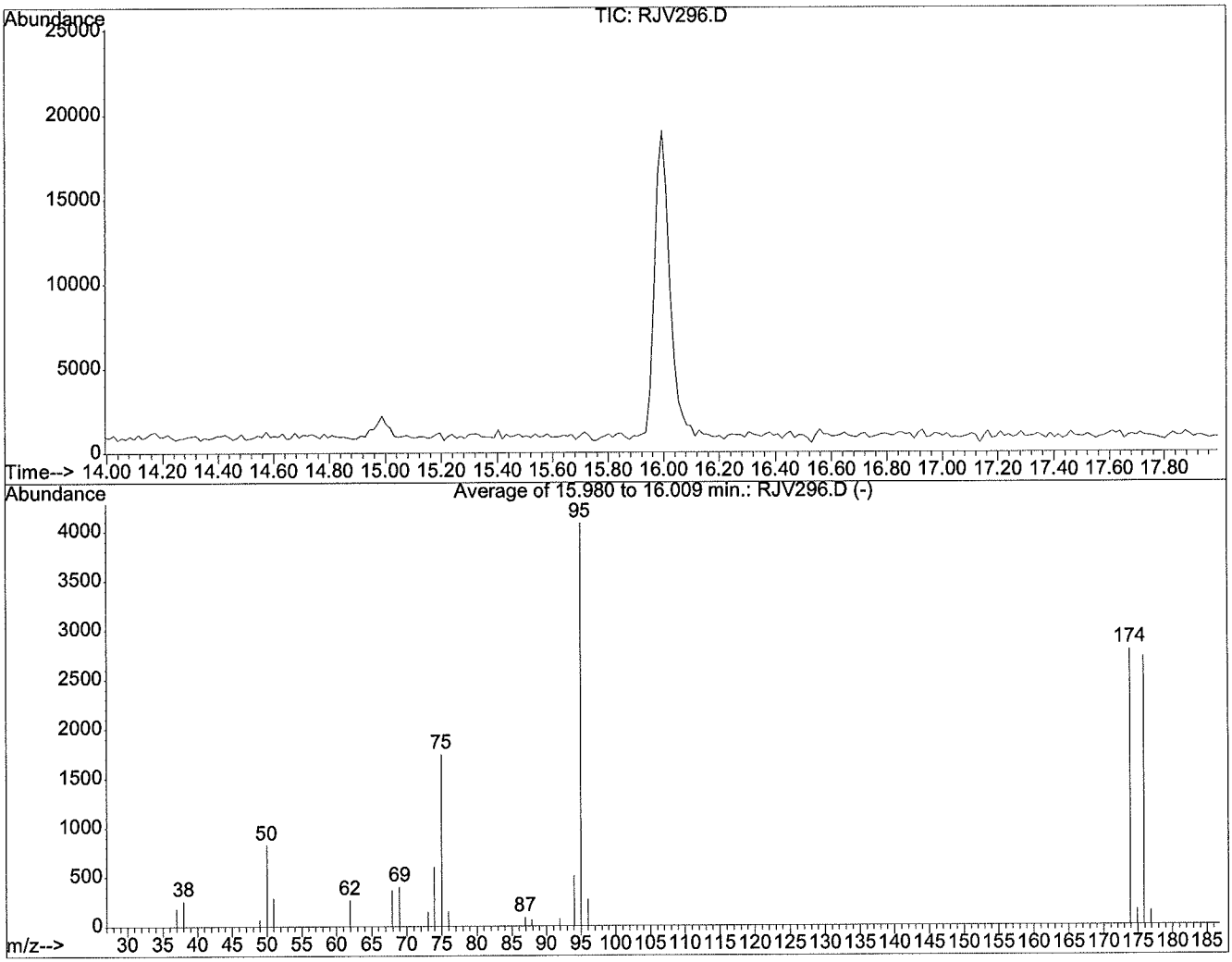
Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

VO01J12.M Thu Oct 24 09:08:04 2024

SU 10/30/24

Data File : D:\HPCHEM\1\DATA\24J12\RJV296.D
Acq On : 12 Oct 2024 12:56 pm
Sample : BFB01J13
Misc : T/CHK
MS Integration Params: RTE.P
Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls

Vial: 1
Operator: DNguye
Inst : 01
Multiplr: 1.00



AutoFind: Scans 949, 950, 951; Background Corrected with Scan 943

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.2	827	PASS
75	95	30	60	42.7	1744	PASS
95	95	100	100	100.0	4085	PASS
96	95	5	9	6.7	272	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	68.5	2797	PASS
175	174	5	9	5.6	157	PASS
176	174	95	101	97.5	2727	PASS
177	176	5	9	5.3	145	PASS

RJV296.D VO01J12.M Thu Oct 24 09:04:34 2024 SV 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV297.D Vial: 2
Acq On : 12 Oct 2024 1:38 pm Operator: DNguye
Sample : VO01J121 0.03/0.15 Inst : 01
Misc : 0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.53	114	846934	10.00	ug/l		-0.01
53) CHLOROBENZENE-D5	13.68	117	644827	10.00	ug/l		-0.01
72) 1,2-DICHLOROBENZENE-D4	18.66	152	249254	10.00	ug/l		-0.01
System Monitoring Compounds							
34) Dibromofluoromethane	7.23	111	4440	0.20	ug/l		0.00
Spiked Amount 10.000			Recovery =	2.00%			
41) 1,2-Dichloroethane-d4	7.95	65	3668	0.19	ug/l		-0.01
Spiked Amount 10.000			Recovery =	1.90%			
54) Toluene-d8	11.02	98	22073	0.25	ug/l		0.00
Spiked Amount 10.000			Recovery =	2.50%			
76) 4-Bromofluorobenzene	15.99	95	7505	0.25	ug/l		0.02
Spiked Amount 10.000			Recovery =	2.50%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	2.23	85	8790	0.25	ug/l		71
5) Chloromethane	2.56	50	5693	0.22	ug/l		71
6) Vinyl chloride	2.69	62	4962	0.21	ug/l		59
7) Bromomethane	3.21	94	5188	0.31	ug/l	#	56
8) Chloroethane	3.23	64	2877	0.16	ug/l	#	40
9) Dichlorofluoromethane	3.35	67	8444	0.26	ug/l		89
10) Trichlorofluoromethane	3.60	101	5514	0.15	ug/l		99
12) 1,1,2-Trichloro-1,2,2-trif	4.13	151	3901	0.25	ug/l		62
13) Acetone	4.07	43	30027	9.60	ug/l		90
14) 1,1-Dichloroethene	4.24	61	10999	0.28	ug/l		91
15) tert-Butyl alcohol	4.37	59	3214	4.11	ug/l		83
16) Iodomethane	4.65	142	8686	0.26	ug/l		90
17) Methyl acetate	4.66	43	2257	0.28	ug/l	#	58
18) Methylene chloride	4.87	49	7895	0.28	ug/l	#	31
19) Carbon disulfide	4.87	76	17610	0.21	ug/l	#	74
20) Acrylonitrile	5.08	53	2060	0.70	ug/l	#	30
21) tert-Butyl methyl ether (M	5.08	73	8913	0.23	ug/l		91
22) trans-1,2-Dichloroethene	5.26	61	10380	0.27	ug/l		99
23) Isopropyl ether (DIPE)	5.67	45	21004	0.26	ug/l		89
24) Vinyl acetate	5.86	43	4836	0.19	ug/l	#	75
25) 1,1-Dichloroethane	5.82	63	11955	0.27	ug/l		89
27) tert-Butyl ethyl ether (ET	6.25	59	14628	0.25	ug/l		93
28) 2-Butanone	6.50	43	6566	1.37	ug/l	#	58
29) 2,2-Dichloropropane	6.62	77	10877	0.29	ug/l		90
30) cis-1,2-Dichloroethene	6.68	96	7232	0.27	ug/l		97
31) Chloroform	6.90	83	14103	0.31	ug/l		93
32) Bromochloromethane	7.14	49	4623	0.27	ug/l		86

(#) = qualifier out of range (m) = manual integration

SY 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV297.D Vial: 2
Acq On : 12 Oct 2024 1:38 pm Operator: DNguye
Sample : VO01J121 0.03/0.15 Inst : 01
Misc : 0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	1,1,1-Trichloroethane	7.49	97	10535	0.26	ug/l		97
36)	Cyclohexane	7.52	84	11360	0.27	ug/l		96
38)	1,1-Dichloropropene	7.72	110	3175	0.26	ug/l		94
39)	Carbon tetrachloride	7.86	119	7579	0.25	ug/l		91
40)	tert-Amyl methyl ether (TA	7.88	73	11744	0.26	ug/l		87
42)	Benzene	8.12	78	29150	0.30	ug/l		96
43)	1,2-Dichloroethane	8.10	62	4840	0.22	ug/l		96
44)	Trichloroethene	9.06	130	7111	0.28	ug/l		99
45)	Methylcyclohexane	9.14	83	16060	0.32	ug/l		99
46)	1,2-Dichloropropane	9.34	63	6380	0.29	ug/l		83
47)	Bromodichloromethane	9.71	83	8435	0.28	ug/l		96
49)	Dibromomethane	9.82	93	2317	0.24	ug/l	#	70
51)	4-Methyl-2-pentanone	10.37	43	9490	0.88	ug/l	#	77
52)	cis-1,3-Dichloropropene	10.62	75	7489	0.23	ug/l		91
55)	Toluene	11.15	91	30923	0.30	ug/l		99
56)	Ethyl methacrylate	11.52	69	2684	0.18	ug/l		76
57)	trans-1,3-Dichloropropene	11.49	75	5067	0.22	ug/l		79
58)	1,1,2-Trichloroethane	11.74	97	2850	0.23	ug/l		96
59)	2-Hexanone	11.92	43	3083	0.46	ug/l	#	29
60)	1,3-Dichloropropane	12.17	76	5524	0.23	ug/l		95
61)	Tetrachloroethene	12.28	164	6881	0.31	ug/l		92
62)	Dibromochloromethane	12.65	129	3881	0.26	ug/l		95
63)	1,2-Dibromoethane	13.03	107	2616	0.22	ug/l		91
64)	1-Chlorohexane	13.28	91	14462	0.30	ug/l		95
65)	Chlorobenzene	13.76	112	17322	0.28	ug/l		90
66)	1,1,1,2-Tetrachloroethane	13.83	131	4237	0.23	ug/l		87
67)	Ethylbenzene	13.86	91	37251	0.31	ug/l		100
68)	m-Xylene & p-Xylene	14.01	91	59146	0.62	ug/l		97
69)	o-Xylene	14.82	91	27516	0.29	ug/l		93
70)	Styrene	14.90	104	18326	0.27	ug/l		98
71)	Isopropylbenzene	15.50	105	35505	0.28	ug/l		96
73)	Bromoform	15.55	173	1009	0.36	ug/l	#	29
75)	1,1,2,2-Tetrachloroethane	15.85	83	2875	0.22	ug/l		95
78)	n-Propylbenzene	16.27	91	47121	0.32	ug/l		98
79)	Bromobenzene	16.36	156	6024	0.28	ug/l		97
80)	1,3,5-Trimethylbenzene	16.59	105	28148	0.31	ug/l		98
81)	2-Chlorotoluene	16.62	91	27464	0.31	ug/l		95
82)	4-Chlorotoluene	16.72	91	26713	0.33	ug/l		92
83)	tert-Butylbenzene	17.25	134	5990	0.29	ug/l		85
84)	1,2,4-Trimethylbenzene	17.34	105	27737	0.31	ug/l		100
85)	sec-Butylbenzene	17.64	105	43875	0.34	ug/l		98

(#) = qualifier out of range (m) = manual integration

SH 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV297.D Vial: 2
Acq On : 12 Oct 2024 1:38 pm Operator: DNguye
Sample : VO01J121 0.03/0.15 Inst : 01
Misc : 0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	p-Isopropyltoluene	17.86	119	32571	0.32	ug/l	98
87)	1,3-Dichlorobenzene	18.01	146	13067	0.30	ug/l	96
88)	1,2,3-Trimethylbenzene	18.11	105	24287	0.30	ug/l	97
89)	1,4-Dichlorobenzene	18.17	146	13805	0.32	ug/l	91
90)	n-Butylbenzene	18.48	91	36253	0.33	ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	10393	0.30	ug/l	93
93)	1,2,4-Trichlorobenzene	20.79	180	6976	0.29	ug/l	88
94)	Hexachlorobutadiene	20.95	225	4289	0.28	ug/l	90
95)	Naphthalene	21.15	128	9391	0.32	ug/l	89
96)	1,2,3-Trichlorobenzene	21.46	180	4448	0.26	ug/l	88

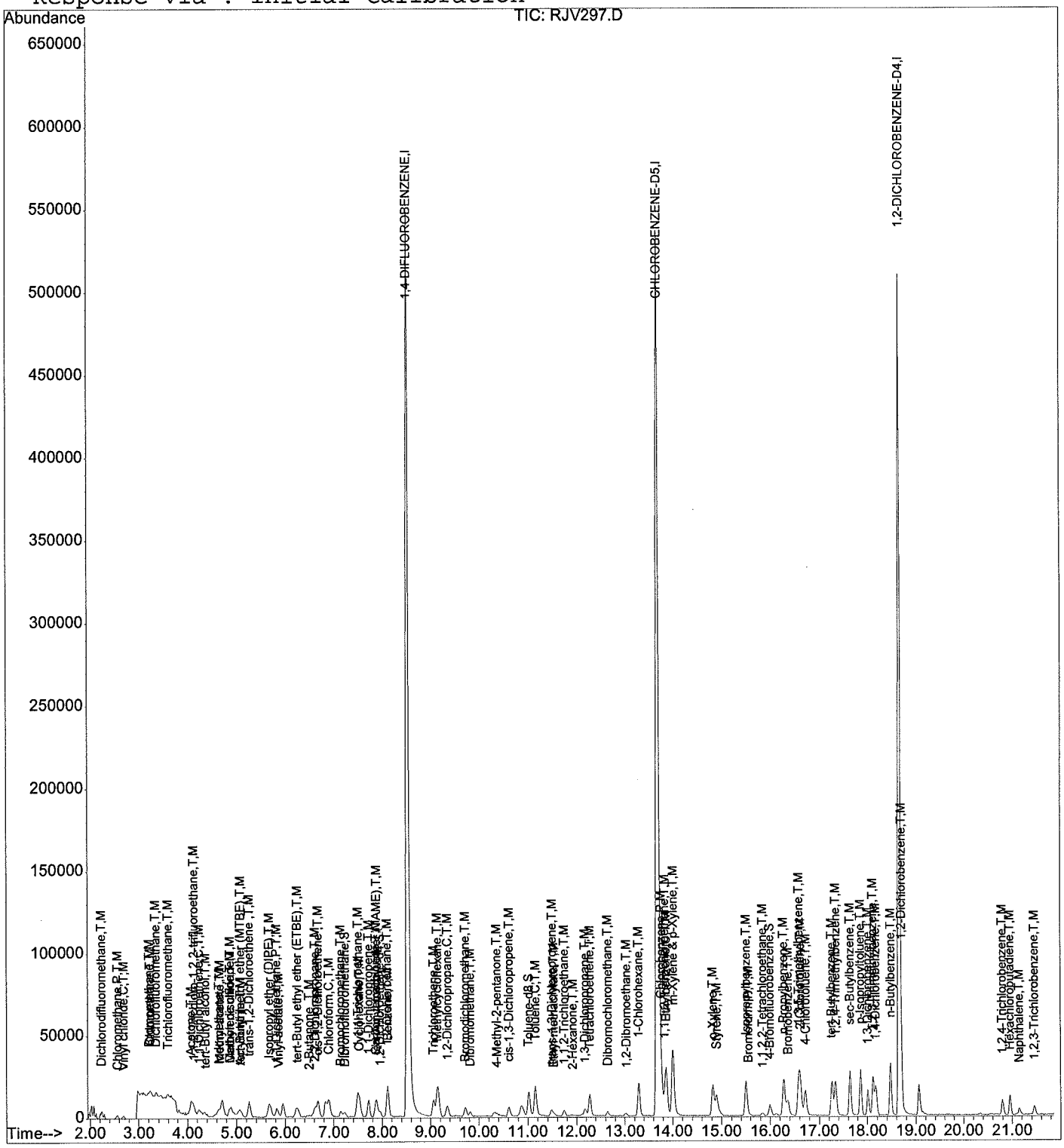
SU 10/30/24

(#) = qualifier out of range (m) = manual integration
RJV297.D VO01J12.M Thu Oct 24 09:04:47 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV297.D Vial: 2
Acq On : 12 Oct 2024 1:38 pm Operator: DNguye
Sample : VO01J121 0.03/0.15 Inst : 01
Misc : 0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV298.D Vial: 3
Acq On : 12 Oct 2024 2:08 pm Operator: DNguye
Sample : VO01J122 0.05/0.25 Inst : 01
Misc : 0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.55	114	1024916	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.68	117	790592	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	18.66	152	300897	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	7030	0.26	ug/l	0.00
Spiked Amount 10.000			Recovery = 2.60%			
41) 1,2-Dichloroethane-d4	7.95	65	5946	0.25	ug/l	-0.01
Spiked Amount 10.000			Recovery = 2.50%			
54) Toluene-d8	11.02	98	33721	0.31	ug/l	0.00
Spiked Amount 10.000			Recovery = 3.10%			
76) 4-Bromofluorobenzene	15.99	95	10661	0.30	ug/l	0.02
Spiked Amount 10.000			Recovery = 3.00%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.25	85	19641	0.47	ug/l	93
5) Chloromethane	2.56	50	15865	0.50	ug/l	85
6) Vinyl chloride	2.69	62	12377	0.44	ug/l	83
7) Bromomethane	3.23	94	10276	0.51	ug/l	73
8) Chloroethane	3.21	64	8972	0.42	ug/l	74
9) Dichlorofluoromethane	3.35	67	24786	0.64	ug/l	81
10) Trichlorofluoromethane	3.63	101	21607	0.47	ug/l	97
11) Acrolein	4.01	56	625	0.80	ug/l #	53
12) 1,1,2-Trichloro-1,2,2-trif	4.15	151	9222	0.49	ug/l	97
13) Acetone	4.10	43	14391	3.80	ug/l	85
14) 1,1-Dichloroethene	4.24	61	24332	0.51	ug/l	92
15) tert-Butyl alcohol	4.38	59	9963	10.52	ug/l	89
16) Iodomethane	4.68	142	18672	0.46	ug/l	95
17) Methyl acetate	4.68	43	11883	1.22	ug/l #	58
18) Methylene chloride	4.89	49	17946	0.52	ug/l	92
19) Carbon disulfide	4.89	76	39068	0.39	ug/l	95
20) Acrylonitrile	5.08	53	6650	1.87	ug/l	86
21) tert-Butyl methyl ether (M	5.08	73	21192	0.45	ug/l	93
22) trans-1,2-Dichloroethene	5.27	61	22645	0.49	ug/l	99
23) Isopropyl ether (DIPE)	5.69	45	46767	0.49	ug/l	97
24) Vinyl acetate	5.86	43	15474	0.50	ug/l #	75
25) 1,1-Dichloroethane	5.84	63	26323	0.49	ug/l	94
26) 2-Butanol	6.34	45	690	0.87	ug/l #	1
27) tert-Butyl ethyl ether (ET	6.25	59	31457	0.45	ug/l	98
28) 2-Butanone	6.47	43	13929	2.40	ug/l	73
29) 2,2-Dichloropropane	6.63	77	22807	0.50	ug/l	97
30) cis-1,2-Dichloroethene	6.69	96	15912	0.48	ug/l	95

(#) = qualifier out of range (m) = manual integration
RJV298.D VO01J12.M Thu Oct 24 09:05:13 2024 Page 1

SU 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV298.D Vial: 3
Acq On : 12 Oct 2024 2:08 pm Operator: DNguye
Sample : VO01J122 0.05/0.25 Inst : 01
Misc : 0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Chloroform	6.90	83	28262	0.51 ug/l		98
32)	Bromochloromethane	7.15	49	8892	0.44 ug/l		97
35)	1,1,1-Trichloroethane	7.49	97	23731	0.48 ug/l		95
36)	Cyclohexane	7.51	84	23171	0.46 ug/l		98
38)	1,1-Dichloropropene	7.72	110	7004	0.47 ug/l		98
39)	Carbon tetrachloride	7.86	119	17909	0.48 ug/l		90
40)	tert-Amyl methyl ether (TA	7.89	73	26461	0.49 ug/l		90
42)	Benzene	8.12	78	60474	0.52 ug/l		97
43)	1,2-Dichloroethane	8.10	62	11722	0.45 ug/l		96
44)	Trichloroethene	9.06	130	16015	0.52 ug/l		92
45)	Methylcyclohexane	9.15	83	28732	0.48 ug/l		97
46)	1,2-Dichloropropane	9.34	63	12037	0.46 ug/l		98
47)	Bromodichloromethane	9.72	83	17160	0.47 ug/l		95
49)	Dibromomethane	9.82	93	5267	0.46 ug/l		87
51)	4-Methyl-2-pentanone	10.31	43	23736	1.83 ug/l		87
52)	cis-1,3-Dichloropropene	10.62	75	18260	0.46 ug/l		96
55)	Toluene	11.15	91	66356	0.53 ug/l		100
56)	Ethyl methacrylate	11.52	69	6230	0.35 ug/l	#	65
57)	trans-1,3-Dichloropropene	11.48	75	12223	0.43 ug/l		91
58)	1,1,2-Trichloroethane	11.74	97	7563	0.49 ug/l		92
59)	2-Hexanone	11.85	43	9326	1.14 ug/l		100
60)	1,3-Dichloropropane	12.19	76	13243	0.46 ug/l		97
61)	Tetrachloroethene	12.28	164	14058	0.52 ug/l		94
62)	Dibromochloromethane	12.65	129	8921	0.49 ug/l		90
63)	1,2-Dibromoethane	13.02	107	6660	0.46 ug/l		96
64)	1-Chlorohexane	13.28	91	29446	0.50 ug/l		94
65)	Chlorobenzene	13.76	112	37257	0.50 ug/l		98
66)	1,1,1,2-Tetrachloroethane	13.85	131	10367	0.45 ug/l		97
67)	Ethylbenzene	13.86	91	76866	0.52 ug/l		98
68)	m-Xylene & p-Xylene	13.99	91	114294	0.98 ug/l		99
69)	o-Xylene	14.82	91	57288	0.50 ug/l		98
70)	Styrene	14.90	104	38771	0.46 ug/l		97
71)	Isopropylbenzene	15.49	105	73409	0.47 ug/l		99
73)	Bromoform	15.53	173	2835	0.55 ug/l		57
74)	trans-1,4-Dichloro-2-buten	15.62	53	1480	0.32 ug/l		95
75)	1,1,2,2-Tetrachloroethane	15.85	83	7374	0.46 ug/l		91
77)	1,2,3-Trichloropropane	16.13	110	1678	0.38 ug/l		99
78)	n-Propylbenzene	16.28	91	94614	0.53 ug/l		97
79)	Bromobenzene	16.36	156	12715	0.49 ug/l		100
80)	1,3,5-Trimethylbenzene	16.59	105	58068	0.53 ug/l		98
81)	2-Chlorotoluene	16.62	91	56608	0.52 ug/l		98

(#) = qualifier out of range (m) = manual integration

SV 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV298.D Vial: 3
Acq On : 12 Oct 2024 2:08 pm Operator: DNguye
Sample : VO01J122 0.05/0.25 Inst : 01
Misc : 0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	4-Chlorotoluene	16.70	91	51681	0.53	ug/l	100
83)	tert-Butylbenzene	17.27	134	11839	0.48	ug/l	94
84)	1,2,4-Trimethylbenzene	17.34	105	53985	0.50	ug/l	98
85)	sec-Butylbenzene	17.64	105	82867	0.53	ug/l	99
86)	p-Isopropyltoluene	17.86	119	63955	0.53	ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	25802	0.50	ug/l	99
88)	1,2,3-Trimethylbenzene	18.11	105	50600	0.52	ug/l	95
89)	1,4-Dichlorobenzene	18.17	146	26890	0.52	ug/l	94
90)	n-Butylbenzene	18.47	91	69951	0.53	ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	20913	0.49	ug/l	100
93)	1,2,4-Trichlorobenzene	20.79	180	14779	0.52	ug/l	91
94)	Hexachlorobutadiene	20.95	225	9230	0.50	ug/l	96
95)	Naphthalene	21.15	128	15091	0.43	ug/l	98
96)	1,2,3-Trichlorobenzene	21.46	180	9790	0.47	ug/l	98

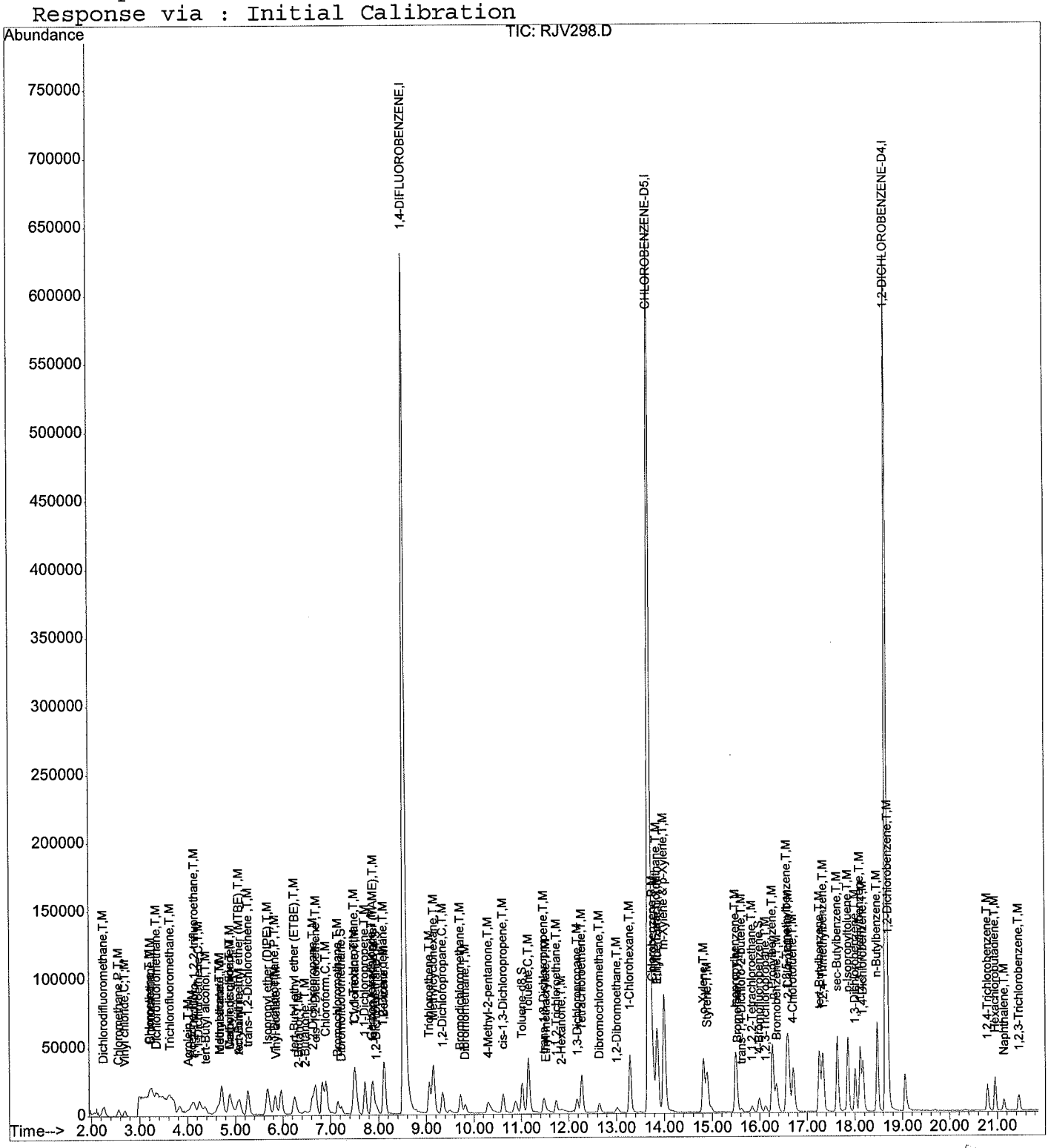
SV

(#) = qualifier out of range (m) = manual integration
RJV298.D VO01J12.M Thu Oct 24 09:05:14 2024 10/30/24 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV298.D Vial: 3
Acq On : 12 Oct 2024 2:08 pm Operator: DNguye
Sample : VO01J122 0.05/0.25 Inst : 01
Misc : 0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV299.D Vial: 4
Acq On : 12 Oct 2024 2:39 pm Operator: DNguye
Sample : VO01J123 0.1/0.5 Inst : 01
Misc : 1ppb 8260/5ppb KET-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.55	114	863069	10.00	ug/l		0.00
53) CHLOROBENZENE-D5	13.68	117	665582	10.00	ug/l		-0.01
72) 1,2-DICHLOROBENZENE-D4	18.66	152	264976	10.00	ug/l		-0.01
System Monitoring Compounds							
34) Dibromofluoromethane	7.23	111	22505	1.00	ug/l		0.00
Spiked Amount 10.000			Recovery =	10.00%			
41) 1,2-Dichloroethane-d4	7.97	65	19601	0.99	ug/l		0.00
Spiked Amount 10.000			Recovery =	9.90%			
54) Toluene-d8	11.02	98	94707	1.03	ug/l		0.00
Spiked Amount 10.000			Recovery =	10.30%			
76) 4-Bromofluorobenzene	15.99	95	32723	1.04	ug/l		0.02
Spiked Amount 10.000			Recovery =	10.40%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	2.26	85	39243	1.11	ug/l		92
5) Chloromethane	2.57	50	30460	1.14	ug/l		95
6) Vinyl chloride	2.70	62	25359	1.07	ug/l		99
7) Bromomethane	3.23	94	19265	1.13	ug/l		81
8) Chloroethane	3.23	64	18347	1.03	ug/l		81
9) Dichlorofluoromethane	3.35	67	33367	1.02	ug/l		97
10) Trichlorofluoromethane	3.63	101	40766	1.06	ug/l		95
11) Acrolein	4.01	56	2895	4.39	ug/l		96
12) 1,1,2-Trichloro-1,2,2-trif	4.13	151	16799	1.06	ug/l		91
13) Acetone	4.09	43	23140	7.26	ug/l		90
14) 1,1-Dichloroethene	4.23	61	44907	1.12	ug/l		98
15) tert-Butyl alcohol	4.38	59	18846	23.64	ug/l		77
16) Iodomethane	4.65	142	37685	1.10	ug/l		99
17) Methyl acetate	4.68	43	10690	1.30	ug/l	#	58
18) Methylene chloride	4.87	49	33196	1.14	ug/l		96
19) Carbon disulfide	4.89	76	81448	0.97	ug/l		99
20) Acrylonitrile	5.08	53	13914	4.65	ug/l		93
21) tert-Butyl methyl ether (M	5.08	73	42990	1.08	ug/l		93
22) trans-1,2-Dichloroethene	5.26	61	43417	1.12	ug/l		98
23) Isopropyl ether (DIPE)	5.67	45	91090	1.12	ug/l		99
24) Vinyl acetate	5.85	43	28463	1.10	ug/l		86
25) 1,1-Dichloroethane	5.83	63	52190	1.15	ug/l		94
26) 2-Butanol	6.26	45	8708	13.03	ug/l	#	1
27) tert-Butyl ethyl ether (ET	6.23	59	66134	1.12	ug/l		98
28) 2-Butanone	6.46	43	28761	5.89	ug/l		81
29) 2,2-Dichloropropane	6.62	77	44732	1.15	ug/l		96
30) cis-1,2-Dichloroethene	6.69	96	31078	1.12	ug/l		97

(#) = qualifier out of range (m) = manual integration

10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV299.D Vial: 4
Acq On : 12 Oct 2024 2:39 pm Operator: DNguye
Sample : VO01J123 0.1/0.5 Inst : 01
Misc : 1ppb 8260/5ppb KET-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.90	83	54449	1.18	ug/l		96
32)	Bromochloromethane	7.15	49	19689	1.15	ug/l		92
33)	Tetrahydrofuran	7.23	42	2685	0.99	ug/l	#	40
35)	1,1,1-Trichloroethane	7.49	97	47315	1.14	ug/l		96
36)	Cyclohexane	7.51	84	43185	1.01	ug/l		98
37)	2,2,4-Trimethylpentane	7.52	57	1092	0.53	ug/l	#	100
38)	1,1-Dichloropropene	7.70	110	13671	1.09	ug/l		95
39)	Carbon tetrachloride	7.86	119	34771	1.11	ug/l		96
40)	tert-Amyl methyl ether (TA	7.89	73	51861	1.15	ug/l		94
42)	Benzene	8.11	78	113163	1.15	ug/l		98
43)	1,2-Dichloroethane	8.10	62	25132	1.14	ug/l		97
44)	Trichloroethene	9.06	130	28726	1.10	ug/l		97
45)	Methylcyclohexane	9.15	83	48077	0.95	ug/l		97
46)	1,2-Dichloropropane	9.34	63	24616	1.11	ug/l		98
47)	Bromodichloromethane	9.71	83	34032	1.12	ug/l		98
48)	1,4-Dioxane	9.82	88	195	2.29	ug/l	#	20
49)	Dibromomethane	9.80	93	11313	1.17	ug/l		91
50)	2-Chloroethyl vinyl ether	10.23	63	468	1.26	ug/l	#	43
51)	4-Methyl-2-pentanone	10.28	43	51833	4.74	ug/l		97
52)	cis-1,3-Dichloropropene	10.60	75	36206	1.09	ug/l		96
55)	Toluene	11.15	91	125121	1.19	ug/l		100
56)	Ethyl methacrylate	11.46	69	14246	0.94	ug/l		86
57)	trans-1,3-Dichloropropene	11.48	75	24650	1.03	ug/l		97
58)	1,1,2-Trichloroethane	11.73	97	15119	1.16	ug/l		94
59)	2-Hexanone	11.79	43	25932	3.76	ug/l		99
60)	1,3-Dichloropropane	12.17	76	27065	1.11	ug/l		100
61)	Tetrachloroethene	12.28	164	25118	1.10	ug/l		97
62)	Dibromochloromethane	12.65	129	15336	0.99	ug/l		100
63)	1,2-Dibromoethane	13.02	107	12861	1.05	ug/l		93
64)	1-Chlorohexane	13.28	91	55243	1.12	ug/l		99
65)	Chlorobenzene	13.76	112	69767	1.10	ug/l		98
66)	1,1,1,2-Tetrachloroethane	13.85	131	21346	1.11	ug/l		96
67)	Ethylbenzene	13.86	91	145077	1.16	ug/l		99
68)	m-Xylene & p-Xylene	13.99	91	218861	2.22	ug/l		100
69)	o-Xylene	14.81	91	111172	1.14	ug/l		97
70)	Styrene	14.88	104	78488	1.10	ug/l		99
71)	Isopropylbenzene	15.49	105	143880	1.09	ug/l		99
73)	Bromoform	15.53	173	5978	0.99	ug/l		93
74)	trans-1,4-Dichloro-2-buten	15.61	53	3098	0.76	ug/l		90
75)	1,1,2,2-Tetrachloroethane	15.83	83	15127	1.08	ug/l		94
77)	1,2,3-Trichloropropane	16.13	110	3888	0.99	ug/l		91

(#) = qualifier out of range (m) = manual integration

SM 10/29/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV299.D Vial: 4
Acq On : 12 Oct 2024 2:39 pm Operator: DNguye
Sample : VO01J123 0.1/0.5 Inst : 01
Misc : 1ppb 8260/5ppb KET-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.28	91	184504	1.18	ug/l	98
79)	Bromobenzene	16.36	156	24218	1.07	ug/l	99
80)	1,3,5-Trimethylbenzene	16.57	105	112287	1.16	ug/l	99
81)	2-Chlorotoluene	16.62	91	112150	1.18	ug/l	97
82)	4-Chlorotoluene	16.70	91	92137	1.08	ug/l	97
83)	tert-Butylbenzene	17.25	134	23828	1.09	ug/l	94
84)	1,2,4-Trimethylbenzene	17.33	105	108887	1.15	ug/l	100
85)	sec-Butylbenzene	17.64	105	159519	1.17	ug/l	98
86)	p-Isopropyltoluene	17.86	119	126401	1.19	ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	52027	1.14	ug/l	98
88)	1,2,3-Trimethylbenzene	18.11	105	100861	1.17	ug/l	98
89)	1,4-Dichlorobenzene	18.17	146	52646	1.16	ug/l	97
90)	n-Butylbenzene	18.47	91	133788	1.15	ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	43235	1.16	ug/l	98
92)	1,2-Dibromo-3-chloropropan	19.71	157	1531	0.82	ug/l	97
93)	1,2,4-Trichlorobenzene	20.79	180	26731	1.06	ug/l	94
94)	Hexachlorobutadiene	20.95	225	18415	1.14	ug/l	98
95)	Naphthalene	21.13	128	33323	1.07	ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	20718	1.13	ug/l	96

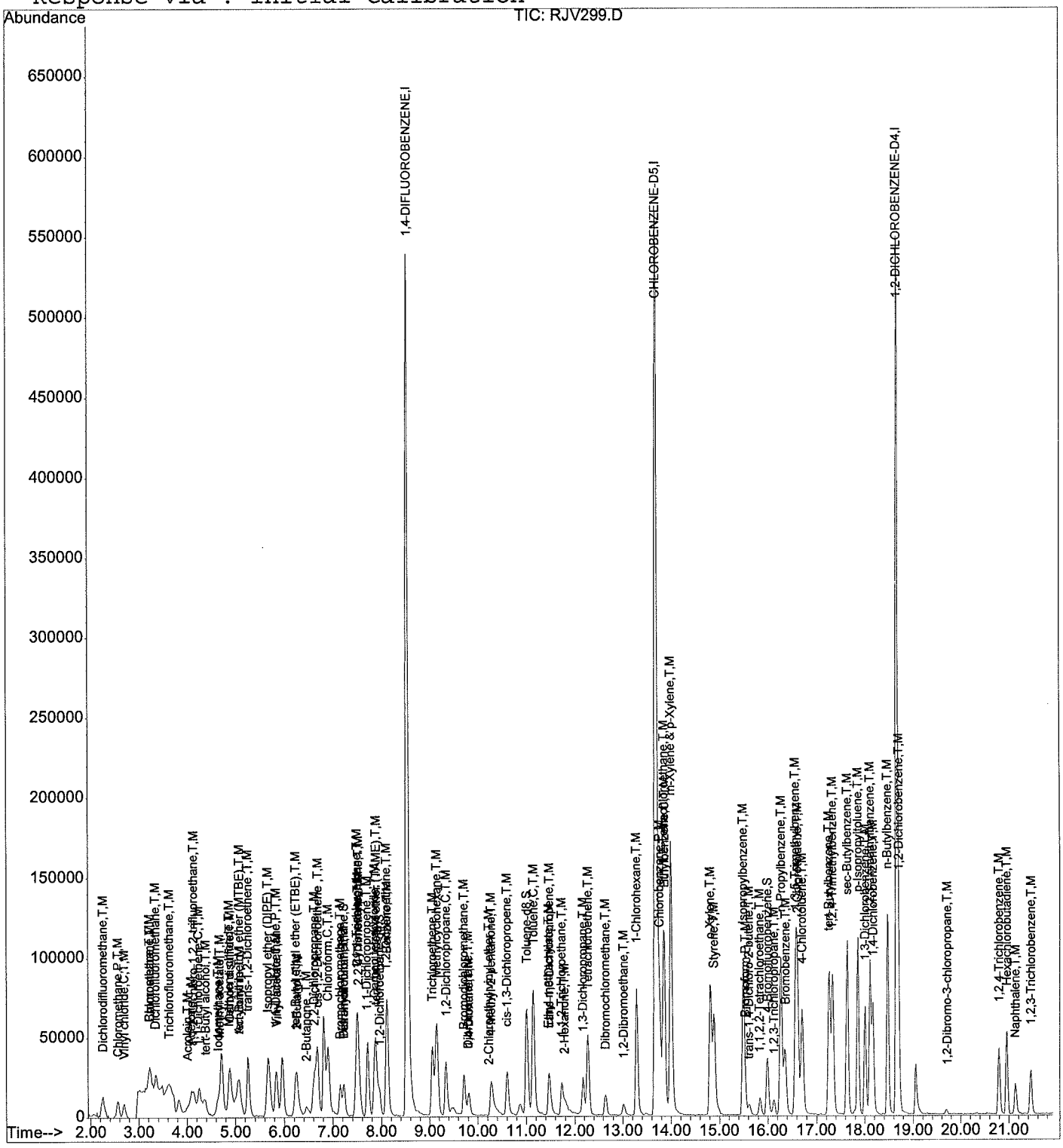
SA
10/30/24

(#) = qualifier out of range (m) = manual integration
RJV299.D VO01J12.M Thu Oct 24 09:05:24 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV299.D Vial: 4
Acq On : 12 Oct 2024 2:39 pm Operator: DNguye
Sample : VO01J123 0.1/0.5 Inst : 01
Misc : 1ppb 8260/5ppb KET-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



SV 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV300.D Vial: 5
Acq On : 12 Oct 2024 3:09 pm Operator: DNguye
Sample : VO01J124 0.2/1.0 Inst : 01
Misc : 2ppb 8260/10ppb KET-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.55	114	922777	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	696403	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.66	152	324601	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	46204	1.92	ug/l	0.00
Spiked Amount 10.000			Recovery =	19.20%		
41) 1,2-Dichloroethane-d4	7.97	65	41927	1.97	ug/l	0.00
Spiked Amount 10.000			Recovery =	19.70%		
54) Toluene-d8	11.02	98	201374	2.10	ug/l	0.00
Spiked Amount 10.000			Recovery =	21.00%		
76) 4-Bromofluorobenzene	15.98	95	66131	1.72	ug/l	0.00
Spiked Amount 10.000			Recovery =	17.20%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.23	85	78454	2.07	ug/l	98
5) Chloromethane	2.55	50	61196	2.14	ug/l	98
6) Vinyl chloride	2.68	62	55170	2.19	ug/l	94
7) Bromomethane	3.23	94	35944	1.98	ug/l	90
8) Chloroethane	3.23	64	38883	2.03	ug/l	99
9) Dichlorofluoromethane	3.36	67	71331	2.04	ug/l	98
10) Trichlorofluoromethane	3.63	101	87666	2.14	ug/l	97
11) Acrolein	4.03	56	6522	9.24	ug/l	97
12) 1,1,2-Trichloro-1,2,2-trif	4.15	151	36789	2.18	ug/l	99
13) Acetone	4.09	43	36289	10.65	ug/l	98
14) 1,1-Dichloroethene	4.25	61	95082	2.21	ug/l	98
15) tert-Butyl alcohol	4.37	59	46964	55.09	ug/l	96
16) Iodomethane	4.65	142	80156	2.19	ug/l	100
17) Methyl acetate	4.68	43	20673	2.35	ug/l	77
18) Methylene chloride	4.87	49	68046	2.19	ug/l	97
19) Carbon disulfide	4.90	76	178502	1.98	ug/l	100
20) Acrylonitrile	5.06	53	34579	10.80	ug/l	96
21) tert-Butyl methyl ether (M	5.08	73	96114	2.25	ug/l	100
22) trans-1,2-Dichloroethene	5.26	61	90285	2.18	ug/l	100
23) Isopropyl ether (DIPE)	5.67	45	189169	2.19	ug/l	100
24) Vinyl acetate	5.85	43	56943	2.06	ug/l	95
25) 1,1-Dichloroethane	5.83	63	104879	2.16	ug/l	98
26) 2-Butanol	6.22	45	28686	40.16	ug/l #	19
27) tert-Butyl ethyl ether (ET	6.25	59	142799	2.27	ug/l	98
28) 2-Butanone	6.44	43	51680	9.89	ug/l	96
29) 2,2-Dichloropropane	6.62	77	93585	2.26	ug/l	98
30) cis-1,2-Dichloroethene	6.69	96	63558	2.14	ug/l	96

(#) = qualifier out of range (m) = manual integration

BU 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV300.D Vial: 5
Acq On : 12 Oct 2024 3:09 pm Operator: DNguye
Sample : VO01J124 0.2/1.0 Inst : 01
Misc : 2ppb 8260/10ppb KET-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.90	83	108957	2.20	ug/l		99
32)	Bromochloromethane	7.15	49	41177	2.24	ug/l		97
33)	Tetrahydrofuran	7.21	42	5857	2.02	ug/l	#	50
35)	1,1,1-Trichloroethane	7.49	97	98660	2.22	ug/l		98
36)	Cyclohexane	7.51	84	94760	2.07	ug/l		98
37)	2,2,4-Trimethylpentane	7.51	57	4158	1.88	ug/l	#	100
38)	1,1-Dichloropropene	7.71	110	28088	2.09	ug/l		97
39)	Carbon tetrachloride	7.86	119	72812	2.17	ug/l		99
40)	tert-Amyl methyl ether (TA	7.89	73	108752	2.25	ug/l		96
42)	Benzene	8.11	78	229449	2.17	ug/l		99
43)	1,2-Dichloroethane	8.10	62	52248	2.22	ug/l		97
44)	Trichloroethene	9.06	130	60002	2.15	ug/l		98
45)	Methylcyclohexane	9.14	83	110767	2.05	ug/l		98
46)	1,2-Dichloropropane	9.35	63	50785	2.14	ug/l		97
47)	Bromodichloromethane	9.72	83	69590	2.14	ug/l		100
48)	1,4-Dioxane	9.79	88	2561	28.17	ug/l		85
49)	Dibromomethane	9.80	93	23149	2.24	ug/l		95
50)	2-Chloroethyl vinyl ether	10.25	63	1840	1.93	ug/l	#	43
51)	4-Methyl-2-pentanone	10.26	43	121251	10.38	ug/l		99
52)	cis-1,3-Dichloropropene	10.60	75	74630	2.09	ug/l		99
55)	Toluene	11.14	91	251316	2.28	ug/l		100
56)	Ethyl methacrylate	11.45	69	33411	2.11	ug/l		89
57)	trans-1,3-Dichloropropene	11.46	75	56806	2.27	ug/l		99
58)	1,1,2-Trichloroethane	11.73	97	30611	2.25	ug/l		97
59)	2-Hexanone	11.76	43	72312	10.01	ug/l		96
60)	1,3-Dichloropropane	12.17	76	58578	2.29	ug/l		99
61)	Tetrachloroethene	12.28	164	52314	2.19	ug/l		99
62)	Dibromochloromethane	12.65	129	34147	2.11	ug/l		99
63)	1,2-Dibromoethane	13.00	107	27441	2.13	ug/l		99
64)	1-Chlorohexane	13.28	91	112011	2.17	ug/l		98
65)	Chlorobenzene	13.76	112	147419	2.23	ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.83	131	44132	2.19	ug/l		99
67)	Ethylbenzene	13.86	91	299342	2.29	ug/l		100
68)	m-Xylene & p-Xylene	14.00	91	451623	4.38	ug/l		99
69)	o-Xylene	14.81	91	229928	2.26	ug/l		97
70)	Styrene	14.88	104	161668	2.17	ug/l		99
71)	Isopropylbenzene	15.49	105	301594	2.18	ug/l		99
73)	Bromoform	15.54	173	14102	1.70	ug/l		98
74)	trans-1,4-Dichloro-2-buten	15.62	53	8221	1.65	ug/l		98
75)	1,1,2,2-Tetrachloroethane	15.83	83	33039	1.93	ug/l		97
77)	1,2,3-Trichloropropane	16.13	110	9132	1.90	ug/l		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV300.D Vial: 5
Acq On : 12 Oct 2024 3:09 pm Operator: DNguye
Sample : VO01J124 0.2/1.0 Inst : 01
Misc : 2ppb 8260/10ppb KET-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78) n-Propylbenzene	16.28	91	381302	1.98	ug/l	99
79) Bromobenzene	16.36	156	52263	1.88	ug/l	100
80) 1,3,5-Trimethylbenzene	16.57	105	228391	1.92	ug/l	100
81) 2-Chlorotoluene	16.62	91	230020	1.97	ug/l	97
82) 4-Chlorotoluene	16.71	91	199913	1.92	ug/l	99
83) tert-Butylbenzene	17.27	134	51264	1.91	ug/l	95
84) 1,2,4-Trimethylbenzene	17.33	105	233727	2.01	ug/l	98
85) sec-Butylbenzene	17.64	105	333974	1.99	ug/l	100
86) p-Isopropyltoluene	17.86	119	260889	2.00	ug/l	98
87) 1,3-Dichlorobenzene	18.01	146	111892	2.00	ug/l	99
88) 1,2,3-Trimethylbenzene	18.11	105	240443	2.27	ug/l	98
89) 1,4-Dichlorobenzene	18.17	146	118112	2.12	ug/l	99
90) n-Butylbenzene	18.47	91	306208	2.14	ug/l	99
91) 1,2-Dichlorobenzene	18.70	146	98743	2.16	ug/l	100
92) 1,2-Dibromo-3-chloropropan	19.70	157	4290	1.87	ug/l	98
93) 1,2,4-Trichlorobenzene	20.79	180	65545	2.12	ug/l	99
94) Hexachlorobutadiene	20.96	225	42489	2.15	ug/l	97
95) Naphthalene	21.13	128	78739	2.07	ug/l	99
96) 1,2,3-Trichlorobenzene	21.46	180	48152	2.15	ug/l	97

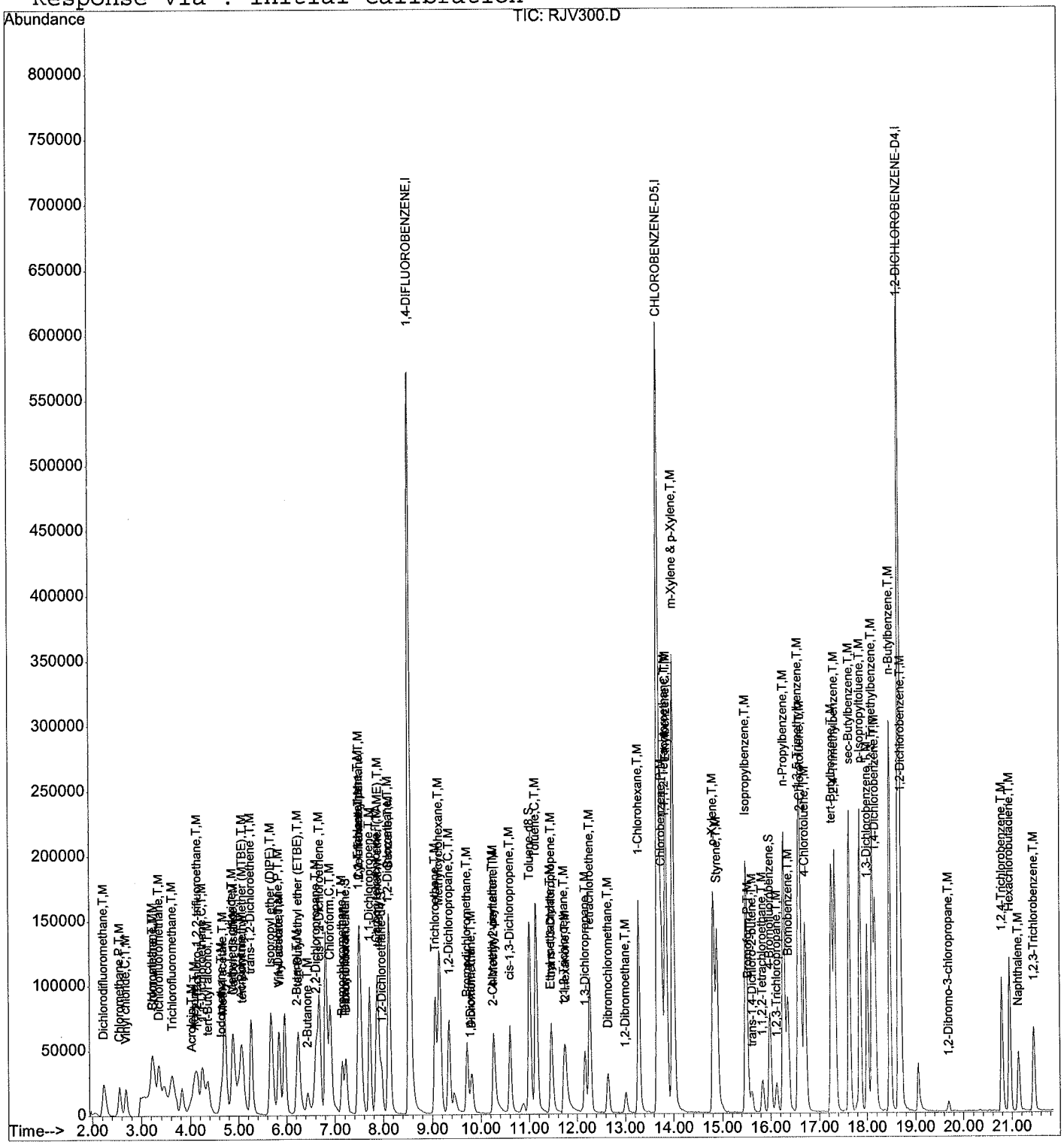
SU

(#) = qualifier out of range (m) = manual integration
RJV300.D VO01J12.M Thu Oct 24 09:05:33 2024 10/30/24 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV300.D Vial: 5
Acq On : 12 Oct 2024 3:09 pm Operator: DNguye
Sample : VO01J124 0.2/1.0 Inst : 01
Misc : 2ppb 8260/10ppb KET-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



SG 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV301.D Vial: 6
Acq On : 12 Oct 2024 3:39 pm Operator: DNguye
Sample : VO01J125 0.5/2.5 Inst : 01
Misc : 5ppb 8260/25ppb KET-AA/125ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.55	114	905492	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	699495	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.66	152	330138	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	119430	5.05	ug/l	0.00
Spiked Amount 10.000			Recovery =	50.50%		
41) 1,2-Dichloroethane-d4	7.97	65	106266	5.10	ug/l	0.00
Spiked Amount 10.000			Recovery =	51.00%		
54) Toluene-d8	11.00	98	504573	5.25	ug/l	-0.01
Spiked Amount 10.000			Recovery =	52.50%		
76) 4-Bromofluorobenzene	15.98	95	193283	4.94	ug/l	0.00
Spiked Amount 10.000			Recovery =	49.40%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.26	85	213384	5.74	ug/l	99
5) Chloromethane	2.57	50	162276	5.78	ug/l	98
6) Vinyl chloride	2.70	62	142672	5.76	ug/l	98
7) Bromomethane	3.24	94	93620	5.24	ug/l	96
8) Chloroethane	3.24	64	100076	5.33	ug/l	96
9) Dichlorofluoromethane	3.36	67	178929	5.21	ug/l	100
10) Trichlorofluoromethane	3.63	101	224076	5.56	ug/l	97
11) Acrolein	4.04	56	17932	25.90	ug/l	60
12) 1,1,2-Trichloro-1,2,2-trif	4.16	151	89590	5.40	ug/l	99
13) Acetone	4.10	43	88863	26.58	ug/l	99
14) 1,1-Dichloroethene	4.26	61	224878	5.32	ug/l	81
15) tert-Butyl alcohol	4.38	59	106937	127.83	ug/l	97
16) Iodomethane	4.68	142	192217	5.36	ug/l	100
17) Methyl acetate	4.68	43	40457	4.69	ug/l	100
18) Methylene chloride	4.89	49	159889	5.25	ug/l	98
19) Carbon disulfide	4.90	76	463404	5.24	ug/l	99
20) Acrylonitrile	5.06	53	84026	26.75	ug/l	99
21) tert-Butyl methyl ether (M	5.08	73	230852	5.52	ug/l	95
22) trans-1,2-Dichloroethene	5.27	61	218546	5.39	ug/l	99
23) Isopropyl ether (DIPE)	5.69	45	460212	5.42	ug/l	99
24) Vinyl acetate	5.85	43	142845	5.25	ug/l	99
25) 1,1-Dichloroethane	5.83	63	256471	5.39	ug/l	98
26) 2-Butanol	6.19	45	85215	121.57	ug/l #	63
27) tert-Butyl ethyl ether (ET	6.25	59	345462	5.59	ug/l	97
28) 2-Butanone	6.44	43	126587	24.69	ug/l	98
29) 2,2-Dichloropropane	6.63	77	215587	5.30	ug/l	99
30) cis-1,2-Dichloroethene	6.69	96	155893	5.35	ug/l	99

(#) = qualifier out of range (m) = manual integration

SM 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV301.D Vial: 6
Acq On : 12 Oct 2024 3:39 pm Operator: DNguye
Sample : VO01J125 0.5/2.5 Inst : 01
Misc : 5ppb 8260/25ppb KET-AA/125ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Chloroform	6.92	83	256128	5.28 ug/l		99
32)	Bromochloromethane	7.15	49	96770	5.37 ug/l		98
33)	Tetrahydrofuran	7.21	42	17760	6.23 ug/l		77
35)	1,1,1-Trichloroethane	7.49	97	238395	5.48 ug/l		100
36)	Cyclohexane	7.52	84	239701	5.34 ug/l		99
37)	2,2,4-Trimethylpentane	7.52	57	11305	5.20 ug/l	#	100
38)	1,1-Dichloropropene	7.73	110	70975	5.38 ug/l		98
39)	Carbon tetrachloride	7.88	119	181220	5.50 ug/l		100
40)	tert-Amyl methyl ether (TA	7.89	73	252534	5.32 ug/l		98
42)	Benzene	8.13	78	554695	5.35 ug/l		99
43)	1,2-Dichloroethane	8.10	62	131745	5.70 ug/l		100
44)	Trichloroethene	9.06	130	142278	5.19 ug/l		99
45)	Methylcyclohexane	9.15	83	272565	5.13 ug/l		99
46)	1,2-Dichloropropane	9.35	63	123974	5.31 ug/l		99
47)	Bromodichloromethane	9.72	83	171758	5.38 ug/l		99
48)	1,4-Dioxane	9.76	88	8371	93.85 ug/l		100
49)	Dibromomethane	9.80	93	54675	5.39 ug/l		95
50)	2-Chloroethyl vinyl ether	10.22	63	6431	4.32 ug/l		98
51)	4-Methyl-2-pentanone	10.26	43	316434	27.60 ug/l		99
52)	cis-1,3-Dichloropropene	10.60	75	188039	5.37 ug/l		99
55)	Toluene	11.14	91	608350	5.49 ug/l		99
56)	Ethyl methacrylate	11.43	69	87665	5.52 ug/l		100
57)	trans-1,3-Dichloropropene	11.46	75	143059	5.70 ug/l		98
58)	1,1,2-Trichloroethane	11.73	97	75365	5.52 ug/l		98
59)	2-Hexanone	11.74	43	197588	27.24 ug/l		99
60)	1,3-Dichloropropane	12.17	76	138369	5.38 ug/l		98
61)	Tetrachloroethene	12.28	164	126542	5.28 ug/l		99
62)	Dibromochloromethane	12.65	129	86037	5.29 ug/l		99
63)	1,2-Dibromoethane	13.02	107	71225	5.51 ug/l		98
64)	1-Chlorohexane	13.28	91	276816	5.34 ug/l		97
65)	Chlorobenzene	13.76	112	354661	5.34 ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	111893	5.52 ug/l		99
67)	Ethylbenzene	13.85	91	720555	5.49 ug/l		100
68)	m-Xylene & p-Xylene	14.00	91	1086309	10.49 ug/l		99
69)	o-Xylene	14.81	91	604282	5.91 ug/l		98
70)	Styrene	14.88	104	435855	5.82 ug/l		99
71)	Isopropylbenzene	15.49	105	857009	6.17 ug/l		100
73)	Bromoform	15.54	173	42420	4.60 ug/l		99
74)	trans-1,4-Dichloro-2-buten	15.61	53	24990	4.92 ug/l		98
75)	1,1,2,2-Tetrachloroethane	15.83	83	92945	5.33 ug/l		99
77)	1,2,3-Trichloropropane	16.13	110	25335	5.18 ug/l		95

(#) = qualifier out of range (m) = manual integration

SV 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV301.D Vial: 6
Acq On : 12 Oct 2024 3:39 pm Operator: DNguye
Sample : VO01J125 0.5/2.5 Inst : 01
Misc : 5ppb 8260/25ppb KET-AA/125ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.28	91	1083682	5.54	ug/l	100
79)	Bromobenzene	16.35	156	150955	5.33	ug/l	100
80)	1,3,5-Trimethylbenzene	16.57	105	650534	5.38	ug/l	100
81)	2-Chlorotoluene	16.62	91	643209	5.41	ug/l	99
82)	4-Chlorotoluene	16.71	91	546854	5.16	ug/l	100
83)	tert-Butylbenzene	17.27	134	146871	5.39	ug/l	97
84)	1,2,4-Trimethylbenzene	17.33	105	653100	5.52	ug/l	98
85)	sec-Butylbenzene	17.64	105	935209	5.49	ug/l	99
86)	p-Isopropyltoluene	17.86	119	724832	5.46	ug/l	99
87)	1,3-Dichlorobenzene	18.01	146	303628	5.33	ug/l	99
88)	1,2,3-Trimethylbenzene	18.11	105	580259	5.39	ug/l	99
89)	1,4-Dichlorobenzene	18.17	146	295141	5.22	ug/l	98
90)	n-Butylbenzene	18.47	91	762602	5.25	ug/l	99
91)	1,2-Dichlorobenzene	18.70	146	247763	5.34	ug/l	99
92)	1,2-Dibromo-3-chloropropan	19.70	157	10567	4.54	ug/l	91
93)	1,2,4-Trichlorobenzene	20.79	180	165568	5.27	ug/l	99
94)	Hexachlorobutadiene	20.96	225	106705	5.30	ug/l	100
95)	Naphthalene	21.13	128	191738	4.96	ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	120418	5.29	ug/l	98

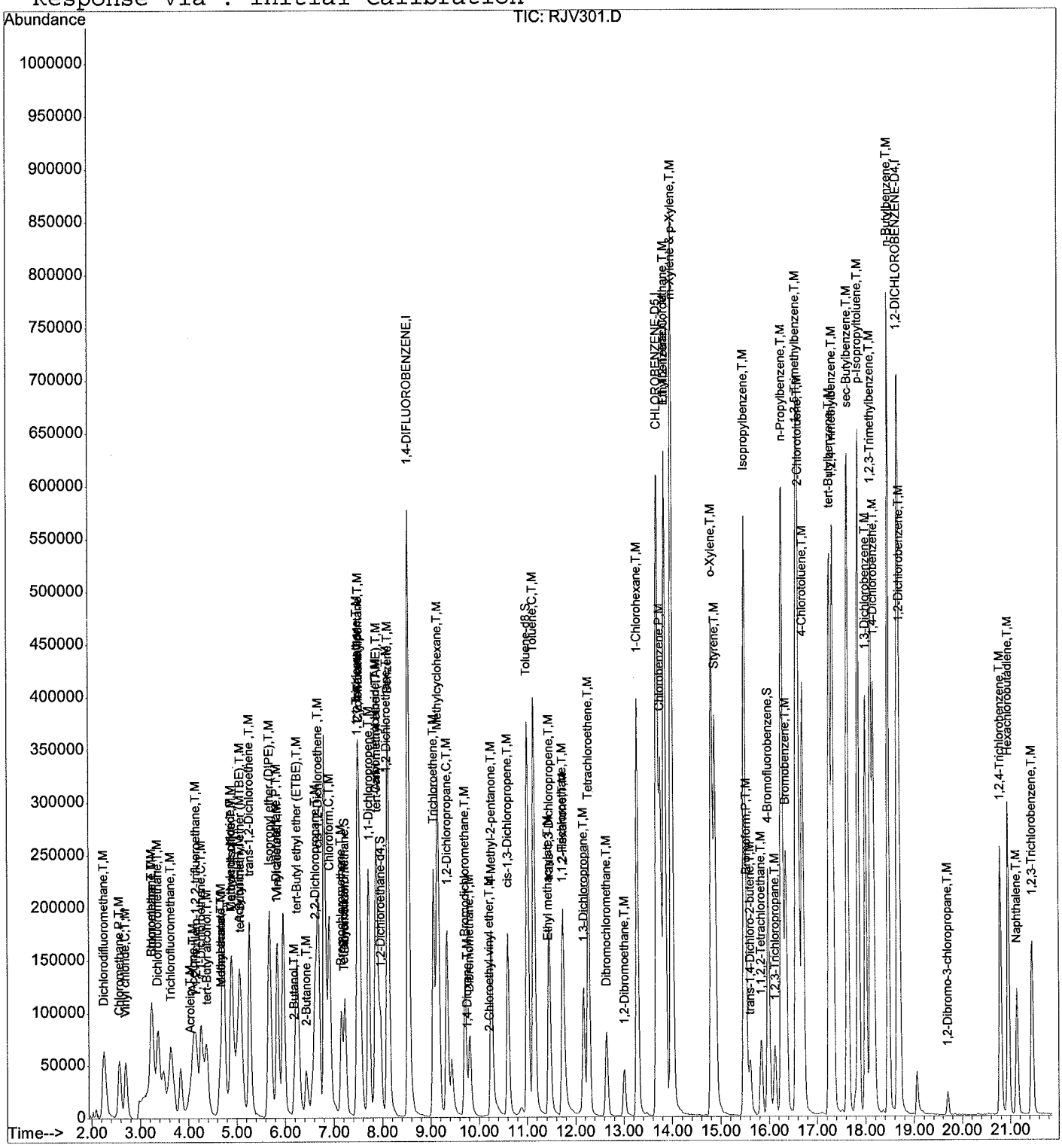
10/30/24

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV301.D Vial: 6
Acq On : 12 Oct 2024 3:39 pm Operator: DNguye
Sample : VO01J125 0.5/2.5 Inst : 01
Misc : 5ppb 8260/25ppb KET-AA/125ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



SW 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV302.D Vial: 7
Acq On : 12 Oct 2024 4:08 pm Operator: DNguye
Sample : VO01J126 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	878286	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	685675	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	317109	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	225931	9.85	ug/l	0.00
Spiked Amount 10.000			Recovery = 98.50%			
41) 1,2-Dichloroethane-d4	7.97	65	207946	10.29	ug/l	0.00
Spiked Amount 10.000			Recovery = 102.90%			
54) Toluene-d8	11.02	98	920008	9.76	ug/l	0.00
Spiked Amount 10.000			Recovery = 97.60%			
76) 4-Bromofluorobenzene	15.98	95	371599	9.90	ug/l	0.00
Spiked Amount 10.000			Recovery = 99.00%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.26	85	400860	11.11	ug/l	100
5) Chloromethane	2.57	50	299576	11.00	ug/l	100
6) Vinyl chloride	2.70	62	259844	10.82	ug/l	100
7) Bromomethane	3.24	94	164820	9.52	ug/l	100
8) Chloroethane	3.24	64	189547	10.41	ug/l	100
9) Dichlorofluoromethane	3.36	67	272135	8.16	ug/l	100
10) Trichlorofluoromethane	3.63	101	420520	10.77	ug/l	100
11) Acrolein	4.01	56	34583	51.50	ug/l	100
12) 1,1,2-Trichloro-1,2,2-trif	4.15	151	155070	9.64	ug/l	100
13) Acetone	4.09	43	166904	51.46	ug/l	100
14) 1,1-Dichloroethene	4.25	61	388399	9.48	ug/l	100
15) tert-Butyl alcohol	4.37	59	213894	263.61	ug/l	100
16) Iodomethane	4.67	142	327169	9.40	ug/l	100
17) Methyl acetate	4.68	43	86534	10.34	ug/l	100
18) Methylene chloride	4.89	49	274216	9.28	ug/l	100
19) Carbon disulfide	4.90	76	891332	10.40	ug/l	100
20) Acrylonitrile	5.05	53	161190	52.91	ug/l	100
21) tert-Butyl methyl ether (M	5.08	73	417171	10.28	ug/l	100
22) trans-1,2-Dichloroethene	5.27	61	368657	9.37	ug/l	100
23) Isopropyl ether (DIPE)	5.69	45	777113	9.43	ug/l	100
24) Vinyl acetate	5.85	43	306706	11.63	ug/l	100
25) 1,1-Dichloroethane	5.84	63	432835	9.38	ug/l	100
26) 2-Butanol	6.18	45	183544	269.96	ug/l	100
27) tert-Butyl ethyl ether (ET	6.25	59	586616	9.79	ug/l	100
28) 2-Butanone	6.43	43	261298	52.54	ug/l	100
29) 2,2-Dichloropropane	6.63	77	374874	9.50	ug/l	100
30) cis-1,2-Dichloroethene	6.69	96	266459	9.43	ug/l	100

(#) = qualifier out of range (m) = manual integration

SV 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV302.D Vial: 7
Acq On : 12 Oct 2024 4:08 pm Operator: DNguye
Sample : VO01J126 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.92	83	430064	9.14	ug/l		100
32)	Bromochloromethane	7.15	49	172327	9.85	ug/l		100
33)	Tetrahydrofuran	7.21	42	26836	9.71	ug/l		100
35)	1,1,1-Trichloroethane	7.49	97	405643	9.60	ug/l		100
36)	Cyclohexane	7.52	84	441965	10.14	ug/l		100
37)	2,2,4-Trimethylpentane	7.52	57	20929	9.93	ug/l	#	100
38)	1,1-Dichloropropene	7.72	110	122103	9.55	ug/l		100
39)	Carbon tetrachloride	7.88	119	312543	9.77	ug/l		100
40)	tert-Amyl methyl ether (TA	7.89	73	444716	9.66	ug/l		100
42)	Benzene	8.13	78	934186	9.29	ug/l		100
43)	1,2-Dichloroethane	8.10	62	238130	10.62	ug/l		100
44)	Trichloroethene	9.06	130	248092	9.33	ug/l		100
45)	Methylcyclohexane	9.15	83	499588	9.69	ug/l		100
46)	1,2-Dichloropropane	9.34	63	214042	9.46	ug/l		100
47)	Bromodichloromethane	9.71	83	300542	9.70	ug/l		100
48)	1,4-Dioxane	9.76	88	17915	207.07	ug/l		100
49)	Dibromomethane	9.80	93	99337	10.11	ug/l		100
50)	2-Chloroethyl vinyl ether	10.22	63	14973	8.95	ug/l		100
51)	4-Methyl-2-pentanone	10.25	43	636189	57.21	ug/l		100
52)	cis-1,3-Dichloropropene	10.60	75	337726	9.95	ug/l		100
55)	Toluene	11.15	91	1034098	9.52	ug/l		100
56)	Ethyl methacrylate	11.43	69	173966	11.18	ug/l		100
57)	trans-1,3-Dichloropropene	11.46	75	263040	10.69	ug/l		100
58)	1,1,2-Trichloroethane	11.73	97	139249	10.41	ug/l		100
59)	2-Hexanone	11.74	43	408405	57.44	ug/l		100
60)	1,3-Dichloropropane	12.17	76	255886	10.15	ug/l		100
61)	Tetrachloroethene	12.28	164	216228	9.21	ug/l		100
62)	Dibromochloromethane	12.65	129	163288	10.25	ug/l		100
63)	1,2-Dibromoethane	13.02	107	132676	10.47	ug/l		100
64)	1-Chlorohexane	13.28	91	471248	9.28	ug/l		100
65)	Chlorobenzene	13.77	112	610921	9.39	ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	191791	9.65	ug/l		100
67)	Ethylbenzene	13.86	91	1229610	9.56	ug/l		100
68)	m-Xylene & p-Xylene	13.99	91	1797737	17.70	ug/l		100
69)	o-Xylene	14.82	91	1070018	10.67	ug/l		100
70)	Styrene	14.88	104	806452	10.99	ug/l		100
71)	Isopropylbenzene	15.50	105	1423196	10.45	ug/l		100
73)	Bromoform	15.53	173	85568	9.41	ug/l		100
74)	trans-1,4-Dichloro-2-buten	15.61	53	52892	10.84	ug/l		100
75)	1,1,2,2-Tetrachloroethane	15.85	83	183539	10.97	ug/l		100
77)	1,2,3-Trichloropropane	16.13	110	50777	10.81	ug/l		98

(#) = qualifier out of range (m) = manual integration

SM 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV302.D Vial: 7
Acq On : 12 Oct 2024 4:08 pm Operator: DNguye
Sample : VO01J126 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

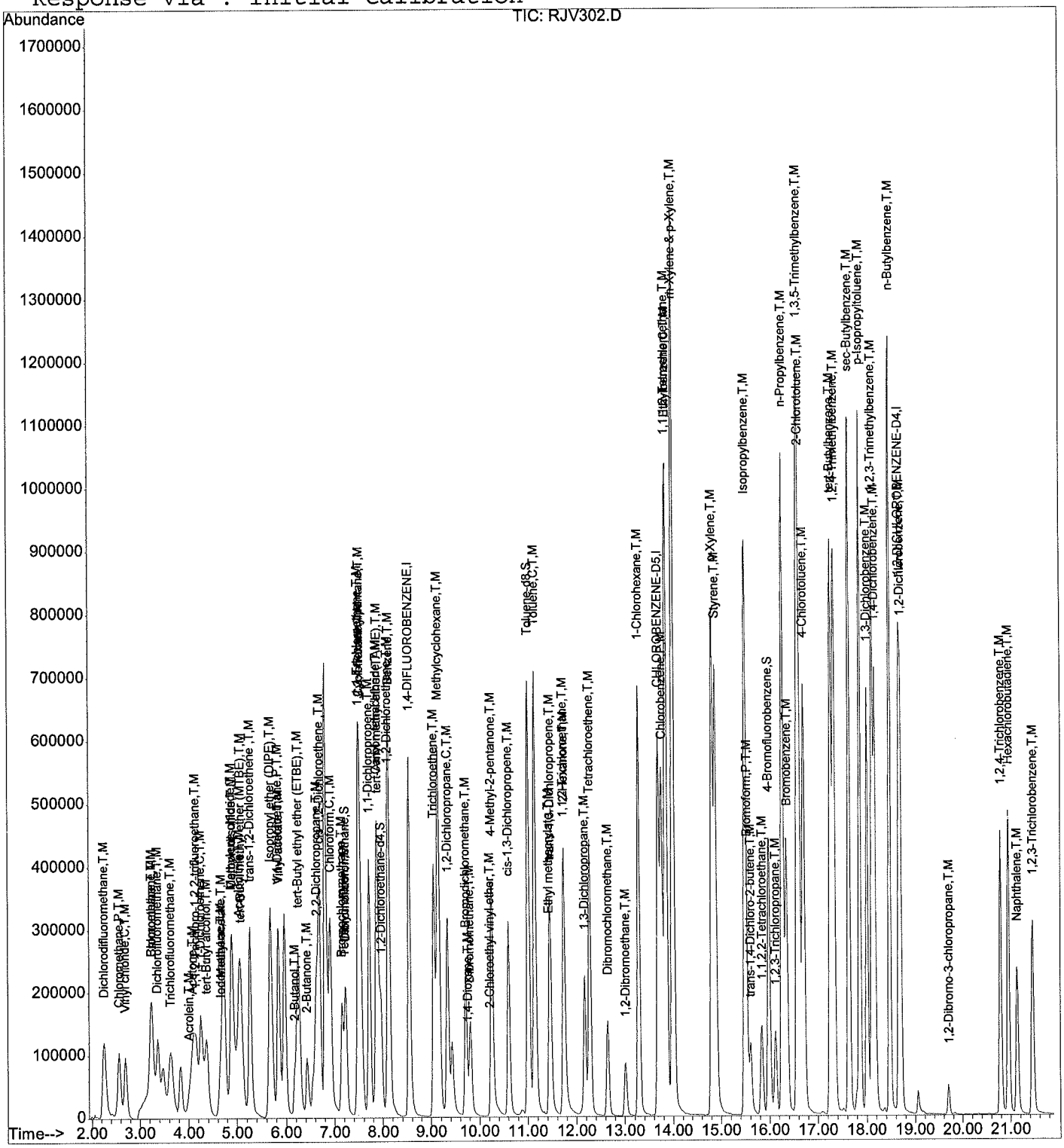
Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.27	91	1783846	9.50	ug/l	100
79)	Bromobenzene	16.36	156	257371	9.46	ug/l	100
80)	1,3,5-Trimethylbenzene	16.59	105	1092014	9.40	ug/l	100
81)	2-Chlorotoluene	16.62	91	1064525	9.33	ug/l	100
82)	4-Chlorotoluene	16.70	91	948743	9.32	ug/l	100
83)	tert-Butylbenzene	17.27	134	250692	9.57	ug/l	100
84)	1,2,4-Trimethylbenzene	17.34	105	1081823	9.52	ug/l	100
85)	sec-Butylbenzene	17.64	105	1593114	9.74	ug/l	100
86)	p-Isopropyltoluene	17.86	119	1209457	9.48	ug/l	100
87)	1,3-Dichlorobenzene	18.01	146	517967	9.47	ug/l	100
88)	1,2,3-Trimethylbenzene	18.11	105	987688	9.55	ug/l	100
89)	1,4-Dichlorobenzene	18.17	146	497192	9.15	ug/l	100
90)	n-Butylbenzene	18.48	91	1261592	9.04	ug/l	100
91)	1,2-Dichlorobenzene	18.70	146	422900	9.48	ug/l	100
92)	1,2-Dibromo-3-chloropropan	19.71	157	23865	10.67	ug/l	100
93)	1,2,4-Trichlorobenzene	20.79	180	285523	9.46	ug/l	100
94)	Hexachlorobutadiene	20.95	225	178714	9.24	ug/l	100
95)	Naphthalene	21.13	128	390436	10.51	ug/l	100
96)	1,2,3-Trichlorobenzene	21.46	180	217064	9.92	ug/l	100

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV302.D Vial: 7
Acq On : 12 Oct 2024 4:08 pm Operator: DNguye
Sample : VO01J126 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV303.D Vial: 8
Acq On : 12 Oct 2024 4:38 pm Operator: DNguye
Sample : VO01J127 2.0/10 Inst : 01
Misc : 20ppb 8260/100ppb KET-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	941724	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	874060	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	333207	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	507059	20.61	ug/l	0.00
Spiked Amount 10.000			Recovery = 206.10%			
41) 1,2-Dichloroethane-d4	7.97	65	444140	20.50	ug/l	0.00
Spiked Amount 10.000			Recovery = 205.00%			
54) Toluene-d8	11.02	98	2095606	17.43	ug/l	0.00
Spiked Amount 10.000			Recovery = 174.30%			
76) 4-Bromofluorobenzene	15.98	95	843064	21.37	ug/l	0.00
Spiked Amount 10.000			Recovery = 213.70%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.26	85	822542	21.27	ug/l	98
5) Chloromethane	2.57	50	601404	20.60	ug/l	98
6) Vinyl chloride	2.70	62	539734	20.97	ug/l	99
7) Bromomethane	3.24	94	373501	20.12	ug/l	95
8) Chloroethane	3.24	64	400183	20.51	ug/l	100
9) Dichlorofluoromethane	3.38	67	684137	19.14	ug/l	100
10) Trichlorofluoromethane	3.63	101	864677	20.64	ug/l	97
11) Acrolein	4.03	56	69638	96.72	ug/l	84
12) 1,1,2-Trichloro-1,2,2-trif	4.15	151	357185	20.71	ug/l	99
13) Acetone	4.10	43	330845	95.14	ug/l	100
14) 1,1-Dichloroethene	4.26	61	873755	19.89	ug/l	81
15) tert-Butyl alcohol	4.37	59	447918	514.85	ug/l	100
16) Iodomethane	4.66	142	761822	20.41	ug/l	100
17) Methyl acetate	4.68	43	155750	17.36	ug/l	96
18) Methylene chloride	4.89	49	615681	19.44	ug/l	99
19) Carbon disulfide	4.90	76	1916562	20.86	ug/l	100
20) Acrylonitrile	5.05	53	324088	99.21	ug/l	100
21) tert-Butyl methyl ether (M	5.08	73	900113	20.69	ug/l	100
22) trans-1,2-Dichloroethene	5.27	61	862488	20.44	ug/l	99
23) Isopropyl ether (DIPE)	5.69	45	1754960	19.86	ug/l	98
24) Vinyl acetate	5.83	43	581400	20.56	ug/l	97
25) 1,1-Dichloroethane	5.85	63	1000118	20.21	ug/l	99
26) 2-Butanol	6.16	45	377355	517.63	ug/l	88
27) tert-Butyl ethyl ether (ET	6.25	59	1292881	20.13	ug/l	99
28) 2-Butanone	6.43	43	518724	97.28	ug/l	99
29) 2,2-Dichloropropane	6.63	77	854045	20.18	ug/l	100
30) cis-1,2-Dichloroethene	6.69	96	615689	20.32	ug/l	100

(#) = qualifier out of range (m) = manual integration
RJV303.D VO01J12.M Thu Oct 24 09:06:54 2024 10/30/24 Page 1

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV303.D Vial: 8
Acq On : 12 Oct 2024 4:38 pm Operator: DNguye
Sample : VO01J127 2.0/10 Inst : 01
Misc : 20ppb 8260/100ppb KET-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.92	83	984862	19.53	ug/l		100
32)	Bromochloromethane	7.15	49	375021	20.00	ug/l		97
33)	Tetrahydrofuran	7.21	42	54884	18.52	ug/l		98
35)	1,1,1-Trichloroethane	7.49	97	947462	20.92	ug/l		100
36)	Cyclohexane	7.52	84	934014	19.99	ug/l		100
37)	2,2,4-Trimethylpentane	7.51	57	43780	19.37	ug/l	#	100
38)	1,1-Dichloropropene	7.73	110	284731	20.76	ug/l		99
39)	Carbon tetrachloride	7.88	119	739054	21.55	ug/l		99
40)	tert-Amyl methyl ether (TA	7.89	73	988508	20.02	ug/l		99
42)	Benzene	8.13	78	2161734	20.05	ug/l		99
43)	1,2-Dichloroethane	8.10	62	510429	21.24	ug/l		100
44)	Trichloroethene	9.06	130	586311	20.56	ug/l		98
45)	Methylcyclohexane	9.15	83	1094474	19.80	ug/l		99
46)	1,2-Dichloropropane	9.34	63	494110	20.36	ug/l		99
47)	Bromodichloromethane	9.71	83	691258	20.81	ug/l		99
48)	1,4-Dioxane	9.76	88	40827	440.10	ug/l		98
49)	Dibromomethane	9.80	93	216065	20.50	ug/l		98
50)	2-Chloroethyl vinyl ether	10.22	63	36226	18.94	ug/l		98
51)	4-Methyl-2-pentanone	10.25	43	1246578	104.55	ug/l		100
52)	cis-1,3-Dichloropropene	10.60	75	795595	21.87	ug/l		99
55)	Toluene	11.15	91	2417898	17.45	ug/l		98
56)	Ethyl methacrylate	11.43	69	371503	18.72	ug/l		98
57)	trans-1,3-Dichloropropene	11.46	75	587731	18.73	ug/l		100
58)	1,1,2-Trichloroethane	11.73	97	301375	17.67	ug/l		100
59)	2-Hexanone	11.74	43	821756	90.66	ug/l		98
60)	1,3-Dichloropropane	12.17	76	654033	20.36	ug/l		98
61)	Tetrachloroethene	12.28	164	590775	19.73	ug/l		99
62)	Dibromochloromethane	12.65	129	416614	20.51	ug/l		99
63)	1,2-Dibromoethane	13.02	107	340577	21.08	ug/l		99
64)	1-Chlorohexane	13.28	91	1303212	20.14	ug/l		100
65)	Chlorobenzene	13.76	112	1680926	20.27	ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	529315	20.90	ug/l		99
67)	Ethylbenzene	13.86	91	3293978	20.10	ug/l		98
68)	m-Xylene & p-Xylene	13.99	91	4807410	37.13	ug/l		96
69)	o-Xylene	14.81	91	2456831	19.22	ug/l		99
70)	Styrene	14.88	104	1884749	20.15	ug/l		100
71)	Isopropylbenzene	15.49	105	3256050	18.76	ug/l		99
73)	Bromoform	15.53	173	186129	19.23	ug/l		99
74)	trans-1,4-Dichloro-2-buten	15.61	53	108996	21.26	ug/l		95
75)	1,1,2,2-Tetrachloroethane	15.83	83	373375	21.23	ug/l		98
77)	1,2,3-Trichloropropane	16.13	110	103730	21.01	ug/l		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV303.D Vial: 8
Acq On : 12 Oct 2024 4:38 pm Operator: DNguye
Sample : VO01J127 2.0/10 Inst : 01
Misc : 20ppb 8260/100ppb KET-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

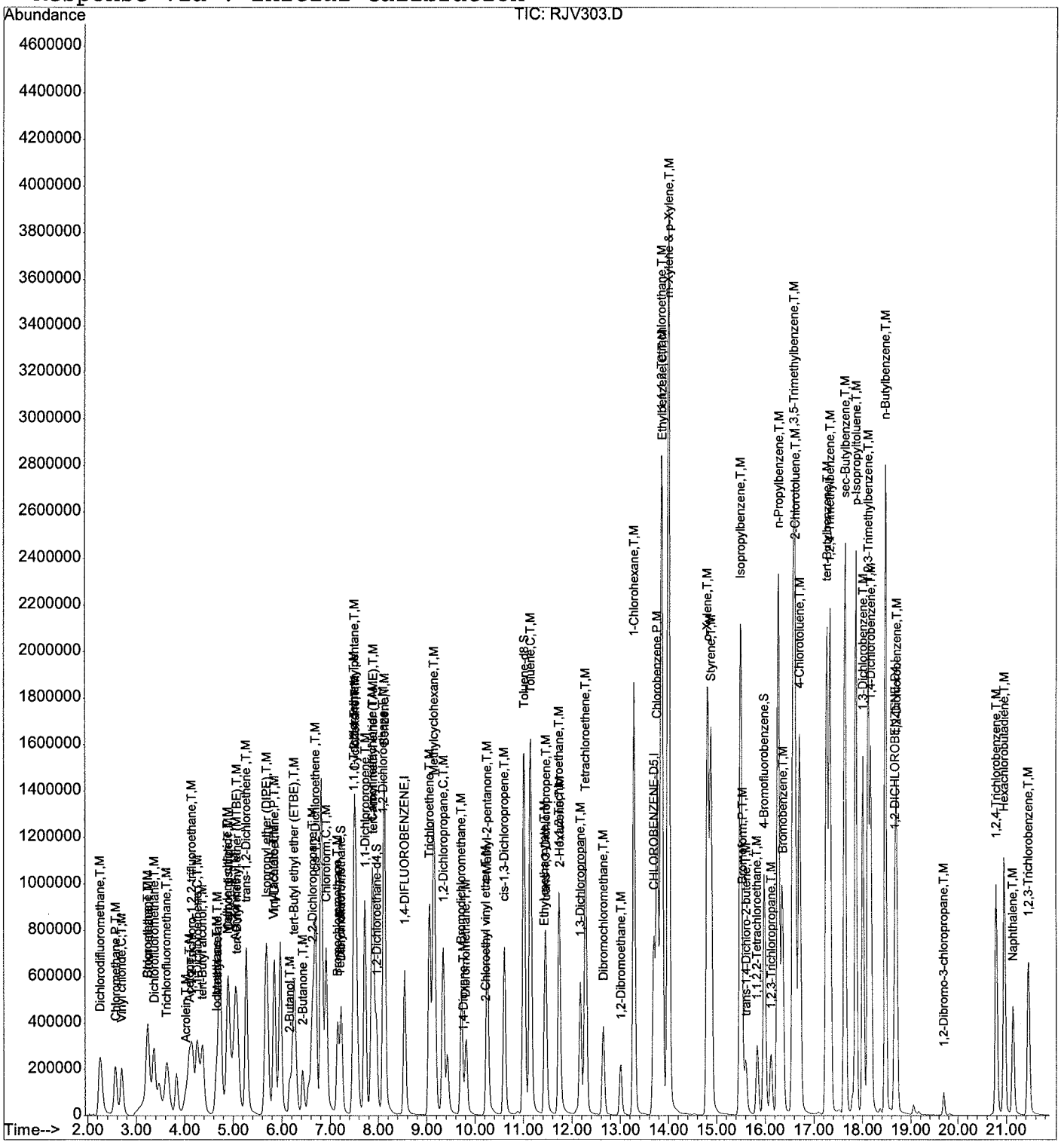
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.27	91	4051078	20.53	ug/l	99
79)	Bromobenzene	16.36	156	591001	20.68	ug/l	99
80)	1,3,5-Trimethylbenzene	16.59	105	2508116	20.55	ug/l	99
81)	2-Chlorotoluene	16.62	91	2423790	20.21	ug/l	98
82)	4-Chlorotoluene	16.70	91	2189904	20.47	ug/l	98
83)	tert-Butylbenzene	17.27	134	564243	20.51	ug/l	98
84)	1,2,4-Trimethylbenzene	17.33	105	2452758	20.55	ug/l	99
85)	sec-Butylbenzene	17.64	105	3500283	20.36	ug/l	100
86)	p-Isopropyltoluene	17.86	119	2694193	20.09	ug/l	100
87)	1,3-Dichlorobenzene	18.01	146	1156917	20.14	ug/l	99
88)	1,2,3-Trimethylbenzene	18.11	105	2189305	20.15	ug/l	99
89)	1,4-Dichlorobenzene	18.17	146	1121854	19.65	ug/l	99
90)	n-Butylbenzene	18.47	91	2773404	18.90	ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	930982	19.87	ug/l	99
92)	1,2-Dibromo-3-chloropropan	19.70	157	49261	20.96	ug/l	98
93)	1,2,4-Trichlorobenzene	20.79	180	634426	20.00	ug/l	99
94)	Hexachlorobutadiene	20.95	225	411911	20.26	ug/l	99
95)	Naphthalene	21.13	128	772927	19.79	ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	466925	20.31	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV303.D Vial: 8
Acq On : 12 Oct 2024 4:38 pm Operator: DNguye
Sample : VO01J127 2.0/10 Inst : 01
Misc : 20ppb 8260/100ppb KET-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV305.D Vial: 10
Acq On : 12 Oct 2024 5:38 pm Operator: DNguye
Sample : VO01J129 3.0/15 Inst : 01
Misc : 30ppb 8260/150ppb KET-AA/750ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	1021374	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	786601	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	302051	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	814773	30.54	ug/l	0.00
Spiked Amount 10.000			Recovery =	305.40%		
41) 1,2-Dichloroethane-d4	7.97	65	670901	28.55	ug/l	0.00
Spiked Amount 10.000			Recovery =	285.50%		
54) Toluene-d8	11.00	98	3301949	30.52	ug/l	-0.01
Spiked Amount 10.000			Recovery =	305.20%		
76) 4-Bromofluorobenzene	15.98	95	1125863	31.48	ug/l	0.00
Spiked Amount 10.000			Recovery =	314.80%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.26	85	1261118	30.06	ug/l	99
5) Chloromethane	2.56	50	977696	30.88	ug/l	97
6) Vinyl chloride	2.70	62	902459	32.32	ug/l	99
7) Bromomethane	3.24	94	633167	31.45	ug/l	96
8) Chloroethane	3.24	64	711028	33.59	ug/l	98
9) Dichlorofluoromethane	3.36	67	1121013	28.91	ug/l	100
10) Trichlorofluoromethane	3.63	101	1360811	29.96	ug/l	98
11) Acrolein	4.03	56	132817	170.09	ug/l	73
12) 1,1,2-Trichloro-1,2,2-trif	4.16	151	610042	32.62	ug/l	99
13) Acetone	4.10	43	546473	144.89	ug/l	95
14) 1,1-Dichloroethene	4.25	61	1475892	30.97	ug/l	78
15) tert-Butyl alcohol	4.37	59	714928	757.67	ug/l	96
16) Iodomethane	4.67	142	1307949	32.31	ug/l	96
17) Methyl acetate	4.68	43	286881	29.49	ug/l	97
18) Methylene chloride	4.89	49	1057583	30.79	ug/l	98
19) Carbon disulfide	4.90	76	3375469	33.87	ug/l	99
20) Acrylonitrile	5.05	53	584198	164.90	ug/l	98
21) tert-Butyl methyl ether (M	5.08	73	1499354	31.77	ug/l	97
22) trans-1,2-Dichloroethene	5.27	61	1437975	31.42	ug/l	98
23) Isopropyl ether (DIPE)	5.69	45	3057961	31.91	ug/l	98
24) Vinyl acetate	5.83	43	1023550	33.38	ug/l	97
25) 1,1-Dichloroethane	5.85	63	1700771	31.69	ug/l	100
26) 2-Butanol	6.15	45	657760	831.91	ug/l	90
27) tert-Butyl ethyl ether (ET	6.25	59	2204742	31.65	ug/l	99
28) 2-Butanone	6.43	43	893838	154.55	ug/l	97
29) 2,2-Dichloropropane	6.63	77	1398152	30.46	ug/l	99
30) cis-1,2-Dichloroethene	6.69	96	1055115	32.10	ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV305.D Vial: 10
Acq On : 12 Oct 2024 5:38 pm Operator: DNguye
Sample : VO01J129 3.0/15 Inst : 01
Misc : 30ppb 8260/150ppb KET-AA/750ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
31)	Chloroform	6.92	83	1611480	29.46	ug/l	99
32)	Bromochloromethane	7.15	49	630812	31.02	ug/l	97
33)	Tetrahydrofuran	7.20	42	94472	29.39	ug/l	98
35)	1,1,1-Trichloroethane	7.49	97	1504023	30.62	ug/l	99
36)	Cyclohexane	7.52	84	1616527	31.90	ug/l	100
37)	2,2,4-Trimethylpentane	7.51	57	78012	31.82	ug/l	100
38)	1,1-Dichloropropene	7.72	110	489047	32.88	ug/l	99
39)	Carbon tetrachloride	7.88	119	1162519	31.26	ug/l	98
40)	tert-Amyl methyl ether (TA	7.89	73	1615224	30.16	ug/l	99
42)	Benzene	8.13	78	3606911	30.84	ug/l	99
43)	1,2-Dichloroethane	8.10	62	790866	30.34	ug/l	99
44)	Trichloroethene	9.06	130	966876	31.26	ug/l	98
45)	Methylcyclohexane	9.15	83	1816116	30.30	ug/l	99
46)	1,2-Dichloropropane	9.34	63	830627	31.56	ug/l	97
47)	Bromodichloromethane	9.71	83	1090983	30.29	ug/l	98
48)	1,4-Dioxane	9.74	88	66336	659.32	ug/l	100
49)	Dibromomethane	9.80	93	344804	30.16	ug/l	99
50)	2-Chloroethyl vinyl ether	10.22	63	66447	31.33	ug/l	95
51)	4-Methyl-2-pentanone	10.25	43	2064842	159.67	ug/l	99
52)	cis-1,3-Dichloropropene	10.60	75	1282910	32.51	ug/l	98
55)	Toluene	11.15	91	3924304	31.48	ug/l	96
56)	Ethyl methacrylate	11.43	69	608849	34.10	ug/l	98
57)	trans-1,3-Dichloropropene	11.46	75	948517	33.59	ug/l	98
58)	1,1,2-Trichloroethane	11.73	97	490176	31.94	ug/l	99
59)	2-Hexanone	11.73	43	1360892	166.83	ug/l	97
60)	1,3-Dichloropropane	12.17	76	920355	31.84	ug/l	99
61)	Tetrachloroethene	12.28	164	819741	30.43	ug/l	99
62)	Dibromochloromethane	12.65	129	582093	31.84	ug/l	98
63)	1,2-Dibromoethane	13.00	107	471196	32.40	ug/l	99
64)	1-Chlorohexane	13.28	91	1809697	31.07	ug/l	99
65)	Chlorobenzene	13.76	112	2332282	31.25	ug/l	99
66)	1,1,1,2-Tetrachloroethane	13.85	131	735329	32.27	ug/l	98
67)	Ethylbenzene	13.86	91	4423489	29.99	ug/l	96
68)	m-Xylene & p-Xylene	13.99	91	6467044	55.51	ug/l	94
69)	o-Xylene	14.81	91	3360390	29.20	ug/l	99
70)	Styrene	14.88	104	2553659	30.34	ug/l	100
71)	Isopropylbenzene	15.49	105	4451782	28.50	ug/l	99
73)	Bromoform	15.53	173	272196	30.89	ug/l	98
74)	trans-1,4-Dichloro-2-buten	15.61	53	157412	33.87	ug/l	91
75)	1,1,2,2-Tetrachloroethane	15.83	83	513818	32.23	ug/l	100
77)	1,2,3-Trichloropropane	16.13	110	145089	32.42	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV305.D Vial: 10
Acq On : 12 Oct 2024 5:38 pm Operator: DNguye
Sample : VO01J129 3.0/15 Inst : 01
Misc : 30ppb 8260/150ppb KET-AA/750ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.27	91	5519227	30.86	ug/l	98
79)	Bromobenzene	16.35	156	830978	32.08	ug/l	100
80)	1,3,5-Trimethylbenzene	16.59	105	3457404	31.25	ug/l	98
81)	2-Chlorotoluene	16.62	91	3380958	31.11	ug/l	98
82)	4-Chlorotoluene	16.70	91	2950311	30.42	ug/l	97
83)	tert-Butylbenzene	17.27	134	794954	31.88	ug/l	100
84)	1,2,4-Trimethylbenzene	17.33	105	3342934	30.89	ug/l	97
85)	sec-Butylbenzene	17.64	105	4686851	30.08	ug/l	98
86)	p-Isopropyltoluene	17.86	119	3674486	30.23	ug/l	99
87)	1,3-Dichlorobenzene	18.01	146	1603674	30.80	ug/l	99
88)	1,2,3-Trimethylbenzene	18.11	105	2942061	29.87	ug/l	98
89)	1,4-Dichlorobenzene	18.17	146	1538182	29.72	ug/l	98
90)	n-Butylbenzene	18.47	91	3773228	28.37	ug/l	97
91)	1,2-Dichlorobenzene	18.70	146	1275864	30.04	ug/l	99
92)	1,2-Dibromo-3-chloropropan	19.70	157	70688	33.18	ug/l	97
93)	1,2,4-Trichlorobenzene	20.79	180	893999	31.09	ug/l	98
94)	Hexachlorobutadiene	20.95	225	588209	31.91	ug/l	99
95)	Naphthalene	21.13	128	1138915	32.17	ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	664030	31.86	ug/l	99

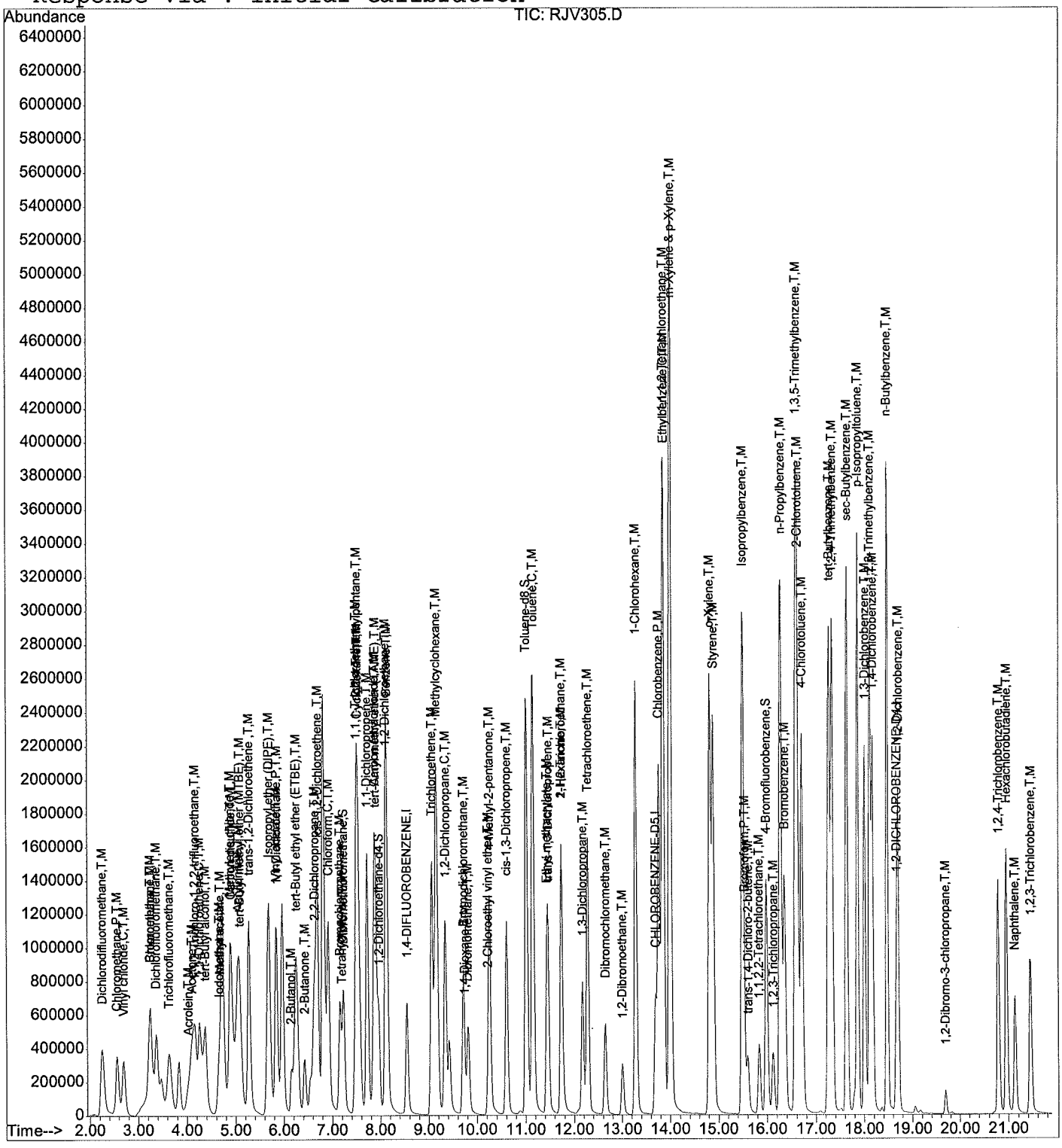
(#) = qualifier out of range (m) = manual integration
RJV305.D VO01J12.M Wed Oct 30 15:25:38 2024 Page 3

SU 10/30/24

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV305.D Vial: 10
Acq On : 12 Oct 2024 5:38 pm Operator: DNguye
Sample : VO01J129 3.0/15 Inst : 01
Misc : 30ppb 8260/150ppb KET-AA/750ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV304.D Vial: 9
Acq On : 12 Oct 2024 5:08 pm Operator: DNguye
Sample : VO01J128 5.0/25 Inst : 01
Misc : 50ppb 8260/250ppb KET-AA/1250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 16:52 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	1069388	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	873212	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	329603	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	1200	0.04	ug/l	0.00
Spiked Amount 10.000			Recovery =	0.40%		
41) 1,2-Dichloroethane-d4	7.95	65	1540	0.06	ug/l	-0.01
Spiked Amount 10.000			Recovery =	0.60%		
54) Toluene-d8	11.02	98	12224	0.10	ug/l	0.00
Spiked Amount 10.000			Recovery =	1.00%		
76) 4-Bromofluorobenzene	15.98	95	15713	0.40	ug/l	0.00
Spiked Amount 10.000			Recovery =	4.00%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.24	85	1983615	45.16	ug/l	100
5) Chloromethane	2.54	50	1476864	44.55	ug/l	99
6) Vinyl chloride	2.68	62	1343437	45.95	ug/l	99
7) Bromomethane	3.23	94	923532	43.81	ug/l	94
8) Chloroethane	3.24	64	1025607	46.28	ug/l	98
9) Dichlorofluoromethane	3.36	67	2345378	57.77	ug/l	84
10) Trichlorofluoromethane	3.63	101	2090394	43.95	ug/l	97
11) Acrolein	4.01	56	205533	251.39	ug/l	79
12) 1,1,2-Trichloro-1,2,2-trif	4.15	151	925005	47.24	ug/l	97
13) Acetone	4.09	43	913476	231.33	ug/l	98
14) 1,1-Dichloroethene	4.25	61	2271263	45.52	ug/l	94
15) tert-Butyl alcohol	4.37	59	1260896	1276.28	ug/l	97
16) Iodomethane	4.65	142	2016319	47.57	ug/l	98
18) Methylene chloride	4.87	49	1622404	45.11	ug/l	97
20) Acrylonitrile	5.04	53	935996	252.33	ug/l	99
21) tert-Butyl methyl ether (M	5.08	73	2402533	48.63	ug/l	98
22) trans-1,2-Dichloroethene	5.26	61	2189562	45.70	ug/l	99
23) Isopropyl ether (DIPE)	5.69	45	4741217	47.26	ug/l	97
24) Vinyl acetate	5.83	43	1535132	47.82	ug/l	98
25) 1,1-Dichloroethane	5.83	63	2580978	45.93	ug/l	99
26) 2-Butanol	6.25	45	65407	79.01	ug/l #	1
27) tert-Butyl ethyl ether (ET	6.25	59	3414479	46.81	ug/l	97
28) 2-Butanone	6.41	43	1456715	240.57	ug/l	99
29) 2,2-Dichloropropane	6.63	77	2152292	44.78	ug/l	98
30) cis-1,2-Dichloroethene	6.69	96	1614492	46.92	ug/l	98
31) Chloroform	6.92	83	2554994	44.62	ug/l	99
32) Bromochloromethane	7.15	49	996291	46.79	ug/l	97

(#) = qualifier out of range (m) = manual integration
RJV304.D VO01J12.M Wed Oct 30 16:52:40 2024 Page 1

GC 10/30/24

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV304.D Vial: 9
Acq On : 12 Oct 2024 5:08 pm Operator: DNguye
Sample : VO01J128 5.0/25 Inst : 01
Misc : 50ppb 8260/250ppb KET-AA/1250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 16:52 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
33) Tetrahydrofuran	7.20	42	159009	47.25	ug/l	97
35) 1,1,1-Trichloroethane	7.49	97	2383782	46.36	ug/l	99
38) 1,1-Dichloropropene	7.72	110	748202	48.05	ug/l	98
39) Carbon tetrachloride	7.88	119	1844292	47.37	ug/l	98
40) tert-Amyl methyl ether (TA	7.89	73	2611545	46.58	ug/l	99
42) Benzene	8.13	78	5514913	45.04	ug/l	99
43) 1,2-Dichloroethane	8.10	62	1296995	47.52	ug/l	100
44) Trichloroethene	9.06	130	1503523	46.43	ug/l	97
46) 1,2-Dichloropropane	9.34	63	1300340	47.19	ug/l	100
47) Bromodichloromethane	9.71	83	1766637	46.85	ug/l	97
48) 1,4-Dioxane	9.74	88	113529	1077.71	ug/l	98
49) Dibromomethane	9.80	93	569273	47.56	ug/l	98
50) 2-Chloroethyl vinyl ether	10.20	63	115297	51.27	ug/l	94
51) 4-Methyl-2-pentanone	10.25	43	3381753	249.77	ug/l	98
52) cis-1,3-Dichloropropene	10.60	75	2054932	49.74	ug/l	97
55) Toluene	11.15	91	5952773	43.01	ug/l	95
56) Ethyl methacrylate	11.43	69	999333	50.41	ug/l	98
57) trans-1,3-Dichloropropene	11.46	75	1559444	49.75	ug/l	98
58) 1,1,2-Trichloroethane	11.73	97	797655	46.82	ug/l	100
59) 2-Hexanone	11.73	43	2290452	252.94	ug/l	97
60) 1,3-Dichloropropane	12.17	76	1552719	48.38	ug/l	99
61) Tetrachloroethene	12.28	164	1338133	44.74	ug/l	99
62) Dibromochloromethane	12.65	129	1005360	49.53	ug/l	99
63) 1,2-Dibromoethane	13.00	107	815107	50.49	ug/l	100
64) 1-Chlorohexane	13.28	91	2945719	45.56	ug/l	99
65) Chlorobenzene	13.77	112	3847034	46.43	ug/l	99
66) 1,1,1,2-Tetrachloroethane	13.85	131	1262185	49.89	ug/l	99
67) Ethylbenzene	13.86	91	7054644	43.08	ug/l	94
68) m-Xylene & p-Xylene	14.01	91	9607180	74.28	ug/l	89
69) o-Xylene	14.82	91	5418309	42.42	ug/l	97
70) Styrene	14.88	104	4235619	45.34	ug/l	99
71) Isopropylbenzene	15.50	105	6888107	39.72	ug/l	96
73) Bromoform	15.53	173	469968	48.75	ug/l	98
74) trans-1,4-Dichloro-2-buten	15.61	53	264045	52.07	ug/l	87
75) 1,1,2,2-Tetrachloroethane	15.83	83	871766	50.11	ug/l	100
77) 1,2,3-Trichloropropane	16.13	110	250075	51.21	ug/l	99
78) n-Propylbenzene	16.27	91	8344255	42.75	ug/l	95
79) Bromobenzene	16.36	156	1363616	48.24	ug/l	98
80) 1,3,5-Trimethylbenzene	16.59	105	5416703	44.86	ug/l	97
81) 2-Chlorotoluene	16.61	91	5207858	43.91	ug/l	92
82) 4-Chlorotoluene	16.70	91	4850851	45.83	ug/l	99

(#) = qualifier out of range (m) = manual integration
RJV304.D VO01J12.M Wed Oct 30 16:52:40 2024 Page 2

SC 10/30/24

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV304.D Vial: 9
Acq On : 12 Oct 2024 5:08 pm Operator: DNguye
Sample : VO01J128 5.0/25 Inst : 01
Misc : 50ppb 8260/250ppb KET-AA/1250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 16:52 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
83)	tert-Butylbenzene	17.27	134	1302135	47.85 ug/l	94
84)	1,2,4-Trimethylbenzene	17.34	105	5267008	44.60 ug/l	94
85)	sec-Butylbenzene	17.64	105	7067157	41.57 ug/l	95
86)	p-Isopropyltoluene	17.86	119	5740265	43.28 ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	2625097	46.20 ug/l	99
88)	1,2,3-Trimethylbenzene	18.13	105	4601696	42.81 ug/l	96
89)	1,4-Dichlorobenzene	18.17	146	2490236	44.10 ug/l	98
90)	n-Butylbenzene	18.48	91	5624029	38.75 ug/l	94
91)	1,2-Dichlorobenzene	18.70	146	2098868	45.28 ug/l	98
92)	1,2-Dibromo-3-chloropropan	19.71	157	121943	52.46 ug/l	99
93)	1,2,4-Trichlorobenzene	20.79	180	1462322	46.60 ug/l	99
94)	Hexachlorobutadiene	20.97	225	920046	45.74 ug/l	98
95)	Naphthalene	21.15	128	1824885	47.24 ug/l	100
96)	1,2,3-Trichlorobenzene	21.46	180	1068289	46.97 ug/l	99

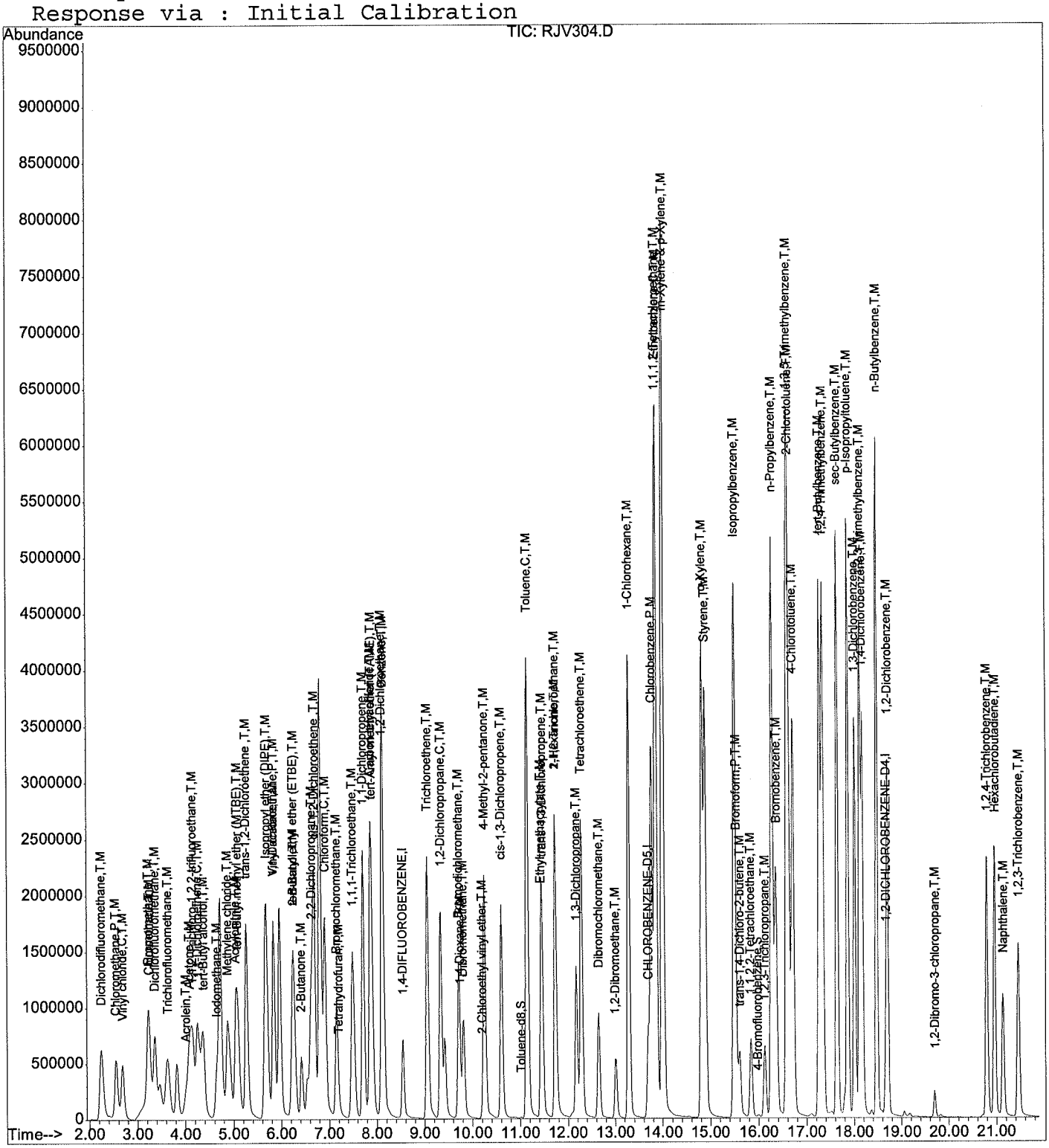
SM 10/30/24

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV304.D Vial: 9
Acq On : 12 Oct 2024 5:08 pm Operator: DNguye
Sample : VO01J128 5.0/25 Inst : 01
Misc : 50ppb 8260/250ppb KET-AA/1250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 16:52 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV306.D Vial: 11
Acq On : 12 Oct 2024 6:07 pm Operator: DNguye
Sample : VO01J1210 10/50 Inst : 01
Misc : 100ppb 8260/500ppb KET-AA/2500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 16:53 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.55	114	1124028	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	870044	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	301750	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	666	0.02	ug/l	0.00
Spiked Amount 10.000			Recovery = 0.20%			
41) 1,2-Dichloroethane-d4	8.10	65	78218	3.02	ug/l	0.13
Spiked Amount 10.000			Recovery = 30.20%			
54) Toluene-d8	11.40	98	291	0.00	ug/l	0.39
Spiked Amount 10.000			Recovery = 0.00%			
76) 4-Bromofluorobenzene	15.98	95	10390	0.29	ug/l	0.00
Spiked Amount 10.000			Recovery = 2.90%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.25	85	3949323	85.54	ug/l	98
5) Chloromethane	2.55	50	3008051	86.33	ug/l	98
6) Vinyl chloride	2.67	62	2932061	95.42	ug/l	99
7) Bromomethane	3.23	94	1985042	89.58	ug/l	96
8) Chloroethane	3.24	64	2174452	93.36	ug/l	100
9) Dichlorofluoromethane	3.36	67	3757606	88.06	ug/l	100
10) Trichlorofluoromethane	3.63	101	4112956	82.27	ug/l	99
11) Acrolein	4.03	56	440466	512.56	ug/l	81
12) 1,1,2-Trichloro-1,2,2-trif	4.16	151	1882973	91.48	ug/l	97
13) Acetone	4.10	43	1874696	451.67	ug/l	97
14) 1,1-Dichloroethene	4.25	61	4642682	88.53	ug/l	76
15) tert-Butyl alcohol	4.37	59	2525792	2432.33	ug/l	96
16) Iodomethane	4.66	142	4281206	96.10	ug/l	96
18) Methylene chloride	4.89	49	3462623	91.60	ug/l	98
20) Acrylonitrile	5.05	53	1974498	506.42	ug/l	98
21) tert-Butyl methyl ether (M	5.08	73	4895297	94.26	ug/l	97
22) trans-1,2-Dichloroethene	5.26	61	4483486	89.02	ug/l	95
23) Isopropyl ether (DIPE)	5.69	45	9494226	90.03	ug/l	95
24) Vinyl acetate	5.83	43	3114327	92.29	ug/l	96
25) 1,1-Dichloroethane	5.83	63	5273737	89.29	ug/l	98
26) 2-Butanol	6.25	45	137473	157.99	ug/l #	1
27) tert-Butyl ethyl ether (ET	6.25	59	6919432	90.25	ug/l	95
28) 2-Butanone	6.41	43	3046674	478.68	ug/l	97
29) 2,2-Dichloropropane	6.63	77	4280495	84.73	ug/l	97
30) cis-1,2-Dichloroethene	6.69	96	3343221	92.43	ug/l	95
31) Chloroform	6.91	83	5003360	83.12	ug/l	97
32) Bromochloromethane	7.15	49	2060437	92.06	ug/l	97

(#) = qualifier out of range (m) = manual integration

SG 10/30/24

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV306.D Vial: 11
Acq On : 12 Oct 2024 6:07 pm Operator: DNguye
Sample : VO01J1210 10/50 Inst : 01
Misc : 100ppb 8260/500ppb KET-AA/2500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 16:53 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
33)	Tetrahydrofuran	7.20	42	330422	93.42	ug/l	97
35)	1,1,1-Trichloroethane	7.51	97	4719432	87.32	ug/l	99
38)	1,1-Dichloropropene	7.71	110	1544057	94.34	ug/l	98
39)	Carbon tetrachloride	7.88	119	3631396	88.73	ug/l	97
40)	tert-Amyl methyl ether (TA	7.89	73	5276582	89.54	ug/l	100
42)	Benzene	8.13	78	10383102	80.67	ug/l	96
43)	1,2-Dichloroethane	8.10	62	2527929	88.12	ug/l	99
44)	Trichloroethene	9.06	130	3069728	90.19	ug/l	96
46)	1,2-Dichloropropane	9.33	63	2656105	91.70	ug/l	98
47)	Bromodichloromethane	9.72	83	3520681	88.82	ug/l	96
48)	1,4-Dioxane	9.75	88	231424	2090.07	ug/l	99
49)	Dibromomethane	9.80	93	1137284	90.40	ug/l	98
50)	2-Chloroethyl vinyl ether	10.20	63	283831	118.72	ug/l	94
51)	4-Methyl-2-pentanone	10.25	43	6579123	462.29	ug/l	96
52)	cis-1,3-Dichloropropene	10.60	75	4084042	94.04	ug/l	96
55)	Toluene	11.15	91	10701456	77.61	ug/l	87
56)	Ethyl methacrylate	11.43	69	1981693	100.34	ug/l	97
57)	trans-1,3-Dichloropropene	11.46	75	3063604	98.10	ug/l	97
58)	1,1,2-Trichloroethane	11.73	97	1601272	94.33	ug/l	99
59)	2-Hexanone	11.73	43	4414025	489.22	ug/l	95
60)	1,3-Dichloropropane	12.17	76	2947857	92.19	ug/l	98
61)	Tetrachloroethene	12.28	164	2539505	85.22	ug/l	100
62)	Dibromochloromethane	12.65	129	1940270	95.95	ug/l	99
63)	1,2-Dibromoethane	13.00	107	1535828	95.48	ug/l	99
64)	1-Chlorohexane	13.28	91	5327143	82.69	ug/l	96
65)	Chlorobenzene	13.77	112	7029821	85.15	ug/l	95
66)	1,1,1,2-Tetrachloroethane	13.85	131	2394720	95.00	ug/l	99
67)	Ethylbenzene	13.86	91	11529226	70.67	ug/l	85
68)	m-Xylene & p-Xylene	14.01	91	14448640	112.12	ug/l	76
69)	o-Xylene	14.82	91	9365835	73.59	ug/l	91
70)	Styrene	14.88	104	7643565	82.11	ug/l	97
71)	Isopropylbenzene	15.51	105	11409295	66.04	ug/l	91
73)	Bromoform	15.54	173	905209	102.31	ug/l	97
74)	trans-1,4-Dichloro-2-buten	15.59	53	517849	111.54	ug/l	91
75)	1,1,2,2-Tetrachloroethane	15.83	83	1586143	99.59	ug/l	99
77)	1,2,3-Trichloropropane	16.13	110	463181	103.59	ug/l	99
78)	n-Propylbenzene	16.28	91	13168393	73.70	ug/l	87
79)	Bromobenzene	16.36	156	2564147	99.07	ug/l	97
80)	1,3,5-Trimethylbenzene	16.59	105	9055447	81.92	ug/l	91
81)	2-Chlorotoluene	16.62	91	9025752	83.12	ug/l	87
82)	4-Chlorotoluene	16.71	91	8315064	85.82	ug/l	97

(#) = qualifier out of range (m) = manual integration

SM 10/30/24

Data File : D:\HPCHEM\1\DATA\24J12\RJV306.D Vial: 11
Acq On : 12 Oct 2024 6:07 pm Operator: DNguye
Sample : VO01J1210 10/50 Inst : 01
Misc : 100ppb 8260/500ppb KET-AA/2500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 16:53 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83)	tert-Butylbenzene	17.27	134	2370142	95.13	ug/l	98
84)	1,2,4-Trimethylbenzene	17.34	105	8711231	80.58	ug/l	87
85)	sec-Butylbenzene	17.64	105	10990866	70.61	ug/l	87
86)	p-Isopropyltoluene	17.86	119	9235748	76.06	ug/l	91
87)	1,3-Dichlorobenzene	18.01	146	4585379	88.14	ug/l	96
88)	1,2,3-Trimethylbenzene	18.13	105	7658860	77.82	ug/l	90
89)	1,4-Dichlorobenzene	18.17	146	4360861	84.35	ug/l	97
90)	n-Butylbenzene	18.48	91	8610114	64.80	ug/l	88
91)	1,2-Dichlorobenzene	18.70	146	3673166	86.56	ug/l	96
92)	1,2-Dibromo-3-chloropropan	19.70	157	226710	106.53	ug/l	99
93)	1,2,4-Trichlorobenzene	20.79	180	2586527	90.04	ug/l	98
94)	Hexachlorobutadiene	20.96	225	1600329	86.91	ug/l	98
95)	Naphthalene	21.13	128	3240066	91.62	ug/l	100
96)	1,2,3-Trichlorobenzene	21.46	180	1918099	92.12	ug/l	99

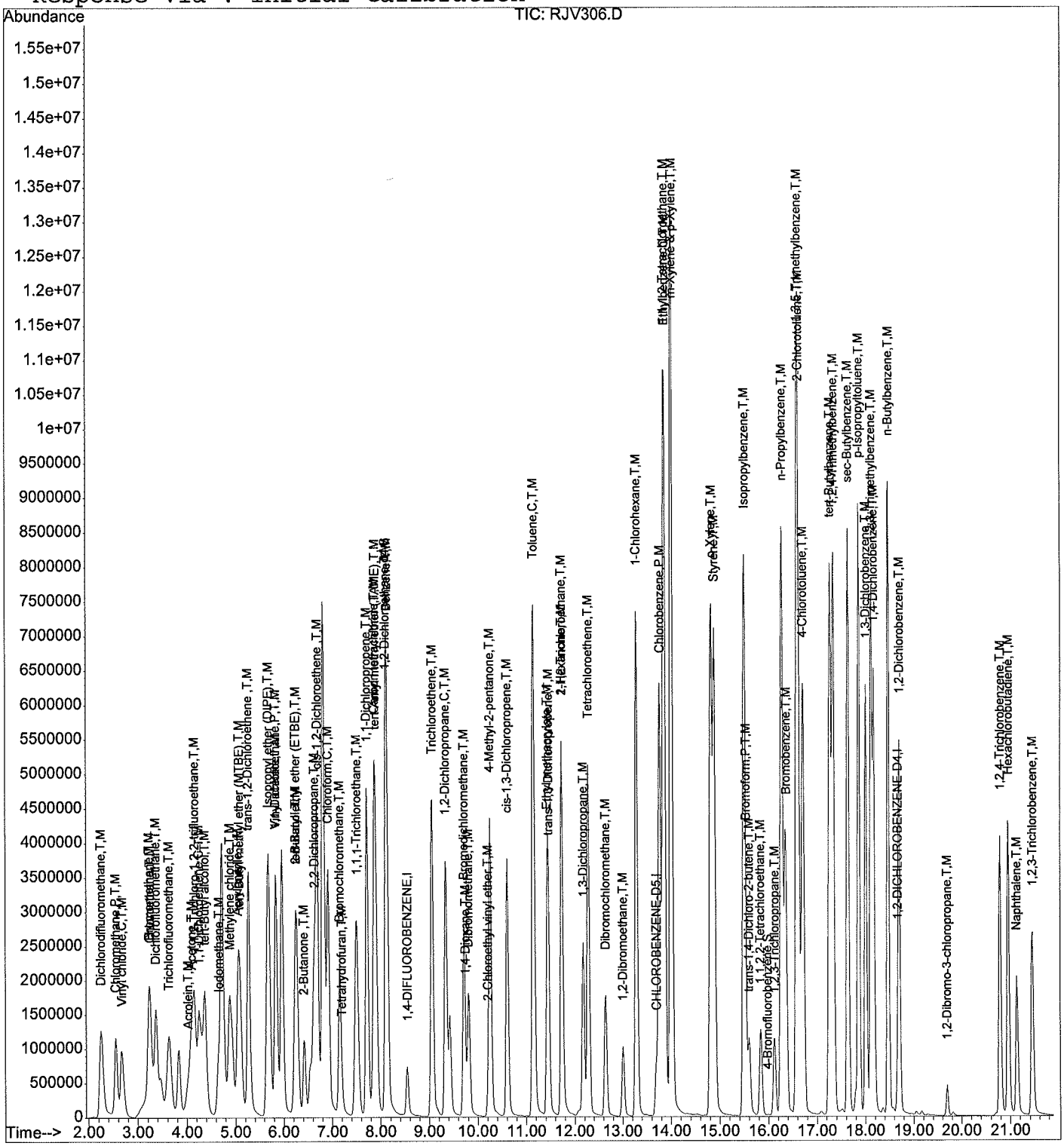
SCM 10/30/24

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV306.D Vial: 11
Acq On : 12 Oct 2024 6:07 pm Operator: DNguye
Sample : VO01J1210 10/50 Inst : 01
Misc : 100ppb 8260/500ppb KET-AA/2500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 16:53 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :01
IC_Beginning DateTime :10/12/24 13:38
Spike Amount :10 PPB
CC/CV File :RJV309
IC File :RJV302

Column Spec :RXI-624SILMS ID :0.25MM
IC_Ending DateTime :10/12/24 18:07
HPChem Method :VO01J12
Date_Time :10/12/24 19:36

M	IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,4-DIFLUOROBENZENE	10.000	0	1068034	1	1	8.545	8.543	0				
	2	Chlorotrifluoroethylene												
	3	Dichlorodifluoromethane	9.045	-9.5	396817	0.372	0.411	2.247	2.247	11.08				
	4	2-Chloro-1,1,1-trifluoroethane												
	5	Chloromethane	11.560	15.6	382728	0.358	0.310	2.560	2.559	13.65				
	6	Vinyl chloride	11.451	14.5	334350	0.313	0.273	2.702	2.690	13.19				
	7	Bromomethane	10.636	6.4	223947	0.210	0.197	3.243	3.233	7.64				
	8	Chloroethane	11.296	13.0	250004	0.234	0.207	3.243	3.236	8.38				
	9	Dichlorofluoromethane	9.273	-7.3	375995	0.352	0.380	3.362	3.359	13.68				
	10	Trichlorofluoromethane	9.160	-8.4	435121	0.407	0.445	3.628	3.628	9.80				
5	11	Acrolein	58.363	16.7	47656	0.009	0.008	4.028	4.024	7.80				
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	9.639	-3.6	188528	0.177	0.183	4.147	4.148	8.51				
5	13	Acetone	51.858	3.7	204520	0.038	0.037	4.102	4.095	6.03				
	14	1,1-Dichloroethene	9.782	-2.2	487444	0.456	0.467	4.250	4.248	8.08				
25	15	tert-Butyl alcohol	251.012	0.4	247673	0.009	0.009	4.369	4.373	7.42				
	16	Iodomethane	10.700	7.0	452955	0.424	0.396	4.665	4.662	8.42				
	17	Methyl acetate	10.248	2.5	104248	0.098	0.095	4.680	4.680	11.58				
	18	Methylene chloride	10.565	5.6	379499	0.355	0.336	4.887	4.881	8.38				
	19	Carbon disulfide	11.140	11.4	1161131	1.087	0.976	4.902	4.897	10.91				
5	20	Acrylonitrile	57.404	14.8	212664	0.040	0.035	5.050	5.058	10.80				
	21	tert-Butyl methyl ether (MTBE)	10.823	8.2	534080	0.500	0.462	5.079	5.079	11.13				
	22	trans-1,2-Dichloroethene	10.337	3.4	494700	0.463	0.448	5.272	5.264	8.41				
	23	Isopropyl ether (DIPE)	10.730	7.3	1075243	1.007	0.938	5.687	5.682	8.58				
	24	Vinyl acetate	11.035	10.3	353866	0.331	0.300	5.850	5.846	14.72				
	25	1,1-Dichloroethane	10.631	6.3	596611	0.559	0.525	5.850	5.836	8.95				
25	26	2-Butanol	261.905	4.8	216540	0.008	0.008	6.175	6.178	12.15				
	27	tert-Butyl ethyl ether (ETBE)	10.623	6.2	773868	0.725	0.682	6.249	6.248	10.48				
5	28	2-Butanone	52.036	4.1	314700	0.059	0.057	6.427	6.442	7.33				
	29	2,2-Dichloropropane	9.529	-4.7	457430	0.428	0.449	6.634	6.630	9.59				
	30	cis-1,2-Dichloroethene	10.363	3.6	356177	0.333	0.322	6.694	6.692	7.93				
	31	Chloroform	9.844	-1.6	563062	0.527	0.535	6.916	6.910	10.32				
	32	Bromochloromethane	10.587	5.9	225161	0.211	0.199	7.153	7.151	9.24				
	33	Tetrahydrofuran	11.394	13.9	38294	0.036	0.031	7.212	7.208	10.36				
	34	Dibromofluoromethane	10.445	4.4	291419	0.273	0.261	7.227	7.227	2.58				
	35	1,1,1-Trichloroethane	9.542	-4.6	490060	0.459	0.481	7.493	7.495	9.83				
	36	Cyclohexane	9.755	-2.4	516950	0.484	0.496	7.523	7.517	6.28				
	37	2,2,4-Trimethylpentane	10.330	3.3	26488	0.025	0.024	7.508	7.514	5.03				
	38	1,1-Dichloropropene	10.006	0.1	155616	0.146	0.146	7.715	7.717	7.96				
	39	Carbon tetrachloride	9.441	-5.6	367156	0.344	0.364	7.878	7.872	9.79				
	40	tert-Amyl methyl ether (TAME)	10.208	2.1	571608	0.535	0.524	7.893	7.891	8.94				
	41	1,2-Dichloroethane-d4	9.840	-1.6	241828	0.226	0.230	7.967	7.967	3.01				
	42	Benzene	10.239	2.4	1252194	1.172	1.145	8.130	8.124	9.85				
	43	1,2-Dichloroethane	10.114	1.1	275712	0.258	0.255	8.100	8.100	12.95				
	44	Trichloroethene	10.063	0.6	325468	0.305	0.303	9.063	9.063	7.09				
	45	Methylcyclohexane	9.296	-7.0	582682	0.546	0.587	9.152	9.148	4.28				
	46	1,2-Dichloropropane	10.410	4.1	286506	0.268	0.258	9.344	9.343	7.03				
	47	Bromodichloromethane	10.077	0.8	379560	0.355	0.353	9.714	9.715	7.42				
20	48	1,4-Dioxane	191.902	-4.0	20190	0.001	0.001	9.759	9.757	14.16				
	49	Dibromomethane	9.983	-0.2	119339	0.112	0.112	9.803	9.807	10.72				
	50	2-Chloroethyl vinyl ether	9.980	-0.2	20564	0.019	0.016	10.218	10.222	39.29	-0.0022	0.0214		0.9977
5	51	4-Methyl-2-pentanone	56.086	12.2	758438	0.142	0.127	10.248	10.261	12.23				
	52	cis-1,3-Dichloropropene	10.596	6.0	437236	0.409	0.386	10.603	10.606	10.37				
	53	CHLOROBENZENE-D5	10.000	0	813885	1	1	13.698	13.694	0				
	54	Toluene-d8	10.818	8.2	1210901	1.488	1.375	11.017	11.013	6.87				
	55	Toluene	10.583	5.8	1365083	1.677	1.585	11.151	11.148	13.23				
	56	Ethyl methacrylate	11.318	13.2	209124	0.257	0.227	11.432	11.448	13.58				
	57	trans-1,3-Dichloropropene	10.873	8.7	317657	0.390	0.359	11.462	11.468	13.11				
	58	1,1,2-Trichloroethane	10.903	9.0	173128	0.213	0.195	11.728	11.732	12.51				
5	59	2-Hexanone	57.060	14.1	481596	0.118	0.104	11.743	11.745	12.75				
	60	1,3-Dichloropropane	10.660	6.6	318885	0.392	0.368	12.173	12.175	10.91				
	61	Tetrachloroethene	9.664	-3.4	269419	0.331	0.343	12.276	12.277	8.52				
	62	Dibromochloromethane	10.500	5.0	198635	0.244	0.232	12.646	12.647	6.04				
	63	1,2-Dibromoethane	10.649	6.5	160251	0.197	0.185	13.017	13.013	11.07				
	64	1-Chlorohexane	9.738	-2.6	586912	0.721	0.740	13.283	13.284	8.90				
	65	Chlorobenzene	10.460	4.6	807857	0.993	0.949	13.757	13.762	8.50				
	66	1,1,1,2-Tetrachloroethane	10.475	4.8	247002	0.303	0.290	13.846	13.844	11.11				
	67	Ethylbenzene	10.276	2.8	1568373	1.927	1.875	13.861	13.860	13.61				
2	68	m-Xylene & p-Xylene	19.454	-2.7	2345217	1.441	1.481	13.994	13.996	8.36				
	69	o-Xylene	9.900	-1.0	1178660	1.448	1.463	14.809	14.816	13.73				
	70	Styrene	10.219	2.2	889936	1.093	1.070	14.883	14.886	11.33				
	71	Isopropylbenzene	9.644	-3.6	1558818	1.915	1.986	15.490	15.495	12.81				
	72	1,2-DICHLOROBENZENE-D4	10.000	0	318498	1	1	18.674	18.667	0				
	73	Bromoform	9.546	-4.5	87239	0.274	0.246	15.534	15.536	21.91	-0.0066	0.2939		0.9993
	74	trans-1,4-Dichloro-2-butene	10.050	0.5	49251	0.155	0.154	15.608	15.609	13.73				
	75	1,1,2,2-Tetrachloroethane	10.402	4.0	174869	0.549	0.528	15.830	15.835	11.05				
	76	4-Bromofluorobenzene	10.407	4.1	392450	1.232	1.184	15.979	15.981	7.58				
	77	1,2,3-Trichloropropane	10.111	1.1	47720	0.150	0.148	16.126	16.127	10.16				
	78	n-Propylbenzene	10.247	2.5	1932721	6.068	5.921	16.275	16.275	12.69				
	79	Bromobenzene	10.270	2.7	280561	0.881	0.858	16.349	16.361	5.43				
	80	1,3,5-Trimethylbenzene	10.161	1.6	1185583	3.722	3.663	16.571	16.582	9.71				
	81	2-Chlorotoluene	10.169	1.7	1165470	3.659	3.598	16.615	16.616	10.00				
	82	4-Chlorotoluene	9.800	-2.0	1002272	3.147	3.211	16.704	16.706	8.13				
	83	tert-Butylbenzene	9.974	-0.3	262292	0.824	0.826	17.267	17.264	5.73				
	84	1,2,4-Trimethylbenzene	10.316	3.2	1177231	3.696	3.583	17.326	17.334	9.83				
	85	sec-Butylbenzene	10.097	1.0	1658995	5.209	5.158	17.637	17.638	14.02				
	86	p-Isopropyltoluene	10.064	0.6	1289914	4.050	4.024	17.859	17.860	12.06				
	87	1,3-Dichlorobenzene	10.049	0.5	551841	1.733	1.724	18.007	18.008	7.25				
	88	1,2,3-Trimethylbenzene	10.220	2.2	1061628	3.333	3.261	18.111	18.114	11.80				
	89	1,4-Dichlorobenzene	9.666	-3.3	527463	1.656	1.713	18.170	18.171	9.73				
	90	n-Butylbenzene	9.373	-6.3	1314457	4.127	4.400	18.466	18.472	11.64				
	91	1,2-Dichlorobenzene	10.001	0.0	447963	1.406	1.406	18.703	18.704	8.62				
	92	1,2-Dibromo-3-chloropropane	9.942	-0.6	22332	0.070	0.071	19.695	19.701	9.99				
	93	1,2,4-Trichlorobenzene	9.723	-2.8	294827	0.926	0.952	20.791	20.792	5.80				
	94	Hexachlorobutadiene	9.984	-0.2	194057	0.609	0.610	20.954	20.956	8.57				
	95	Naphthalene	9.845	-1.5	367510	1.154	1.172	21.132	21.137	7.49				
	96	1,2,3-Trichlorobenzene	10.198	2.0	224150	0.704	0.690	21.458	21.458	8.36				

Spike Amount = Nominal Amount * M

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	122	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	9.046	9.5	99	0.00
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	11.560	-15.6	128	0.00
6	C,T,M	Vinyl chloride	10.000	11.451	-14.5	129	0.00
7	T,M	Bromomethane	10.000	10.636	-6.4	136	0.00
8	T,M	Chloroethane	10.000	11.296	-13.0	132	0.00
9	T,M	Dichlorofluoromethane	10.000	9.274	7.3	138	0.00
10	T,M	Trichlorofluoromethane	10.000	9.160	8.4	103	0.00
11	T,M	Acrolein	50.000	58.363	-16.7	138	0.02
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	9.640	3.6	122	0.00
13	T,M	Acetone	50.000	51.858	-3.7	123	0.02
14	C,T,M	1,1-Dichloroethene	10.000	9.782	2.2	126	0.00
15	T,M	tert-Butyl alcohol	250.000	251.013	-0.4	116	0.00
16	T,M	Iodomethane	10.000	10.700	-7.0	138	0.00
17	T,M	Methyl acetate	10.000	10.248	-2.5	120	0.00
18	T,M	Methylene chloride	10.000	10.565	-5.6	138	0.00
19	T,M	Carbon disulfide	10.000	11.141	-11.4	130	0.00
20	T,M	Acrylonitrile	50.000	57.404	-14.8	132	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	10.823	-8.2	128	0.00
22	T,M	trans-1,2-Dichloroethene	10.000	10.337	-3.4	134	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	10.731	-7.3	138	0.00
24	T,M	Vinyl acetate	10.000	11.036	-10.4	115	0.00
25	P,T,M	1,1-Dichloroethane	10.000	10.631	-6.3	138	0.01
26	T,M	2-Butanol	250.000	261.906	-4.8	118	0.00
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.623	-6.2	132	0.00
28	T,M	2-Butanone	50.000	52.037	-4.1	120	0.00
29	T,M	2,2-Dichloropropane	10.000	9.529	4.7	122	0.00
30	T,M	cis-1,2-Dichloroethene	10.000	10.363	-3.6	134	0.00
31	C,T,M	Chloroform	10.000	9.845	1.5	131	0.00
32	T,M	Bromochloromethane	10.000	10.587	-5.9	131	0.00
33	T,M	Tetrahydrofuran	10.000	11.394	-13.9	143	0.00
34	S	Dibromofluoromethane	10.000	10.446	-4.5	129	0.00
35	T,M	1,1,1-Trichloroethane	10.000	9.542	4.6	121	0.00
36	T,M	Cyclohexane	10.000	9.756	2.4	117	0.00
37	T,M	2,2,4-Trimethylpentane	10.000	10.331	-3.3	127	-0.01
38	T,M	1,1-Dichloropropene	10.000	10.006	-0.1	127	0.00
39	T,M	Carbon tetrachloride	10.000	9.441	5.6	117	0.00
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.208	-2.1	129	0.00
41	S	1,2-Dichloroethane-d4	10.000	9.841	1.6	116	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.239	-2.4	134	0.00
43	T,M	1,2-Dichloroethane	10.000	10.115	-1.2	116	0.00
44	T,M	Trichloroethene	10.000	10.063	-0.6	131	0.00
45	T,M	Methylcyclohexane	10.000	9.297	7.0	117	0.00
46	C,T,M	1,2-Dichloropropane	10.000	10.410	-4.1	134	0.00
47	T,M	Bromodichloromethane	10.000	10.078	-0.8	126	0.00
48	T,M	1,4-Dioxane	200.000	191.902	4.0	113	0.00
49	T,M	Dibromomethane	10.000	9.983	0.2	120	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	9.981	0.2	137	0.00
51	T,M	4-Methyl-2-pentanone	50.000	56.087	-12.2	119	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	10.596	-6.0	129	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	119	0.00
54	S	Toluene-d8	10.000	10.819	-8.2	132	0.00
55	C,T,M	Toluene	10.000	10.583	-5.8	132	0.00
56	T,M	Ethyl methacrylate	10.000	11.319	-13.2	120	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	10.873	-8.7	121	0.00
58	T,M	1,1,2-Trichloroethane	10.000	10.903	-9.0	124	0.00
59	T,M	2-Hexanone	50.000	57.060	-14.1	118	0.00
60	T,M	1,3-Dichloropropane	10.000	10.661	-6.6	125	0.00
61	T,M	Tetrachloroethene	10.000	9.665	3.4	125	0.00
62	T,M	Dibromochloromethane	10.000	10.500	-5.0	122	0.00
63	T,M	1,2-Dibromoethane	10.000	10.650	-6.5	121	0.00
64	T,M	1-Chlorohexane	10.000	9.739	2.6	125	0.00
65	P,M	Chlorobenzene	10.000	10.461	-4.6	132	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	10.000	10.475	-4.7	129	0.00
67	C,T,M	Ethylbenzene	10.000	10.276	-2.8	128	0.00
68	T,M	m-Xylene & p-Xylene	20.000	19.455	2.7	130	0.00
69	T,M	o-Xylene	10.000	9.900	1.0	110	-0.01
70	T,M	Styrene	10.000	10.220	-2.2	110	0.00
71	T,M	Isopropylbenzene	10.000	9.645	3.6	110	-0.01
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	100	0.00
73	P,T,M	Bromoform	10.000	9.547	4.5	102	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	10.051	-0.5	93	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	10.402	-4.0	95	-0.01
76	S	4-Bromofluorobenzene	10.000	10.407	-4.1	106	0.00
77	T,M	1,2,3-Trichloropropane	10.000	10.112	-1.1	94	0.00
78	T,M	n-Propylbenzene	10.000	10.248	-2.5	108	0.00
79	T,M	Bromobenzene	10.000	10.270	-2.7	109	-0.01
80	T,M	1,3,5-Trimethylbenzene	10.000	10.162	-1.6	109	-0.01

(#) = Out of Range

SM 10/30/24

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	10.169	-1.7	109	0.00
82	T,M	4-Chlorotoluene	10.000	9.800	2.0	106	0.00
83	T,M	tert-Butylbenzene	10.000	9.974	0.3	105	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	10.317	-3.2	109	-0.01
85	T,M	sec-Butylbenzene	10.000	10.098	-1.0	104	0.00
86	T,M	p-Isopropyltoluene	10.000	10.064	-0.6	107	0.00
87	T,M	1,3-Dichlorobenzene	10.000	10.050	-0.5	107	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.220	-2.2	107	0.00
89	T,M	1,4-Dichlorobenzene	10.000	9.666	3.3	106	0.00
90	T,M	n-Butylbenzene	10.000	9.373	6.3	104	-0.01
91	T,M	1,2-Dichlorobenzene	10.000	10.001	-0.0	106	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	9.942	0.6	94	-0.01
93	T,M	1,2,4-Trichlorobenzene	10.000	9.723	2.8	103	0.00
94	T,M	Hexachlorobutadiene	10.000	9.984	0.2	109	0.00
95	T,M	Naphthalene	10.000	9.845	1.5	94	0.00
96	T,M	1,2,3-Trichlorobenzene	10.000	10.199	-2.0	103	0.00

SY 10/30/24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RJV309.D VO01J12.M Thu Oct 24 09:07:52 2024 Page 3

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	122	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.372	9.5	99	0.00
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.358	-15.5	128	0.00
6	C,T,M	Vinyl chloride	0.273	0.313	-14.7	129	0.00
7	T,M	Bromomethane	0.197	0.210	-6.6	136	0.00
8	T,M	Chloroethane	0.207	0.234	-13.0	132	0.00
9	T,M	Dichlorofluoromethane	0.380	0.352	7.4	138	0.00
10	T,M	Trichlorofluoromethane	0.445	0.407	8.5	103	0.00
11	T,M	Acrolein	0.008	0.009	-12.5	138	0.02
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.177	3.3	122	0.00
13	T,M	Acetone	0.037	0.038	-2.7	123	0.02
14	C,T,M	1,1-Dichloroethene	0.467	0.456	2.4	126	0.00
15	T,M	tert-Butyl alcohol	0.009	0.009	0.0	116	0.00
16	T,M	Iodomethane	0.396	0.424	-7.1	138	0.00
17	T,M	Methyl acetate	0.095	0.098	-3.2	120	0.00
18	T,M	Methylene chloride	0.336	0.355	-5.7	138	0.00
19	T,M	Carbon disulfide	0.976	1.087	-11.4	130	0.00
20	T,M	Acrylonitrile	0.035	0.040	-14.3	132	0.00
21	T,M	tert-Butyl methyl ether (MT	0.462	0.500	-8.2	128	0.00
22	T,M	trans-1,2-Dichloroethene	0.448	0.463	-3.3	134	0.00
23	T,M	Isopropyl ether (DIPE)	0.938	1.007	-7.4	138	0.00
24	T,M	Vinyl acetate	0.300	0.331	-10.3	115	0.00
25	P,T,M	1,1-Dichloroethane	0.525	0.559	-6.5	138	0.01
26	T,M	2-Butanol	0.008	0.008	0.0	118	0.00
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.725	-6.3	132	0.00
28	T,M	2-Butanone	0.057	0.059	-3.5	120	0.00
29	T,M	2,2-Dichloropropane	0.449	0.428	4.7	122	0.00
30	T,M	cis-1,2-Dichloroethene	0.322	0.333	-3.4	134	0.00
31	C,T,M	Chloroform	0.535	0.527	1.5	131	0.00
32	T,M	Bromochloromethane	0.199	0.211	-6.0	131	0.00
33	T,M	Tetrahydrofuran	0.031	0.036	-16.1	143	0.00
34	S	Dibromofluoromethane	0.261	0.273	-4.6	129	0.00
35	T,M	1,1,1-Trichloroethane	0.481	0.459	4.6	121	0.00
36	T,M	Cyclohexane	0.496	0.484	2.4	117	0.00
37	T,M	2,2,4-Trimethylpentane	0.024	0.025	-4.2	127	-0.01
38	T,M	1,1-Dichloropropene	0.146	0.146	0.0	127	0.00
39	T,M	Carbon tetrachloride	0.364	0.344	5.5	117	0.00
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.535	-2.1	129	0.00
41	S	1,2-Dichloroethane-d4	0.230	0.226	1.7	116	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.172	-2.4	134	0.00
43	T,M	1,2-Dichloroethane	0.255	0.258	-1.2	116	0.00
44	T,M	Trichloroethene	0.303	0.305	-0.7	131	0.00
45	T,M	Methylcyclohexane	0.587	0.546	7.0	117	0.00
46	C,T,M	1,2-Dichloropropane	0.258	0.268	-3.9	134	0.00
47	T,M	Bromodichloromethane	0.353	0.355	-0.6	126	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	113	0.00
49	T,M	Dibromomethane	0.112	0.112	0.0	120	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.019	-18.7	137	0.00
51	T,M	4-Methyl-2-pentanone	0.127	0.142	-11.8	119	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.409	-6.0	129	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	119	0.00
54	S	Toluene-d8	1.375	1.488	-8.2	132	0.00
55	C,T,M	Toluene	1.585	1.677	-5.8	132	0.00
56	T,M	Ethyl methacrylate	0.227	0.257	-13.2	120	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.390	-8.6	121	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.213	-9.2	124	0.00
59	T,M	2-Hexanone	0.104	0.118	-13.5	118	0.00
60	T,M	1,3-Dichloropropane	0.368	0.392	-6.5	125	0.00
61	T,M	Tetrachloroethene	0.343	0.331	3.5	125	0.00
62	T,M	Dibromochloromethane	0.232	0.244	-5.2	122	0.00
63	T,M	1,2-Dibromoethane	0.185	0.197	-6.5	121	0.00
64	T,M	1-Chlorohexane	0.740	0.721	2.6	125	0.00
65	P,M	Chlorobenzene	0.949	0.993	-4.6	132	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.303	-4.5	129	0.00
67	C,T,M	Ethylbenzene	1.875	1.927	-2.8	128	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.441	2.7	130	0.00
69	T,M	o-Xylene	1.463	1.448	1.0	110	-0.01
70	T,M	Styrene	1.070	1.093	-2.1	110	0.00
71	T,M	Isopropylbenzene	1.986	1.915	3.6	110	-0.01
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	100	0.00
73	P,T,M	Bromoform	0.246	0.274	-11.4	102	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.155	-0.6	93	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.549	-4.0	95	-0.01
76	S	4-Bromofluorobenzene	1.184	1.232	-4.1	106	0.00
77	T,M	1,2,3-Trichloropropane	0.148	0.150	-1.4	94	0.00
78	T,M	n-Propylbenzene	5.921	6.068	-2.5	108	0.00
79	T,M	Bromobenzene	0.858	0.881	-2.7	109	-0.01
80	T,M	1,3,5-Trimethylbenzene	3.663	3.722	-1.6	109	-0.01

(#) = Out of Range

SU 10/30/24

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.659	-1.7	109	0.00
82	T,M	4-Chlorotoluene	3.211	3.147	2.0	106	0.00
83	T,M	tert-Butylbenzene	0.826	0.824	0.2	105	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.696	-3.2	109	-0.01
85	T,M	sec-Butylbenzene	5.158	5.209	-1.0	104	0.00
86	T,M	p-Isopropyltoluene	4.024	4.050	-0.6	107	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.733	-0.5	107	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.333	-2.2	107	0.00
89	T,M	1,4-Dichlorobenzene	1.713	1.656	3.3	106	0.00
90	T,M	n-Butylbenzene	4.403	4.127	6.3	104	-0.01
91	T,M	1,2-Dichlorobenzene	1.406	1.406	0.0	106	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.070	1.4	94	-0.01
93	T,M	1,2,4-Trichlorobenzene	0.952	0.926	2.7	103	0.00
94	T,M	Hexachlorobutadiene	0.610	0.609	0.2	109	0.00
95	T,M	Naphthalene	1.172	1.154	1.5	94	0.00
96	T,M	1,2,3-Trichlorobenzene	0.690	0.704	-2.0	103	0.00

Su 10/30/24

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:14 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	1068034	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	813885	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	318498	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	291419	10.45	ug/l	0.00
Spiked Amount 10.000			Recovery = 104.50%			
41) 1,2-Dichloroethane-d4	7.97	65	241828	9.84	ug/l	0.00
Spiked Amount 10.000			Recovery = 98.40%			
54) Toluene-d8	11.02	98	1210901	10.82	ug/l	0.00
Spiked Amount 10.000			Recovery = 108.20%			
76) 4-Bromofluorobenzene	15.98	95	392450	10.41	ug/l	0.00
Spiked Amount 10.000			Recovery = 104.10%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.25	85	396817	9.05	ug/l	99
5) Chloromethane	2.56	50	382728	11.56	ug/l	99
6) Vinyl chloride	2.70	62	334350	11.45	ug/l	99
7) Bromomethane	3.24	94	223947	10.64	ug/l	96
8) Chloroethane	3.24	64	250004	11.30	ug/l	98
9) Dichlorofluoromethane	3.36	67	375995	9.27	ug/l	95
10) Trichlorofluoromethane	3.63	101	435121	9.16	ug/l	96
11) Acrolein	4.03	56	47656	58.36	ug/l	90
12) 1,1,2-Trichloro-1,2,2-trif	4.15	151	188528	9.64	ug/l	99
13) Acetone	4.10	43	204520	51.86	ug/l	95
14) 1,1-Dichloroethene	4.25	61	487444	9.78	ug/l	97
15) tert-Butyl alcohol	4.37	59	247673	251.01	ug/l	99
16) Iodomethane	4.66	142	452955	10.70	ug/l	94
17) Methyl acetate	4.68	43	104248	10.25	ug/l	99
18) Methylene chloride	4.89	49	379499	10.57	ug/l	98
19) Carbon disulfide	4.90	76	1161131	11.14	ug/l	100
20) Acrylonitrile	5.05	53	212664	57.40	ug/l	99
21) tert-Butyl methyl ether (M	5.08	73	534080	10.82	ug/l	97
22) trans-1,2-Dichloroethene	5.27	61	494700	10.34	ug/l	98
23) Isopropyl ether (DIPE)	5.69	45	1075243	10.73	ug/l	99
24) Vinyl acetate	5.85	43	353866	11.04	ug/l	98
25) 1,1-Dichloroethane	5.85	63	596611	10.63	ug/l	100
26) 2-Butanol	6.18	45	216540	261.91	ug/l #	83
27) tert-Butyl ethyl ether (ET	6.25	59	773868	10.62	ug/l	100
28) 2-Butanone	6.43	43	314700	52.04	ug/l	96
29) 2,2-Dichloropropane	6.63	77	457430	9.53	ug/l	99
30) cis-1,2-Dichloroethene	6.69	96	356177	10.36	ug/l	99

(#) = qualifier out of range (m) = manual integration
RJV309.D VO01J12.M Thu Oct 24 09:07:40 2024 Page 1

SG 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:14 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Chloroform	6.92	83	563062	9.84 ug/l		99
32)	Bromochloromethane	7.15	49	225161	10.59 ug/l		99
33)	Tetrahydrofuran	7.21	42	38294	11.39 ug/l		92
35)	1,1,1-Trichloroethane	7.49	97	490060	9.54 ug/l		100
36)	Cyclohexane	7.52	84	516950	9.76 ug/l		99
37)	2,2,4-Trimethylpentane	7.51	57	26488	10.33 ug/l	#	100
38)	1,1-Dichloropropene	7.72	110	155616	10.01 ug/l		99
39)	Carbon tetrachloride	7.88	119	367156	9.44 ug/l		98
40)	tert-Amyl methyl ether (TA	7.89	73	571608	10.21 ug/l		98
42)	Benzene	8.13	78	1252194	10.24 ug/l		99
43)	1,2-Dichloroethane	8.10	62	275712	10.11 ug/l		99
44)	Trichloroethene	9.06	130	325468	10.06 ug/l		98
45)	Methylcyclohexane	9.15	83	582682	9.30 ug/l		100
46)	1,2-Dichloropropane	9.34	63	286506	10.41 ug/l		95
47)	Bromodichloromethane	9.71	83	379560	10.08 ug/l		100
48)	1,4-Dioxane	9.76	88	20190	191.90 ug/l		98
49)	Dibromomethane	9.80	93	119339	9.98 ug/l		98
50)	2-Chloroethyl vinyl ether	10.22	63	20564	9.98 ug/l		99
51)	4-Methyl-2-pentanone	10.25	43	758438	56.09 ug/l		99
52)	cis-1,3-Dichloropropene	10.60	75	437236	10.60 ug/l		99
55)	Toluene	11.15	91	1365083	10.58 ug/l		99
56)	Ethyl methacrylate	11.43	69	209124	11.32 ug/l		99
57)	trans-1,3-Dichloropropene	11.46	75	317657	10.87 ug/l		98
58)	1,1,2-Trichloroethane	11.73	97	173128	10.90 ug/l		100
59)	2-Hexanone	11.74	43	481596	57.06 ug/l		99
60)	1,3-Dichloropropane	12.17	76	318885	10.66 ug/l		100
61)	Tetrachloroethene	12.28	164	269419	9.66 ug/l		100
62)	Dibromochloromethane	12.65	129	198635	10.50 ug/l		100
63)	1,2-Dibromoethane	13.02	107	160251	10.65 ug/l		100
64)	1-Chlorohexane	13.28	91	586912	9.74 ug/l		100
65)	Chlorobenzene	13.76	112	807857	10.46 ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	247002	10.48 ug/l		99
67)	Ethylbenzene	13.86	91	1568373	10.28 ug/l		98
68)	m-Xylene & p-Xylene	13.99	91	2345217	19.45 ug/l		98
69)	o-Xylene	14.81	91	1178660	9.90 ug/l		100
70)	Styrene	14.88	104	889936	10.22 ug/l		100
71)	Isopropylbenzene	15.49	105	1558818	9.64 ug/l		100
73)	Bromoform	15.53	173	87239	9.55 ug/l		100
74)	trans-1,4-Dichloro-2-buten	15.61	53	49251	10.05 ug/l		92
75)	1,1,2,2-Tetrachloroethane	15.83	83	174869	10.40 ug/l		99
77)	1,2,3-Trichloropropane	16.13	110	47720	10.11 ug/l		99

(#) = qualifier out of range (m) = manual integration

SCA 10/28/24

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:14 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.27	91	1932721	10.25	ug/l	100
79)	Bromobenzene	16.35	156	280561	10.27	ug/l	100
80)	1,3,5-Trimethylbenzene	16.57	105	1185583	10.16	ug/l	100
81)	2-Chlorotoluene	16.62	91	1165470	10.17	ug/l	100
82)	4-Chlorotoluene	16.70	91	1002272	9.80	ug/l	99
83)	tert-Butylbenzene	17.27	134	262292	9.97	ug/l	98
84)	1,2,4-Trimethylbenzene	17.33	105	1177231	10.32	ug/l	99
85)	sec-Butylbenzene	17.64	105	1658995	10.10	ug/l	99
86)	p-Isopropyltoluene	17.86	119	1289914	10.06	ug/l	99
87)	1,3-Dichlorobenzene	18.01	146	551841	10.05	ug/l	100
88)	1,2,3-Trimethylbenzene	18.11	105	1061628	10.22	ug/l	100
89)	1,4-Dichlorobenzene	18.17	146	527463	9.67	ug/l	99
90)	n-Butylbenzene	18.47	91	1314457	9.37	ug/l	100
91)	1,2-Dichlorobenzene	18.70	146	447963	10.00	ug/l	99
92)	1,2-Dibromo-3-chloropropan	19.70	157	22332	9.94	ug/l	95
93)	1,2,4-Trichlorobenzene	20.79	180	294827	9.72	ug/l	98
94)	Hexachlorobutadiene	20.95	225	194057	9.98	ug/l	100
95)	Naphthalene	21.13	128	367510	9.85	ug/l	100
96)	1,2,3-Trichlorobenzene	21.46	180	224150	10.20	ug/l	98

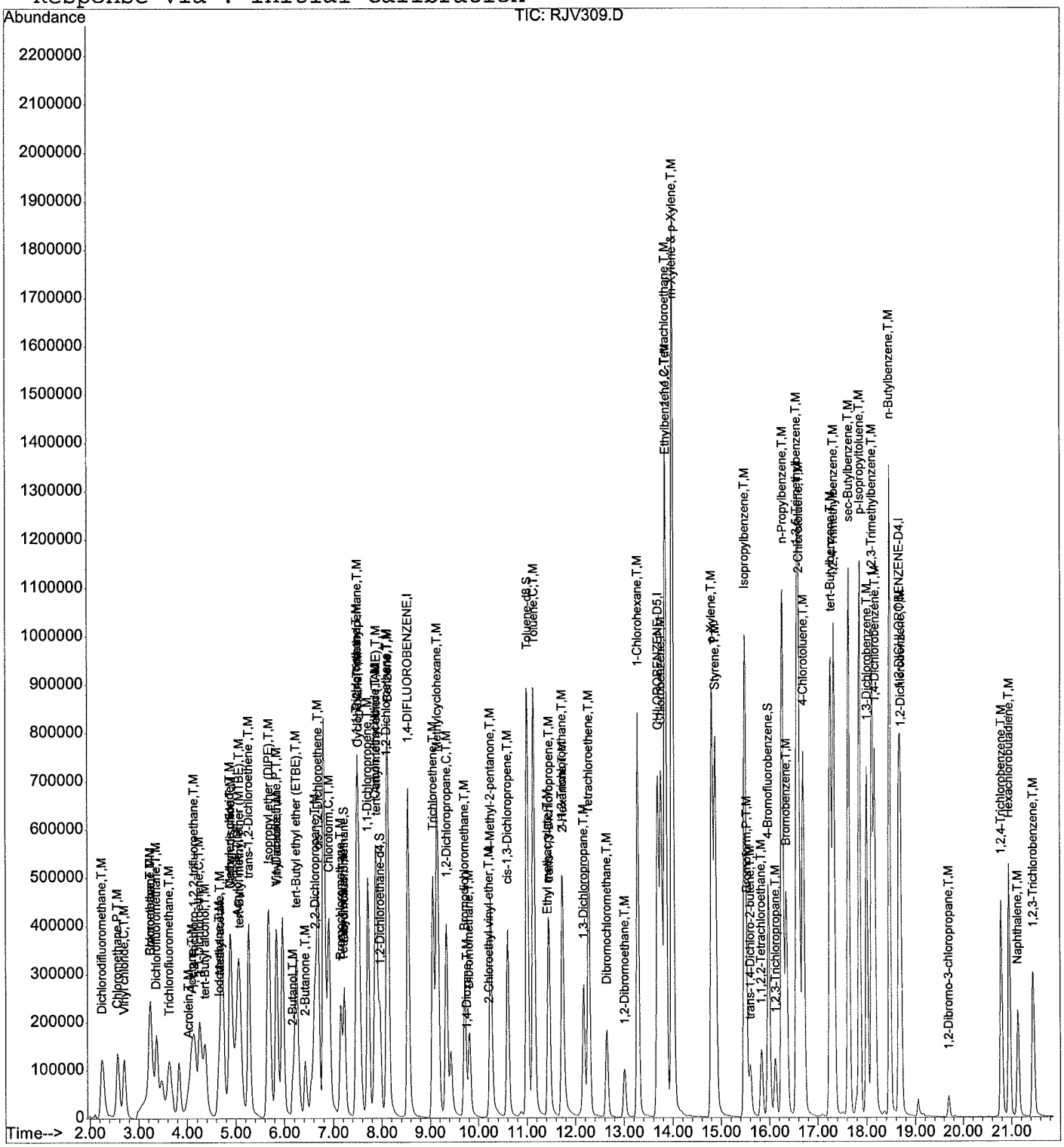
SA 10/30/24

(#) = qualifier out of range (m) = manual integration
RJV309.D VO01J12.M Thu Oct 24 09:07:41 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:14 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



DAILY CALIBRATIONS

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : TITAN 1-A
Lab Code : EMAX SDG No : 24J168
Lab File ID: RKV026 BFB Injection Date: 11/04/24
Instrument ID: 01 BFB Injection Time: 16:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	19.152
75	30 - 60% of mass 95	53.469
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	6.354
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	72.497
175	5 - 9% of mass 174	5.540(7.64)1
176	95 - 101% % of mass 174	72.029(99.35)1
177	5 - 9% % of mass 176	4.924(6.84)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, Lab QCs and Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD10	CV001J1220	RKV027	11/04/24	17:28
2	LCS1W	V001K02L	RKV028	11/04/24	17:58
3	LCD1W	V001K02C	RKV029	11/04/24	18:27
4	MBLK1W	V001K02B	RKV031	11/04/24	19:26
5	T1AMF-MW042_OCT24	24J168-07	RKV038	11/04/24	22:49
6	T1AMF-MW046_OCT24	24J168-08	RKV039	11/04/24	23:17
7	T1AMF-MW056_OCT24	24J168-09	RKV040	11/04/24	23:46
8	T1AMF-MW056_OCT24_FD	24J168-10	RKV041	11/05/24	00:15
9	T1AMF-MW049_OCT24	24J168-11	RKV042	11/05/24	00:43
10	T1AMF-MW051_OCT24	24J168-12	RKV043	11/05/24	01:12
11	T1AMF-MW029_OCT24	24J168-13	RKV044	11/05/24	01:41
12	T1AMF-EW01_OCT24	24J168-14	RKV045	11/05/24	02:09
13	T1AMF-MW045_OCT24	24J168-15	RKV046	11/05/24	02:38
14	T1AMF-EB001_OCT24	24J168-16	RKV047	11/05/24	03:07
15	T1AMF-EB002_OCT24	24J168-17	RKV048	11/05/24	03:36
16	T1AMF-SB001_OCT24	24J168-18	RKV049	11/05/24	04:05
17	VSTD10	EV001J1220	RKV050	11/05/24	04:33
18	VSTD10	EV001J12201	RKV051	11/05/24	05:03
19	VSTD10	EV001J12202	RKV052	11/05/24	05:31

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: EMAX Laboratories, Inc.
Lab Code: EMAX
Lab File ID: RJV302
Instrument ID: 01

Project: TITAN 1-A
SDG No: 24J168
Date Analyzed: 10/12/24
Time Analyzed: 16:08

	INTERNAL STANDARD (IS)	1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5		1,2-DICHLOROBENZENE-D4	
		Area #	RT #	Area #	RT #	Area #	RT #
	12 HOUR STD	878286	8.54	685675	13.70	317109	18.67
	UPPER LIMIT	1756572	8.71	1371350	13.87	634218	18.84
	LOWER LIMIT	439143	8.37	342838	13.53	158555	18.50
		Area #	RT #	Area #	RT #	Area #	RT #
1	VSTD10	764276	8.53	592084	13.70	332956	18.67
2	LCS1W	947008	8.53	785265	13.68	362450	18.67
3	LCD1W	893647	8.54	696021	13.70	351155	18.67
4	MBLK1W	957179	8.54	709126	13.70	274730	18.67
5	T1AMF-MW042_OCT24	720142	8.53	540911	13.70	222342	18.67
6	T1AMF-MW046_OCT24	664934	8.54	510258	13.70	206849	18.67
7	T1AMF-MW056_OCT24	703913	8.55	520459	13.70	209110	18.67
8	T1AMF-MW056_OCT24_FD	667929	8.54	506384	13.70	208484	18.67
9	T1AMF-MW049_OCT24	675022	8.53	509710	13.68	201334	18.67
10	T1AMF-MW051_OCT24	643347	8.53	484739	13.70	193605	18.67
11	T1AMF-MW029_OCT24	600066	8.54	455147	13.70	182043	18.67
12	T1AMF-EW01_OCT24	588114	8.53	454582	13.70	180986	18.67
13	T1AMF-MW045_OCT24	620829	8.53	463405	13.70	183922	18.67
14	T1AMF-EB001_OCT24	628709	8.54	469708	13.70	187276	18.67
15	T1AMF-EB002_OCT24	588733	8.54	441020	13.70	178242	18.67
16	T1AMF-SB001_OCT24	635254	8.54	475687	13.70	191222	18.67
17	VSTD10	639576	8.55	494080	13.70	325146	18.67
18	VSTD10	686559	8.54	523389	13.70	326183	18.67
19	VSTD10	1095441	8.54	830324	13.70	340306	18.67

Area Upper Limit = +100% of ICAL Midpoint IS Area
Area Lower Limit = -50% of ICAL Midpoint IS Area
Retention Time(RT) Upper Limit = +10 seconds of ICAL Midpoint IS RT
Retention Time(RT) Lower Limit = -10 seconds of ICAL Midpoint IS RT

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

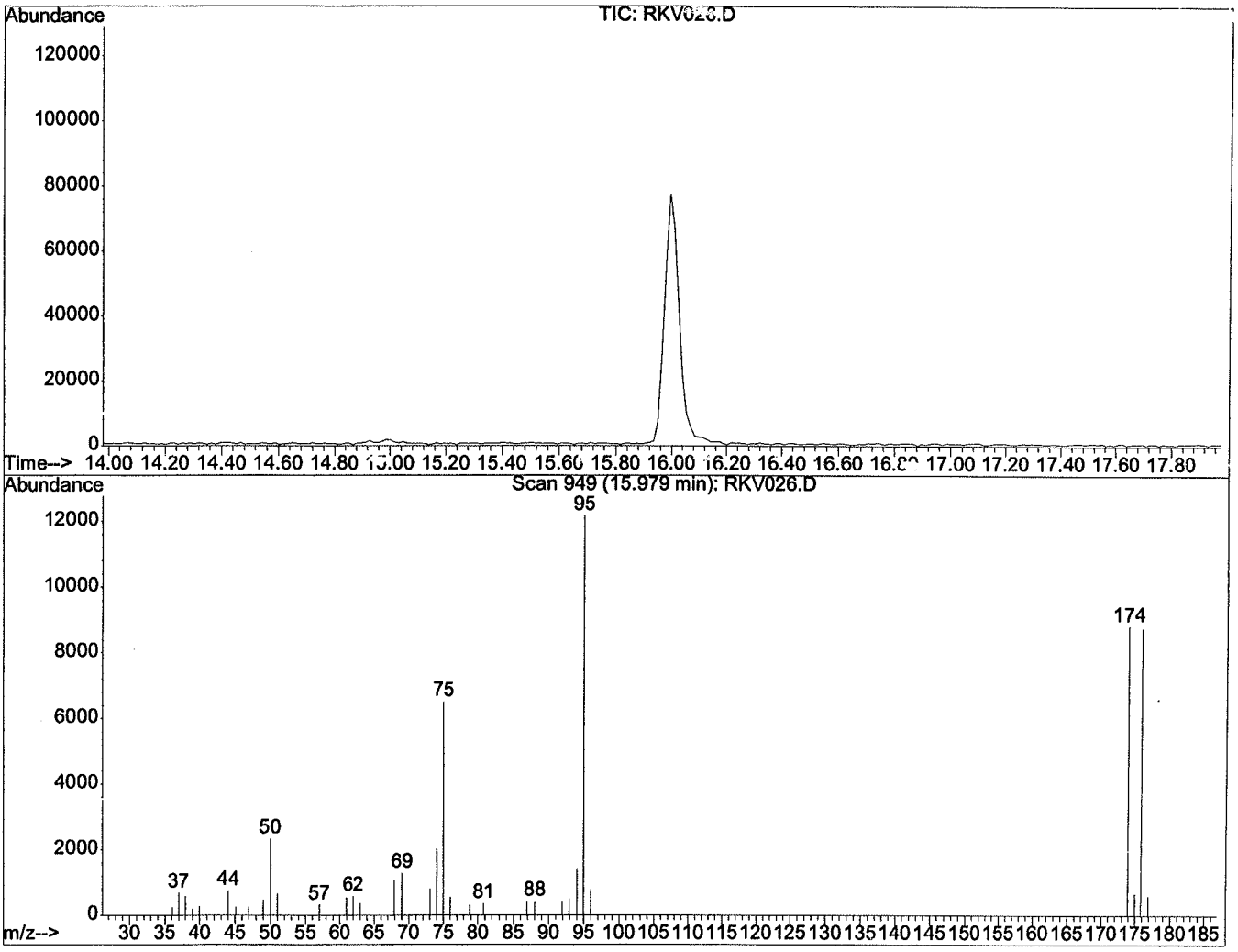
		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	87	-0.01
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	8.591	14.1	67	-0.08
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	8.508	14.9	67	-0.10
6	C,T,M	Vinyl chloride	10.000	9.916	0.8	80	-0.08
7	T,M	Bromomethane	10.000	11.969	-19.7	109	-0.09
8	T,M	Chloroethane	10.000	10.082	-0.8	84	-0.03
9	T,M	Dichlorofluoromethane	10.000	11.496	-15.0	123	-0.08
10	T,M	Trichlorofluoromethane	10.000	10.732	-7.3	87	-0.09
11	T,M	Acrolein	50.000	63.037	-26.1#	107	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	12.710	-27.1#	115	-0.06
13	T,M	Acetone	50.000	55.928	-11.9	95	-0.05
14	C,T,M	1,1-Dichloroethene	10.000	9.769	2.3	90	-0.05
15	T,M	tert-Butyl alcohol	250.000	268.568	-7.4	89	-0.05
16	T,M	Iodomethane	10.000	11.785	-17.9	109	-0.05
17	T,M	Methyl acetate	10.000	9.991	0.1	84	-0.03
18	T,M	Methylene chloride	10.000	10.202	-2.0	96	-0.05
19	T,M	Carbon disulfide	10.000	10.438	-4.4	87	-0.05
20	T,M	Acrylonitrile	50.000	57.667	-15.3	95	-0.03
21	T,M	tert-Butyl methyl ether (MT	10.000	11.258	-12.6	95	-0.05
22	T,M	trans-1,2-Dichloroethene	10.000	9.890	1.1	92	-0.05
23	T,M	Isopropyl ether (DIPE)	10.000	9.617	3.8	89	-0.05
24	T,M	Vinyl acetate	10.000	9.777	2.2	73	-0.03
25	P,T,M	1,1-Dichloroethane	10.000	10.517	-5.2	98	-0.03
26	T,M	2-Butanol	250.000	306.779	-22.7#	99	-0.05
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.331	-3.3	92	-0.03
28	T,M	2-Butanone	50.000	50.247	-0.5	83	-0.03
29	T,M	2,2-Dichloropropane	10.000	11.401	-14.0	104	-0.03
30	T,M	cis-1,2-Dichloroethene	10.000	10.768	-7.7	99	-0.03
31	C,T,M	Chloroform	10.000	10.711	-7.1	102	-0.03
32	T,M	Bromochloromethane	10.000	9.716	2.8	86	-0.02
33	T,M	Tetrahydrofuran	10.000	9.957	0.4	89	-0.03
34	S	Dibromofluoromethane	10.000	10.758	-7.6	95	-0.02
35	T,M	1,1,1-Trichloroethane	10.000	10.650	-6.5	96	-0.02
36	T,M	Cyclohexane	10.000	9.642	3.6	83	-0.03
37	T,M	2,2,4-Trimethylpentane	10.000	9.202	8.0	81	-0.03
38	T,M	1,1-Dichloropropene	10.000	10.256	-2.6	93	-0.02
39	T,M	Carbon tetrachloride	10.000	11.078	-10.8	99	-0.03
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.582	-5.8	95	-0.03
41	S	1,2-Dichloroethane-d4	10.000	9.813	1.9	83	-0.02

(#) = Out of Range

BFB

Data File : D:\HPCHEM\1\DATA\24K04\RKV026.D
Acq On : 4 Nov 2024 4:49 pm
Sample : BFB01K02
Misc : 25mL
MS Integration Params: RTE.P
Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls

Vial: 1
Operator: DNguye/CLi
Inst : 01
Multiplr: 1.00



Spectrum Information: Scan 949 -Scan 943 cc 11/5/24

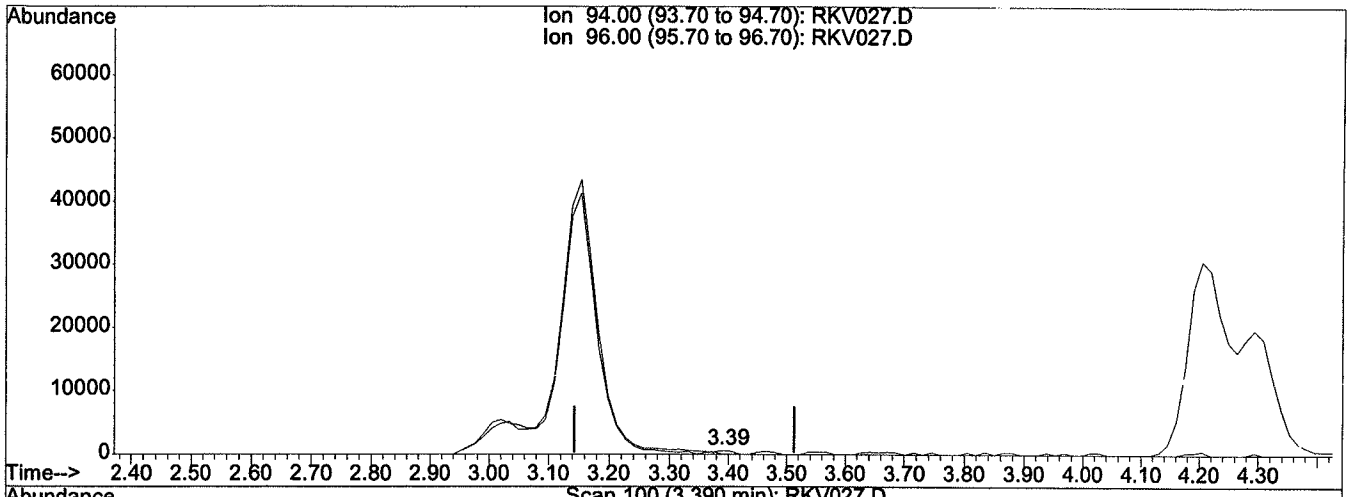
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	2330	PASS
75	95	30	60	53.5	6505	PASS
95	95	100	100	100.0	12166	PASS
96	95	5	9	6.4	773	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	72.5	8820	PASS
175	174	5	9	7.6	674	PASS
176	174	95	101	99.1	8763	PASS
177	176	5	9	6.8	599	PASS

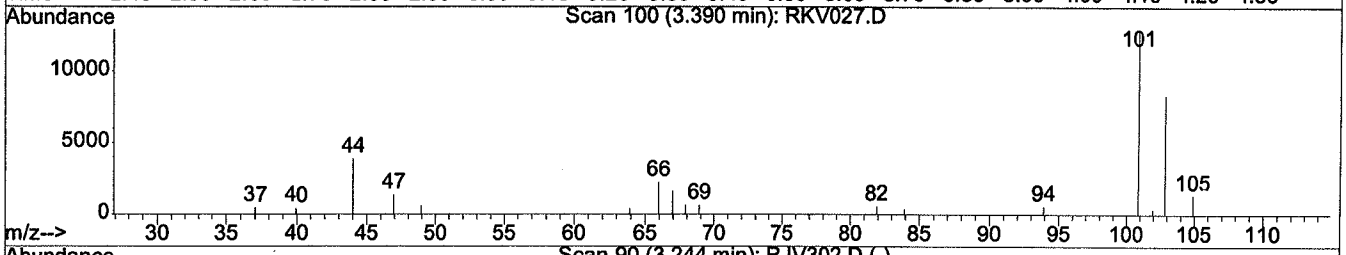
RKV026.D VO01J12.M Tue Nov 05 10:05:44 2024

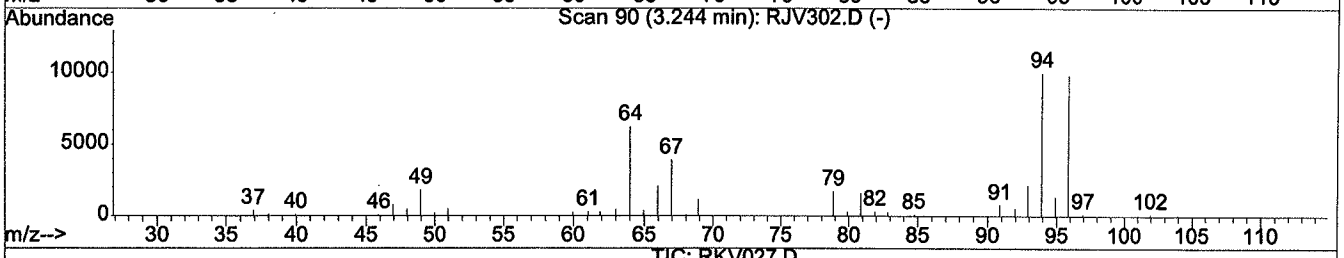
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLi
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 10:05 2024 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:09:22 2024
Response via : Multiple Level Calibration







TIC: RKV027.D

(7) Bromomethane (T,M)

3.39min 0.06ug/l

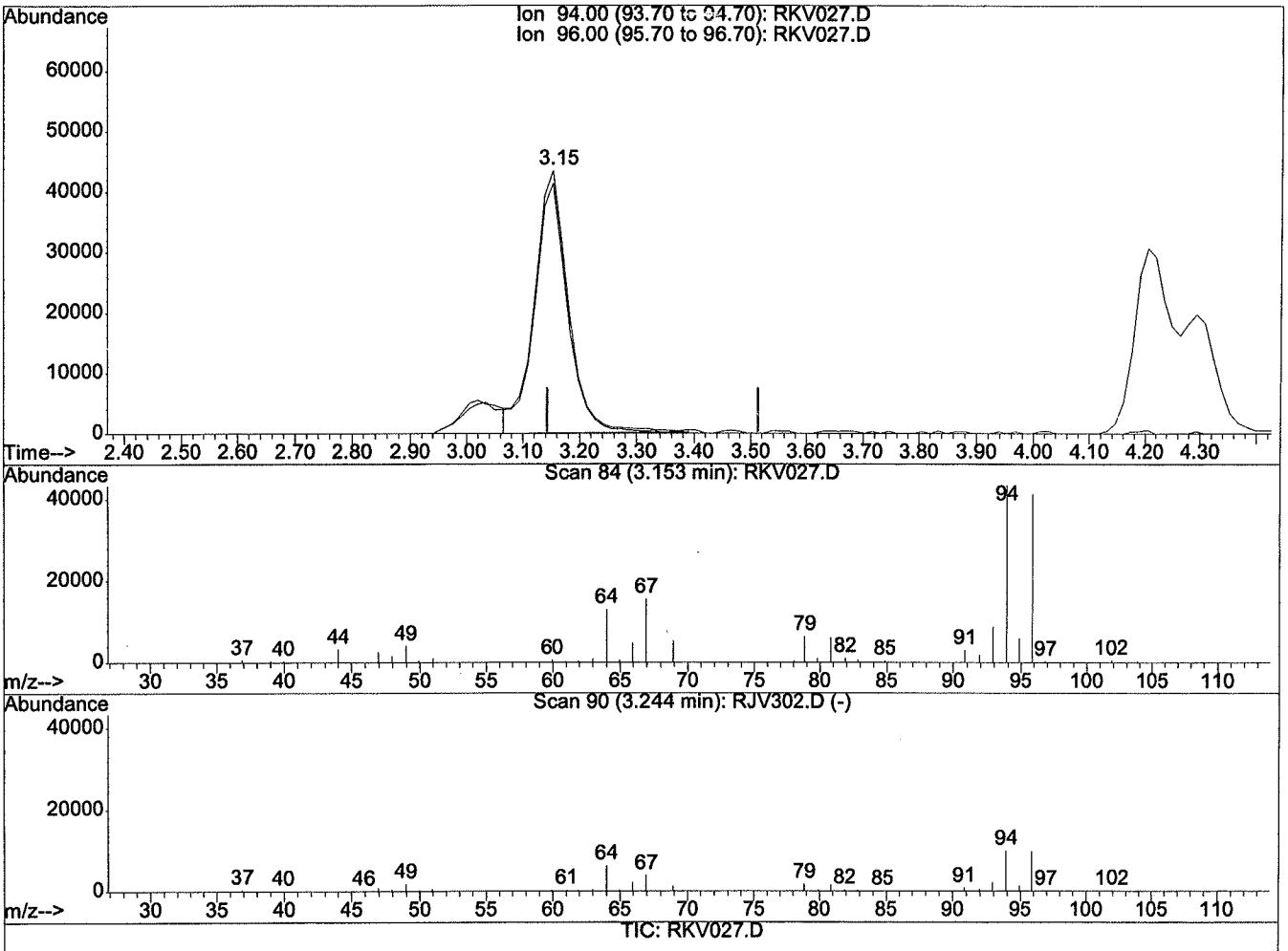
response 913

Ion	Exp%	Act%
94.00	100	100
96.00	98.00	66.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLi
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 10:06 2024 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:09:22 2024
Response via : Multiple Level Calibration



TIC: RKV027.D

(7) Bromomethane (T,M)

3.15min 11.97ug/l m

response 180338

Ion	Exp%	Act%
94.00	100	100
96.00	98.00	0.34#
0.00	0.00	0.00
0.00	0.00	0.00

☐ Incorrect Retention Time
☐ Incorrect Baseline
☑ Incorrect Integration
☐ Other _____

Initials cc 11/5/24

cc 11/12

RKV027.D VO01J12.M Tue Nov 05 10:06:06 2024

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.563	-5.6	99	-0.03
43	T,M	1,2-Dichloroethane	10.000	10.754	-7.5	88	-0.02
44	T,M	Trichloroethene	10.000	10.961	-9.6	102	-0.01
45	T,M	Methylcyclohexane	10.000	9.444	5.6	85	-0.01
46	C,T,M	1,2-Dichloropropane	10.000	10.364	-3.6	95	-0.01
47	T,M	Bromodichloromethane	10.000	10.991	-9.9	99	-0.01
48	T,M	1,4-Dioxane	200.000	207.207	-3.6	87	0.02
49	T,M	Dibromomethane	10.000	10.675	-6.8	92	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	12.246	-22.5#	123	-0.01
51	T,M	4-Methyl-2-pentanone	50.000	51.796	-3.6	79	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	10.863	-8.6	95	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	86	0.00
54	S	Toluene-d8	10.000	10.283	-2.8	91	-0.01
55	C,T,M	Toluene	10.000	10.728	-7.3	97	-0.01
56	T,M	Ethyl methacrylate	10.000	11.383	-13.8	88	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	11.618	-16.2	94	0.00
58	T,M	1,1,2-Trichloroethane	10.000	11.625	-16.3	96	0.00
59	T,M	2-Hexanone	50.000	52.575	-5.2	79	0.00
60	T,M	1,3-Dichloropropane	10.000	11.221	-12.2	95	0.00
61	T,M	Tetrachloroethene	10.000	10.937	-9.4	103	0.00
62	T,M	Dibromochloromethane	10.000	11.793	-17.9	99	0.00
63	T,M	1,2-Dibromoethane	10.000	11.069	-10.7	91	-0.01
64	T,M	1-Chlorohexane	10.000	9.723	2.8	90	0.00
65	P,M	Chlorobenzene	10.000	10.913	-9.1	100	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	10.000	12.438	-24.4#	111	0.00
67	C,T,M	Ethylbenzene	10.000	10.672	-6.7	96	0.00
68	T,M	m-Xylene & p-Xylene	20.000	19.961	0.2	97	0.00
69	T,M	o-Xylene	10.000	13.617	-36.2#	110	-0.01
70	T,M	Styrene	10.000	14.470	-44.7#	114	0.00
71	T,M	Isopropylbenzene	10.000	13.374	-33.7#	110	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	105	0.00
73	P,T,M	Bromoform	10.000	10.603	-6.0	119	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	9.004	10.0	87	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	11.073	-10.7	106	-0.01
76	S	4-Bromofluorobenzene	10.000	9.676	3.2	103	0.00
77	T,M	1,2,3-Trichloropropane	10.000	10.762	-7.6	105	0.00
78	T,M	n-Propylbenzene	10.000	9.848	1.5	109	0.00
79	T,M	Bromobenzene	10.000	11.432	-14.3	127	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	9.668	3.3	108	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Respons via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	9.717	2.8	109	0.00
82	T,M	4-Chlorotoluene	10.000	9.708	2.9	109	0.00
83	T,M	tert-Butylbenzene	10.000	10.789	-7.9	118	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	9.762	2.4	108	0.00
85	T,M	sec-Butylbenzene	10.000	9.662	3.4	104	0.00
86	T,M	p-Isopropyltoluene	10.000	9.797	2.0	109	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.061	-10.6	123	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	9.836	1.6	108	0.00
89	T,M	1,4-Dichlorobenzene	10.000	10.764	-7.6	124	0.00
90	T,M	n-Butylbenzene	10.000	8.849	11.5	103	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.002	-10.0	122	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	11.131	-11.3	110	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.850	-8.5	120	0.00
94	T,M	Hexachlorobutadiene	10.000	11.023	-10.2	125	0.02
95	T,M	Naphthalene	10.000	10.464	-4.6	105	0.02
96	T,M	1,2,3-Trichlorobenzene	10.000	11.183	-11.8	118	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	87	-0.01
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.353	14.1	67	-0.08
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.264	14.8	67	-0.10
6	C,T,M	Vinyl chloride	0.273	0.271	0.7	80	-0.08
7	T,M	Bromomethane	0.197	0.236	-19.8	109	-0.09
8	T,M	Chloroethane	0.207	0.209	-1.0	84	-0.03
9	T,M	Dichlorofluoromethane	0.380	0.436	-14.7	123	-0.08
10	T,M	Trichlorofluoromethane	0.445	0.477	-7.2	87	-0.09
11	T,M	Acrolein	0.008	0.010	-25.0#	107	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.233	-27.3#	115	-0.06
13	T,M	Acetone	0.037	0.041	-10.8	95	-0.05
14	C,T,M	1,1-Dichloroethene	0.467	0.456	2.4	90	-0.05
15	T,M	tert-Butyl alcohol	0.009	0.010	-11.1	89	-0.05
16	T,M	Iodomethane	0.396	0.467	-17.9	109	-0.05
17	T,M	Methyl acetate	0.095	0.095	0.0	84	-0.03
18	T,M	Methylene chloride	0.336	0.343	-2.1	96	-0.05
19	T,M	Carbon disulfide	0.976	1.019	-4.4	87	-0.05
20	T,M	Acrylonitrile	0.035	0.040	-14.3	95	-0.03
21	T,M	tert-Butyl methyl ether (MT	0.462	0.520	-12.6	95	-0.05
22	T,M	trans-1,2-Dichloroethene	0.448	0.443	1.1	92	-0.05
23	T,M	Isopropyl ether (DIPE)	0.938	0.902	3.8	89	-0.05
24	T,M	Vinyl acetate	0.300	0.294	2.0	73	-0.03
25	P,T,M	1,1-Dichloroethane	0.525	0.553	-5.3	98	-0.03
26	T,M	2-Butanol	0.008	0.009	-12.5	99	-0.05
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.705	-3.4	92	-0.03
28	T,M	2-Butanone	0.057	0.057	0.0	83	-0.03
29	T,M	2,2-Dichloropropane	0.449	0.512	-14.0	104	-0.03
30	T,M	cis-1,2-Dichloroethene	0.322	0.347	-7.8	99	-0.03
31	C,T,M	Chloroform	0.535	0.574	-7.3	102	-0.03
32	T,M	Bromochloromethane	0.199	0.193	3.0	86	-0.02
33	T,M	Tetrahydrofuran	0.031	0.031	0.0	89	-0.03
34	S	Dibromofluoromethane	0.261	0.281	-7.7	95	-0.02
35	T,M	1,1,1-Trichloroethane	0.481	0.512	-6.4	96	-0.02
36	T,M	Cyclohexane	0.496	0.478	3.6	83	-0.03
37	T,M	2,2,4-Trimethylpentane	0.024	0.022	8.3	81	-0.03
38	T,M	1,1-Dichloropropene	0.146	0.149	-2.1	93	-0.02
39	T,M	Carbon tetrachloride	0.364	0.403	-10.7	99	-0.03
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.555	-5.9	95	-0.03
41	S	1,2-Dichloroethane-d4	0.230	0.226	1.7	83	-0.02

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.210	-5.7	99	-0.03
43	T,M	1,2-Dichloroethane	0.255	0.274	-7.5	88	-0.02
44	T,M	Trichloroethene	0.303	0.332	-9.6	102	-0.01
45	T,M	Methylcyclohexane	0.587	0.554	5.6	85	-0.01
46	C,T,M	1,2-Dichloropropane	0.258	0.267	-3.5	95	-0.01
47	T,M	Bromodichloromethane	0.353	0.388	-9.9	99	-0.01
48	T,M	1,4-Dioxane	0.001	0.001	0.0	87	0.02
49	T,M	Dibromomethane	0.112	0.119	-6.2	92	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.024	-50.0#	123	-0.01
51	T,M	4-Methyl-2-pentanone	0.127	0.131	-3.1	79	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.420	-8.8	95	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	86	0.00
54	S	Toluene-d8	1.375	1.414	-2.8	91	-0.01
55	C,T,M	Toluene	1.585	1.700	-7.3	97	-0.01
56	T,M	Ethyl methacrylate	0.227	0.258	-13.7	88	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.417	-16.2	94	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.227	-16.4	96	0.00
59	T,M	2-Hexanone	0.104	0.109	-4.8	79	0.00
60	T,M	1,3-Dichloropropane	0.368	0.412	-12.0	95	0.00
61	T,M	Tetrachloroethene	0.343	0.375	-9.3	103	0.00
62	T,M	Dibromochloromethane	0.232	0.274	-18.1	99	0.00
63	T,M	1,2-Dibromoethane	0.185	0.205	-10.8	91	-0.01
64	T,M	1-Chlorohexane	0.740	0.720	2.7	90	0.00
65	P,M	Chlorobenzene	0.949	1.035	-9.1	100	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.360	-24.1#	111	0.00
67	C,T,M	Ethylbenzene	1.875	2.001	-6.7	96	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.478	0.2	97	0.00
69	T,M	o-Xylene	1.463	1.992	-36.2#	110	-0.01
70	T,M	Styrene	1.070	1.548	-44.7#	114	0.00
71	T,M	Isopropylbenzene	1.986	2.656	-33.7#	110	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	105	0.00
73	P,T,M	Bromoform	0.246	0.305	-24.0#	119	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.139	9.7	87	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.584	-10.6	106	-0.01
76	S	4-Bromofluorobenzene	1.184	1.146	3.2	103	0.00
77	T,M	1,2,3-Trichloropropane	0.148	0.159	-7.4	105	0.00
78	T,M	n-Propylbenzene	5.921	5.831	1.5	109	0.00
79	T,M	Bromobenzene	0.858	0.981	-14.3	127	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.541	3.3	108	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.496	2.8	109	0.00
82	T,M	4-Chlorotoluene	3.211	3.117	2.9	109	0.00
83	T,M	tert-Butylbenzene	0.826	0.891	-7.9	118	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.497	2.4	108	0.00
85	T,M	sec-Butylbenzene	5.158	4.984	3.4	104	0.00
86	T,M	p-Isopropyltoluene	4.024	3.943	2.0	109	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.907	-10.6	123	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.208	1.6	108	0.00
89	T,M	1,4-Dichlorobenzene	1.713	1.844	-7.6	124	0.00
90	T,M	n-Butylbenzene	4.403	3.896	11.5	103	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.547	-10.0	122	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.078	-9.9	110	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	1.033	-8.5	120	0.00
94	T,M	Hexachlorobutadiene	0.610	0.673	-10.3	125	0.02
95	T,M	Naphthalene	1.172	1.226	-4.6	105	0.02
96	T,M	1,2,3-Trichlorobenzene	0.690	0.772	-11.9	118	0.00

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 10:06 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.53	114	764276	10.00	ug/l	-0.01
53) CHLOROBENZENE-D5	13.70	117	592084	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	332956	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.21	111	214764	10.76	ug/l	-0.02
Spiked Amount 10.000			Recovery = 107.60%			
41) 1,2-Dichloroethane-d4	7.95	65	172568	9.81	ug/l	-0.02
Spiked Amount 10.000			Recovery = 98.10%			
54) Toluene-d8	11.00	98	837261	10.28	ug/l	-0.01
Spiked Amount 10.000			Recovery = 102.80%			
76) 4-Bromofluorobenzene	15.98	95	381454	9.68	ug/l	0.00
Spiked Amount 10.000			Recovery = 96.80%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.17	85	269676	8.59	ug/l	100
5) Chloromethane	2.47	50	201565	8.51	ug/l	99
6) Vinyl chloride	2.61	62	207175	9.92	ug/l	99
7) Bromomethane	3.15	94	180338m	11.97	ug/l	
8) Chloroethane	3.21	64	159669	10.08	ug/l	94
9) Dichlorofluoromethane	3.29	67	333544	11.50	ug/l	99
10) Trichlorofluoromethane	3.54	101	364808	10.73	ug/l	96
11) Acrolein	3.98	56	36833	63.04	ug/l	87
12) 1,1,2-Trichloro-1,2,2-trif	4.09	151	177880	12.71	ug/l	99
13) Acetone	4.04	43	157839	55.93	ug/l	94
14) 1,1-Dichloroethene	4.20	61	348323	9.77	ug/l	81
15) tert-Butyl alcohol	4.32	59	189628	268.57	ug/l	99
16) Iodomethane	4.62	142	356997	11.78	ug/l	93
17) Methyl acetate	4.65	43	72730	9.99	ug/l	92
18) Methylene chloride	4.84	49	262217	10.20	ug/l	91
19) Carbon disulfide	4.86	76	778463	10.44	ug/l	100
20) Acrylonitrile	5.02	53	152876	57.67	ug/l	98
21) tert-Butyl methyl ether (M	5.03	73	397535	11.26	ug/l	94
22) trans-1,2-Dichloroethene	5.23	61	338690	9.89	ug/l	94
23) Isopropyl ether (DIPE)	5.64	45	689600	9.62	ug/l	92
24) Vinyl acetate	5.82	43	224345	9.78	ug/l	93
25) 1,1-Dichloroethane	5.80	63	422328	10.52	ug/l	99
26) 2-Butanol	6.13	45	181503	306.78	ug/l	91
27) tert-Butyl ethyl ether (ET	6.22	59	538554	10.33	ug/l	94
28) 2-Butanone	6.40	43	217451	50.25	ug/l	92
29) 2,2-Dichloropropane	6.60	77	391637	11.40	ug/l	99
30) cis-1,2-Dichloroethene	6.66	96	264839	10.77	ug/l	94

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 10:06 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Chloroform	6.88	83	438362	10.71 ug/l		97
32)	Bromochloromethane	7.14	49	147865	9.72 ug/l		82
33)	Tetrahydrofuran	7.18	42	23946	9.96 ug/l		95
35)	1,1,1-Trichloroethane	7.48	97	391377	10.65 ug/l		98
36)	Cyclohexane	7.49	84	365635	9.64 ug/l		99
37)	2,2,4-Trimethylpentane	7.49	57	16883	9.20 ug/l	#	100
38)	1,1-Dichloropropene	7.70	110	114135	10.26 ug/l		99
39)	Carbon tetrachloride	7.85	119	308273	11.08 ug/l		98
40)	tert-Amyl methyl ether (TA	7.86	73	423995	10.58 ug/l		99
42)	Benzene	8.10	78	924398	10.56 ug/l		97
43)	1,2-Dichloroethane	8.08	62	209760	10.75 ug/l		98
44)	Trichloroethene	9.05	130	253690	10.96 ug/l		94
45)	Methylcyclohexane	9.14	83	423581	9.44 ug/l		94
46)	1,2-Dichloropropane	9.33	63	204116	10.36 ug/l		98
47)	Bromodichloromethane	9.70	83	296228	10.99 ug/l		99
48)	1,4-Dioxane	9.77	88	15600	207.21 ug/l		93
49)	Dibromomethane	9.80	93	91314	10.67 ug/l		93
50)	2-Chloroethyl vinyl ether	10.20	63	18428	12.25 ug/l		91
51)	4-Methyl-2-pentanone	10.25	43	501210	51.80 ug/l		95
52)	cis-1,3-Dichloropropene	10.60	75	320756	10.86 ug/l		97
55)	Toluene	11.14	91	1006632	10.73 ug/l		99
56)	Ethyl methacrylate	11.43	69	152994	11.38 ug/l		89
57)	trans-1,3-Dichloropropene	11.46	75	246910	11.62 ug/l		98
58)	1,1,2-Trichloroethane	11.73	97	134282	11.62 ug/l		99
59)	2-Hexanone	11.74	43	322812	52.57 ug/l		92
60)	1,3-Dichloropropane	12.17	76	244169	11.22 ug/l		99
61)	Tetrachloroethene	12.28	164	221792	10.94 ug/l		96
62)	Dibromochloromethane	12.65	129	162291	11.79 ug/l		96
63)	1,2-Dibromoethane	13.00	107	121171	11.07 ug/l		98
64)	1-Chlorohexane	13.28	91	426263	9.72 ug/l		100
65)	Chlorobenzene	13.76	112	613099	10.91 ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	213365	12.44 ug/l		98
67)	Ethylbenzene	13.86	91	1184940	10.67 ug/l		99
68)	m-Xylene & p-Xylene	13.99	91	1750438	19.96 ug/l		100
69)	o-Xylene	14.81	91	1179394	13.62 ug/l		99
70)	Styrene	14.88	104	916643	14.47 ug/l		98
71)	Isopropylbenzene	15.51	105	1572454	13.37 ug/l		98
73)	Bromoform	15.53	173	101529	10.60 ug/l		100
74)	trans-1,4-Dichloro-2-buten	15.61	53	46125	9.00 ug/l		86
75)	1,1,2,2-Tetrachloroethane	15.83	83	194604	11.07 ug/l		100
77)	1,2,3-Trichloropropane	16.13	110	53094	10.76 ug/l		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 10:06 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

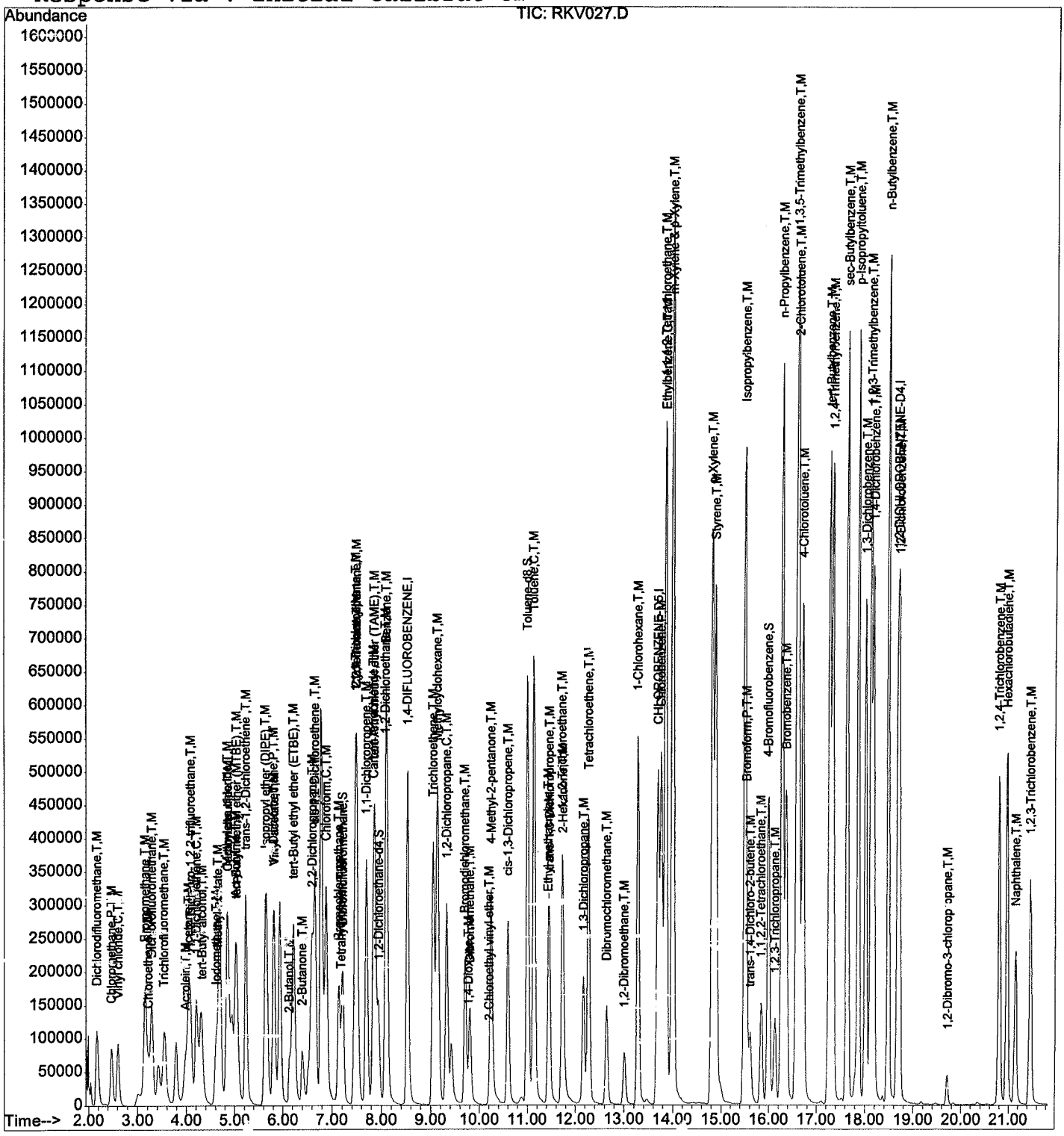
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78)	n-Propylbenzene	16.28	91	1941506	9.85 ug/l	97
79)	Bromobenzene	16.36	156	326480	11.43 ug/l	100
80)	1,3,5-Trimethylbenzene	16.59	105	1179114	9.67 ug/l	97
81)	2-Chlorotoluene	16.62	91	1164159	9.72 ug/l	95
82)	4-Chlorotoluene	16.70	91	1037898	9.71 ug/l	93
83)	tert-Butylbenzene	17.27	134	296606	10.79 ug/l	92
84)	1,2,4-Trimethylbenzene	17.34	105	1164492	9.76 ug/l	97
85)	sec-Butylbenzene	17.64	105	1659538	9.66 ug/l	97
86)	p-Isopropyltoluene	17.86	119	1312697	9.80 ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	634940	11.06 ug/l	97
88)	1,2,3-Trimethylbenzene	18.11	105	1068096	9.84 ug/l	97
89)	1,4-Dichlorobenzene	18.17	146	614041	10.76 ug/l	97
90)	n-Butylbenzene	18.48	91	1297322	8.85 ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	515151	11.00 ug/l	100
92)	1,2-Dibromo-3-chloropropan	19.71	157	26137	11.13 ug/l	95
93)	1,2,4-Trichlorobenzene	20.79	180	343911	10.85 ug/l	99
94)	Hexachlorobutadiene	20.97	225	223972	11.02 ug/l	98
95)	Naphthalene	21.15	128	408325	10.46 ug/l	98
96)	1,2,3-Trichlorobenzene	21.46	180	256934	11.18 ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLing
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 10:06 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D
Acq On : 5 Nov 2024 4:33 am
Sample : EV001J1220
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 25
Operator: DNguye/CLingl
Inst : 01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	73	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	8.491	15.1	56	-0.06
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	8.769	12.3	58	-0.07
6	C,T,M	Vinyl chloride	10.000	9.402	6.0	63	-0.07
7	T,M	Bromomethane	10.000	0.065	99.4#	0	0.16#
8	T,M	Chloroethane	10.000	10.045	-0.4	70	-0.04
9	T,M	Dichlorofluoromethane	10.000	11.561	-15.6	103	-0.06
10	T,M	Trichlorofluoromethane	10.000	11.204	-12.0	76	-0.06
11	T,M	Acrolein	50.000	49.633	0.7	70	-0.02
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	12.182	-21.8#	92	-0.06
13	T,M	Acetone	50.000	53.465	-6.9	76	-0.02
14	C,T,M	1,1-Dichloroethene	10.000	10.106	-1.1	78	-0.03
15	T,M	tert-Butyl alcohol	250.000	251.327	-0.5	69	-0.03
16	T,M	Iodomethane	10.000	11.945	-19.5	93	-0.03
17	T,M	Methyl acetate	10.000	9.907	0.9	70	-0.02
18	T,M	Methylene chloride	10.000	10.529	-5.3	83	-0.03
19	T,M	Carbon disulfide	10.000	9.544	4.6	67	-0.03
20	T,M	Acrylonitrile	50.000	57.011	-14.0	78	-0.02
21	T,M	tert-Butyl methyl ether (MT	10.000	11.634	-16.3	82	-0.03
22	T,M	trans-1,2-Dichloroethene	10.000	10.302	-3.0	80	-0.03
23	T,M	Isopropyl ether (DIPE)	10.000	9.675	3.2	75	-0.03
24	T,M	Vinyl acetate	10.000	5.938	40.6#	37	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.867	-8.7	84	0.00
26	T,M	2-Butanol	250.000	287.602	-15.0	78	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.429	-4.3	78	-0.02
28	T,M	2-Butanone	50.000	49.563	0.9	69	-0.02
29	T,M	2,2-Dichloropropane	10.000	10.274	-2.7	79	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	11.168	-11.7	86	-0.02
31	C,T,M	Chloroform	10.000	12.050	-20.5#	96	-0.02
32	T,M	Bromochloromethane	10.000	10.210	-2.1	75	-0.02
33	T,M	Tetrahydrofuran	10.000	10.423	-4.2	78	-0.02
34	S	Dibromofluoromethane	10.000	11.039	-10.4	82	0.00
35	T,M	1,1,1-Trichloroethane	10.000	11.480	-14.8	87	0.00
36	T,M	Cyclohexane	10.000	8.729	12.7	63	-0.02
37	T,M	2,2,4-Trimethylpentane	10.000	7.451	25.5#	55	-0.02
38	T,M	1,1-Dichloropropene	10.000	10.492	-4.9	80	0.00
39	T,M	Carbon tetrachloride	10.000	11.812	-18.1	88	-0.02
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.569	-5.7	80	-0.02
41	S	1,2-Dichloroethane-d4	10.000	11.339	-13.4	80	-0.02

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.863	-8.6	85	-0.02
43	T,M	1,2-Dichloroethane	10.000	12.282	-22.8#	84	0.00
44	T,M	Trichloroethene	10.000	11.243	-12.4	88	0.00
45	T,M	Methylcyclohexane	10.000	8.754	12.5	66	0.00
46	C,T,M	1,2-Dichloropropane	10.000	10.462	-4.6	81	-0.01
47	T,M	Bromodichloromethane	10.000	12.037	-20.4#	90	0.00
48	T,M	1,4-Dioxane	200.000	183.308	8.3	64	0.00
49	T,M	Dibromomethane	10.000	11.456	-14.6	83	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	12.058	-20.6#	101	0.00
51	T,M	4-Methyl-2-pentanone	50.000	53.343	-6.7	68	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	11.297	-13.0	83	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	72	0.00
54	S	Toluene-d8	10.000	10.561	-5.6	78	-0.01
55	C,T,M	Toluene	10.000	11.047	-10.5	84	0.00
56	T,M	Ethyl methacrylate	10.000	11.469	-14.7	74	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	12.184	-21.8#	82	0.00
58	T,M	1,1,2-Trichloroethane	10.000	12.085	-20.9#	84	0.00
59	T,M	2-Hexanone	50.000	52.361	-4.7	66	0.00
60	T,M	1,3-Dichloropropane	10.000	11.811	-18.1	84	0.00
61	T,M	Tetrachloroethene	10.000	11.084	-10.8	87	0.00
62	T,M	Dibromochloromethane	10.000	12.973	-29.7#	91	0.00
63	T,M	1,2-Dibromoethane	10.000	11.160	-11.6	77	0.00
64	T,M	1-Chlorohexane	10.000	9.186	8.1	71	0.00
65	P,M	Chlorobenzene	10.000	11.266	-12.7	86	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	10.000	13.226	-32.3#	99	0.00
67	C,T,M	Ethylbenzene	10.000	11.176	-11.8	84	0.00
68	T,M	m-Xylene & p-Xylene	20.000	20.511	-2.6	83	0.00
69	T,M	o-Xylene	10.000	16.274	-62.7#	110	0.00
70	T,M	Styrene	10.000	17.177	-71.8#	113	0.00
71	T,M	Isopropylbenzene	10.000	15.846	-58.5#	109	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	103	0.00
73	P,T,M	Bromoform	10.000	10.314	-3.1	113	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	8.536	14.6	81	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	11.113	-11.1	104	0.00
76	S	4-Bromofluorobenzene	10.000	9.427	5.7	98	0.02
77	T,M	1,2,3-Trichloropropane	10.000	10.431	-4.3	99	0.00
78	T,M	n-Propylbenzene	10.000	9.733	2.7	105	0.00
79	T,M	Bromobenzene	10.000	11.585	-15.9	126	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	10.028	-0.3	109	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	9.839	1.6	108	0.00
82	T,M	4-Chlorotoluene	10.000	10.049	-0.5	111	0.00
83	T,M	tert-Butylbenzene	10.000	10.863	-8.6	116	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	9.892	1.1	107	0.00
85	T,M	sec-Butylbenzene	10.000	9.655	3.5	102	0.00
86	T,M	p-Isopropyltoluene	10.000	9.720	2.8	105	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.103	-11.0	120	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.099	-1.0	108	0.00
89	T,M	1,4-Dichlorobenzene	10.000	10.697	-7.0	120	0.00
90	T,M	n-Butylbenzene	10.000	8.652	13.5	98	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.120	-11.2	120	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	10.530	-5.3	101	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.261	-2.6	111	0.00
94	T,M	Hexachlorobutadiene	10.000	10.308	-3.1	114	0.02
95	T,M	Naphthalene	10.000	9.893	1.1	97	0.00
96	T,M	1,2,3-Trichlorobenzene	10.000	10.813	-8.1	112	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	73	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.349	15.1	56	-0.06
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.272	12.3	58	-0.07
6	C,T,M	Vinyl chloride	0.273	0.257	5.9	63	-0.07
7	T,M	Bromomethane	0.197	0.001	99.5#	0#	0.16#
8	T,M	Chloroethane	0.207	0.208	-0.5	70	-0.04
9	T,M	Dichlorofluoromethane	0.380	0.439	-15.5	103	-0.06
10	T,M	Trichlorofluoromethane	0.445	0.498	-11.9	76	-0.06
11	T,M	Acrolein	0.008	0.008	0.0	70	-0.02
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.223	-21.9#	92	-0.06
13	T,M	Acetone	0.037	0.039	-5.4	76	-0.02
14	C,T,M	1,1-Dichloroethene	0.467	0.471	-0.9	78	-0.03
15	T,M	tert-Butyl alcohol	0.009	0.009	0.0	69	-0.03
16	T,M	Iodomethane	0.396	0.473	-19.4	93	-0.03
17	T,M	Methyl acetate	0.095	0.094	1.1	70	-0.02
18	T,M	Methylene chloride	0.336	0.354	-5.4	83	-0.03
19	T,M	Carbon disulfide	0.976	0.931	4.6	67	-0.03
20	T,M	Acrylonitrile	0.035	0.040	-14.3	78	-0.02
21	T,M	tert-Butyl methyl ether (MT	0.462	0.537	-16.2	82	-0.03
22	T,M	trans-1,2-Dichloroethene	0.448	0.462	-3.1	80	-0.03
23	T,M	Isopropyl ether (DIPE)	0.938	0.908	3.2	75	-0.03
24	T,M	Vinyl acetate	0.300	0.178	40.7#	37#	-0.02
25	P,T,M	1,1-Dichloroethane	0.525	0.571	-8.8	84	0.00
26	T,M	2-Butanol	0.008	0.009	-12.5	78	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.711	-4.3	78	-0.02
28	T,M	2-Butanone	0.057	0.056	1.8	69	-0.02
29	T,M	2,2-Dichloropropane	0.449	0.462	-2.9	79	-0.02
30	T,M	cis-1,2-Dichloroethene	0.322	0.359	-11.5	86	-0.02
31	C,T,M	Chloroform	0.635	0.645	-20.6#	96	-0.02
32	T,M	Bromochloromethane	0.199	0.203	-2.0	75	-0.02
33	T,M	Tetrahydrofuran	0.031	0.033	-6.5	78	-0.02
34	S	Dibromofluoromethane	0.261	0.288	-10.3	82	0.00
35	T,M	1,1,1-Trichloroethane	0.481	0.552	-14.8	87	0.00
36	T,M	Cyclohexane	0.496	0.433	12.7	63	-0.02
37	T,M	2,2,4-Trimethylpentane	0.024	0.018	25.0#	55	0.02
38	T,M	1,1-Dichloropropene	0.146	0.153	-4.8	80	0.00
39	T,M	Carbon tetrachloride	0.564	0.430	-18.1	88	-0.02
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.554	-5.7	80	-0.02
41	S	1,2-Dichloroethane-d4	0.230	0.261	-13.5	80	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.244	-8.6	85	-0.02
43	T,M	1,2-Dichloroethane	0.255	0.313	-22.7#	84	0.00
44	T,M	Trichloroethene	0.303	0.340	-12.2	88	0.00
45	T,M	Methylcyclohexane	0.587	0.514	12.4	66	0.00
46	C,T,M	1,2-Dichloropropane	0.258	0.270	-4.7	81	-0.01
47	T,M	Bromodichloromethane	0.353	0.424	-20.1#	90	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	64	0.00
49	T,M	Dibromomethane	0.112	0.128	-14.3	83	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.024	-50.0#	101	0.00
51	T,M	4-Methyl-2-pentanone	0.127	0.135	-6.3	68	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.436	-13.0	83	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	72	0.00
54	S	Toluene-d8	1.375	1.452	-5.6	78	-0.01
55	C,T,M	Toluene	1.585	1.751	-10.5	84	0.00
56	T,M	Ethyl methacrylate	0.227	0.260	-14.5	74	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.437	-21.7#	82	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.236	-21.0#	84	0.00
59	T,M	2-Hexanone	0.104	0.109	-4.8	66	0.00
60	T,M	1,3-Dichloropropane	0.368	0.434	-17.9	84	0.00
61	T,M	Tetrachloroethene	0.343	0.380	-10.8	87	0.00
62	T,M	Dibromochloromethane	0.232	0.302	-30.2#	91	0.00
63	T,M	1,2-Dibromoethane	0.185	0.206	-11.4	77	0.00
64	T,M	1-Chlorohexane	0.740	0.680	8.1	71	0.00
65	P,M	Chlorobenzene	0.949	1.069	-12.6	86	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.383	-32.1#	99	0.00
67	C,T,M	Ethylbenzene	1.875	2.096	-11.8	84	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.519	-2.6	83	0.00
69	T,M	o-Xylene	1.463	2.381	-62.7#	110	0.00
70	T,M	Styrene	1.070	1.838	-71.8#	113	0.00
71	T,M	Isopropylbenzene	1.986	3.147	-58.5#	109	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	103	0.00
73	P,T,M	Bromoform	0.246	0.296	-20.3#	113	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.131	14.9	81	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.587	-11.2	104	0.00
76	S	4-Bromofluorobenzene	1.184	1.116	5.7	98	0.02
77	T,M	1,2,3-Trichloropropane	0.148	0.155	-4.7	99	0.00
78	T,M	n-Propylbenzene	5.921	5.763	2.7	105	0.00
79	T,M	Bromobenzene	0.858	0.994	-15.9	126	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.673	-0.3	109	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.540	1.6	108	0.00
82	T,M	4-Chlorotoluene	3.211	3.227	-0.5	111	0.00
83	T,M	tert-Butylbenzene	0.826	0.897	-8.6	116	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.544	1.1	107	0.00
85	T,M	sec-Butylbenzene	5.158	4.980	3.5	102	0.00
86	T,M	p-Isopropyltoluene	4.024	3.912	2.8	105	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.914	-11.0	120	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.294	-1.0	103	0.00
89	T,M	1,4-Dichlorobenzene	1.713	1.833	-7.0	120	0.00
90	T,M	n-Butylbenzene	4.403	3.809	13.5	99	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.564	-11.2	120	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.074	-4.2	101	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	0.977	-2.6	111	0.00
94	T,M	Hexachlorobutadiene	0.610	0.629	-3.1	114	0.02
95	T,M	Naphthalene	1.172	1.159	1.1	97	0.00
96	T,M	1,2,3-Trichlorobenzene	0.690	0.746	-8.1	112	0.00

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 4:55 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.55	114	639576	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	494080	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	325146	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	184429	11.04	ug/l	0.00
Spiked Amount 10.000			Recovery = 110.40%			
41) 1,2-Dichloroethane-d4	7.95	65	166861	11.34	ug/l	-0.02
Spiked Amount 10.000			Recovery = 113.40%			
54) Toluene-d8	11.00	98	717564	10.56	ug/l	-0.01
Spiked Amount 10.000			Recovery = 105.60%			
76) 4-Bromofluorobenzene	15.99	95	362903	9.43	ug/l	0.02
Spiked Amount 10.000			Recovery = 94.30%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.20	85	223045	8.49	ug/l	99
5) Chloromethane	2.50	50	173854	8.77	ug/l	100
6) Vinyl chloride	2.63	62	164390	9.40	ug/l	98
8) Chloroethane	3.20	64	133125	10.04	ug/l	98
9) Dichlorofluoromethane	3.30	67	280689	11.56	ug/l	99
10) Trichlorofluoromethane	3.57	101	318699	11.20	ug/l	97
11) Acrolein	4.00	56	24269	49.63	ug/l	81
12) 1,1,2-Trichloro-1,2,2-trif	4.09	151	142667	12.18	ug/l	100
13) Acetone	4.07	43	126269	53.47	ug/l	95
14) 1,1-Dichloroethene	4.22	61	301547	10.11	ug/l	98
15) tert-Butyl alcohol	4.34	59	148501	251.33	ug/l	96
16) Iodomethane	4.63	142	302801	11.94	ug/l	98
17) Methyl acetate	4.66	43	60349	9.91	ug/l	92
18) Methylene chloride	4.86	49	226472	10.53	ug/l	92
19) Carbon disulfide	4.87	76	595653	9.54	ug/l	100
20) Acrylonitrile	5.03	53	126478	57.01	ug/l	97
21) tert-Butyl methyl ether (M	5.05	73	343772	11.63	ug/l	98
22) trans-1,2-Dichloroethene	5.24	61	295224	10.30	ug/l	98
23) Isopropyl ether (DIPE)	5.66	45	580574	9.66	ug/l	93
24) Vinyl acetate	5.83	43	114025	5.94	ug/l	93
25) 1,1-Dichloroethane	5.83	63	365201	10.87	ug/l	99
26) 2-Butanol	6.14	45	142394	287.60	ug/l	98
27) tert-Butyl ethyl ether (ET	6.23	59	454934	10.43	ug/l	95
28) 2-Butanone	6.41	43	179494	49.56	ug/l	91
29) 2,2-Dichloropropane	6.62	77	295341	10.27	ug/l	99
30) cis-1,2-Dichloroethene	6.68	96	229858	11.17	ug/l	97
31) Chloroform	6.90	83	412714	12.05	ug/l	96

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 4:55 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
32)	Bromochloromethane	7.14	49	130037	10.21 ug/l		84
33)	Tetrahydrofuran	7.20	42	20977	10.42 ug/l		91
35)	1,1,1-Trichloroethane	7.49	97	353051	11.48 ug/l		99
36)	Cyclohexane	7.51	84	277006	8.73 ug/l		98
37)	2,2,4-Trimethylpentane	7.51	57	11440	7.45 ug/l	#	100
38)	1,1-Dichloropropene	7.71	110	97715	10.49 ug/l		98
39)	Carbon tetrachloride	7.86	119	275064	11.81 ug/l		97
40)	tert-Amyl methyl ether (TA	7.88	73	354391	10.57 ug/l		98
42)	Benzene	8.11	78	795526	10.86 ug/l		98
43)	1,2-Dichloroethane	8.10	62	200489	12.28 ug/l		100
44)	Trichloroethene	9.06	130	217742	11.24 ug/l		95
45)	Methylcyclohexane	9.15	83	328562	8.75 ug/l		95
46)	1,2-Dichloropropane	9.33	63	172426	10.46 ug/l		90
47)	Bromodichloromethane	9.72	83	271489	12.04 ug/l		100
48)	1,4-Dioxane	9.76	88	11549	183.31 ug/l		93
49)	Dibromomethane	9.80	93	82027	11.46 ug/l		95
50)	2-Chloroethyl vinyl ether	10.22	63	15164	12.06 ug/l		92
51)	4-Methyl-2-pentanone	10.25	43	431959	53.34 ug/l		96
52)	cis-1,3-Dichloropropene	10.60	75	279146	11.30 ug/l		98
55)	Toluene	11.15	91	865058	11.05 ug/l		99
56)	Ethyl methacrylate	11.43	69	128638	11.47 ug/l		92
57)	trans-1,3-Dichloropropene	11.46	75	216086	12.18 ug/l		99
58)	1,1,2-Trichloroethane	11.73	97	116493	12.08 ug/l		98
59)	2-Hexanone	11.74	43	268283	52.36 ug/l		95
60)	1,3-Dichloropropane	12.17	76	214472	11.81 ug/l		99
61)	Tetrachloroethene	12.28	164	187579	11.08 ug/l		97
62)	Dibromochloromethane	12.65	129	148984	12.97 ug/l		100
63)	1,2-Dibromoethane	13.02	107	101946	11.16 ug/l		98
64)	1-Chlorohexane	13.28	91	336085	9.19 ug/l		99
65)	Chlorobenzene	13.76	112	528159	11.27 ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	189327	13.23 ug/l		99
67)	Ethylbenzene	13.86	91	1035462	11.18 ug/l		99
68)	m-Xylene & p-Xylene	14.00	91	1500969	20.51 ug/l		98
69)	o-Xylene	14.82	91	1176198	16.27 ug/l		99
70)	Styrene	14.88	104	908016	17.18 ug/l		99
71)	Isopropylbenzene	15.51	105	1554721	15.85 ug/l		99
73)	Bromoform	15.54	173	96389	10.31 ug/l		98
74)	trans-1,4-Dichloro-2-buten	15.61	53	42702	8.54 ug/l		86
75)	1,1,2,2-Tetrachloroethane	15.85	83	190727	11.11 ug/l		97
77)	1,2,3-Trichloropropane	16.13	110	50252	10.43 ug/l		97
78)	n-Propylbenzene	16.28	91	1873840	9.73 ug/l		98

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 4:55 2024 Quant Results File: VO01J12.RES

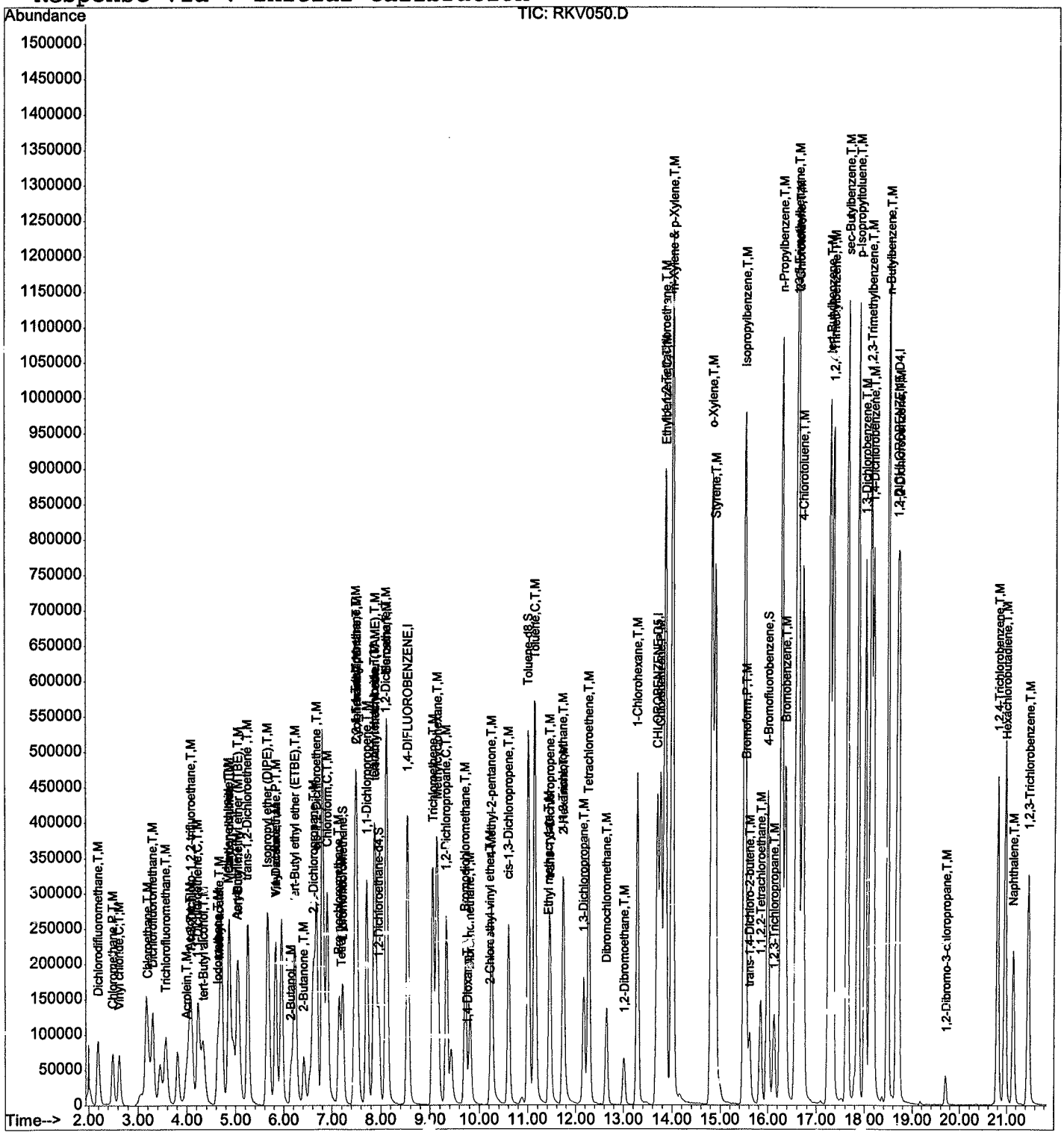
Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79)	Bromobenzene	16.36	156	323073	11.58	ug/l	100
80)	1,3,5-Trimethylbenzene	16.59	105	1194421	10.03	ug/l	98
81)	2-Chlorotoluene	16.62	91	1151117	9.84	ug/l	94
82)	4-Chlorotoluene	16.71	91	1049181	10.05	ug/l	95
83)	tert-Butylbenzene	17.27	134	291637	10.86	ug/l	93
84)	1,2,4-Trimethylbenzene	17.34	105	1152310	9.89	ug/l	97
85)	sec-Butylbenzene	17.64	105	1619323	9.65	ug/l	96
86)	p-Isopropyltoluene	17.86	119	1271849	9.72	ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	622409	11.10	ug/l	97
88)	1,2,3-Trimethylbenzene	18.11	105	1070918	10.10	ug/l	98
89)	1,4-Dichlorobenzene	18.17	146	595890	10.70	ug/l	96
90)	n-Butylbenzene	18.48	91	1238592	8.65	ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	508458	11.12	ug/l	98
92)	1,2-Dibromo-3-chloropropan	19.71	157	24145	10.53	ug/l	99
93)	1,2,4-Trichlorobenzene	20.79	180	317625	10.26	ug/l	98
94)	Hexachlorobutadiene	20.97	225	204528	10.31	ug/l	97
95)	Naphthalene	21.13	128	376997	9.89	ug/l	100
96)	1,2,3-Trichlorobenzene	21.46	180	242619	10.81	ug/l	98

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLing
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 4:55 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	78	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	8.285	17.1	58	-0.07
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	8.872	11.3	63	-0.08
6	C,T,M	Vinyl chloride	10.000	9.339	6.6	67	-0.07
7	T,M	Bromomethane	10.000	0.000	100.0#	0	-3.24#
8	T,M	Chloroethane	10.000	9.971	0.3	75	-0.06
9	T,M	Dichlorofluoromethane	10.000	11.150	-11.5	107	-0.07
10	T,M	Trichlorofluoromethane	10.000	10.151	-1.5	74	-0.06
11	T,M	Acrolein	50.000	50.761	-1.5	77	-0.01
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	11.076	-10.8	90	-0.06
13	T,M	Acetone	50.000	50.910	-1.8	77	-0.01
14	C,T,M	1,1-Dichloroethene	10.000	9.854	1.5	81	-0.03
15	T,M	tert-Butyl alcohol	250.000	232.104	7.2	69	-0.03
16	T,M	Iodomethane	10.000	11.368	-13.7	95	-0.03
17	T,M	Methyl acetate	10.000	9.772	2.3	74	-0.02
18	T,M	Methylene chloride	10.000	10.210	-2.1	86	-0.03
19	T,M	Carbon disulfide	10.000	10.038	-0.4	75	-0.03
20	T,M	Acrylonitrile	50.000	55.800	-11.6	82	-0.02
21	T,M	tert-Butyl methyl ether (MT	10.000	11.000	-10.0	84	-0.03
22	T,M	trans-1,2-Dichloroethene	10.000	10.056	-0.6	84	-0.03
23	T,M	Isopropyl ether (DIPE)	10.000	9.778	2.2	81	-0.02
24	T,M	Vinyl acetate	10.000	5.304	47.0#	36	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.960	-9.6	91	0.00
26	T,M	2-Butanol	250.000	274.446	-9.8	79	-0.01
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.110	-1.1	81	-0.02
28	T,M	2-Butanone	50.000	49.258	1.5	73	0.00
29	T,M	2,2-Dichloropropane	10.000	10.193	-1.9	84	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	10.975	-9.7	91	-0.02
31	C,T,M	Chloroform	10.000	11.573	-15.7	99	-0.02
32	T,M	Bromochloromethane	10.000	9.687	3.1	77	-0.02
33	T,M	Tetrahydrofuran	10.000	9.377	6.2	75	-0.01
34	S	Dibromofluoromethane	10.000	10.700	-7.0	85	0.00
35	T,M	1,1,1-Trichloroethane	10.000	11.216	-12.2	91	0.00
36	T,M	Cyclohexane	10.000	8.790	12.1	68	-0.01
37	T,M	2,2,4-Trimethylpentane	10.000	7.912	20.9#	62	-0.03
38	T,M	1,1-Dichloropropene	10.000	9.997	0.0	82	0.00
39	T,M	Carbon tetrachloride	10.000	11.113	-11.1	89	-0.02
40	T,M	tert-Amyl methyl ether (TAM	10.000	9.987	0.1	81	-0.02
41	S	1,2-Dichloroethane-d4	10.000	10.717	-7.2	81	-0.01

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.757	-7.6	91	-0.02
43	T,M	1,2-Dichloroethane	10.000	11.923	-19.2	88	0.00
44	T,M	Trichloroethene	10.000	11.195	-12.0	94	0.00
45	T,M	Methylcyclohexane	10.000	8.264	17.4	67	0.00
46	C,T,M	1,2-Dichloropropane	10.000	10.513	-5.1	87	0.00
47	T,M	Bromodichloromethane	10.000	11.471	-14.7	92	0.00
48	T,M	1,4-Dioxane	200.000	171.947	14.0	65	0.00
49	T,M	Dibromomethane	10.000	10.954	-9.5	85	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	11.843	-18.4	107	0.00
51	T,M	4-Methyl-2-pentanone	50.000	51.720	-3.4	71	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	10.934	-9.3	86	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	76	0.00
54	S	Toluene-d8	10.000	10.546	-5.5	83	0.00
55	C,T,M	Toluene	10.000	10.963	-9.6	88	0.00
56	T,M	Ethyl methacrylate	10.000	11.731	-17.3	80	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	11.934	-19.3	85	0.00
58	T,M	1,1,2-Trichloroethane	10.000	11.824	-18.2	87	0.00
59	T,M	2-Hexanone	50.000	51.407	-2.8	68	0.00
60	T,M	1,3-Dichloropropane	10.000	11.552	-15.5	87	0.00
61	T,M	Tetrachloroethene	10.000	10.681	-6.8	89	0.00
62	T,M	Dibromochloromethane	10.000	12.471	-24.7#	93	0.00
63	T,M	1,2-Dibromoethane	10.000	11.119	-11.2	81	0.00
64	T,M	1-Chlorohexane	10.000	9.426	5.7	78	0.00
65	P,M	Chlorobenzene	10.000	11.288	-12.9	92	0.00
66	T,M	1,1,1,2-Tetrachloroethane	10.000	12.913	-29.1#	102	0.00
67	C,T,M	Ethylbenzene	10.000	11.180	-11.8	89	0.00
68	T,M	m-Xylene & p-Xylene	20.000	20.855	-4.3	90	0.00
69	T,M	o-Xylene	10.000	13.594	-35.9#	97	0.00
70	T,M	Styrene	10.000	14.048	-40.5#	98	0.00
71	T,M	Isopropylbenzene	10.000	12.975	-29.8#	95	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	103	0.00
73	P,T,M	Bromoform	10.000	8.789	12.1	96	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	7.541	24.6#	72	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	10.967	-9.7	103	0.00
76	S	4-Bromofluorobenzene	10.000	9.784	2.2	102	0.02
77	T,M	1,2,3-Trichloropropane	10.000	10.478	-4.8	100	0.00
78	T,M	n-Propylbenzene	10.000	9.791	2.1	106	0.00
79	T,M	Bromobenzene	10.000	11.545	-15.4	125	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	9.973	0.3	109	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	9.973	0.3	110	0.00
82	T,M	4-Chlorotoluene	10.000	10.164	-1.6	112	0.00
83	T,M	tert-Butylbenzene	10.000	10.959	-9.6	118	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	9.997	0.0	108	0.00
85	T,M	sec-Butylbenzene	10.000	9.990	0.1	106	0.00
86	T,M	p-Isopropyltoluene	10.000	9.865	1.3	107	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.283	-12.8	123	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.001	-0.0	108	0.00
89	T,M	1,4-Dichlorobenzene	10.000	10.593	-5.9	119	0.00
90	T,M	n-Butylbenzene	10.000	8.656	13.4	98	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.273	-12.7	122	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	10.477	-4.8	101	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.427	-4.3	113	0.00
94	T,M	Hexachlorobutadiene	10.000	10.817	-8.2	120	0.00
95	T,M	Naphthalene	10.000	10.403	-4.0	102	0.00
96	T,M	1,2,3-Trichlorobenzene	10.000	11.035	-10.4	114	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	78	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.340	17.3	58	-0.07
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.275	11.3	63	-0.08
6	C,T,M	Vinyl chloride	0.273	0.255	6.6	67	-0.07
7	T,M	Bromomethane	0.197	0.000	100.0#	0#	-3.24#
8	T,M	Chloroethane	0.207	0.207	0.0	75	-0.06
9	T,M	Dichlorofluoromethane	0.380	0.423	-11.3	107	-0.07
10	T,M	Trichlorofluoromethane	0.445	0.452	-1.6	74	-0.06
11	T,M	Acrolein	0.008	0.008	0.0	77	-0.01
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.203	-10.9	90	-0.06
13	T,M	Acetone	0.037	0.038	-2.7	77	-0.01
14	C,T,M	1,1-Dichloroethene	0.467	0.460	1.5	81	-0.03
15	T,M	tert-Butyl alcohol	0.009	0.009	0.0	69	-0.03
16	T,M	Iodomethane	0.396	0.451	-13.9	95	-0.03
17	T,M	Methyl acetate	0.095	0.093	2.1	74	-0.02
18	T,M	Methylene chloride	0.336	0.343	-2.1	86	-0.03
19	T,M	Carbon disulfide	0.976	0.980	-0.4	75	-0.03
20	T,M	Acrylonitrile	0.035	0.039	-11.4	82	-0.02
21	T,M	tert-Butyl methyl ether (MT	0.462	0.508	-10.0	84	-0.03
22	T,M	trans-1,2-Dichloroethene	0.448	0.451	-0.7	84	-0.03
23	T,M	Isopropyl ether (DIPE)	0.938	0.917	2.2	81	-0.02
24	T,M	Vinyl acetate	0.300	0.159	47.0#	36#	-0.02
25	P,T,M	1,1-Dichloroethane	0.525	0.576	-9.7	91	0.00
26	T,M	2-Butanol	0.008	0.008	0.0	79	-0.01
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.690	-1.2	81	-0.02
28	T,M	2-Butanone	0.057	0.056	1.8	73	0.00
29	T,M	2,2-Dichloropropane	0.449	0.458	-2.0	84	-0.02
30	T,M	cis-1,2-Dichloroethene	0.322	0.353	-9.6	91	-0.02
31	C,T,M	Chloroform	0.535	0.620	-15.9	99	-0.02
32	T,M	Bromochloromethane	0.199	0.193	3.0	77	-0.02
33	T,M	Tetrahydrofuran	0.031	0.030	3.2	75	-0.01
34	S	Dibromofluoromethane	0.261	0.279	-6.9	85	0.00
35	T,M	1,1,1-Trichloroethane	0.481	0.539	-12.1	91	0.00
36	T,M	Cyclohexane	0.493	0.436	12.1	68	-0.01
37	T,M	2,2,4-Trimethylpentane	0.024	0.019	20.8#	62	-0.01
38	T,M	1,1-Dichloropropene	0.146	0.146	0.0	82	0.00
39	T,M	Carbon tetrachloride	0.364	0.405	-11.3	89	-0.02
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.524	0.0	81	-0.02
41	S	1,2-Dichloroethane-d4	0.230	0.247	-7.4	81	-0.01

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.232	-7.6	91	-0.02
43	T,M	1,2-Dichloroethane	0.255	0.304	-19.2	88	0.00
44	T,M	Trichloroethene	0.303	0.339	-11.9	94	0.00
45	T,M	Methylcyclohexane	0.587	0.485	17.4	67	0.00
46	C,T,M	1,2-Dichloropropane	0.258	0.271	-5.0	87	0.00
47	T,M	Bromodichloromethane	0.353	0.405	-14.7	92	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	65	0.00
49	T,M	Dibromomethane	0.112	0.123	-9.8	85	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.023	-43.7#	107	0.00
51	T,M	4-Methyl-2-pentanone	0.127	0.131	-3.1	71	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.422	-9.3	86	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	76	0.00
54	S	Toluene-d8	1.375	1.450	-5.5	83	0.00
55	C,T,M	Toluene	1.585	1.738	-9.7	88	0.00
56	T,M	Ethyl methacrylate	0.227	0.266	-17.2	80	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.428	-19.2	85	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.231	-18.5	87	0.00
59	T,M	2-Hexanone	0.104	0.107	-2.9	68	0.00
60	T,M	1,3-Dichloropropane	0.368	0.425	-15.5	87	0.00
61	T,M	Tetrachloroethene	0.343	0.366	-6.7	89	0.00
62	T,M	Dibromochloromethane	0.232	0.290	-25.0#	93	0.00
63	T,M	1,2-Dibromoethane	0.185	0.206	-11.4	81	0.00
64	T,M	1-Chlorohexane	0.740	0.698	5.7	78	0.00
65	P,M	Chlorobenzene	0.949	1.071	-12.9	92	0.00
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.374	-29.0#	102	0.00
67	C,T,M	Ethylbenzene	1.875	2.096	-11.8	89	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.544	-4.3	90	0.00
69	T,M	o-Xylene	1.463	1.989	-36.0#	97	0.00
70	T,M	Styrene	1.070	1.503	-40.5#	98	0.00
71	T,M	Isopropylbenzene	1.986	2.577	-29.8#	95	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	103	0.00
73	P,T,M	Bromoform	0.246	0.252	-2.4	96	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.116	24.7#	72	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.579	-9.7	103	0.00
76	S	4-Bromofluorobenzene	1.184	1.158	2.2	102	0.02
77	T,M	1,2,3-Trichloropropane	0.148	0.155	-4.7	100	0.00
78	T,M	n-Propylbenzene	5.921	5.797	2.1	106	0.00
79	T,M	Bromobenzene	0.858	0.990	-15.4	125	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.653	0.3	109	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.589	0.3	110	0.00
82	T,M	4-Chlorotoluene	3.211	3.263	-1.6	112	0.00
83	T,M	tert-Butylbenzene	0.826	0.905	-9.6	118	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.582	0.0	108	0.00
85	T,M	sec-Butylbenzene	5.158	5.153	0.1	106	0.00
86	T,M	p-Isopropyltoluene	4.024	3.970	1.3	107	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.945	-12.8	123	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.262	-0.0	108	0.00
89	T,M	1,4-Dichlorobenzene	1.713	1.815	-6.0	119	0.00
90	T,M	n-Butylbenzene	4.403	3.811	13.4	98	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.585	-12.7	122	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.074	-4.2	101	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	0.993	-4.3	113	0.00
94	T,M	Hexachlorobutadiene	0.610	0.660	-8.2	120	0.00
95	T,M	Naphthalene	1.172	1.219	-4.0	102	0.00
96	T,M	1,2,3-Trichlorobenzene	0.690	0.761	-10.3	114	0.00

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 5:24 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	686559	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	523389	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	326183	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	191892	10.70	ug/l	0.00
Spiked Amount 10.000			Recovery = 107.00%			
41) 1,2-Dichloroethane-d4	7.95	65	169297	10.72	ug/l	-0.01
Spiked Amount 10.000			Recovery = 107.20%			
54) Toluene-d8	11.02	98	759051	10.55	ug/l	0.00
Spiked Amount 10.000			Recovery = 105.50%			
76) 4-Bromofluorobenzene	15.99	95	377852	9.78	ug/l	0.02
Spiked Amount 10.000			Recovery = 97.80%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.18	85	233624	8.28	ug/l	99
5) Chloromethane	2.48	50	188816	8.87	ug/l	100
6) Vinyl chloride	2.63	62	175276	9.34	ug/l	100
8) Chloroethane	3.18	64	141859	9.97	ug/l	100
9) Dichlorofluoromethane	3.29	67	290603	11.15	ug/l	99
10) Trichlorofluoromethane	3.57	101	310060	10.15	ug/l	97
11) Acrolein	4.00	56	26644	50.76	ug/l	88
12) 1,1,2-Trichloro-1,2,2-trif	4.09	151	139253	11.08	ug/l	99
13) Acetone	4.07	43	129067	50.91	ug/l	95
14) 1,1-Dichloroethene	4.22	61	315638	9.85	ug/l	99
15) tert-Butyl alcohol	4.34	59	147217	232.10	ug/l	99
16) Iodomethane	4.64	142	309341	11.37	ug/l	98
17) Methyl acetate	4.66	43	63898	9.77	ug/l	96
18) Methylene chloride	4.86	49	235752	10.21	ug/l	93
19) Carbon disulfide	4.87	76	672524	10.04	ug/l	100
20) Acrylonitrile	5.03	53	132885	55.80	ug/l	97
21) tert-Butyl methyl ether (M	5.05	73	348936	11.00	ug/l	98
22) trans-1,2-Dichloroethene	5.24	61	309367	10.06	ug/l	99
23) Isopropyl ether (DIPE)	5.67	45	629819	9.78	ug/l	94
24) Vinyl acetate	5.83	43	109319	5.30	ug/l	94
25) 1,1-Dichloroethane	5.83	63	395362	10.96	ug/l	99
26) 2-Butanol	6.16	45	145862	274.45	ug/l	95
27) tert-Butyl ethyl ether (ET	6.23	59	473431	10.11	ug/l	95
28) 2-Butanone	6.43	43	191496	49.26	ug/l	93
29) 2,2-Dichloropropane	6.62	77	314528	10.19	ug/l	99
30) cis-1,2-Dichloroethene	6.68	96	242478	10.98	ug/l	98
31) Chloroform	6.90	83	425470	11.57	ug/l	97

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 5:24 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	Bromochloromethane	7.14	49	132435	9.69	ug/l		85
33)	Tetrahydrofuran	7.20	42	20258	9.38	ug/l		92
35)	1,1,1-Trichloroethane	7.49	97	370268	11.22	ug/l		100
36)	Cyclohexane	7.51	84	299434	8.79	ug/l		99
37)	2,2,4-Trimethylpentane	7.49	57	13041	7.91	ug/l	#	100
38)	1,1-Dichloropropene	7.72	110	99935	10.00	ug/l		98
39)	Carbon tetrachloride	7.86	119	277804	11.11	ug/l		99
40)	tert-Amyl methyl ether (TA	7.88	73	259473	9.99	ug/l		99
42)	Benzene	8.12	78	845668	10.76	ug/l		98
43)	1,2-Dichloroethane	8.10	62	208916	11.92	ug/l		98
44)	Trichloroethene	9.06	130	232753	11.20	ug/l		95
45)	Methylcyclohexane	9.15	83	332957	8.26	ug/l		97
46)	1,2-Dichloropropane	9.34	63	185997	10.51	ug/l		94
47)	Bromodichloromethane	9.71	83	277729	11.47	ug/l		98
48)	1,4-Dioxane	9.76	88	11629	171.95	ug/l		89
49)	Dibromomethane	9.80	93	84175	10.95	ug/l		98
50)	2-Chloroethyl vinyl ether	10.22	63	15961	11.84	ug/l		96
51)	4-Methyl-2-pentanone	10.25	43	449584	51.72	ug/l		96
52)	cis-1,3-Dichloropropene	10.60	75	290033	10.93	ug/l		98
55)	Toluene	11.15	91	909389	10.96	ug/l		99
56)	Ethyl methacrylate	11.43	69	139380	11.73	ug/l		88
57)	trans-1,3-Dichloropropene	11.46	75	224206	11.93	ug/l		99
58)	1,1,2-Trichloroethane	11.73	97	120740	11.82	ug/l		98
59)	2-Hexanone	11.74	43	279017	51.41	ug/l		95
60)	1,3-Dichloropropane	12.17	76	222202	11.55	ug/l		100
61)	Tetrachloroethene	12.28	164	191470	10.68	ug/l		99
62)	Dibromochloromethane	12.65	129	151710	12.47	ug/l		100
63)	1,2-Dibromoethane	13.02	107	107598	11.12	ug/l		96
64)	1-Chlorohexane	13.28	91	365314	9.43	ug/l		97
65)	Chlorobenzene	13.77	112	560580	11.29	ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	195803	12.91	ug/l		99
67)	Ethylbenzene	13.86	91	1097273	11.18	ug/l		99
68)	m-Xylene & p Xylene	13.99	91	1616699	20.86	ug/l		99
69)	o-Xylene	14.82	91	1040760	13.59	ug/l		100
70)	Styrene	14.88	104	786699	14.05	ug/l		98
71)	Isopropylbenzene	15.50	105	1348589	12.98	ug/l		99
73)	Bromoform	15.53	173	82079	8.79	ug/l		97
74)	trans-1,4-Dichloro-2-buten	15.61	53	37843	7.54	ug/l		87
75)	1,1,2,2-Tetrachloroethane	15.85	83	188811	10.97	ug/l		96
77)	1,2,3-Trichloropropane	16.13	110	50641	10.48	ug/l		92
78)	n-Propylbenzene	16.27	91	1891041	9.79	ug/l		98

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 5:24 2024 Quant Results File: VO01J12.RES

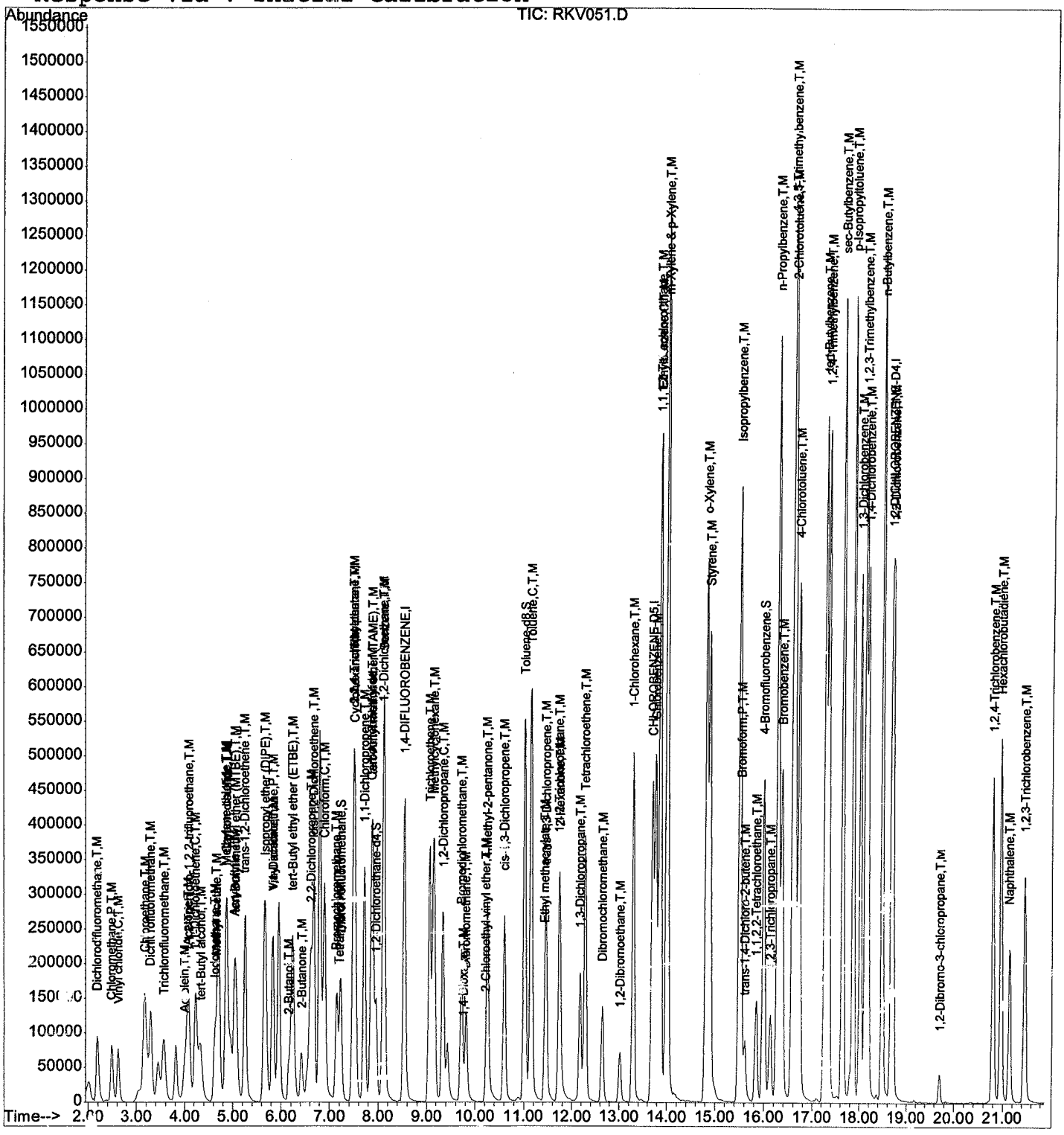
Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79)	Bromobenzene	16.36	156	322988	11.54	ug/l	99
80)	1,3,5-Trimethylbenzene	16.59	105	1191645	9.97	ug/l	98
81)	2-Chlorotoluene	16.62	91	1170576	9.97	ug/l	95
82)	4-Chlorotoluene	16.70	91	1064496	10.16	ug/l	94
83)	tert-Butylbenzene	17.27	134	295144	10.96	ug/l	92
84)	1,2,4-Trimethylbenzene	17.34	105	1168311	10.00	ug/l	97
85)	sec-Butylbenzene	17.64	105	1680955	9.99	ug/l	96
86)	p-Isopropyltoluene	17.86	119	1294884	9.86	ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	634528	11.28	ug/l	97
88)	1,2,3-Trimethylbenzene	18.11	105	1063914	10.00	ug/l	97
89)	1,4-Dichlorobenzene	18.17	146	591970	10.59	ug/l	96
90)	n-Butylbenzene	18.48	91	1243190	8.66	ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	517121	11.27	ug/l	99
92)	1,2-Dibromo-3-chloropropan	19.71	157	24100	10.48	ug/l	97
93)	1,2,4-Trichlorobenzene	20.79	180	323793	10.43	ug/l	99
94)	Hexachlorobutadiene	20.95	225	215317	10.82	ug/l	100
95)	Naphthalene	21.13	128	397688	10.40	ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	248370	11.03	ug/l	98

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLing
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 5:24 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EV001J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\V001J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	125	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	6.995	30.0#	79	-0.08
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	10.041	-0.4	114	-0.10
6	C,T,M	Vinyl chloride	10.000	10.121	-1.2	117	-0.08
7	T,M	Bromomethane	10.000	0.000	100.0#	0	-3.24#
8	T,M	Chloroethane	10.000	10.812	-8.1	129	-0.06
9	T,M	Dichlorofluoromethane	10.000	10.513	-5.1	161	-0.08
10	T,M	Trichlorofluoromethane	10.000	8.504	15.0	99	-0.07
11	T,M	Acrolein	50.000	55.298	-10.6	134	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	10.274	-2.7	133	-0.08
13	T,M	Acetone	50.000	48.690	2.6	118	-0.03
14	C,T,M	1,1-Dichloroethene	10.000	9.314	6.9	123	-0.03
15	T,M	tert-Butyl alcohol	250.000	237.416	5.0	112	-0.03
16	T,M	Iodomethane	10.000	11.294	-12.9	150	-0.03
17	T,M	Methyl acetate	10.000	10.711	-7.1	129	-0.03
18	T,M	Methylene chloride	10.000	10.625	-6.3	143	-0.03
19	T,M	Carbon disulfide	10.000	10.082	-0.8	121	-0.03
20	T,M	Acrylonitrile	50.000	62.300	-24.6#	147	-0.03
21	T,M	tert-Butyl methyl ether (MT	10.000	10.720	-7.2	130	-0.03
22	T,M	trans-1,2-Dichloroethene	10.000	9.856	1.4	131	-0.03
23	T,M	Isopropyl ether (DIPE)	10.000	10.448	-4.5	138	-0.03
24	T,M	Vinyl acetate	10.000	5.562	44.4#	60	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.671	-6.7	142	-0.02
26	T,M	2-Butanol	250.000	294.110	-17.6	136	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.006	-0.1	127	-0.02
28	T,M	2-Butanone	50.000	52.463	-4.9	125	-0.02
29	T,M	2,2-Dichloropropane	10.000	8.755	12.4	115	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	11.171	-11.7	148	-0.02
31	C,T,M	Chloroform	10.000	10.552	-5.5	144	-0.02
32	T,M	Bromochloromethane	10.000	10.229	-2.3	129	-0.02
33	T,M	Tetrahydrofuran	10.000	10.435	-4.4	134	-0.02
34	S	Dibromofluoromethane	10.000	10.305	-3.0	131	-0.02
35	T,M	1,1,1-Trichloroethane	10.000	9.326	6.7	121	-0.02
36	T,M	Cyclohexane	10.000	8.308	16.9	102	-0.02
37	T,M	2,2,4-Trimethylpentane	10.000	7.915	20.8#	99	-0.03
38	T,M	1,1-Dichloropropene	10.000	10.075	-0.7	132	0.00
39	T,M	Carbon tetrachloride	10.000	9.300	7.0	119	-0.02
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.044	-0.4	130	-0.02
41	S	1,2-Dichloroethane-d4	10.000	9.000	10.0	109	-0.02

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.887	-8.9	146	-0.02
43	T,M	1,2-Dichloroethane	10.000	9.750	2.5	114	0.00
44	T,M	Trichloroethene	10.000	11.316	-13.2	151	0.00
45	T,M	Methylcyclohexane	10.000	8.119	18.8	104	-0.01
46	C,T,M	1,2-Dichloropropane	10.000	10.868	-8.7	143	-0.01
47	T,M	Bromodichloromethane	10.000	10.612	-6.1	136	0.00
48	T,M	1,4-Dioxane	200.000	202.762	-1.4	122	0.00
49	T,M	Dibromomethane	10.000	10.111	-1.1	125	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	12.783	-27.8#	185	0.00
51	T,M	4-Methyl-2-pentanone	50.000	52.617	-5.2	115	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	10.585	-5.9	133	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	121	0.00
54	S	Toluene-d8	10.000	10.628	-6.3	132	-0.01
55	C,T,M	Toluene	10.000	10.864	-8.6	138	0.00
56	T,M	Ethyl methacrylate	10.000	11.450	-14.5	124	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	10.834	-8.3	123	0.00
58	T,M	1,1,2-Trichloroethane	10.000	11.589	-15.9	135	0.00
59	T,M	2-Hexanone	50.000	50.457	-0.9	106	0.00
60	T,M	1,3-Dichloropropane	10.000	11.332	-13.3	135	0.00
61	T,M	Tetrachloroethene	10.000	10.177	-1.8	134	0.00
62	T,M	Dibromochloromethane	10.000	11.742	-17.4	139	0.00
63	T,M	1,2-Dibromoethane	10.000	10.910	-9.1	126	0.00
64	T,M	1-Chlorohexane	10.000	9.279	7.2	121	0.00
65	P,M	Chlorobenzene	10.000	10.957	-9.6	141	0.00
66	T,M	1,1,1,2-Tetrachloroethane	10.000	11.842	-18.4	149	0.00
67	C,T,M	Ethylbenzene	10.000	10.445	-4.5	132	0.00
68	T,M	m-Xylene & p-Xylene	20.000	19.188	4.1	131	0.00
69	T,M	o-Xylene	10.000	10.044	-0.4	114	0.00
70	T,M	Styrene	10.000	10.788	-7.9	119	0.00
71	T,M	Isopropylbenzene	10.000	9.861	1.4	114	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	107	0.00
73	P,T,M	Bromoform	10.000	10.457	-4.6	120	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	7.972	20.3#	79	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	10.904	-9.0	107	0.00
76	S	4-Bromofluorobenzene	10.000	9.792	2.1	106	0.02
77	T,M	1,2,3-Trichloropropane	10.000	10.668	-6.7	106	0.00
78	T,M	n-Propylbenzene	10.000	9.721	2.8	110	0.00
79	T,M	Bromobenzene	10.000	11.583	-15.8	131	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	9.970	0.3	114	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	9.735	2.7	112	0.00
82	T,M	4-Chlorotoluene	10.000	10.024	-0.2	115	0.01
83	T,M	tert-Butylbenzene	10.000	11.008	-10.1	123	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	10.006	-0.1	113	0.00
85	T,M	sec-Butylbenzene	10.000	9.704	3.0	107	0.00
86	T,M	p-Isopropyltoluene	10.000	9.711	2.9	110	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.090	-10.9	126	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.015	-0.2	113	0.01
89	T,M	1,4-Dichlorobenzene	10.000	10.846	-8.5	127	0.00
90	T,M	n-Butylbenzene	10.000	8.546	14.5	101	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.040	-10.4	125	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	10.721	-7.2	108	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.732	-7.3	122	0.00
94	T,M	Hexachlorobutadiene	10.000	10.637	-6.4	124	0.01
95	T,M	Naphthalene	10.000	10.688	-6.9	109	0.01
96	T,M	1,2,3-Trichlorobenzene	10.000	11.170	-11.7	121	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	125	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.287	30.2#	79	-0.08
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.311	-0.3	114	-0.10
6	C,T,M	Vinyl chloride	0.273	0.277	-1.5	117	-0.08
7	T,M	Bromomethane	0.197	0.000	100.0#	0#	-3.24#
8	T,M	Chloroethane	0.207	0.224	-8.2	129	-0.06
9	T,M	Dichlorofluoromethane	0.380	0.399	-5.0	161	-0.08
10	T,M	Trichlorofluoromethane	0.445	0.378	15.1	99	-0.07
11	T,M	Acrolein	0.008	0.008	0.0	134	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.188	-2.7	133	-0.08
13	T,M	Acetone	0.037	0.036	2.7	118	-0.03
14	C,T,M	1,1-Dichloroethene	0.467	0.435	6.9	123	-0.03
15	T,M	tert-Butyl alcohol	0.009	0.009	0.0	112	-0.03
16	T,M	Iodomethane	0.396	0.448	-13.1	150	-0.03
17	T,M	Methyl acetate	0.095	0.102	-7.4	129	-0.03
18	T,M	Methylene chloride	0.336	0.357	-6.2	143	-0.03
19	T,M	Carbon disulfide	0.976	0.984	-0.8	121	-0.03
20	T,M	Acrylonitrile	0.035	0.043	-22.9#	147	-0.03
21	T,M	tert-Butyl methyl ether (MT	0.462	0.495	-7.1	130	-0.03
22	T,M	trans-1,2-Dichloroethene	0.448	0.442	1.3	131	-0.03
23	T,M	Isopropyl ether (DIPE)	0.938	0.980	-4.5	138	-0.03
24	T,M	Vinyl acetate	0.300	0.167	44.3#	60	-0.02
25	P,T,M	1,1-Dichloroethane	0.525	0.561	-6.9	142	-0.02
26	T,M	2-Butanol	0.008	0.009	-12.5	136	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.682	0.0	127	-0.02
28	T,M	2-Butanone	0.057	0.059	-3.5	125	-0.02
29	T,M	2,2-Dichloropropane	0.449	0.394	12.2	115	-0.02
30	T,M	cis-1,2-Dichloroethene	0.322	0.359	-11.5	148	-0.02
31	C,T,M	Chloroform	0.535	0.565	-5.6	144	-0.02
32	T,M	Bromochloromethane	0.199	0.204	-2.5	129	-0.02
33	T,M	Tetrahydrofuran	0.031	0.033	-6.5	134	-0.02
34	S	Dibromofluoromethane	0.261	0.269	-3.1	131	-0.02
35	T,M	1,1,1-Trichloroethane	0.481	0.448	6.9	121	-0.02
36	T,M	Cyclohexane	0.496	0.412	16.9	102	-0.02
37	T,M	2,2,4-Trimethylpentane	0.024	0.019	20.8#	99	-0.03
38	T,M	1,1-Dichloropropene	0.146	0.147	-0.7	132	0.00
39	T,M	Carbon tetrachloride	0.364	0.339	6.9	119	-0.02
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.527	-0.6	130	-0.02
41	S	1,2-Dichloroethane-d4	0.230	0.207	10.0	109	-0.02

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.247	-8.9	146	-0.02
43	T,M	1,2-Dichloroethane	0.255	0.249	2.4	114	0.00
44	T,M	Trichloroethene	0.303	0.343	-13.2	151	0.00
45	T,M	Methylcyclohexane	0.587	0.476	18.9	104	-0.01
46	C,T,M	1,2-Dichloropropane	0.258	0.280	-8.5	143	-0.01
47	T,M	Bromodichloromethane	0.353	0.374	-5.9	136	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	122	0.00
49	T,M	Dibromomethane	0.112	0.113	-0.9	125	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.025	-56.3#	185	0.00
51	T,M	4-Methyl-2-pentanone	0.127	0.133	-4.7	115	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.409	-6.0	133	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	121	0.00
54	S	Toluene-d8	1.375	1.462	-6.3	132	-0.01
55	C,T,M	Toluene	1.585	1.722	-8.6	138	0.00
56	T,M	Ethyl methacrylate	0.227	0.260	-14.5	124	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.389	-8.4	123	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.226	-15.9	135	0.00
59	T,M	2-Hexanone	0.104	0.105	-1.0	106	0.00
60	T,M	1,3-Dichloropropane	0.368	0.416	-13.0	135	0.00
61	T,M	Tetrachloroethene	0.343	0.349	-1.7	134	0.00
62	T,M	Dibromochloromethane	0.232	0.273	-17.7	139	0.00
63	T,M	1,2-Dibromoethane	0.185	0.202	-9.2	126	0.00
64	T,M	1-Chlorohexane	0.740	0.687	7.2	121	0.00
65	P,M	Chlorobenzene	0.949	1.040	-9.6	141	0.00
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.343	-18.3	149	0.00
67	C,T,M	Ethylbenzene	1.875	1.959	-4.5	132	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.421	4.1	131	0.00
69	T,M	o-Xylene	1.463	1.469	-0.4	114	0.00
70	T,M	Styrene	1.070	1.154	-7.9	119	0.00
71	T,M	Isopropylbenzene	1.986	1.958	1.4	114	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	107	0.00
73	P,T,M	Bromoform	0.246	0.301	-22.4#	120	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.123	20.1#	79	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.576	-9.1	107	0.00
76	S	4-Bromofluorobenzene	1.184	1.159	2.1	106	0.02
77	T,M	1,2,3-Trichloropropane	0.148	0.158	-6.8	106	0.00
78	T,M	n-Propylbenzene	5.921	5.756	2.8	110	0.00
79	T,M	Bromobenzene	0.858	0.993	-15.7	131	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.652	0.3	114	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.503	2.6	112	0.00
82	T,M	4-Chlorotoluene	3.211	3.219	-0.2	115	0.01
83	T,M	tert-Butylbenzene	0.826	0.909	-10.0	123	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.585	-0.1	113	0.00
85	T,M	sec-Butylbenzene	5.158	5.006	2.9	107	0.00
86	T,M	p-Isopropyltoluene	4.024	3.908	2.9	110	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.912	-10.9	126	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.266	-0.2	113	0.01
89	T,M	1,4-Dichlorobenzene	1.713	1.858	-8.5	127	0.00
90	T,M	n-Butylbenzene	4.403	3.763	14.5	101	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.553	-10.5	125	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.076	-7.0	108	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	1.022	-7.4	122	0.00
94	T,M	Hexachlorobutadiene	0.610	0.649	-6.4	124	0.01
95	T,M	Naphthalene	1.172	1.253	-6.9	109	0.01
96	T,M	1,2,3-Trichlorobenzene	0.690	0.771	-11.7	121	0.00

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 5:53 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	1095441	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	830324	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	340306	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.21	111	294858	10.30	ug/l	-0.02
Spiked Amount 10.000			Recovery = 103.00%			
41) 1,2-Dichloroethane-d4	7.95	65	226835	9.00	ug/l	-0.02
Spiked Amount 10.000			Recovery = 90.00%			
54) Toluene-d8	11.00	98	1213547	10.63	ug/l	-0.01
Spiked Amount 10.000			Recovery = 106.30%			
76) 4-Bromofluorobenzene	15.99	95	394520	9.79	ug/l	0.02
Spiked Amount 10.000			Recovery = 97.90%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.17	85	314742	7.00	ug/l	100
5) Chloromethane	2.47	50	340981	10.04	ug/l	99
6) Vinyl chloride	2.61	62	303096	10.12	ug/l	98
8) Chloroethane	3.18	64	245436	10.81	ug/l	92
9) Dichlorofluoromethane	3.29	67	437178	10.51	ug/l	98
10) Trichlorofluoromethane	3.55	101	414301	8.50	ug/l	96
11) Acrolein	3.98	56	46312	55.30	ug/l	91
12) 1,1,2-Trichloro-1,2,2-trif	4.07	151	206091	10.27	ug/l	98
13) Acetone	4.06	43	196953	48.69	ug/l	82
14) 1,1-Dichloroethene	4.22	61	476016	9.31	ug/l	94
15) tert-Butyl alcohol	4.34	59	240268	237.42	ug/l	99
16) Iodomethane	4.63	142	490367	11.29	ug/l	91
17) Methyl acetate	4.65	43	111754	10.71	ug/l	96
18) Methylene chloride	4.86	49	391446	10.63	ug/l	91
19) Carbon disulfide	4.87	76	1077738	10.08	ug/l	100
20) Acrylonitrile	5.02	53	236723	62.30	ug/l	96
21) tert-Butyl methyl ether (M	5.05	73	542552	10.72	ug/l	91
22) trans-1,2-Dichloroethene	5.24	61	483756	9.86	ug/l	95
23) Isopropyl ether (DIPE)	5.66	45	1073832	10.45	ug/l	95
24) Vinyl acetate	5.83	43	182912	5.56	ug/l	93
25) 1,1-Dichloroethane	5.82	63	614232	10.67	ug/l	100
26) 2-Butanol	6.15	45	249406	294.11	ug/l	92
27) tert-Butyl ethyl ether (ET	6.23	59	747581	10.01	ug/l	96
28) 2-Butanone	6.41	43	325422	52.46	ug/l	93
29) 2,2-Dichloropropane	6.62	77	431081	8.76	ug/l	98
30) cis-1,2-Dichloroethene	6.68	96	393779	11.17	ug/l	93
31) Chloroform	6.90	83	618969	10.55	ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 5:53 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	Bromochloromethane	7.14	49	223128	10.23	ug/l		87
33)	Tetrahydrofuran	7.20	42	35968	10.43	ug/l		94
35)	1,1,1-Trichloroethane	7.48	97	491267	9.33	ug/l		99
36)	Cyclohexane	7.51	84	451535	8.31	ug/l		99
37)	2,2,4-Trimethylpentane	7.49	57	20814	7.91	ug/l	#	100
38)	1,1-Dichloropropene	7.71	110	160698	10.07	ug/l		100
39)	Carbon tetrachloride	7.86	119	370933	9.30	ug/l		98
40)	tert-Amyl methyl ether (TA	7.88	73	576810	10.04	ug/l		98
42)	Benzene	8.11	78	1365671	10.89	ug/l		97
43)	1,2-Dichloroethane	8.10	62	272587	9.75	ug/l		99
44)	Trichloroethene	9.06	130	375379	11.32	ug/l		93
45)	Methylcyclohexane	9.14	83	521913	8.12	ug/l		96
46)	1,2-Dichloropropane	9.33	63	306767	10.87	ug/l		94
47)	Bromodichloromethane	9.71	83	409957	10.61	ug/l		100
48)	1,4-Dioxane	9.76	88	21880	202.76	ug/l		90
49)	Dibromomethane	9.80	93	123962	10.11	ug/l		90
50)	2-Chloroethyl vinyl ether	10.22	63	27676	12.78	ug/l		96
51)	4-Methyl-2-pentanone	10.25	43	729781	52.62	ug/l		94
52)	cis-1,3-Dichloropropene	10.60	75	447989	10.58	ug/l		97
55)	Toluene	11.15	91	1429591	10.86	ug/l		99
56)	Ethyl methacrylate	11.43	69	215820	11.45	ug/l		85
57)	trans-1,3-Dichloropropene	11.46	75	322884	10.83	ug/l		96
58)	1,1,2-Trichloroethane	11.73	97	187741	11.59	ug/l		100
59)	2-Hexanone	11.74	43	434466	50.46	ug/l		89
60)	1,3-Dichloropropane	12.17	76	345821	11.33	ug/l		98
61)	Tetrachloroethene	12.28	164	289440	10.18	ug/l		97
62)	Dibromochloromethane	12.65	129	226616	11.74	ug/l		98
63)	1,2-Dibromoethane	13.02	107	167475	10.91	ug/l		97
64)	1-Chlorohexane	13.28	91	570495	9.28	ug/l		98
65)	Chlorobenzene	13.77	112	863225	10.96	ug/l		99
66)	1,1,1,2-Tetrachloroethane	13.85	131	284864	11.84	ug/l		99
67)	Ethylbenzene	13.86	91	1626395	10.45	ug/l		97
68)	m-Xylene & p-Xylene	13.99	91	2359777	19.19	ug/l		96
69)	o-Xylene	14.82	91	1219958	10.04	ug/l		98
70)	Styrene	14.88	104	958410	10.79	ug/l		98
71)	Isopropylbenzene	15.50	105	1625893	9.86	ug/l		99
73)	Bromoform	15.53	173	102317	10.46	ug/l		99
74)	trans-1,4-Dichloro-2-buten	15.61	53	41742	7.97	ug/l		84
75)	1,1,2,2-Tetrachloroethane	15.85	83	195850	10.90	ug/l		99
77)	1,2,3-Trichloropropane	16.13	110	53794	10.67	ug/l		94
78)	n-Propylbenzene	16.27	91	1958942	9.72	ug/l		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 5:53 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

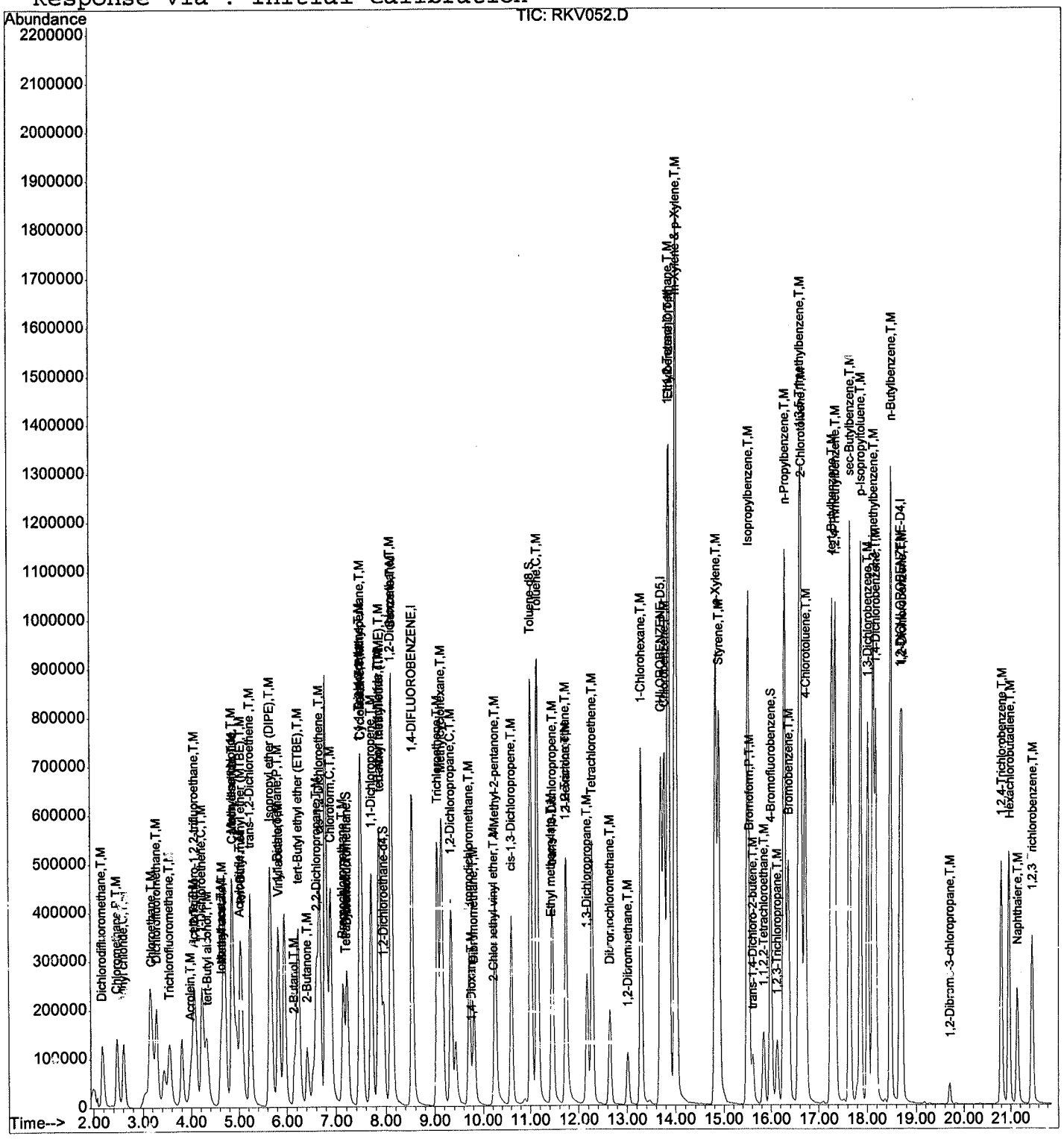
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79)	Bromobenzene	16.36	156	338077	11.58	ug/l	99
80)	1,3,5-Trimethylbenzene	16.59	105	1242826	9.97	ug/l	97
81)	2-Chlorotoluene	16.62	91	1192108	9.74	ug/l	89
82)	4-Chlorotoluene	16.72	91	1095296	10.02	ug/l	100
83)	tert-Butylbenzene	17.27	134	309304	11.01	ug/l	99
84)	1,2,4-Trimethylbenzene	17.34	105	1220016	10.01	ug/l	98
85)	sec-Butylbenzene	17.64	105	1703477	9.70	ug/l	97
86)	p-Isopropyltoluene	17.86	119	1329942	9.71	ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	650676	11.09	ug/l	96
88)	1,2,3-Trimethylbenzene	18.13	105	1111577	10.02	ug/l	97
89)	1,4-Dichlorobenzene	18.17	146	632353	10.85	ug/l	97
90)	n-Butylbenzene	18.48	91	1280534	8.55	ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	528352	11.04	ug/l	98
92)	1,2-Dibromo-3-chloropropan	19.71	157	25731	10.72	ug/l	100
93)	1,2,4-Trichlorobenzene	20.79	180	347690	10.73	ug/l	99
94)	Hexachlorobutadiene	20.97	225	220887	10.64	ug/l	99
95)	Naphthalene	21.15	128	426279	10.69	ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	262305	11.17	ug/l	98

(#) = qualifier out or range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLing
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 5:53 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : TITAN 1-A
Lab Code : EMAX SDG No : 24J168
Lab File ID: RKV068 BFB Injection Date: 11/06/24
Instrument ID: 01 BFB Injection Time: 07:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	16.242
75	30 - 60% of mass 95	45.124
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	6.520
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	76.089
175	5 - 9% of mass 174	4.818(6.33)1
176	95 - 101% % of mass 174	73.748(96.92)1
177	5 - 9% % of mass 176	4.892(6.63)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, Lab QCs and Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD10	CV001J1222	RKV069	11/06/24	08:11
2	LCS2W	V001K04L	RKV070	11/06/24	08:40
3	LCD2W	V001K04C	RKV071	11/06/24	09:09
4	MBLK2W	V001K04B	RKV073	11/06/24	10:08
5	T1AMF-MW044_OCT24	24J168-06	RKV076	11/06/24	11:36
6	T1AMF-MW050_OCT24	24J168-01	RKV077	11/06/24	12:05
7	T1AMF-MW050_OCT24_FD	24J168-02	RKV078	11/06/24	12:35
8	T1AMF-MW022_OCT24	24J168-03	RKV079	11/06/24	13:05
9	T1AMF-MW047_OCT24	24J168-04	RKV080	11/06/24	13:35
10	T1AMF-MW043_OCT24	24J168-05	RKV081	11/06/24	14:04
11	T1AMF-MW046_OCT24	24J168-08I	RKV082	11/06/24	14:34
12	T1AMF-EW01_OCT24	24J168-14I	RKV083	11/06/24	15:04
13	T1AMF-MW045_OCT24	24J168-15I	RKV084	11/06/24	15:34
14	T1AMF-MW044_OCT24MS	24J168-06M	RKV088	11/06/24	17:33
15	T1AMF-MW044_OCT24MSD	24J168-06S	RKV089	11/06/24	18:03
16	VSTD10	EV001J1222	RKV090	11/06/24	18:33

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: EMAX Laboratories, Inc.
Lab Code: EMAX
Lab File ID: RJV302
Instrument ID: 01

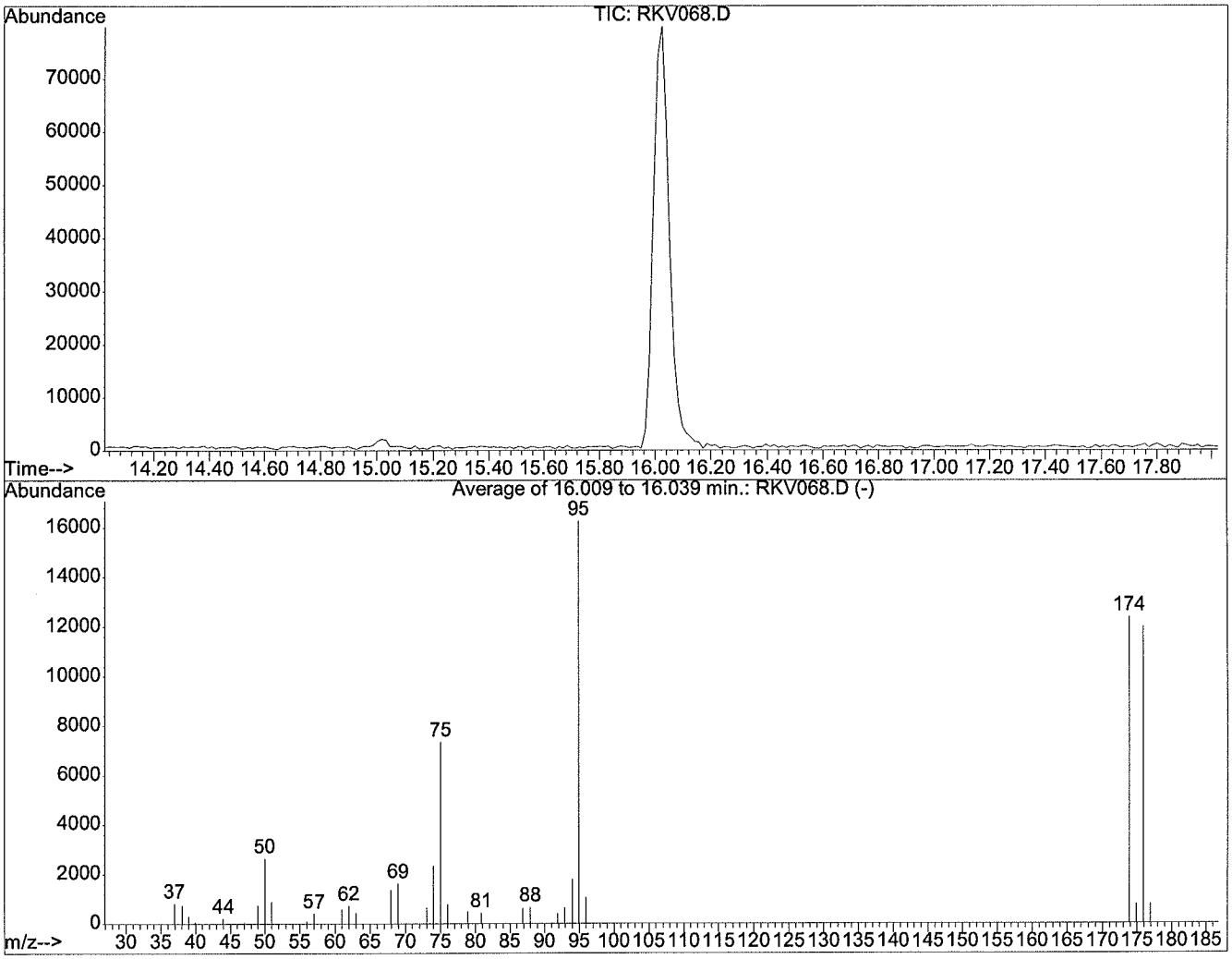
Project: TITAN 1-A
SDG No: 24J168
Date Analyzed: 10/12/24
Time Analyzed: 16:08

	INTERNAL STANDARD (IS)	1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5		1,2-DICHLOROBENZENE-D4	
		Area #	RT #	Area #	RT #	Area #	RT #
	12 HOUR STD	878286	8.54	685675	13.70	317109	18.67
	UPPER LIMIT	1756572	8.71	1371350	13.87	634218	18.84
	LOWER LIMIT	439143	8.37	342838	13.53	158555	18.50
		Area #	RT #	Area #	RT #	Area #	RT #
1	VSTD10	754276	8.54	586026	13.71	388351	18.69
2	LCS2W	884248	8.56	712257	13.71	428576	18.67
3	LCD2W	982622	8.54	938041	13.70	431483	18.67
4	MBLK2W	1037828	8.54	780396	13.70	320040	18.67
5	T1AMF-MW044_OCT24	728453	8.54	584196	13.71	243937	18.67
6	T1AMF-MW050_OCT24	763080	8.54	603090	13.71	252384	18.67
7	T1AMF-MW050_OCT24_FD	737878	8.54	571219	13.71	237719	18.69
8	T1AMF-MW022_OCT24	714071	8.55	588333	13.71	246270	18.67
9	T1AMF-MW047_OCT24	730120	8.55	565748	13.71	236824	18.67
10	T1AMF-MW043_OCT24	696707	8.56	536262	13.71	224271	18.67
11	T1AMF-MW046_OCT24	710128	8.55	546313	13.70	233676	18.67
12	T1AMF-EW01_OCT24	729346	8.54	560830	13.71	231809	18.67
13	T1AMF-MW045_OCT24	704705	8.54	559912	13.71	229506	18.67
14	T1AMF-MW044_OCT24MS	721358	8.55	562991	13.70	389487	18.67
15	T1AMF-MW044_OCT24MSD	810034	8.54	658416	13.70	399140	18.67
16	VSTD10	741593	8.54	590528	13.70	390353	18.67

Area Upper Limit = +100% of ICAL Midpoint IS Area
Area Lower Limit = -50% of ICAL Midpoint IS Area
Retention Time(RT) Upper Limit = +10 seconds of ICAL Midpoint IS RT
Retention Time(RT) Lower Limit = -10 seconds of ICAL Midpoint IS RT

Data File : D:\HPCHEM\1\DATA\24K06\RKV068.D
Acq On : 6 Nov 2024 7:32 am
Sample : BFB01K04
Misc : 25mL
MS Integration Params: RTE.P
Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls

Vial: 1
Operator: DNguye/CLi
Inst : 01
Multiplr: 1.00



AutoFind: Scans 951, 952, 953; Background Corrected with Scan 945

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	2643	PASS
75	95	30	60	45.1	7343	PASS
95	95	100	100	100.0	16273	PASS
96	95	5	9	6.5	1061	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.1	12382	PASS
175	174	5	9	6.3	784	PASS
176	174	95	101	96.9	12001	PASS
177	176	5	9	6.6	796	PASS

RKV068.D VO01J12.M Fri Nov 08 16:30:24 2024

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV069.D Vial: 2
Acq On : 6 Nov 2024 8:11 am Operator: DNguye/CLingl
Sample : CVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	86	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	11.078	-10.8	86	-0.06
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	9.381	6.2	73	-0.07
6	C,T,M	Vinyl chloride	10.000	11.594	-15.9	92	-0.06
7	T,M	Bromomethane	10.000	7.430	25.7#	67	-0.06
8	T,M	Chloroethane	10.000	11.166	-11.7	92	-0.03
9	T,M	Dichlorofluoromethane	10.000	12.585	-25.9#	132	-0.05
10	T,M	Trichlorofluoromethane	10.000	13.967	-39.7#	111	-0.06
11	T,M	Acrolein	50.000	52.791	-5.6	88	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	14.747	-47.5#	131	-0.05
13	T,M	Acetone	50.000	51.098	-2.2	85	-0.03
14	C,T,M	1,1-Dichloroethene	10.000	10.881	-8.8	99	-0.03
15	T,M	tert-Butyl alcohol	250.000	243.933	2.4	79	-0.03
16	T,M	Iodomethane	10.000	12.126	-21.3#	111	-0.03
17	T,M	Methyl acetate	10.000	8.309	16.9	69	-0.02
18	T,M	Methylene chloride	10.000	10.154	-1.5	94	-0.03
19	T,M	Carbon disulfide	10.000	10.005	-0.1	83	-0.03
20	T,M	Acrylonitrile	50.000	51.641	-3.3	84	-0.02
21	T,M	tert-Butyl methyl ether (MT	10.000	10.894	-8.9	91	-0.02
22	T,M	trans-1,2-Dichloroethene	10.000	10.302	-3.0	94	-0.03
23	T,M	Isopropyl ether (DIPE)	10.000	9.531	4.7	87	-0.02
24	T,M	Vinyl acetate	10.000	9.807	1.9	72	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.856	-8.6	99	-0.02
26	T,M	2-Butanol	250.000	280.111	-12.0	89	-0.01
27	T,M	tert-Butyl ethyl ether (ETB	10.000	9.846	1.5	86	-0.02
28	T,M	2-Butanone	50.000	42.810	14.4	70	0.00
29	T,M	2,2-Dichloropropane	10.000	13.437	-34.4#	122	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	11.215	-12.1	102	-0.02
31	C,T,M	Chloroform	10.000	11.569	-15.7	109	-0.02
32	T,M	Bromochloromethane	10.000	9.504	5.0	83	0.00
33	T,M	Tetrahydrofuran	10.000	8.848	11.5	78	0.00
34	S	Dibromofluoromethane	10.000	10.847	-8.5	95	0.00
35	T,M	1,1,1-Trichloroethane	10.000	12.422	-24.2#	111	0.00
36	T,M	Cyclohexane	10.000	10.655	-6.5	90	-0.02
37	T,M	2,2,4-Trimethylpentane	10.000	9.389	6.1	81	-0.02
38	T,M	1,1-Dichloropropene	10.000	11.275	-12.8	101	0.00
39	T,M	Carbon tetrachloride	10.000	13.061	-30.6#	115	0.00
40	T,M	tert-Amyl methyl ether (TAM	10.000	9.856	1.4	88	0.00
41	S	1,2-Dichloroethane-d4	10.000	10.063	-0.6	84	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV069.D Vial: 2
Acq On : 6 Nov 2024 8:11 am Operator: DNguye/CLingl
Sample : CVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M Benzene	10.000	10.785	-7.9	100	0.00
43	T,M 1,2-Dichloroethane	10.000	11.517	-15.2	93	0.00
44	T,M Trichloroethene	10.000	11.689	-16.9	108	0.00
45	T,M Methylcyclohexane	10.000	10.185	-1.9	90	0.00
46	C,T,M 1,2-Dichloropropane	10.000	10.356	-3.6	94	0.00
47	T,M Bromodichloromethane	10.000	11.615	-16.2	103	0.01
48	T,M 1,4-Dioxane	200.000	183.548	8.2	76	0.00
49	T,M Dibromomethane	10.000	10.795	-7.9	92	0.01
50	T,M 2-Chloroethyl vinyl ether	10.000	10.066	-0.7	98	0.00
51	T,M 4-Methyl-2-pentanone	50.000	45.948	8.1	69	0.02
52	T,M cis-1,3-Dichloropropene	10.000	11.062	-10.6	95	0.01
53	I CHLOROBENZENE-D5	10.000	10.000	0.0	85	0.01
54	S Toluene-d8	10.000	10.364	-3.6	91	0.00
55	C,T,M Toluene	10.000	11.167	-11.7	100	0.00
56	T,M Ethyl methacrylate	10.000	10.286	-2.9	79	0.01
57	T,M trans-1,3-Dichloropropene	10.000	11.553	-15.5	92	0.01
58	T,M 1,1,2-Trichloroethane	10.000	11.406	-14.1	94	0.01
59	T,M 2-Hexanone	50.000	45.933	8.1	68	0.01
60	T,M 1,3-Dichloropropane	10.000	10.927	-9.3	92	0.01
61	T,M Tetrachloroethene	10.000	12.022	-20.2#	112	0.01
62	T,M Dibromochloromethane	10.000	12.106	-21.1#	101	0.01
63	T,M 1,2-Dibromoethane	10.000	10.431	-4.3	85	0.00
64	T,M 1-Chlorohexane	10.000	10.689	-6.9	98	0.01
65	P,M Chlorobenzene	10.000	11.398	-14.0	104	0.00
66	T,M 1,1,1,2-Tetrachloroethane	10.000	13.138	-31.4#	116	0.01
67	C,T,M Ethylbenzene	10.000	11.541	-15.4	103	0.01
68	T,M m-Xylene & p-Xylene	20.000	21.173	-5.9	102	0.02
69	T,M o-Xylene	10.000	16.735	-67.3#	134	0.00
70	T,M Styrene	10.000	17.358	-73.6#	135	0.01
71	T,M Isopropylbenzene	10.000	16.936	-69.4#	138	0.02
72	I 1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	122	0.01
73	P,T,M Bromoform	10.000	9.986	0.1	130	0.01
74	T,M trans-1,4-Dichloro-2-butene	10.000	8.769	12.3	99	0.01
75	T,M 1,1,2,2-Tetrachloroethane	10.000	10.337	-3.4	115	0.00
76	S 4-Bromofluorobenzene	10.000	9.560	4.4	118	0.03
77	T,M 1,2,3-Trichloropropane	10.000	9.983	0.2	113	0.02
78	T,M n-Propylbenzene	10.000	10.606	-6.1	137	0.01
79	T,M Bromobenzene	10.000	11.372	-13.7	147	0.01
80	T,M 1,3,5-Trimethylbenzene	10.000	10.255	-2.6	134	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV069.D Vial: 2
Acq On : 6 Nov 2024 8:11 am Operator: DNguye/CLingl
Sample : CVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	10.219	-2.2	134	0.01
82	T,M	4-Chlorotoluene	10.000	10.415	-4.1	137	0.01
83	T,M	tert-Butylbenzene	10.000	11.813	-18.1	151	0.01
84	T,M	1,2,4-Trimethylbenzene	10.000	10.129	-1.3	130	0.01
85	T,M	sec-Butylbenzene	10.000	10.632	-6.3	134	0.01
86	T,M	p-Isopropyltoluene	10.000	10.681	-6.8	138	0.01
87	T,M	1,3-Dichlorobenzene	10.000	11.578	-15.8	150	0.01
88	T,M	1,2,3-Trimethylbenzene	10.000	10.150	-1.5	130	0.01
89	T,M	1,4-Dichlorobenzene	10.000	11.104	-11.0	149	0.01
90	T,M	n-Butylbenzene	10.000	9.762	2.4	132	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.309	-13.1	146	0.01
92	T,M	1,2-Dibromo-3-chloropropane	10.000	10.618	-6.2	122	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.644	-6.4	138	0.01
94	T,M	Hexachlorobutadiene	10.000	12.139	-21.4#	161	0.01
95	T,M	Naphthalene	10.000	9.663	3.4	113	0.01
96	T,M	1,2,3-Trichlorobenzene	10.000	10.814	-8.1	134	0.01

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV069.D Vial: 2
Acq On : 6 Nov 2024 8:11 am Operator: DNguye/CLingl
Sample : CVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	86	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.455	-10.7	86	-0.06
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.291	6.1	73	-0.07
6	C,T,M	Vinyl chloride	0.273	0.317	-16.1	92	-0.06
7	T,M	Bromomethane	0.197	0.146	25.9#	67	-0.06
8	T,M	Chloroethane	0.207	0.231	-11.6	92	-0.03
9	T,M	Dichlorofluoromethane	0.380	0.478	-25.8#	132	-0.05
10	T,M	Trichlorofluoromethane	0.445	0.621	-39.6#	111	-0.06
11	T,M	Acrolein	0.008	0.008	0.0	88	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.270	-47.5#	131	-0.05
13	T,M	Acetone	0.037	0.038	-2.7	85	-0.03
14	C,T,M	1,1-Dichloroethene	0.467	0.508	-8.8	99	-0.03
15	T,M	tert-Butyl alcohol	0.009	0.009	0.0	79	-0.03
16	T,M	Iodomethane	0.396	0.481	-21.5#	111	-0.03
17	T,M	Methyl acetate	0.095	0.079	16.8	69	-0.02
18	T,M	Methylene chloride	0.336	0.341	-1.5	94	-0.03
19	T,M	Carbon disulfide	0.976	0.976	0.0	83	-0.03
20	T,M	Acrylonitrile	0.035	0.036	-2.9	84	-0.02
21	T,M	tert-Butyl methyl ether (MT	0.462	0.503	-8.9	91	-0.02
22	T,M	trans-1,2-Dichloroethene	0.448	0.462	-3.1	94	-0.03
23	T,M	Isopropyl ether (DIPE)	0.938	0.894	4.7	87	-0.02
24	T,M	Vinyl acetate	0.300	0.294	2.0	72	-0.02
25	P,T,M	1,1-Dichloroethane	0.525	0.570	-8.6	99	-0.02
26	T,M	2-Butanol	0.008	0.009	-12.5	89	-0.01
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.672	1.5	86	-0.02
28	T,M	2-Butanone	0.057	0.048	15.8	70	0.00
29	T,M	2,2-Dichloropropane	0.449	0.604	-34.5#	122	-0.02
30	T,M	cis-1,2-Dichloroethene	0.322	0.361	-12.1	102	-0.02
31	C,T,M	Chloroform	0.535	0.620	-15.9	109	-0.02
32	T,M	Bromochloromethane	0.199	0.189	5.0	83	0.00
33	T,M	Tetrahydrofuran	0.031	0.028	9.7	78	0.00
34	S	Dibromofluoromethane	0.261	0.283	-8.4	95	0.00
35	T,M	1,1,1-Trichloroethane	0.481	0.597	-24.1#	111	0.00
36	T,M	Cyclohexane	0.496	0.529	-6.7	90	-0.02
37	T,M	2,2,4-Trimethylpentane	0.024	0.023	4.2	81	-0.02
38	T,M	1,1-Dichloropropene	0.146	0.164	-12.3	101	0.00
39	T,M	Carbon tetrachloride	0.364	0.476	-30.8#	115	0.00
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.517	1.3	88	0.00
41	S	1,2-Dichloroethane-d4	0.230	0.232	-0.9	84	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K06\RKV069.D Vial: 2
Acq On : 6 Nov 2024 8:11 am Operator: DNguye/CLingl
Sample : CVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.235	-7.9	100	0.00
43	T,M	1,2-Dichloroethane	0.255	0.294	-15.3	93	0.00
44	T,M	Trichloroethene	0.303	0.354	-16.8	108	0.00
45	T,M	Methylcyclohexane	0.587	0.598	-1.9	90	0.00
46	C,T,M	1,2-Dichloropropane	0.258	0.267	-3.5	94	0.00
47	T,M	Bromodichloromethane	0.353	0.410	-16.1	103	0.01
48	T,M	1,4-Dioxane	0.001	0.001	0.0	76	0.00
49	T,M	Dibromomethane	0.112	0.121	-8.0	92	0.01
50	T,M	2-Chloroethyl vinyl ether	0.016	0.019	-18.7	98	0.00
51	T,M	4-Methyl-2-pentanone	0.127	0.116	8.7	69	0.02
52	T,M	cis-1,3-Dichloropropene	0.386	0.427	-10.6	95	0.01
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	85	0.01
54	S	Toluene-d8	1.375	1.425	-3.6	91	0.00
55	C,T,M	Toluene	1.585	1.770	-11.7	100	0.00
56	T,M	Ethyl methacrylate	0.227	0.233	-2.6	79	0.01
57	T,M	trans-1,3-Dichloropropene	0.359	0.415	-15.6	92	0.01
58	T,M	1,1,2-Trichloroethane	0.195	0.223	-14.4	94	0.01
59	T,M	2-Hexanone	0.104	0.095	8.7	68	0.01
60	T,M	1,3-Dichloropropane	0.368	0.402	-9.2	92	0.01
61	T,M	Tetrachloroethene	0.343	0.412	-20.1#	112	0.01
62	T,M	Dibromochloromethane	0.232	0.281	-21.1#	101	0.01
63	T,M	1,2-Dibromoethane	0.185	0.193	-4.3	85	0.00
64	T,M	1-Chlorohexane	0.740	0.791	-6.9	98	0.01
65	P,M	Chlorobenzene	0.949	1.081	-13.9	104	0.00
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.381	-31.4#	116	0.01
67	C,T,M	Ethylbenzene	1.875	2.164	-15.4	103	0.01
68	T,M	m-Xylene & p-Xylene	1.481	1.568	-5.9	102	0.02
69	T,M	o-Xylene	1.463	2.448	-67.3#	134	0.00
70	T,M	Styrene	1.070	1.857	-73.6#	135	0.01
71	T,M	Isopropylbenzene	1.986	3.363	-69.3#	138	0.02
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	122	0.01
73	P,T,M	Bromoform	0.246	0.287	-16.7	130	0.01
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.135	12.3	99	0.01
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.546	-3.4	115	0.00
76	S	4-Bromofluorobenzene	1.184	1.132	4.4	118	0.03
77	T,M	1,2,3-Trichloropropane	0.148	0.148	0.0	113	0.02
78	T,M	n-Propylbenzene	5.921	6.280	-6.1	137	0.01
79	T,M	Bromobenzene	0.858	0.975	-13.6	147	0.01
80	T,M	1,3,5-Trimethylbenzene	3.663	3.756	-2.5	134	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV069.D Vial: 2
Acq On : 6 Nov 2024 8:11 am Operator: DNguye/CLingl
Sample : CVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.677	-2.2	134	0.01
82	T,M	4-Chlorotoluene	3.211	3.344	-4.1	137	0.01
83	T,M	tert-Butylbenzene	0.826	0.975	-18.0	151	0.01
84	T,M	1,2,4-Trimethylbenzene	3.583	3.629	-1.3	130	0.01
85	T,M	sec-Butylbenzene	5.158	5.485	-6.3	134	0.01
86	T,M	p-Isopropyltoluene	4.024	4.298	-6.8	138	0.01
87	T,M	1,3-Dichlorobenzene	1.724	1.996	-15.8	150	0.01
88	T,M	1,2,3-Trimethylbenzene	3.261	3.310	-1.5	130	0.01
89	T,M	1,4-Dichlorobenzene	1.713	1.902	-11.0	149	0.01
90	T,M	n-Butylbenzene	4.403	4.298	2.4	132	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.590	-13.1	146	0.01
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.075	-5.6	122	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	1.013	-6.4	138	0.01
94	T,M	Hexachlorobutadiene	0.610	0.741	-21.5#	161	0.01
95	T,M	Naphthalene	1.172	1.133	3.3	113	0.01
96	T,M	1,2,3-Trichlorobenzene	0.690	0.746	-8.1	134	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV069.D Vial: 2
Acq On : 6 Nov 2024 8:11 am Operator: DNguye/CLingl
Sample : CVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 8:33 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	754276	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.71	117	586026	10.00	ug/l	0.01
72) 1,2-DICHLOROBENZENE-D4	18.69	152	388351	10.00	ug/l	0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	213710	10.85	ug/l	0.00
Spiked Amount 10.000			Recovery = 108.50%			
41) 1,2-Dichloroethane-d4	7.97	65	174649	10.06	ug/l	0.00
Spiked Amount 10.000			Recovery = 100.60%			
54) Toluene-d8	11.02	98	835246	10.36	ug/l	0.00
Spiked Amount 10.000			Recovery = 103.60%			
76) 4-Bromofluorobenzene	16.01	95	439590	9.56	ug/l	0.03
Spiked Amount 10.000			Recovery = 95.60%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.20	85	343218	11.08	ug/l	100
5) Chloromethane	2.50	50	219341	9.38	ug/l	99
6) Vinyl chloride	2.64	62	239062	11.59	ug/l	98
7) Bromomethane	3.18	94	110478	7.43	ug/l	96
8) Chloroethane	3.21	64	174529	11.17	ug/l	96
9) Dichlorofluoromethane	3.32	67	360349	12.58	ug/l	99
10) Trichlorofluoromethane	3.57	101	468544	13.97	ug/l	96
11) Acrolein	3.98	56	30443	52.79	ug/l	83
12) 1,1,2-Trichloro-1,2,2-trif	4.10	151	203686	14.75	ug/l	98
13) Acetone	4.06	43	142322	51.10	ug/l	95
14) 1,1-Dichloroethene	4.22	61	382911	10.88	ug/l	97
15) tert-Butyl alcohol	4.34	59	169980	243.93	ug/l	99
16) Iodomethane	4.63	142	362510	12.13	ug/l	99
17) Methyl acetate	4.66	43	59690	8.31	ug/l	89
18) Methylene chloride	4.86	49	257576	10.15	ug/l	91
19) Carbon disulfide	4.87	76	736429	10.01	ug/l	99
20) Acrylonitrile	5.03	53	135111	51.64	ug/l	97
21) tert-Butyl methyl ether (M	5.06	73	379656	10.89	ug/l	99
22) trans-1,2-Dichloroethene	5.24	61	348176	10.30	ug/l	99
23) Isopropyl ether (DIPE)	5.67	45	674496	9.53	ug/l	93
24) Vinyl acetate	5.83	43	222085	9.81	ug/l	95
25) 1,1-Dichloroethane	5.82	63	430237	10.86	ug/l	98
26) 2-Butanol	6.16	45	163557	280.11	ug/l	97
27) tert-Butyl ethyl ether (ET	6.23	59	506521	9.85	ug/l	95
28) 2-Butanone	6.43	43	182843	42.81	ug/l	93
29) 2,2-Dichloropropane	6.62	77	455542	13.44	ug/l	99
30) cis-1,2-Dichloroethene	6.68	96	272201	11.21	ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV069.D Vial: 2
Acq On : 6 Nov 2024 8:11 am Operator: DNguye/CLingl
Sample : CVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 8:33 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.90	83	467283	11.57	ug/l		98
32)	Bromochloromethane	7.15	49	142750	9.50	ug/l		86
33)	Tetrahydrofuran	7.21	42	21001	8.85	ug/l		96
35)	1,1,1-Trichloroethane	7.49	97	450547	12.42	ug/l		98
36)	Cyclohexane	7.51	84	398734	10.65	ug/l		99
37)	2,2,4-Trimethylpentane	7.51	57	17001	9.39	ug/l	#	100
38)	1,1-Dichloropropene	7.71	110	123829	11.27	ug/l		99
39)	Carbon tetrachloride	7.88	119	358691	13.06	ug/l		96
40)	tert-Amyl methyl ether (TA	7.89	73	389747	9.86	ug/l		99
42)	Benzene	8.13	78	931501	10.79	ug/l		98
43)	1,2-Dichloroethane	8.10	62	221714	11.52	ug/l		99
44)	Trichloroethene	9.06	130	266985	11.69	ug/l		93
45)	Methylcyclohexane	9.15	83	450828	10.19	ug/l		96
46)	1,2-Dichloropropane	9.34	63	201276	10.36	ug/l		89
47)	Bromodichloromethane	9.73	83	308948	11.61	ug/l		99
48)	1,4-Dioxane	9.76	88	13638	183.55	ug/l		97
49)	Dibromomethane	9.82	93	91133	10.79	ug/l		96
50)	2-Chloroethyl vinyl ether	10.22	63	14660	10.07	ug/l		95
51)	4-Methyl-2-pentanone	10.26	43	438802	45.95	ug/l		95
52)	cis-1,3-Dichloropropene	10.62	75	322373	11.06	ug/l		98
55)	Toluene	11.15	91	1037134	11.17	ug/l		99
56)	Ethyl methacrylate	11.45	69	136833	10.29	ug/l		91
57)	trans-1,3-Dichloropropene	11.48	75	243019	11.55	ug/l		99
58)	1,1,2-Trichloroethane	11.74	97	130406	11.41	ug/l		98
59)	2-Hexanone	11.76	43	279147	45.93	ug/l		96
60)	1,3-Dichloropropane	12.19	76	235337	10.93	ug/l		99
61)	Tetrachloroethene	12.29	164	241303	12.02	ug/l		96
62)	Dibromochloromethane	12.66	129	164895	12.11	ug/l		99
63)	1,2-Dibromoethane	13.02	107	113015	10.43	ug/l		98
64)	1-Chlorohexane	13.30	91	463834	10.69	ug/l		99
65)	Chlorobenzene	13.77	112	633775	11.40	ug/l		98
66)	1,1,1,2-Tetrachloroethane	13.86	131	223067	13.14	ug/l		95
67)	Ethylbenzene	13.88	91	1268323	11.54	ug/l		99
68)	m-Xylene & p-Xylene	14.01	91	1837737	21.17	ug/l		97
69)	o-Xylene	14.82	91	1434566	16.73	ug/l		99
70)	Styrene	14.90	104	1088359	17.36	ug/l		99
71)	Isopropylbenzene	15.52	105	1970890	16.94	ug/l		98
73)	Bromoform	15.55	173	111384	9.99	ug/l		100
74)	trans-1,4-Dichloro-2-buten	15.62	53	52393	8.77	ug/l		88
75)	1,1,2,2-Tetrachloroethane	15.85	83	211893	10.34	ug/l		100
77)	1,2,3-Trichloropropane	16.14	110	57446	9.98	ug/l		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV069.D Vial: 2
Acq On : 6 Nov 2024 8:11 am Operator: DNguye/CLingl
Sample : CVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 8:33 2024 Quant Results File: VO01J12.RES

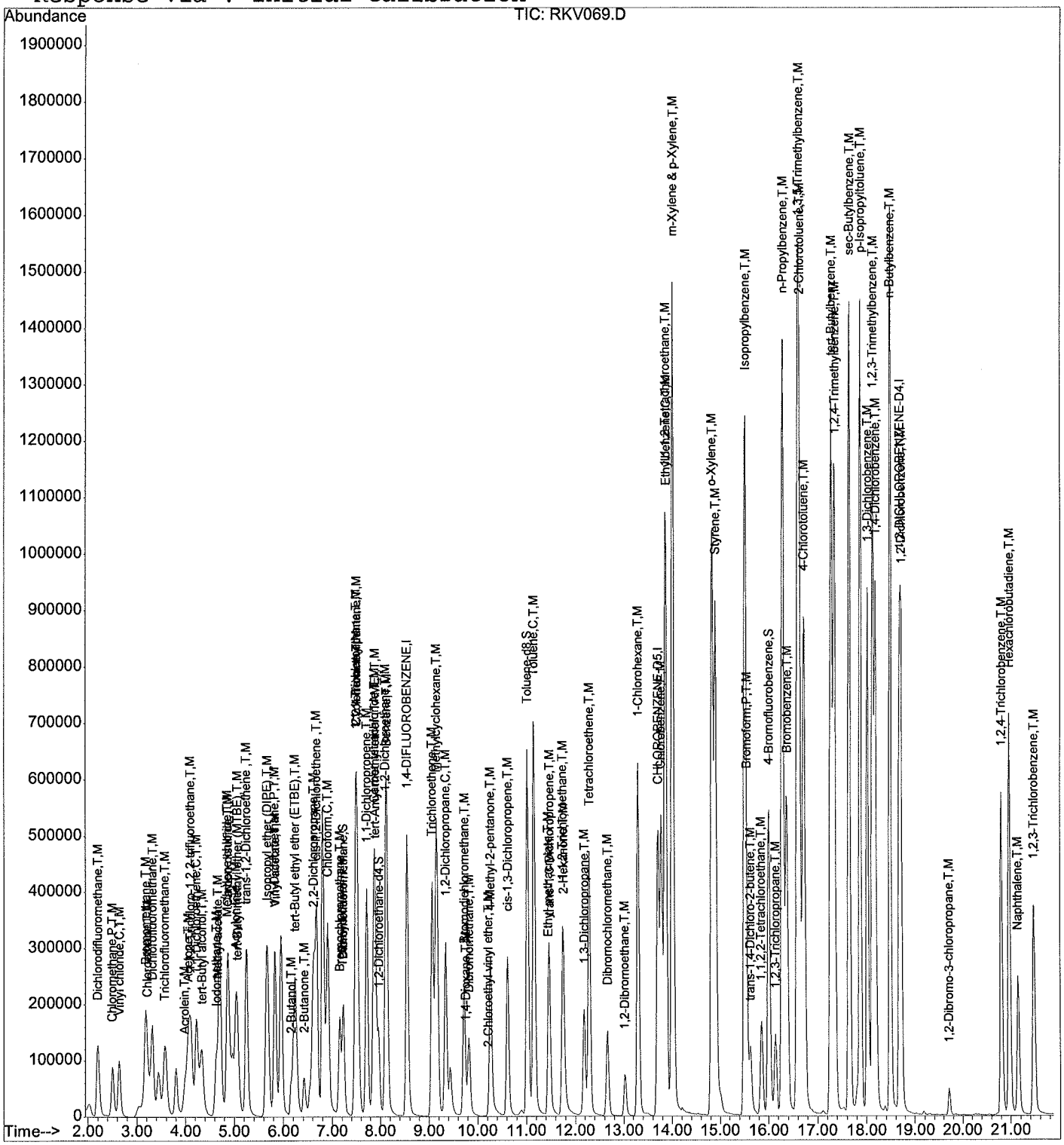
Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.29	91	2438987	10.61	ug/l	97
79)	Bromobenzene	16.38	156	378792	11.37	ug/l	98
80)	1,3,5-Trimethylbenzene	16.60	105	1458796	10.25	ug/l	95
81)	2-Chlorotoluene	16.63	91	1428000	10.22	ug/l	95
82)	4-Chlorotoluene	16.72	91	1298753	10.42	ug/l	96
83)	tert-Butylbenzene	17.28	134	378781	11.81	ug/l	92
84)	1,2,4-Trimethylbenzene	17.36	105	1409324	10.13	ug/l	95
85)	sec-Butylbenzene	17.65	105	2129919	10.63	ug/l	96
86)	p-Isopropyltoluene	17.87	119	1669202	10.68	ug/l	97
87)	1,3-Dichlorobenzene	18.02	146	775197	11.58	ug/l	97
88)	1,2,3-Trimethylbenzene	18.13	105	1285529	10.15	ug/l	96
89)	1,4-Dichlorobenzene	18.18	146	738837	11.10	ug/l	96
90)	n-Butylbenzene	18.48	91	1669214	9.76	ug/l	98
91)	1,2-Dichlorobenzene	18.72	146	617623	11.31	ug/l	99
92)	1,2-Dibromo-3-chloropropan	19.71	157	29081	10.62	ug/l	95
93)	1,2,4-Trichlorobenzene	20.81	180	393534	10.64	ug/l	99
94)	Hexachlorobutadiene	20.97	225	287680	12.14	ug/l	98
95)	Naphthalene	21.15	128	439824	9.66	ug/l	99
96)	1,2,3-Trichlorobenzene	21.47	180	289801	10.81	ug/l	95

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K06\RKV069.D Vial: 2
Acq On : 6 Nov 2024 8:11 am Operator: DNguye/CLing
Sample : CVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 8:33 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D Vial: 23
Acq On : 6 Nov 2024 6:33 pm Operator: DNguye/CLingl
Sample : EVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	84	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	11.304	-13.0	86	-0.07
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	9.688	3.1	74	-0.07
6	C,T,M	Vinyl chloride	10.000	10.901	-9.0	85	-0.07
7	T,M	Bromomethane	10.000	11.348	-13.5	101	-0.07
8	T,M	Chloroethane	10.000	10.592	-5.9	86	-0.04
9	T,M	Dichlorofluoromethane	10.000	12.304	-23.0#	127	-0.06
10	T,M	Trichlorofluoromethane	10.000	13.320	-33.2#	104	-0.06
11	T,M	Acrolein	50.000	55.068	-10.1	90	-0.01
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	14.498	-45.0#	127	-0.04
13	T,M	Acetone	50.000	56.453	-12.9	93	-0.01
14	C,T,M	1,1-Dichloroethene	10.000	10.644	-6.4	95	-0.02
15	T,M	tert-Butyl alcohol	250.000	283.633	-13.5	91	-0.03
16	T,M	Iodomethane	10.000	11.965	-19.6	107	-0.03
17	T,M	Methyl acetate	10.000	10.049	-0.5	82	-0.02
18	T,M	Methylene chloride	10.000	10.755	-7.6	98	-0.03
19	T,M	Carbon disulfide	10.000	10.379	-3.8	84	-0.03
20	T,M	Acrylonitrile	50.000	54.445	-8.9	87	-0.01
21	T,M	tert-Butyl methyl ether (MT	10.000	12.037	-20.4#	99	-0.02
22	T,M	trans-1,2-Dichloroethene	10.000	10.390	-3.9	94	-0.03
23	T,M	Isopropyl ether (DIPE)	10.000	10.253	-2.5	92	-0.02
24	T,M	Vinyl acetate	10.000	10.252	-2.5	74	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	11.451	-14.5	103	0.00
26	T,M	2-Butanol	250.000	319.871	-27.9#	100	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.871	-8.7	94	-0.02
28	T,M	2-Butanone	50.000	49.175	1.7	79	-0.01
29	T,M	2,2-Dichloropropane	10.000	13.012	-30.1#	116	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	11.423	-14.2	102	-0.02
31	C,T,M	Chloroform	10.000	12.306	-23.1#	114	-0.02
32	T,M	Bromochloromethane	10.000	10.241	-2.4	88	0.00
33	T,M	Tetrahydrofuran	10.000	10.150	-1.5	88	-0.01
34	S	Dibromofluoromethane	10.000	11.071	-10.7	95	0.00
35	T,M	1,1,1-Trichloroethane	10.000	12.452	-24.5#	109	0.00
36	T,M	Cyclohexane	10.000	10.311	-3.1	86	-0.01
37	T,M	2,2,4-Trimethylpentane	10.000	9.278	7.2	79	-0.01
38	T,M	1,1-Dichloropropene	10.000	11.149	-11.5	99	0.00
39	T,M	Carbon tetrachloride	10.000	13.324	-33.2#	115	-0.02
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.986	-9.9	96	-0.02
41	S	1,2-Dichloroethane-d4	10.000	10.922	-9.2	90	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D Vial: 23
Acq On : 6 Nov 2024 6:33 pm Operator: DNguye/CLingl
Sample : EVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	11.071	-10.7	101	-0.02
43	T,M	1,2-Dichloroethane	10.000	12.568	-25.7#	100	0.00
44	T,M	Trichloroethene	10.000	11.849	-18.5	107	0.00
45	T,M	Methylcyclohexane	10.000	10.459	-4.6	91	0.00
46	C,T,M	1,2-Dichloropropane	10.000	11.039	-10.4	99	0.00
47	T,M	Bromodichloromethane	10.000	12.151	-21.5#	106	0.00
48	T,M	1,4-Dioxane	200.000	194.585	2.7	79	0.00
49	T,M	Dibromomethane	10.000	11.888	-18.9	99	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	14.989	-49.9#	149	0.00
51	T,M	4-Methyl-2-pentanone	50.000	53.762	-7.5	79	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	11.816	-18.2	100	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	86	0.00
54	S	Toluene-d8	10.000	10.250	-2.5	90	0.00
55	C,T,M	Toluene	10.000	10.923	-9.2	99	0.00
56	T,M	Ethyl methacrylate	10.000	11.623	-16.2	90	0.01
57	T,M	trans-1,3-Dichloropropene	10.000	12.369	-23.7#	100	0.00
58	T,M	1,1,2-Trichloroethane	10.000	12.118	-21.2#	100	0.00
59	T,M	2-Hexanone	50.000	51.187	-2.4	77	0.00
60	T,M	1,3-Dichloropropane	10.000	11.649	-16.5	99	0.00
61	T,M	Tetrachloroethene	10.000	11.463	-14.6	107	0.01
62	T,M	Dibromochloromethane	10.000	12.816	-28.2#	108	0.00
63	T,M	1,2-Dibromoethane	10.000	11.487	-14.9	95	0.00
64	T,M	1-Chlorohexane	10.000	10.357	-3.6	96	0.00
65	P,M	Chlorobenzene	10.000	11.417	-14.2	105	0.00
66	T,M	1,1,1,2-Tetrachloroethane	10.000	13.241	-32.4#	118	0.00
67	C,T,M	Ethylbenzene	10.000	11.484	-14.8	103	0.00
68	T,M	m-Xylene & p-Xylene	20.000	21.519	-7.6	105	0.00
69	T,M	o-Xylene	10.000	14.731	-47.3#	119	0.00
70	T,M	Styrene	10.000	15.085	-50.9#	118	0.01
71	T,M	Isopropylbenzene	10.000	16.842	-68.4#	139	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	123	0.00
73	P,T,M	Bromoform	10.000	10.800	-8.0	142	0.01
74	T,M	trans-1,4-Dichloro-2-butene	10.000	9.253	7.5	105	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	11.481	-14.8	129	0.00
76	S	4-Bromofluorobenzene	10.000	9.686	3.1	120	0.01
77	T,M	1,2,3-Trichloropropane	10.000	10.949	-9.5	125	0.00
78	T,M	n-Propylbenzene	10.000	10.283	-2.8	133	0.00
79	T,M	Bromobenzene	10.000	11.939	-19.4	155	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	10.509	-5.1	138	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D Vial: 23
Acq On : 6 Nov 2024 6:33 pm Operator: DNguye/CLingl
Sample : EVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	10.155	-1.5	134	0.00
82	T,M	4-Chlorotoluene	10.000	10.600	-6.0	140	0.00
83	T,M	tert-Butylbenzene	10.000	11.877	-18.8	153	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	10.524	-5.2	136	0.00
85	T,M	sec-Butylbenzene	10.000	10.703	-7.0	135	0.00
86	T,M	p-Isopropyltoluene	10.000	10.519	-5.2	137	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.651	-16.5	151	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.140	-1.4	131	0.00
89	T,M	1,4-Dichlorobenzene	10.000	11.104	-11.0	149	0.00
90	T,M	n-Butylbenzene	10.000	9.483	5.2	129	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.382	-13.8	148	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	11.186	-11.9	129	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	11.456	-14.6	149	0.00
94	T,M	Hexachlorobutadiene	10.000	12.081	-20.8#	161	0.01
95	T,M	Naphthalene	10.000	11.175	-11.8	131	0.01
96	T,M	1,2,3-Trichlorobenzene	10.000	12.022	-20.2#	149	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D Vial: 23
Acq On : 6 Nov 2024 6:33 pm Operator: DNguye/CLingl
Sample : EVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	84	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.464	-12.9	86	-0.07
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.300	3.2	74	-0.07
6	C,T,M	Vinyl chloride	0.273	0.298	-9.2	85	-0.07
7	T,M	Bromomethane	0.197	0.224	-13.7	101	-0.07
8	T,M	Chloroethane	0.207	0.219	-5.8	86	-0.04
9	T,M	Dichlorofluoromethane	0.380	0.467	-22.9#	127	-0.06
10	T,M	Trichlorofluoromethane	0.445	0.592	-33.0#	104	-0.06
11	T,M	Acrolein	0.008	0.008	0.0	90	-0.01
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.265	-44.8#	127	-0.04
13	T,M	Acetone	0.037	0.042	-13.5	93	-0.01
14	C,T,M	1,1-Dichloroethene	0.467	0.497	-6.4	95	-0.02
15	T,M	tert-Butyl alcohol	0.009	0.010	-11.1	91	-0.03
16	T,M	Iodomethane	0.396	0.474	-19.7	107	-0.03
17	T,M	Methyl acetate	0.095	0.096	-1.1	82	-0.02
18	T,M	Methylene chloride	0.336	0.362	-7.7	98	-0.03
19	T,M	Carbon disulfide	0.976	1.013	-3.8	84	-0.03
20	T,M	Acrylonitrile	0.035	0.038	-8.6	87	-0.01
21	T,M	tert-Butyl methyl ether (MT	0.462	0.556	-20.3#	99	-0.02
22	T,M	trans-1,2-Dichloroethene	0.448	0.466	-4.0	94	-0.03
23	T,M	Isopropyl ether (DIPE)	0.938	0.962	-2.6	92	-0.02
24	T,M	Vinyl acetate	0.300	0.308	-2.7	74	-0.02
25	P,T,M	1,1-Dichloroethane	0.525	0.602	-14.7	103	0.00
26	T,M	2-Butanol	0.008	0.010	-25.0#	100	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.741	-8.7	94	-0.02
28	T,M	2-Butanone	0.057	0.056	1.8	79	-0.01
29	T,M	2,2-Dichloropropane	0.449	0.585	-30.3#	116	-0.02
30	T,M	cis-1,2-Dichloroethene	0.322	0.368	-14.3	102	-0.02
31	C,T,M	Chloroform	0.535	0.659	-23.2#	114	-0.02
32	T,M	Bromochloromethane	0.199	0.204	-2.5	88	0.00
33	T,M	Tetrahydrofuran	0.031	0.032	-3.2	88	-0.01
34	S	Dibromofluoromethane	0.261	0.289	-10.7	95	0.00
35	T,M	1,1,1-Trichloroethane	0.481	0.599	-24.5#	109	0.00
36	T,M	Cyclohexane	0.496	0.512	-3.2	86	-0.01
37	T,M	2,2,4-Trimethylpentane	0.024	0.022	8.3	79	-0.01
38	T,M	1,1-Dichloropropene	0.146	0.162	-11.0	99	0.00
39	T,M	Carbon tetrachloride	0.364	0.485	-33.2#	115	-0.02
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.576	-9.9	96	-0.02
41	S	1,2-Dichloroethane-d4	0.230	0.251	-9.1	90	-0.01

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D Vial: 23
Acq On : 6 Nov 2024 6:33 pm Operator: DNguye/CLingl
Sample : EVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.268	-10.7	101	-0.02
43	T,M	1,2-Dichloroethane	0.255	0.321	-25.9#	100	0.00
44	T,M	Trichloroethene	0.303	0.359	-18.5	107	0.00
45	T,M	Methylcyclohexane	0.587	0.614	-4.6	91	0.00
46	C,T,M	1,2-Dichloropropane	0.258	0.284	-10.1	99	0.00
47	T,M	Bromodichloromethane	0.353	0.429	-21.5#	106	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	79	0.00
49	T,M	Dibromomethane	0.112	0.133	-18.8	99	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.030	-87.5#	149	0.00
51	T,M	4-Methyl-2-pentanone	0.127	0.136	-7.1	79	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.457	-18.4	100	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	86	0.00
54	S	Toluene-d8	1.375	1.410	-2.5	90	0.00
55	C,T,M	Toluene	1.585	1.731	-9.2	99	0.00
56	T,M	Ethyl methacrylate	0.227	0.264	-16.3	90	0.01
57	T,M	trans-1,3-Dichloropropene	0.359	0.444	-23.7#	100	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.236	-21.0#	100	0.00
59	T,M	2-Hexanone	0.104	0.106	-1.9	77	0.00
60	T,M	1,3-Dichloropropane	0.368	0.428	-16.3	99	0.00
61	T,M	Tetrachloroethene	0.343	0.393	-14.6	107	0.01
62	T,M	Dibromochloromethane	0.232	0.298	-28.4#	108	0.00
63	T,M	1,2-Dibromoethane	0.185	0.212	-14.6	95	0.00
64	T,M	1-Chlorohexane	0.740	0.767	-3.6	96	0.00
65	P,M	Chlorobenzene	0.949	1.083	-14.1	105	0.00
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.384	-32.4#	118	0.00
67	C,T,M	Ethylbenzene	1.875	2.153	-14.8	103	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.594	-7.6	105	0.00
69	T,M	o-Xylene	1.463	2.155	-47.3#	119	0.00
70	T,M	Styrene	1.070	1.614	-50.8#	118	0.01
71	T,M	Isopropylbenzene	1.986	3.345	-68.4#	139	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	123	0.00
73	P,T,M	Bromoform	0.246	0.311	-26.4#	142	0.01
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.142	7.8	105	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.606	-14.8	129	0.00
76	S	4-Bromofluorobenzene	1.184	1.147	3.1	120	0.01
77	T,M	1,2,3-Trichloropropane	0.148	0.162	-9.5	125	0.00
78	T,M	n-Propylbenzene	5.921	6.089	-2.8	133	0.00
79	T,M	Bromobenzene	0.858	1.024	-19.3	155	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.850	-5.1	138	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D Vial: 23
Acq On : 6 Nov 2024 6:33 pm Operator: DNguye/CLingl
Sample : EVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.654	-1.6	134	0.00
82	T,M	4-Chlorotoluene	3.211	3.404	-6.0	140	0.00
83	T,M	tert-Butylbenzene	0.826	0.981	-18.8	153	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.770	-5.2	136	0.00
85	T,M	sec-Butylbenzene	5.158	5.521	-7.0	135	0.00
86	T,M	p-Isopropyltoluene	4.024	4.233	-5.2	137	0.00
87	T,M	1,3-Dichlorobenzene	1.724	2.009	-16.5	151	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.307	-1.4	131	0.00
89	T,M	1,4-Dichlorobenzene	1.713	1.902	-11.0	149	0.00
90	T,M	n-Butylbenzene	4.403	4.175	5.2	129	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.601	-13.9	148	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.079	-11.3	129	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	1.091	-14.6	149	0.00
94	T,M	Hexachlorobutadiene	0.610	0.737	-20.8#	161	0.01
95	T,M	Naphthalene	1.172	1.310	-11.8	131	0.01
96	T,M	1,2,3-Trichlorobenzene	0.690	0.830	-20.3#	149	0.00

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D Vial: 23
Acq On : 6 Nov 2024 6:33 pm Operator: DNguye/CLingl
Sample : EVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 16:31 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	741593	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	590528	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	390353	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	214460	11.07	ug/l	0.00
Spiked Amount 10.000			Recovery = 110.70%			
41) 1,2-Dichloroethane-d4	7.95	65	186369	10.92	ug/l	-0.01
Spiked Amount 10.000			Recovery = 109.20%			
54) Toluene-d8	11.02	98	832431	10.25	ug/l	0.00
Spiked Amount 10.000			Recovery = 102.50%			
76) 4-Bromofluorobenzene	15.99	95	447659	9.69	ug/l	0.01
Spiked Amount 10.000			Recovery = 96.90%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.19	85	344329	11.30	ug/l	99
5) Chloromethane	2.50	50	222723	9.69	ug/l	100
6) Vinyl chloride	2.63	62	221003	10.90	ug/l	100
7) Bromomethane	3.17	94	165911m	11.35	ug/l	
8) Chloroethane	3.20	64	162772	10.59	ug/l	99
9) Dichlorofluoromethane	3.30	67	346391	12.30	ug/l	100
10) Trichlorofluoromethane	3.57	101	439319	13.32	ug/l	96
11) Acrolein	4.00	56	31222	55.07	ug/l	91
12) 1,1,2-Trichloro-1,2,2-trif	4.10	151	196880	14.50	ug/l	98
13) Acetone	4.07	43	154593	56.45	ug/l	96
14) 1,1-Dichloroethene	4.24	61	368283	10.64	ug/l	98
15) tert-Butyl alcohol	4.34	59	194321	283.63	ug/l	99
16) Iodomethane	4.64	142	351684	11.96	ug/l	100
17) Methyl acetate	4.66	43	70980	10.05	ug/l	95
18) Methylene chloride	4.86	49	268227	10.75	ug/l	90
19) Carbon disulfide	4.87	76	751125	10.38	ug/l	100
20) Acrylonitrile	5.04	53	140051	54.44	ug/l	99
21) tert-Butyl methyl ether (M	5.06	73	412420	12.04	ug/l	98
22) trans-1,2-Dichloroethene	5.24	61	345259	10.39	ug/l	97
23) Isopropyl ether (DIPE)	5.67	45	713386	10.25	ug/l	92
24) Vinyl acetate	5.83	43	228262	10.25	ug/l	94
25) 1,1-Dichloroethane	5.83	63	446189	11.45	ug/l	99
26) 2-Butanol	6.15	45	183632	319.87	ug/l	91
27) tert-Butyl ethyl ether (ET	6.23	59	549885	10.87	ug/l	96
28) 2-Butanone	6.41	43	206497	49.18	ug/l	92
29) 2,2-Dichloropropane	6.62	77	433712	13.01	ug/l	99
30) cis-1,2-Dichloroethene	6.68	96	272607	11.42	ug/l	99

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D Vial: 23
Acq On : 6 Nov 2024 6:33 pm Operator: DNguye/CLingl
Sample : EVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 16:31 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.90	83	488700	12.31	ug/l		98
32)	Bromochloromethane	7.15	49	151232	10.24	ug/l		84
33)	Tetrahydrofuran	7.20	42	23685	10.15	ug/l		92
35)	1,1,1-Trichloroethane	7.49	97	444044	12.45	ug/l		99
36)	Cyclohexane	7.51	84	379398	10.31	ug/l		100
37)	2,2,4-Trimethylpentane	7.51	57	16517	9.28	ug/l	#	100
38)	1,1-Dichloropropene	7.72	110	120391	11.15	ug/l		99
39)	Carbon tetrachloride	7.86	119	359766	13.32	ug/l		96
40)	tert-Amyl methyl ether (TA	7.88	73	427121	10.99	ug/l		99
42)	Benzene	8.12	78	940103	11.07	ug/l		98
43)	1,2-Dichloroethane	8.10	62	237873	12.57	ug/l		97
44)	Trichloroethene	9.06	130	266092	11.85	ug/l		96
45)	Methylcyclohexane	9.15	83	455167	10.46	ug/l		95
46)	1,2-Dichloropropane	9.34	63	210950	11.04	ug/l		90
47)	Bromodichloromethane	9.71	83	317779	12.15	ug/l		99
48)	1,4-Dioxane	9.76	88	14215	194.59	ug/l		99
49)	Dibromomethane	9.80	93	98676	11.89	ug/l		97
50)	2-Chloroethyl vinyl ether	10.22	63	22246	14.99	ug/l		93
51)	4-Methyl-2-pentanone	10.25	43	504792	53.76	ug/l		96
52)	cis-1,3-Dichloropropene	10.60	75	338549	11.82	ug/l		98
55)	Toluene	11.15	91	1022280	10.92	ug/l		99
56)	Ethyl methacrylate	11.45	69	155817	11.62	ug/l		92
57)	trans-1,3-Dichloropropene	11.46	75	262173	12.37	ug/l		98
58)	1,1,2-Trichloroethane	11.73	97	139614	12.12	ug/l		99
59)	2-Hexanone	11.74	43	313461	51.19	ug/l		95
60)	1,3-Dichloropropane	12.17	76	252825	11.65	ug/l		100
61)	Tetrachloroethene	12.29	164	231856	11.46	ug/l		98
62)	Dibromochloromethane	12.65	129	175908	12.82	ug/l		99
63)	1,2-Dibromoethane	13.02	107	125416	11.49	ug/l		98
64)	1-Chlorohexane	13.28	91	452903	10.36	ug/l		100
65)	Chlorobenzene	13.77	112	639724	11.42	ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	226543	13.24	ug/l		99
67)	Ethylbenzene	13.86	91	1271670	11.48	ug/l		100
68)	m-Xylene & p-Xylene	13.99	91	1882134	21.52	ug/l		98
69)	o-Xylene	14.82	91	1272458	14.73	ug/l		99
70)	Styrene	14.90	104	953098	15.08	ug/l		100
71)	Isopropylbenzene	15.50	105	1975058	16.84	ug/l		98
73)	Bromoform	15.55	173	121298	10.80	ug/l		98
74)	trans-1,4-Dichloro-2-buten	15.61	53	55571	9.25	ug/l		87
75)	1,1,2,2-Tetrachloroethane	15.84	83	236555	11.48	ug/l		99
77)	1,2,3-Trichloropropane	16.13	110	63329	10.95	ug/l		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D Vial: 23
Acq On : 6 Nov 2024 6:33 pm Operator: DNguye/CLingl
Sample : EVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 16:31 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

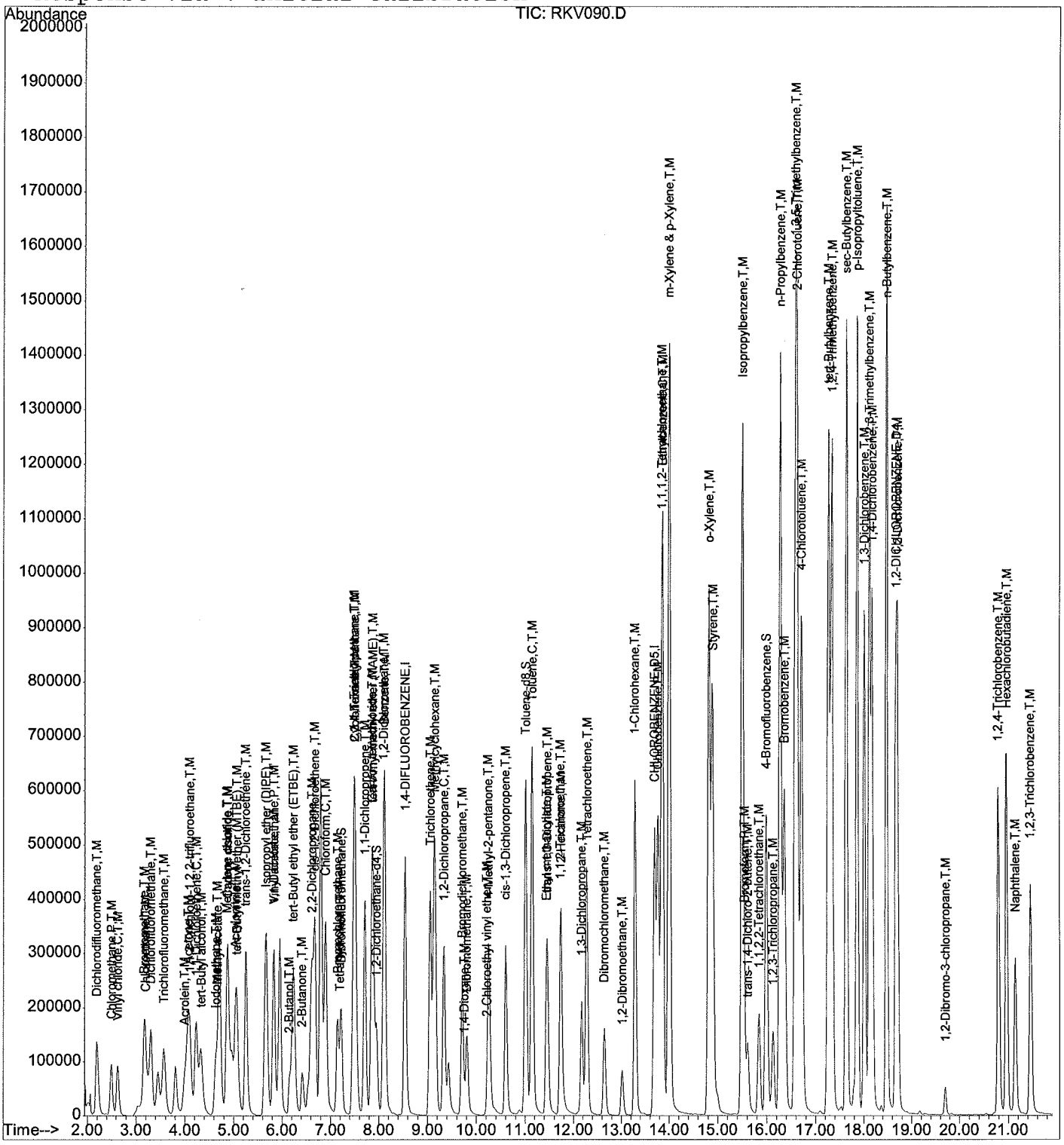
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78)	n-Propylbenzene	16.27	91	2376946	10.28 ug/l	97
79)	Bromobenzene	16.36	156	399712	11.94 ug/l	100
80)	1,3,5-Trimethylbenzene	16.59	105	1502706	10.51 ug/l	97
81)	2-Chlorotoluene	16.61	91	1426476	10.16 ug/l	90
82)	4-Chlorotoluene	16.70	91	1328625	10.60 ug/l	98
83)	tert-Butylbenzene	17.27	134	382799	11.88 ug/l	90
84)	1,2,4-Trimethylbenzene	17.34	105	1471796	10.52 ug/l	97
85)	sec-Butylbenzene	17.64	105	2155126	10.70 ug/l	96
86)	p-Isopropyltoluene	17.86	119	1652456	10.52 ug/l	96
87)	1,3-Dichlorobenzene	18.01	146	784131	11.65 ug/l	96
88)	1,2,3-Trimethylbenzene	18.11	105	1290871	10.14 ug/l	97
89)	1,4-Dichlorobenzene	18.17	146	742602	11.10 ug/l	96
90)	n-Butylbenzene	18.48	91	1629916	9.48 ug/l	97
91)	1,2-Dichlorobenzene	18.70	146	624840	11.38 ug/l	98
92)	1,2-Dibromo-3-chloropropan	19.71	157	30794	11.19 ug/l	98
93)	1,2,4-Trichlorobenzene	20.79	180	425745	11.46 ug/l	99
94)	Hexachlorobutadiene	20.97	225	287787	12.08 ug/l	98
95)	Naphthalene	21.15	128	511259	11.18 ug/l	98
96)	1,2,3-Trichlorobenzene	21.46	180	323819	12.02 ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D Vial: 23
Acq On : 6 Nov 2024 6:33 pm Operator: DNguye/CLing
Sample : EVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 16:31 2024 Quant Results File: VO01J12.RES

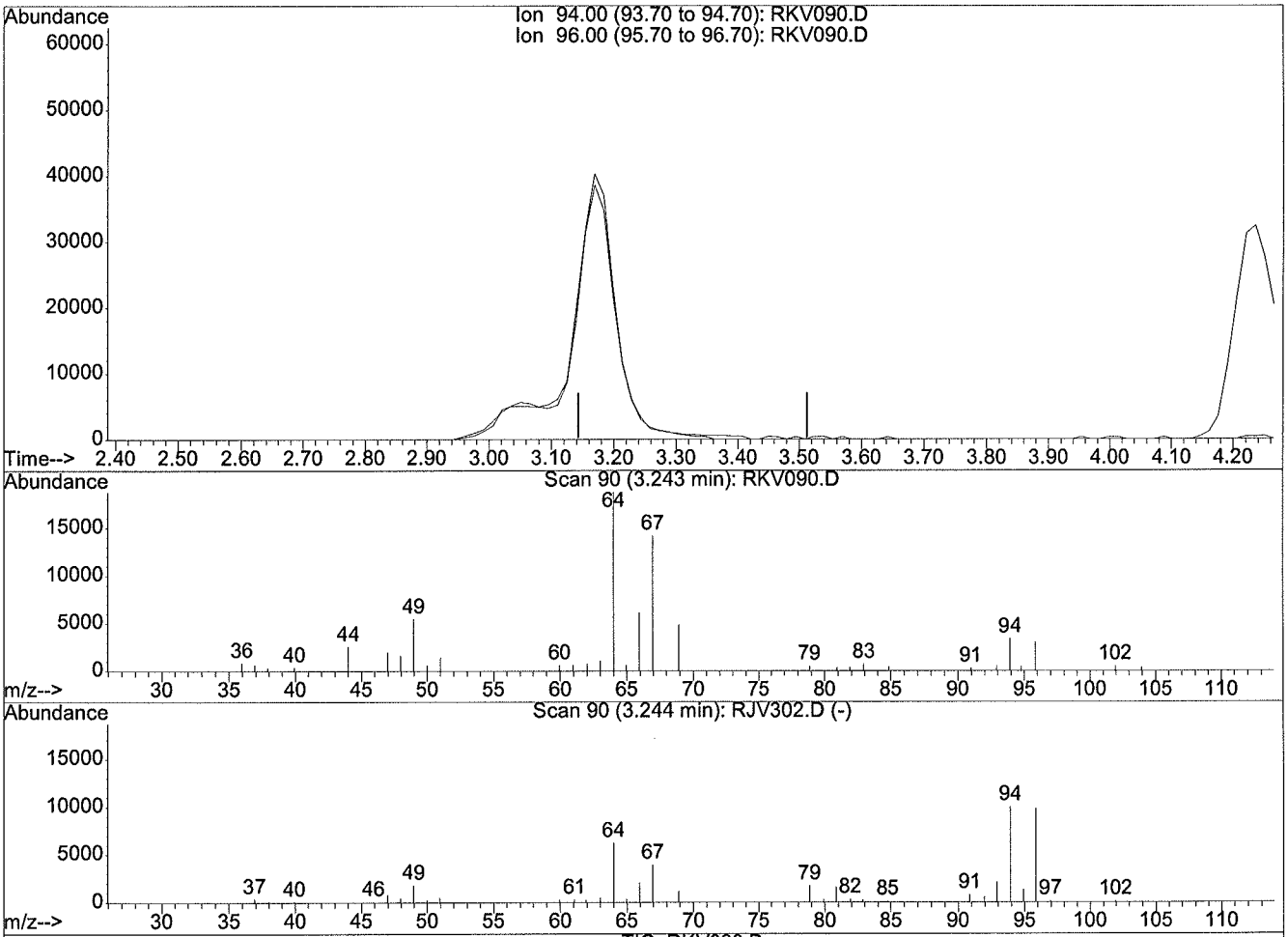
Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D Vial: 23
Acq On : 6 Nov 2024 6:33 pm Operator: DNguye/CLi
Sample : EVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 18:55 2024 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration



TIC: RKV090.D

(7) Bromomethane (T,M)

3.24min 0.00ug/l

response 0

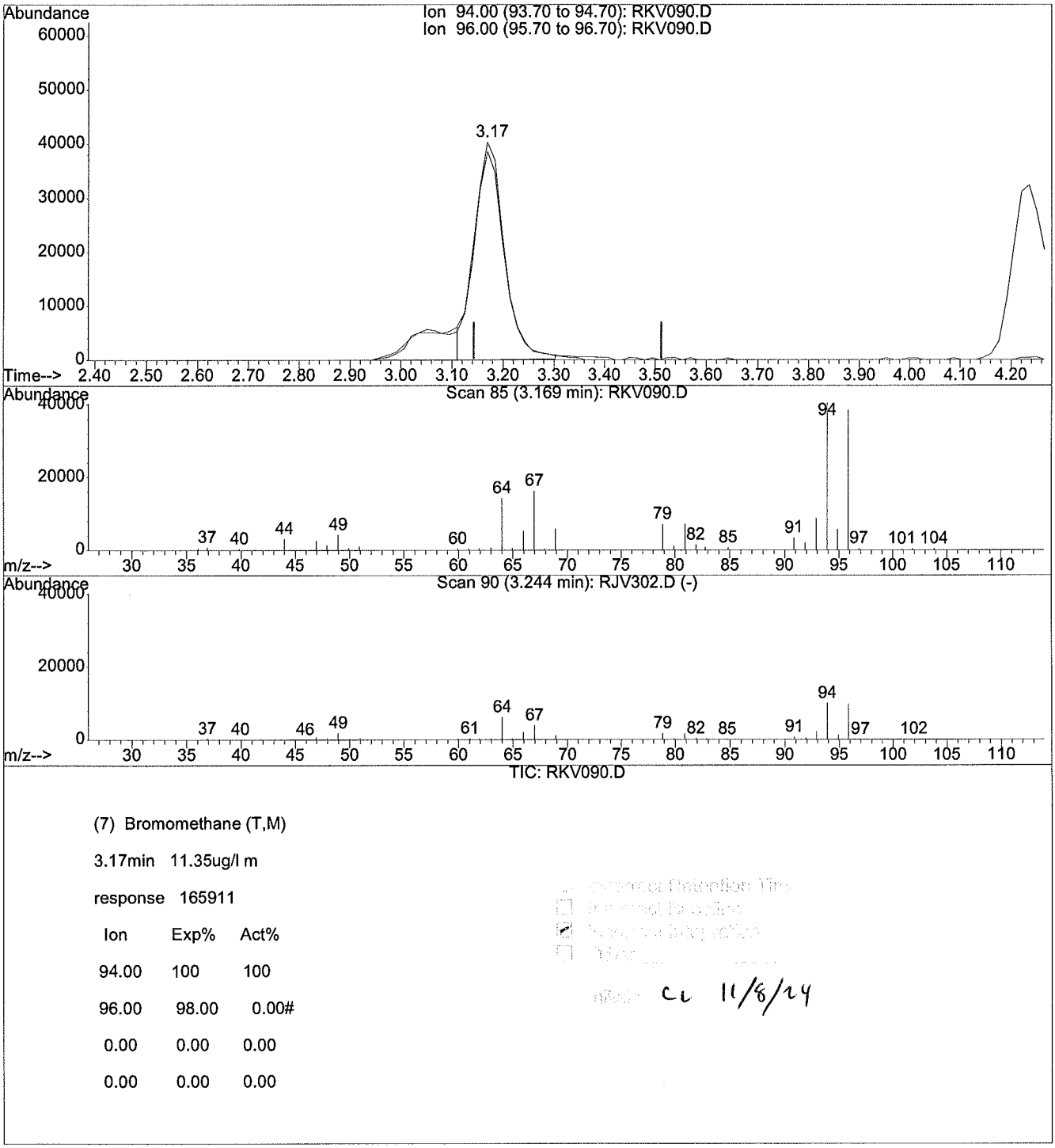
Ion	Exp%	Act%
94.00	100	0.00
96.00	98.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

RKV090.D VO01J12.M Fri Nov 08 16:31:48 2024

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\24K06\RKV090.D Vial: 23
Acq On : 6 Nov 2024 6:33 pm Operator: DNguye/CLi
Sample : EVO01J1222 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 16:31 2024 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration



TIC: RKV090.D

(7) Bromomethane (T,M)

3.17min 11.35ug/l m

response 165911

Ion	Exp%	Act%
94.00	100	100
96.00	98.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

CL 11/8/24

RKV090.D VO01J12.M Fri Nov 08 16:31:55 2024

ANALYTICAL LOGS

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments: * Varied Amounts

Book #: A01-077
Instrument No.: 01
Analytical Sequence: 24J12
Method File: V001J12
Analytical Batch: V001J126

INITIAL CALIBRATION REFERENCE			
DATE	10/12/24		
ICAL ID	V001J12		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC	SVI-45-36-03 -37-01	*	50 250
DCC	-32-02		250
DCC	-32-03		50
DCC	-40-02	↓	250
BFB	-41-03	1	50
IS/SURR.	SVI-45-37-02 -37-03	1 *	250 250
ICV/LCS	-35-01	1	250
ICV/LCS	-34-03	1	250
ICV/LCS	-26-03 -21-03	5 5	50 250
ICV/LCS	-43-01	5	50
Data File Folder	24J12		
	LOT #	Syringe Lot #	
pH strip	N/A	MSV-03-04-12-4	
Chlorine strip	↓	-6	
Methanol		-03-23	
$NaHSO_4$		-02-24	
Reagent Water	RW3-23-001		
Sand			

SOP #
☑ EMAX-8260 Rev. No. 10
☐ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1
PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☑ 25-mL Purge
SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☐ Water
☐ pH <2. Outliers indicated on analytical sequence.
☐ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☑ pH <2 and Cl2 are not applicable.

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO01	

Analyzed By: [signature]
Date: 10/12/24
Disposed By: [signature]
Date Disposed: 10/13/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24J12

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RJV296.D	1.	BFB01J13	T/CHK	12 Oct 2024 12:56
2	2	RJV297.D	1.	VO01J121 0.03/0.15	0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA	12 Oct 2024 13:38
3	3	RJV298.D	1.	VO01J122 0.05/0.25	0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA	12 Oct 2024 14:08
4	4	RJV299.D	1.	VO01J123 0.1/0.5	1ppb 8260/5ppb KET-AA/25ppb TBA	12 Oct 2024 14:39
5	5	RJV300.D	1.	VO01J124 0.2/1.0	2ppb 8260/10ppb KET-AA/50ppb TBA	12 Oct 2024 15:09
6	6	RJV301.D	1.	VO01J125 0.5/2.5	5ppb 8260/25ppb KET-AA/125ppb TBA	12 Oct 2024 15:39
7	7	RJV302.D	1.	VO01J126 1.0/5.0	10ppb 8260/50ppb KET-AA/250ppb TBA	12 Oct 2024 16:08
8	8	RJV303.D	1.	VO01J127 2.0/10	20ppb 8260/100ppb KET-AA/500ppb TBA	12 Oct 2024 16:38
9	9	RJV304.D	1.	VO01J128 5.0/25	50ppb 8260/250ppb KET-AA/1250ppb TBA	12 Oct 2024 17:08
10	10	RJV305.D	1.	VO01J129 3.0/15	30ppb 8260/150ppb KET-AA/750ppb TBA	12 Oct 2024 17:38
11	11	RJV306.D	1.	VO01J1210 10/50	100ppb 8260/500ppb KET-AA/2500ppb TBA	12 Oct 2024 18:07
12	12	RJV307.D	1.	RINSE		12 Oct 2024 18:37
13	13	RJV308.D	1.	RINSE		12 Oct 2024 19:07
14	14	RJV309.D	1.	IVO01J1201 1.0/5.0	10ppb 8260/50ppb KET-AA/250ppb TBA	12 Oct 2024 19:36
15	15	RJV310.D	1.	RINSE		12 Oct 2024 20:06
16	16	RJV311.D	1.	LOD1	0.2ppb 8260/4.0ppb KET-AA/5.0ppb TBA	12 Oct 2024 20:36
17	17	RJV312.D	1.	LOD2	0.3ppb 8260/4.0ppb KET-AA/5.0ppb TBA	12 Oct 2024 21:05

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #:	A01-077
Instrument No :	01
Analytical Sequence:	24KOH
Method File:	V001J12
Analytical Batch:	CV001J1220

SOP #
☐ EMAX-8260 Rev. No. 10
☐ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1
PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☐ 25-mL Purge
SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☐ Water
☐ pH <2. Outliers indicated on analytical sequence.
☐ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐ pH <2 and Cl2 are not applicable.

INITIAL CALIBRATION REFERENCE			
DATE	10/12/24		
ICAL ID	VO01J12		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC	SV1-45-36-03	1	
DCC	-37-01	1	
DCC	~~-26-03~~ -32-02	1 5	
DCC	-32-03 -40-03	5	
BFB	-41-03	1	50/250
IS/SURR.	-29-03	5	
ICV/LCS	-35-01	1	
ICV/LCS	-34-03	1	
ICV/LCS	-26-03 -21-03	5 5	
ICV/LCS	-43-01	5	
Data File Folder	24KOH		
	LOT #	Syringe Lot #	
pH strip	HC443 A9 75	MSV-03-09-12-4	
Chlorine strip	30119 02	↓ 6	
Methanol			
$NaHSO_4$			
Reagent Water	RW 3-23-01		
Sand			

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO01	

Analyzed By: CL/DM

Date: 11/14/24

Disposed By: CL

Date Disposed: 11/5/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24K04

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RKV026.D	1.	BFB01K02	25mL	4 Nov 2024 16:49
2	2	RKV027.D	1.	CVO01J1220	10ppb 8260/50ppb KET-AA/250ppb TBA	4 Nov 2024 17:28
3	3	RKV028.D	1.	VO01K02L	10ppb 8260/50ppb KET-AA/250ppb TBA	4 Nov 2024 17:58
4	4	RKV029.D	1.	VO01K02C	10ppb 8260/50ppb KET-AA/250ppb TBA	4 Nov 2024 18:27
5	5	RKV030.D	1.	RINSE	25mL	4 Nov 2024 18:56
6	6	RKV031.D	1.	VO01K02B	25mL	4 Nov 2024 19:26
7	7	RKV032.D	1.	24J169-05	25mL	4 Nov 2024 19:55
8	8	RKV033.D	1.	24J169-06	25mL	4 Nov 2024 20:24
9	9	RKV034.D	1.	24J169-07	25mL	4 Nov 2024 20:53
10	10	RKV035.D	1.	24J169-08	25mL	4 Nov 2024 21:22
11	11	RKV036.D	1.	24J169-09	25mL	4 Nov 2024 21:51
12	12	RKV037.D	1.	24J169-10	25mL	4 Nov 2024 22:20
13	13	RKV038.D	1.	24J168-07	25mL	4 Nov 2024 22:49
14	14	RKV039.D	1.	24J168-08	25mL	4 Nov 2024 23:17
15	15	RKV040.D	1.	24J168-09	25mL	4 Nov 2024 23:46
16	16	RKV041.D	1.	24J168-10	25mL	5 Nov 2024 00:15
17	17	RKV042.D	1.	24J168-11	25mL	5 Nov 2024 00:43
18	18	RKV043.D	1.	24J168-12	25mL	5 Nov 2024 01:12
19	19	RKV044.D	1.	24J168-13	25mL	5 Nov 2024 01:41
20	20	RKV045.D	1.	24J168-14	25mL	5 Nov 2024 02:09
21	21	RKV046.D	1.	24J168-15	25mL	5 Nov 2024 02:38
22	22	RKV047.D	1.	24J168-16	25mL	5 Nov 2024 03:07
23	23	RKV048.D	1.	24J168-17	25mL	5 Nov 2024 03:36
24	24	RKV049.D	1.	24J168-18	25mL	5 Nov 2024 04:05
25	25	RKV050.D	1.	EVO01J1220	10ppb 8260/50ppb KET-AA/250ppb TBA	5 Nov 2024 04:33
26	26	RKV051.D	1.	EVO01J12201	10ppb 8260/50ppb KET-AA/250ppb TBA	5 Nov 2024 05:03
27	27	RKV052.D	1.	EVO01J12202	10ppb 8260/50ppb KET-AA/250ppb TBA	5 Nov 2024 05:31
28	28	RKV053.D	1.	RINSE	25mL	5 Nov 2024 06:00

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #:	A01-077
Instrument No.:	01
Analytical Sequence:	24K06
Method File:	V001J12
Analytical Batch:	cv001J1222

SOP #
☑ EMAX-8260 Rev. No. 10
☑ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1
PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☑ 25-mL Purge
SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☑ Water
☑ pH <2. Outliers indicated on analytical sequence.
☑ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐ pH <2 and Cl2 are not applicable.

INITIAL CALIBRATION REFERENCE			
DATE	10/12/24		
ICAL ID	V001J12		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC	SVI-45-36-03 -37-01	1	
DCC	-32-02	1	
DCC	-32-03	5	
DCC	-40-02	5	
BFB	-41-03	1	50/250
IS/SURR.	-29-03	5	
ICV/LCS	-35-01	1	
ICV/LCS	-34-03	1	
ICV/LCS	-26-03 -45-02	5 5	
ICV/LCS	-43-01	5	
Data File Folder	24K06		
	LOT #	Syringe Lot #	
pH strip	HC439975	MSV-03-09-12-4	
Chlorine strip	301902	↓ -6	
Methanol			
$NaHSO_4$			
Reagent Water	RW3-23-001		
Sand			

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO01	

Analyzed By: CC/DM
Date: 11/6/24
Disposed By: CC
Date Disposed: 11/7/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24K06

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RKV068.D	1.	BFB01K04	25mL	6 Nov 2024 07:32
2	2	RKV069.D	1.	CVO01J1222	10ppb 8260/50ppb KET-AA/250ppb TBA	6 Nov 2024 08:11
3	3	RKV070.D	1.	VO01K04L	10ppb 8260/50ppb KET-AA/250ppb TBA	6 Nov 2024 08:40
4	4	RKV071.D	1.	VO01K04C	10ppb 8260/50ppb KET-AA/250ppb TBA	6 Nov 2024 09:09
5	5	RKV072.D	1.	RINSE	25mL	6 Nov 2024 09:38
6	6	RKV073.D	1.	VO01K04B	25mL	6 Nov 2024 10:08
7	7	RKV074.D	1.	24J177-06I 5X	5mL	6 Nov 2024 10:37
8	8	RKV075.D	1.	24J177-07I 5X	5mL	6 Nov 2024 11:06
9	9	RKV076.D	1.	24J168-06	25mL	6 Nov 2024 11:36
10	10	RKV077.D	1.	24J168-01	25mL	6 Nov 2024 12:05
11	11	RKV078.D	1.	24J168-02	25mL	6 Nov 2024 12:35
12	12	RKV079.D	1.	24J168-03	25mL	6 Nov 2024 13:05
13	13	RKV080.D	1.	24J168-04	25mL	6 Nov 2024 13:35
14	14	RKV081.D	1.	24J168-05	25mL	6 Nov 2024 14:04
15	15	RKV082.D	1.	24J168-08I 5X	5mL	6 Nov 2024 14:34
16	16	RKV083.D	1.	24J168-14I 25X	1mL	6 Nov 2024 15:04
17	17	RKV084.D	1.	24J168-15I 10X	2.5mL	6 Nov 2024 15:34
18	18	RKV085.D	1.	24K021	25mL	6 Nov 2024 16:04
19	19	RKV086.D	1.	24K028-01	25mL	6 Nov 2024 16:34
20	20	RKV087.D	1.	24K028-02	25mL	6 Nov 2024 17:04
21	21	RKV088.D	1.	24J168-06M	25mL	6 Nov 2024 17:33
22	22	RKV089.D	1.	24J168-06S	25mL	6 Nov 2024 18:03
23	23	RKV090.D	1.	EVO01J1222	10ppb 8260/50ppb KET-AA/250ppb TBA	6 Nov 2024 18:33

STANDARD LOGS

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-13-10	Cust. VOA Mix 73-6047	2000 ppm	250 µL	50 ppm
-13-20	Oxygenated Gas	↓	↓	↓
-13-18	1-Chlorohexane	↓	↓	↓
-13-08	2-CLEVE	↓	↓	↓
-13-13	1,2,3 TMB	2500 ppm	200 µL	↓
-12-11	TBA	50 000 ppm	↓	1000 ppm
			IR 7/26/24	

Standard ID	SV1-45-21-01
Name	8260 (1°)
Final Volume	10 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	7/26/24
Exp. Date	1/26/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-08-11	2-Butanol	50000 ppm	100 µL	2500 ppm
-13-19	Cyclohexane	2000 ppm	250 µL	250 ppm
-14-02	Methyl Cyclohexane	2500 ppm	200 µL	↓
-14-01	Methyl Acetate	↓	↓	↓
			IR 7/30/24	

Standard ID	SV1-45-21-02
Name	4 Add (1°)
Final Volume	2.0 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	7/30/24
Exp. Date	1/30/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-09	Ketone Soln.	2500 ppm	1000 µL	250 ppm
-16-05	Acrolein + Acrylonitrile	2000 ppm	1250 µL	↓

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-13-04	FLUOROBENZENE Mix	2000ppm	250 µL	250ppm
↓ -38-06-03	524.2 Surr. Std. Mix	↓	↓	↓
		IR 8/19/24		

Standard ID	SV1-45-26-01
Name	524.2 IS/SS
Final Volume	2.0mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	8/19/24
Exp. Date	2/19/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-10	8260 Gases	2000ppm	1250µL	250ppm
↓ -13	Vinyl Acetate	↓	↓	↓
			IR 8/19/24	

Standard ID	SV1-45-26-02
Name	Gas (2°)
Final Volume	10mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	8/19/24
Exp. Date	9/22/24
Prepared By	IR

Syringe ID: MSV-03-01-16
-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-14-12	Cyclohexane	1000ppm	500 µL	50ppm
↓ -15-02	Methyl Cyclohexane	↓	↓	↓
↓ -14-18	Methyl Acetate			
			IR 8/19/24	

Standard ID	SV1-45-26-03
Name	3 Add (2°)
Final Volume	10mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	8/19/24
Exp. Date	2/19/25
Prepared By	IR

Syringe ID: MSV-03-01-16

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-16	VOC GAS STD	2000ppm	1250µL	250ppm
SV1-38-15-17	VINYL ACETATE	25000ppm	1000µL	250ppm
				CL 9/9/24

Standard ID	SV1-45-32-01
Name	Gas (1°)
Final Volume	10 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/9/24
Exp. Date	3/9/25
Prepared By	DM

Syringe ID: DM MSV-0320-04

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-14-10	2-Butanol	50000ppm	100µL	2500ppm
-13-19	Cyclohexane	2000ppm	250µL	250ppm
-14-2	Methyl Cyclohexane	2500ppm	200µL	↓
-14-01	Methyl Acetate	↓	↓	↓
				CL 9/9/24

Standard ID	SV1-45-32-02
Name	4ADD (1°)
Final Volume	2.0 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/9/24
Exp. Date	3/9/25
Prepared By	DM

Syringe ID: MSV-03-03-04

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-13-09	Cust. VOA Mix 73-6047	2000ppm	250µL	50 ppm
-13-20	Oxygenated Comp.	↓	↓	↓
-13-18	1-Chlorohexane			
-13-08	2-CLEVE			
-13-13	1,2,3. TMB	2500ppm	200µL	↓
-12-11	TBA	50000ppm	↓	1000ppm
			DM	

Standard ID	SV1-45-32-03
Name	8260 (1°)
Final Volume	10 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/9/24
Exp. Date	3/9/25
Prepared By	DM

Syringe ID: MSV-03-03-04

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SVIA-38-IS-07	5S	2000 ppm	250 µL	500ppm
			DM 9/13/24	

Standard ID	SV1-45-34-01
Name	5S(524)
Final Volume	2.0 mL
MeOH Solvent ID	SVIA-011-24-01
Prep. Date	9/13/24
Exp. Date	2/13/25
Prepared By	DM

Syringe ID: MSV-03-01-11

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SVI-38-IS-04	~~5S~~ Fluorobenzene Mix	2000 ppm	250 µL	250 ppm
↳ 38-UC-03	524.2 Surr. Std. Mix	↓	↓	↓

Standard ID	SV1-45-34-02
Name	524.2 IS/SS
Final Volume	2.0 mL
MeOH Solvent ID	SVIA-011-24-01
Prep. Date	9/13/24
Exp. Date	2/13/25
Prepared By	

Syringe ID: MSV-03-01-11

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SVI-38-15-10	8260 GASES	2000 ppm	1.25mL	250 ppm
↳ -16-07	Vinyl Acetate	↓	↳	↳
			JR	9/23/24

Standard ID	SV1-45-34-03
Name	GAS (20)
Final Volume	10 mL
MeOH Solvent ID	SVIA-011-24-01
Prep. Date	9/23/24
Exp. Date	12/17/24
Prepared By	JR

Syringe ID: MSV-03-01-14
03-03-05

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-08	Carbon Disulfide	5000ppm	5.00 µL	250ppm
				IR 9/23/24

Standard ID	SV1-45-35-01
Name	CS_2 (2°)
Final Volume	10mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/23/24
Exp. Date	3/23/25
Prepared By	IR

Syringe ID: MSV-03-01-14

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-08	Carbon Disulfide	5000ppm	500 µL	250ppm
				9/23/24

Standard ID	SV1-45-35-02
Name	CS_2 (2°)
Final Volume	10mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/23/24
Exp. Date	3/23/25
Prepared By	IR

Syringe ID: MSV-03-01-14

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-04	8260IS	2500ppm	1.0mL	250ppm
				DM 9/23/24

Standard ID	SV1-45-35-03
Name	IS
Final Volume	10mL
MeOH Solvent ID	SVIA-011-24-01
Prep. Date	9/23/24
Exp. Date	2/24/25
Prepared By	DM

Syringe ID: MSV-02-01-14

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-W-07	8260A	2500ppm	1.0mL	250ppm
			DM 9/23/24	

Standard ID	SV1-45-36-01
Name	SS
Final Volume	10mL
MeOH Solvent ID	SWA-011-24-01
Prep. Date	9/23/24
Exp. Date	2/23/25
Prepared By	DM

Syringe ID: MSV-02-01-14

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-10	Carbon Disulfide Solution	5000 ppm	500 µL	250 ppm
				IR 9/25/24

Standard ID	SV1-45-36-02
Name	CS_2 (1°)
Final Volume	10 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/25/2024
Exp. Date	03/25/2025
Prepared By	I.R. IR 9/25/24

Syringe ID: MSV-03-01-14

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-10	Carbon Disulfide	5000ppm	500 µL	250 ppm
				IR 9/25/24

Standard ID	SV1-45-36-03
Name	CS_2 (1°)
Final Volume	10 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/25/2024
Exp. Date	3/25/2025
Prepared By	IR IR 9/25/24

Syringe ID: MSV-03-01-14

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-16	VOC Gas Std.	2000ppm	1250µL	250ppm
↓ -17	Vinyl Acetate	2500ppm	1000µL	↓
			IR	9/25/24

Standard ID	SV1-45-37-01
Name	GAS (1°)
Final Volume	10 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/25/24
Exp. Date	3/25/25
Prepared By	IR

Syringe ID: MSV-03-01-14
↓ -03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-13-12	8260 IS	2500ppm	200µL	250ppm
			IR	9/25/24

Standard ID	SV1-45-37-02
Name	IS
Final Volume	2.0 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/25/24
Exp. Date	3/25/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-14-09	8260A Surr. mix	2500ppm	200µL	250ppm
			IR	9/25/24

Standard ID	SV1-45-37-03
Name	SS
Final Volume	2.0 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/25/24
Exp. Date	3/25/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-06	Cust. VOC mix 15-Y	2/20/40 ppm	250 µL	250/500/500 ppm
				IR 10/09/24

Standard ID	SV1-45-40-01
Name	APP IX (1°)
Final Volume	2.0mL
MeOH Solvent ID	SWA-011-24-01
Prep. Date	10/07/24
Exp. Date	IR 11/7/24 ~~12/07/25~~ 12/22/24
Prepared By	IR
Syringe ID:	MSV-03-03-05
Comments:	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-19	VOA Cal. mix #1	50000 ppm	500 µL	250 ppm
↓ -17-01	Acrolein & Acrylonitrile	↓	↓	↓
				IR 10/07/24

Standard ID	SV1-45-40-02
Name	KET-AA (1°)
Final Volume	10mL
MeOH Solvent ID	SWA-011-24-01
Prep. Date	10/07/24
Exp. Date	12/22/24
Prepared By	IR
Syringe ID:	MSV-03-01-15
Comments:	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-19	VOA Cal mix #1	5000 ppm	500 µL	250 ppm
↓ -17-01	Acrolein & Acrylonitrile	↓	↓	↓
				IR 10/07/24

Standard ID	SV1-45-40-03
Name	KET-AA (1°)
Final Volume	10mL
MeOH Solvent ID	SWA-011-24-01
Prep. Date	10/07/24
Exp. Date	12/22/24
Prepared By	IR
Syringe ID:	MSV-03-01-15
Comments:	

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-A	VOA Cal. Mix #1	5000 ppm	100 µL	250 ppm
			IR 10/07/24	

Standard ID	SV1-45-41-01
Name	KET (1°)
Final Volume	2.0 mL
MeOH Solvent ID	SWIA - 011-24-01
Prep. Date	10/07/24
Exp. Date	4/07/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-11-14	Vol. Org. Compounds	2000 ppm	2.5 µL	2.5 ppm
			IR 10/8/24	

Standard ID	SV1-45-41-02
Name	123 TCP (1°)
Final Volume	2.0 mL
MeOH Solvent ID	SWIA - 011-24-01
Prep. Date	10/08/24
Exp. Date	4/08/25 IR 10/08/24
Prepared By	IR

Syringe ID: MSV-02-02-03-4

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-14-06	VO Tuning Compound mix	5000 ppm	100 µL	50 ppm
			IR	10/08/24

Standard ID	SV1-45-41-03
Name	BFB
Final Volume	10 mL
MeOH Solvent ID	SWIA - 011-24-01
Prep. Date	10/08/24
Exp. Date	4/08/25 IR 10/08/24
Prepared By	IR

Syringe ID: MSV-03-03-03

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-09-20	8260 Megamix	2000 ppm	250 µL	50 ppm
-18-04	Col Oxy Mix #1	↓	↓	↓
-17-15	2-Cleve	↓	↓	
-12-20	1-Chlorohexane	1000 ppm	0.5 mL	
-12-06	1,2,3-TMB	25000 ppm	200 µL	↓
-18-06	TBA	50,000 ppm	↓	1000 ppm
				CC 10/11/24

Standard ID	SV1-45-43-01
Name	8260 (2°)
Final Volume	10 mL
MeOH Solvent ID	SWIA-02-13-03
Prep. Date	10/11/24
Exp. Date	4/11/24
Prepared By	DM

Syringe ID: MSV-03-03-04

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.

Standard ID	SV1-45-43-02
Name	ES/SS
Final Volume	10 mL
MeOH Solvent ID	
Prep. Date	
Exp. Date	
Prepared By	

Syringe ID:

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-45-39-03	8260 (2°)	50 ppm	200 µL	5.0 ppm
↓ -34-03	Gas (2°)	250 ppm	40 µL	↓
				JR 10/11/24

Standard ID	SV1-45-43-03
Name	SIM (2°)
Final Volume	2.0 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	10/11/24
Exp. Date	12/17/24
Prepared By	JR

Syringe ID: MSV-03-03-05
-03-03-03

Comments:

SM-38-12-20

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: 1-Chlorohexane Standard

Product Number: EPA-1208-1

Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006735507

Lot Issue Date: 20-Mar-2023

Expiration Date: 30-Apr-2026

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
1-chlorohexane	1000 ±	5 µg/mL	000544-10-5	RM04913

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material (RM) standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above. Purity values are taken from approved vendor raw material certificates.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference (RM) standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference (RM) standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard (RM) is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Ibis Scientific, 7330 Smoke Ranch Rd., Suite B, Las Vegas, NV 89128 (855)390-4202

Date manufactured: 6/24/2022
Original issue date: 6/24/2022

Certificate of Analysis

Date Received: _____

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
3200-44	503601	≤ -10 °C	P/T Methanol	23-Jun-2027	1,2,3-Trimethylbenzene Solution, 2500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
1,2,3-trimethylbenzene	526-73-8	92.7	869.8.4.1P	2536 ± 32.33

SVL-38-12-06

125 Market Street
New Haven, CT 06513
USA

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www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-601C-10X
Description: 2-Chloroethylvinyl ether
Lot: 224031001
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

SVI-38-17-15

Date Certified: Mar 8, 2024
Expiration: Mar 8, 2027
Sample Size: 1 mL
Components: 1
Storage Condition: Freeze (<-10 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

Component	CAS #	Purity[3] %	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
2-Chloroethylvinyl ether	110-75-8	100.0	2011	2011

AccuStandard

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

[2] All weights are traceable through NIST. Test No. 684/291344-18 & 684/292805-19

[3] Purity/Identity determined by one or more of the following methods: GC/MS, LC/MS, NMR, FTIR, Melting Point.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 7/20

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

SV1-38-18-06

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0214955

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002	99%	50,256.0 µg/mL	+/- 721.1797

* Expanded Uncertainty displayed in same units as Grav. Conc

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

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SVI-38-18-04

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30465 **Lot No.:** A0210449

Description : California Oxygenates Mixture #1

California Oxygenates Mixture #1 2000-10000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002	99%	10,066.7 µg/mL	+/- 125.2182
2	Methyl-tert-butyl ether (MTBE)	1634-04-4	SHBQ4873	99%	2,020.0 µg/mL	+/- 25.1393
3	Diisopropyl ether (DIPE)	108-20-3	STBK8028	99%	2,012.0 µg/mL	+/- 25.0397
4	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCT4522	98%	1,994.6 µg/mL	+/- 24.8235
5	tert-Amyl methyl ether (TAME)	994-05-8	HMBJ0825	99%	2,008.7 µg/mL	+/- 24.9982

* Expanded Uncertainty displayed in same units as Grav. Conc

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 575702 **Lot No.:** A0191824

Description : Custom Revised 8260 Megamix

Custom Revised 8260 Megamix 2,000 - 40,000µg/mL, P&T Methanol, 1mL/ampul

SVI-38-09-20

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorofluoromethane (CFC-21)	75-43-4	12841600	99%	2,000.0 µg/mL	+/- 69.1292
2	Diethyl ether (ethyl ether)	60-29-7	SHBP5008	99%	2,011.0 µg/mL	+/- 69.5094
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	00016133	99%	2,008.0 µg/mL	+/- 69.4057
4	1,1-dichloroethene	75-35-4	SHBG8609V	99%	2,001.6 µg/mL	+/- 69.9029
5	Iodomethane (methyl iodide)	74-88-4	RD220125	99%	2,007.5 µg/mL	+/- 69.3884
6	Allyl chloride (3-chloropropene)	107-05-1	RP220405A	99%	2,011.0 µg/mL	+/- 69.5094
7	Methylene chloride (dichloromethane)	75-09-2	SHBP1417	99%	2,001.6 µg/mL	+/- 69.9056
8	trans-1,2-Dichloroethene	156-60-5	MKBH9850V	99%	2,001.7 µg/mL	+/- 69.9064
9	1,1-Dichloroethane	75-34-3	760200	99%	2,001.1 µg/mL	+/- 69.8864
10	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	220712JLM	99%	2,014.0 µg/mL	+/- 69.6131
11	Propionitrile	107-12-0	BCCF4167	99%	20,009.5 µg/mL	+/- 691.5748
12	2,2-Dichloropropane	594-20-7	RD220812	99%	2,004.3 µg/mL	+/- 70.0110
13	cis-1,2-Dichloroethene	156-59-2	MKCP7830	99%	2,014.0 µg/mL	+/- 70.3516
14	Methacrylonitrile	126-98-7	1012014	99%	20,031.5 µg/mL	+/- 692.3351
15	Methyl acrylate	96-33-3	SHBG6616V	99%	2,007.0 µg/mL	+/- 69.3711
16	Isobutanol (2-Methyl-1-propanol)	78-83-1	SHBP7066	99%	40,013.5 µg/mL	+/- 1,382.9594

SVI-38-14-06

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30003 **Lot No.:** A0201379

Description : VOA Tuning Compound Mix

VOA Tuning Compound Mix 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L., K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	5,011.8 µg/mL	+/- 281.5696

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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SV1-38-15-19

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0205808

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,028.0 µg/mL	+/- 173.7444
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,047.2 µg/mL	+/- 174.4067
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,027.8 µg/mL	+/- 173.7387
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,017.7 µg/mL	+/- 173.3874

* Expanded Uncertainty displayed in same units as Grav. Conc

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

SVI-38-15-A

Date manufactured: 5/9/2024
Original issue date: 5/9/2024

Certificate of Analysis

Date Received:

 Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -020232-10	519896	≤ -10 °C	P/T Methanol	14-May-2027	Vinyl Acetate Solution, 2,500 mg/L, 1 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
vinyl acetate	108-05-4	99.9	232.7.1P	2498 ± 110

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty

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Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

SVI-38-15-16

Product Name: VOC Gas Standard

Product Number: DWM-544-1

Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006744131

Lot Issue Date: 23-May-2023

Expiration Date: 30-Jun-2026

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
bromomethane	2009	±	10 µg/mL	000074-83-9	RM00064
chloroethane	2008	±	10 µg/mL	000075-00-3	RM00065
chloromethane	2008	±	10 µg/mL	000074-87-3	RM12571
dichlorodifluoromethane	2010	±	10 µg/mL	000075-71-8	RM05289
trichlorofluoromethane	2009	±	10 µg/mL	000075-69-4	RM00017
vinyl chloride	2009	±	10 µg/mL	000075-01-4	RM05458

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

SV1-38-14-07

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CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30240 **Lot No.:** A0203162

Description : 8260A Surrogate Mix

8260A Surrogate Mix 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L., K=2)
1	Dibromofluoromethane	1868-53-7	022013	99%	2,510.0 µg/mL	+/- 141.0009
2	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	2,518.2 µg/mL	+/- 141.4616
3	Toluene-d8	2037-26-5	PR-33397	99%	2,523.4 µg/mL	+/- 141.7537
4	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000194533	99%	2,508.7 µg/mL	+/- 140.9301

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

SVI-38-13-12

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Date manufactured: 7/13/2022
Original issue date: 7/13/2022

Certificate of Analysis

Date Received: 10/6/23

 Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -122455-05	484785	-18°C +/- 4°C	P/T Methanol	12-Jul-2027	Method 8260 Internal Standard Mix, 3-30, 2,500 mg/L, 1 ml

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
chlorobenzene-d5	3114-55-4	99.5	128.120.1P	2504 ± 130
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	2514 ± 130
1,4-difluorobenzene	540-36-3	99.3	129.158.1.2P	2523 ± 140

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various EN, ISO, EPA, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

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SV1-38-16-09 10
In 9/19/24

Date manufactured: 3/10/2023
Original issue date: 3/10/2023

Certificate of Analysis

Date Received: 9/17/24
 Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -020200-04	498954	≤ -10 °C	P/T Methanol	8-Mar-2028	Carbon Disulfide Solution, 5,000 mg/L, 1 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
carbon disulfide	75-15-0	99.9	200.24.1VP	5075 ± 260

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

SVL-38-16-08

Product Name: Carbon Disulfide Standard

Product Number: EPA-1012-1

Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006766754

Lot Issue Date: 13-Oct-2023

Expiration Date: 30-Nov-2027

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
carbon disulfide	5021 ±	25 µg/mL	000075-15-0	RM08158

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

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CERTIFICATE OF ANALYSIS

Catalog No: APP-9-211-20X
Description: Vinyl acetate
Lot: 224061310
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Jun 17, 2024
Expiration: Dec 17, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Freeze (<-10 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ilac-MRA

Component	CAS #	Purity[3] %	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
Vinyl acetate	108-05-4	100.0	2013	2013

AccuStandard

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4% and was determined in accordance with ISO 17034. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

[2] All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

[3] Purity/Identity determined by one or more of the following methods: GC/MS, LC/MS, NMR, FTIR, Melting Point.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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SVI-38-15-10

Ibis Scientific, 7330 Smoke Ranch Rd., Suite B, Las Vegas, NV 89128 (855) 390-4202

Date manufactured: 12/14/2023
Original issue date: 12/14/2023

Certificate of Analysis

Date Received: 2/8/24
Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
3200-G34 -120016-03	513798	≤ -10 °C	P/T Methanol	12-Dec-2028	ISO 17034 - Method 8260 Gases, 2,000 mg/L, 2 x 0.6 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC), gas chromatography/mass spectrometry (GC/MS), or High Pressure Liquid Chromatography (HPLC) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
bromomethane	74-83-9	99.9	139.158.2.1P	1962 ± 23
chloroethane	75-00-3	99.94	141.2.3P	1995 ± 23
chloromethane	74-87-3	99.7	140.158.3P	2018 ± 24
dichlorodifluoromethane	75-71-8	99	142.158.5.1P	2026 ± 47
trichlorofluoromethane	75-69-4	99	144.1.3P	1995 ± 38
vinyl chloride	75-01-4	99	143.158.5.3P	1962 ± 45

Second Source standards are prepared according to NELAC requirements.

Intended Use:

This certified reference material (CRM) is intended for use as a calibration standard or a quality control standard for chromatography instrumentation such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various USEPA, NIOSH, and ASTM methods.

Recommended storage container for ampouled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix
y = boiling point of the solvent

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened

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GM - 38-12-11

Date manufactured: 11/16/2022
Original issue date: 11/16/2022

Certificate of Analysis

Date Received:

 Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -020511-06	492310	≤ -10 °C	P/T Methanol	15-Nov-2027	t-Butyl Alcohol Solution, 50,000 mg/L, 1 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
tert-butyl alcohol	75-65-0	100	511.7.2P	50110 ± 2600

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various EN, ISO, EPA, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty

SVI-38-B-08

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Date manufactured: 8/24/2022
Original issue date: 8/24/2022

Certificate of Analysis

Date Received: 10/6/23

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -020145-02	492308	≤ -10 °C	P/T Methanol	23-Aug-2027	2-Chloroethyl Vinyl Ether Solution, 2,000 mg/L, 1 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
2-chloroethylvinyl ether	110-75-8	99.8	145.1.5P	2010 ± 110

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various EN, ISO, EPA, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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SV1-30-13-20

CERTIFICATE OF ANALYSIS

Catalog No: OGAD-001
Description: Oxygenate Gasoline Additive Standard
Lot: 222081419
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Aug 29, 2022
Expiration: Aug 29, 2025
Sample Size: 1 mL
Components: 5
Storage Condition: Refrig (0-5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ILAC-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
MtBE	1634-04-4	99.8	2001	1997
EtBE	637-92-3	99.9	2004	2002
Isopropyl ether	108-20-3	100.0	2010	2010
TAME	994-05-8	99.0	2000	1980
t-Butanol	75-65-0	99.6	10005	9965

U.S. Standard

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 684/289871-17

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

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Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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SV1-38-B-09

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Date manufactured: 3/13/2023
Original issue date: 3/13/2023

Certificate of Analysis

Date Received: 10/6/23

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -126047-01	498957	≤ -10 °C	P/T Methanol	13-Sep-2024	Custom Volatiles Mix, 73-6047, Various Concentrations, 1 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
2-nitropropane	79-46-9	97.7	219.1.2P	2003 ± 110
allyl chloride	107-05-1	98.9	227.1.2P	2024 ± 120
benzene	71-43-2	99.99	146.1.10P	1997 ± 110
bromobenzene	108-86-1	100	147.7.1P	1999 ± 140
bromochloromethane	74-97-5	99.7	148.1.3P	1998 ± 110
bromodichloromethane	75-27-4	99.2	149.1.12P	1988 ± 110
bromoform	75-25-2	99.3	150.7.2P	1989 ± 110
n-butylbenzene	104-51-8	99.2	151.7.3.2P	1997 ± 110
sec-butylbenzene	135-98-8	99.5	152.1.2.1P	1999 ± 110
tert-butylbenzene	98-06-6	99.9	153.29.1P	1999 ± 110
carbon tetrachloride	56-23-5	100	154.9.1P	1997 ± 110
chlorobenzene	108-90-7	99.9	155.29.1P	2001 ± 110
2-chloroethanol	107-07-3	99.5	217.1.3P	2000 ± 110
chloroform	67-66-3	99.8	156.7.1P	1998 ± 110
chloroprene	126-99-8	98.9	315.5.22P	1982 ± 140
2-chlorotoluene	95-49-8	99.5	157.7.1P	1998 ± 110
4-chlorotoluene	106-43-4	99.9	158.9.3P	2000 ± 110

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SVI - 38-13-18

CERTIFICATE OF ANALYSIS

Catalog No: M-8010R-1-04-10X
Description: 1-Chlorohexane
Lot: 223031117
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Mar 8, 2023
Expiration: Mar 8, 2033
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity[3] %	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
1-Chlorohexane	544-10-5	98.0	2024	1984

Standard

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

[2] All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

[3] Purity/Identity determined by one or more of the following methods: GC/MS, LC/MS, NMR, FTIR, Melting Point.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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Date manufactured: 6/24/2022
Original issue date: 6/24/2022

Certificate of Analysis

Date Received: 10/6/23

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -020869-08	484154	≤ -10 °C	P/T Methanol	23-Jun-2027	1,2,3-Trimethylbenzene Solution, 2,500 mg/L, 1 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
1,2,3-trimethylbenzene	526-73-8	92.7	869.8.4.1P	2536 ± 140

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various EN, ISO, EPA, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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SV1-38-13-19

CERTIFICATE OF ANALYSIS

Catalog No: TK-102-08S-10X
Description: Cyclohexane
Lot: 221101280
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Oct 19, 2021
Expiration: Oct 19, 2031
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ACCREDITATION NUMBER FOR REFERENCE MATERIAL PRODUCERS AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
Cyclohexane	110-82-7	100.0	2008	2008

AccuStandard

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 684/289871-17

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: _____
Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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SVI-38-14-02

CERTIFICATE OF ANALYSIS

Catalog No: TK-102-09S-12.5X
Description: Methylcyclohexane
Lot: 222081023
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Aug 2, 2022
Expiration: Aug 2, 2032
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/FID)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Methylcyclohexane	108-87-2	100.0	2538	2538

AccuStandard

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: _____
Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 7/20

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Date manufactured: 10/4/2022
Original issue date: 10/4/2022

Certificate of Analysis

Date Received:

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -020354-09	489953	≤ -10 °C	P/T Methanol	3-Oct-2027	2-Butanol Solution, 50000 mg/L, 1 ml

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
2-butanol	78-92-2	99.8	354.7.1P	50000 ± 2600

*Not a certified value

SVI - 38 - 14 - 10

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various EN, ISO, EPA, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

SVI-38-14-01

Catalog No: S-6524-0.25X
Description: Methyl acetate
Lot: 223081092
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Aug 7, 2023
Expiration: Aug 7, 2033
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ILAC-MRA

Component	CAS #	Purity[3] %	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
Methyl acetate	79-20-9	100.0	2506	2506

Standard Copy

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

[2] All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

[3] Purity/Identity determined by one or more of the following methods: GC/MS, LC/MS, NMR, FTIR, Melting Point.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 7/20

SVI-38-14-18

SPEXertificate®

Certificate of Reference Material

Catalog Number: S-3893 **Lot No.** NSI231117202
Description: Methyl Acetate
Matrix: Methanol (Purge & Trap Grade) **Manufactured Date:** 11/17/2023
Expiration Date: 11/30/2026

This **SPEXOrganics®** Certified Reference Material, CRM, was manufactured by NSI Lab Solutions (www.nsilabsolutions.com) and is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled (ug/mL)	Purity	Certified† (ug/mL)		Uncertainty (ug/mL)
Methyl acetate	79-20-9	1000	99.9%	1000	±	7.05

* - Isomer ratios (when applicable) are an uncertified parameter.

Final Solution Verification:

Final solution integrity verified Volumetrically and Analytically. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration is based on gravimetric or volumetric measurements. All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO/IEC 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request. All glassware used in the manufacturing of this standard is Class A. Volumetric pipettors are calibrated every four months by an ISO/IEC 17025 accredited calibration laboratory.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 11/17/2023 Certifying Officer: _____
Kenneth Grzybowski

SV1-38-14-12

SPEXertificate®

Certificate of Reference Material

Catalog Number: S-1015 **Lot No.** NSI231116204
Description: Cyclohexane
Matrix: Methanol (Purge & Trap Grade) **Manufactured Date:** 11/16/2023
Expiration Date: 11/30/2026

This **SPEXOrganics®** Certified Reference Material, CRM, was manufactured by NSI Lab Solutions (www.nsilabsolutions.com) and is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled (ug/mL)	Purity	Certified† (ug/mL)		Uncertainty (ug/mL)
Cyclohexane	110-82-7	1000	100.0%	999	±	7.05

SV1-38-14-12

* - Isomer ratios (when applicable) are an uncertified parameter.

Final Solution Verification:

Final solution integrity verified Volumetrically and Analytically. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration is based on gravimetric or volumetric measurements. All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO/IEC 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request. All glassware used in the manufacturing of this standard is Class A. Volumetric pipettors are calibrated every four months by an ISO/IEC 17025 accredited calibration laboratory.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 11/16/2023 Certifying Officer: Kenneth Grzybowski

SVI-38-15-02

SPEXertificate®

Certificate of Reference Material

Catalog Number: S-2470
Description: Methylcyclohexane
Matrix: P&T Methanol

Lot No. NSI231116202

Manufactured Date: 11/16/2023
Expiration Date: 11/30/2026

This **SPEXOrganics®** Certified Reference Material, CRM, was manufactured by NSI Lab Solutions (www.nsilabsolutions.com) and is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled (ug/mL)	Purity	Certified† (ug/mL)		Uncertainty (ug/mL)
Methylcyclohexane	108-87-2	1000	98.0%	1000	±	7.05

* - Isomer ratios (when applicable) are an uncertified parameter.

Final Solution Verification:

Final solution integrity verified Volumetrically and Analytically. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration is based on gravimetric or volumetric measurements. All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO/IEC 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request. All glassware used in the manufacturing of this standard is Class A. Volumetric pipettors are calibrated every four months by an ISO/IEC 17025 accredited calibration laboratory.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 11/16/2023

Certifying Officer: Kenneth Grzybowski

SVI-38-15-09

14271 Jeffrey Road
#223
Irvine, CA 92620

ibis scientific

For Chemical Emergency, Spill, Leak, Fire Exposure or Accident Call Chromanex Day or Night 800.390.4202

Quality System Audited & Registered by TUV USA to ISO 9001:2015

Date Received: 2/8/24

Certificate of Analysis

Rev 0 Page

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
G34-3200-121020-17	480682	≤-10 °C	P/T MeOH:Water 9:1	4/28/2027	Ketones Solution, 2500 mg/L, 1 ml ISO17034

Compound	CAS No	Purity (%)	Compound Lot No	Concentration, mg/L	
acetone	67-64-1	99.6	196.271.4P	2498 ± 53.47	mg/L
2-butanone (MEK)	78-93-3	99.9	197.1.2P	2498 ± 53.51	mg/L
4-methyl-2-pentanone (MIBK)	108-10-1	99.88	198.421.1.2P	2500 ± 54.02	mg/L
2-hexanone	591-78-6	100	199.7.3P	2501 ± 53.58	mg/L

Melissa Workoff

Certified By: _____
Melissa Workoff

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

SVL-38-16-05

Product Name:	Acrolein and Acrylonitrile Standard	**Lot Number:**	0000798734
Product Number:	AMN-623-1	**Lot Issue Date:**	21-Jun-2024
Storage Conditions:	Store Frozen (-25° to -10°C).	**Expiration Date:**	31-Oct-2024

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
acrolein	2005	±	10 µg/mL	000107-02-8	RM22372
acrylonitrile	2010	±	10 µg/mL	000107-13-1	RM20527

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

CSD-QA-015.2

ISO 17025
Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

EMAX LABORATORIES, INC.
3051 Fujita Street
Torrance, CA 90505
Tel: (310)-618-8889

Date: 02-04-2025
EMAX Batch No.: 24J169_R1

Attn: Mark Rigby

Parsons
75 W Towne Ridge Pkway # 200
Sandy UT 84070

Subject: Revised Laboratory Report
Project: TITAN 1-A

Enclosed is the Revised Laboratory report for samples received on 10/28/24.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
T1AMF-TB002_OCT24	J169-01	10/23/24	WATER	VOCS BY 8260C
T1AMF-MW063_OCT24	J169-02	10/23/24	WATER	VOCS BY 8260C
T1AMF-MW064_OCT24	J169-03	10/23/24	WATER	VOCS BY 8260C
T1AMF-MW055_OCT24	J169-04	10/23/24	WATER	VOCS BY 8260C
T1AMF-MW054_OCT24	J169-05	10/23/24	WATER	VOCS BY 8260C
T1AMF-MW019_OCT24	J169-06	10/23/24	WATER	VOCS BY 8260C
T1AMF-MW016_OCT24	J169-07	10/23/24	WATER	VOCS BY 8260C
T1AMF-MW016_OCT24_FD	J169-08	10/23/24	WATER	VOCS BY 8260C
T1AMF-MW011_OCT24	J169-09	10/23/24	WATER	VOCS BY 8260C
T1AMF-MW052_OCT24	J169-10	10/23/24	WATER	VOCS BY 8260C

Note: Report was revised. See email for reference.

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that results included in this report meets all TNI & DOD requirements unless noted in the Case Narrative.

NELAP Accredited Certificate Number CA002912024-26
ANAB Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing
California ELAP Accredited Certificate Number 2672

CHAIN OF CUSTODY

EMAX Laboratories, Inc.
3051 Fujita St., Torrance, CA 90505
Tel # : 310-618-8889 FAX#: 310-618-0818
Email: info@emaxlabs.com

PO NUMBER: 0015461
SAMPLE STORAGE

EMAX CONTROL NO. 24J169
PROJECT CODE:

CLIENT PARSONS
PROJECT TITAN 1-A
COORDINATOR Katherine LaPierre
TEL 360-529-9351 EMAIL Katherine.LaPierre@Parsons.us
SEND REPORT TO Katherine LaPierre at email above
COMPANY PARSONS
ADDRESS NA - Electronic Communication Only
EMAX PM: Richard Beauvil, RBeauvil@emaxlabs.com

MATRIX CODE	PRESERVATIVE CODE
DW=Drinking Water	IC = Ice
GW=Ground Water	HC = HCl
WW=Waste Water	HN=HNO3
SD=Solid Waste SL=Sludge	SH=NaO3
SS=Soil/ Sediment	ST=Na2S2O3
WP=Wipes PP=Pure Products	ZA=Zinc Acetate
AR=Air	HS=H2SO4
O=	

ANALYSIS REQUIRED: VOCs (SW8260C)

TAT
- ☐ Rush __24__hrs.
- ☐ Rush __48_hrs
- ☐ Rush_72_hrs
- ☐ 7 days
- ☐ 14 days
- ☑ 21 days

SAMPLE ID		SAMPLING			CONTAINER			MATRIX CODE	QC	PRESERVATIVE CODE	COMMENTS
LAB	CLIENT	LOCATION	DATE	TIME	NO.	SIZE	TYPE			IC/HC	
* 1	T1AMF-TB002_OCT24	Trip Blank	10/23/2024	0640	3	40 mL	VOA	W	TB	X	
* 2	T1AMF-MW063_OCT24	MW-63	10/23/2024	0816	3	40 mL	VOA	GW		X	
* 3	T1AMF-MW064_OCT24	MW-64	10/23/2024	0903	3	40 mL	VOA	GW		X	
* 4	T1AMF-MW055_OCT24	MW-55	10/23/2024	1039	3	40 mL	VOA	GW		X	
* 5	T1AMF-MW054_OCT24	MW-54	10/23/2024	1115	3	40 mL	VOA	GW		X	
* 6	T1AMF-MW019_OCT24	MW-19	10/23/2024	1200	3	40 mL	VOA	GW		X	
* 7	T1AMF-MW016_OCT24	MW-16	10/23/2024	1249	3	40 mL	VOA	GW		X	
* 8	T1AMF-MW016_OCT24_FD	MW-16	10/23/2024	1254	3	40 mL	VOA	GW	FD	X	
* 9	T1AMF-MW011_OCT24	MW-11	10/23/2024	1342	3	40 mL	VOA	GW		X	
10	T1AMF-MW052_OCT24	MW-52	10/23/2024	1438	3	40 mL	VOA	GW		X	

Instructions	Cooler #	Temp. (°C)	Sample #s
	1	3.3	

SAMPLER Sean Moore/Jose Lopez (BTS)
COURIER/AIRBILL

RELINQUISHED BY	Date	Time	RECEIVED BY
Justin Steele / Parsons	10/24/24	1700	
	10/28/24	9:40	

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associ practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be $5.00 per sample. EMAX wil directed in writing otherwise.

EMAX LABORATORIES, INC.

REFERENCE: EMAX-SM02 Rev. 12

SAMPLE RECEIPT FORM 1

Type of Delivery	Airbill / Tracking Number	ECN 24J169
☒ Fedex ☐ UPS ☐ GSO ☐ Others	7795 0443 6633	Recipient Maria Rivera
☐ EMAX Courier ☐ Client Delivery		Date 10/28/24 Time 9:40

COC INSPECTION

☒ Client Name	☒ Client PM/FC	☒ Sampler Name	☒ Sampling Date/Time	☒ Sample ID	☒ Matrix
☐ Address	☒ Tel # / Fax #	☐ Courier Signature	☒ Analysis Required	☒ Preservative (if any)	☒ TAT
Safety Issues (if any)	☐ High concentrations expected	☐ From Superfund Site	☐ Rad screening required		

Note:

PACKAGING INSPECTION

Container	☒ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☐ Intact	☐ Damaged		
Packaging	☒ Bubble Pack	☐ Styrofoam	☐ Popcorn	☐ Sufficient	☒ bag
Temperatures (Cool, ≤6 °C but not frozen)	☒ Cooler 1 3.3 °C	☐ Cooler 2 ____ °C	☐ Cooler 3 ____ °C	☐ Cooler 4 ____ °C	☐ Cooler 5 ____ °C
	☐ Cooler 6 ____ °C	☐ Cooler 7 ____ °C	☐ Cooler 8 ____ °C	☐ Cooler 9 ____ °C	☐ Cooler 10 ____ °C
Thermometer:	*A - S/N* 240412221	*B - S/N* ____	*C - S/N* ____	*D - S/N* 230044057	

Comments: ☐ Temperature is out of range. PM was informed IMMEDIATELY.

Note:

DISCREPANCIES

LabSampleID	LabSampleContainerID	Code	ClientSample Label ID / Information	Corrective Action
1	2	D14		R4
1-10	1-30	D1/D16		R8, R1

USR 10/28

☐ pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

DF 10/28/24

NOTES/OBSERVATIONS:

SAMPLE MATRIX IS DRINKING WATER? ☐ YES ☑ NO

☐ Continue to next page.

LEGEND:

Code	Description- Sample Management
(D1)	Analysis is not indicated in label
D2	Analysis mismatch COC vs label
D3	Sample ID mismatch COC vs label
D4	Sample ID is not indicated in ____
D5	Container -[improper] [leaking] [broken]
D6	Date/Time is not indicated in ____
D7	Date/Time mismatch COC vs label
D8	Sample listed in COC is not received
D9	Sample received is not listed in COC
D10	No initial/date on corrections in COC/label
D11	Container count mismatch COC vs received
D12	Container size mismatch COC vs received

Code	Description-Sample Management
D13	Out of Holding Time
(D14)	Bubble is >6mm
D15	No trip blank in cooler
(D16)	Preservation not indicated in label
D17	Preservation mismatch COC vs label
D18	Insufficient chemical preservative
D19	Insufficient Sample
D20	No filtration info for dissolved analysis
D21	No sample for moisture determination
D22	____
D23	____
D24	____

Code	Description-Sample Management
(R1)	Proceed as indicated in ☒ COC ☐ Label
R2	Refer to attached instruction
R3	Cancel the analysis
(R4)	Use vial with smallest bubble first
R5	Log-in with latest sampling date and time+1 min
R6	Adjust pH as necessary
R7	Filter and preserved as necessary
(R8)	see SRF2
R9	____
R10	____
R11	____
R12	____

REVIEWS:

Sample Labeling: maria Rivera / Jocelyne Solis-Ramos
Date: 10/28/24 / 10/20/24

SRF: Jocelyne Solis-Ramos
Date: 10/20/24

PM: DF
Date: 10/28/24

Outlook

Re: Titan 1A: SDG 24J169 and 24J145

From Richard Beauvil <RBeauvil@emaxlabs.com>
Date Tue 2/4/2025 10:48 AM
To Beth.Driskill@parsons.us <Beth.Driskill@parsons.us>
Cc Katherine.LaPierre@parsons.us <Katherine.LaPierre@parsons.us>; Kortney.Blaufuss@parsons.us <Kortney.Blaufuss@parsons.us>; Jim Carter <JCarter@emaxlabs.com>; Caspar Pang <CPang@emaxlabs.com>

Hi Beth,

See our response below.

Thank you.

Richard M. Beauvil
Project Manager/Safety Officer
3051 Fujita Street
Torrance, CA 90505
Tel: 310-618-8889 X118
rbeauvil@emaxlabs.com

EMAX is interested in your feedback; please provide your comments to: customerservice@emaxlabs.com
EMAX Holidays Schedule Update:

From: Beth.Driskill@parsons.us <Beth.Driskill@parsons.us>
Sent: Tuesday, January 28, 2025 11:57 AM
To: Richard Beauvil <RBeauvil@emaxlabs.com>
Cc: Katherine.LaPierre@parsons.us <Katherine.LaPierre@parsons.us>; Kortney.Blaufuss@parsons.us <Kortney.Blaufuss@parsons.us>; Jim Carter <JCarter@emaxlabs.com>; Caspar Pang <CPang@emaxlabs.com>
Subject: Titan 1A: SDG 24J169 and 24J145

Hi Richard. I'm reviewing the Titan 1A data and noticed in a couple of instances that the end CCV and in one case a sample were analyzed outside the 12-hour tune period. We must qualify data because of this issue. Is someone 2nd level reviewing these types of things? I'm concerned because none of the instances were noted in the case narrative, and it's occurred more than once.

Case narrative will be revised to note the incident.

For SDG 24J169, the end CCV was analyzed outside the 12-hour tune time on 10/30/24 (instrument 06). Also, I noticed that the LCS and LCSD were analyzed before the CCV on that sequence. The standards and concentrations appear to be the same for the LCS/LCSD and CCVs but it looks like the standards may have been named incorrectly (i.e. the LCS should be the CCV). Can you please have your analyst take a look and correct the data, forms and sequences so the CCV is analyzed before the LCS and LCSD? Can you please have the corrections completed and a reissued report to me by Thursday, 1/30?

File R1W542 - R1W544 were incorrectly named, should be CV006J199, V006J26L,V006J26C respectively. Report will be revised to display the correct file names.

Thanks,
Beth

Beth Driskill
Principal Scientist
Austin, Texas
New Email address: Beth.driskill@parsons.us
Mobile +1 512.789.2451



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APHRILL ESQUELL
PARSONS
100 PRINGLE AVE STE 525
WALNUT CREEK, CA 94596
UNITED STATES US
SHIP DATE: 240CT24
ACTWGT: 59.50 LB
CAD: 6571674/ROSA2570
DIMS: 34x14x14 IN
BILL THIRD PARTY
TO
EMAX LAB
3051 FUJ
TORRA
(310) 618-888 TO
INV:
PO:
Part # 156297-435 THROUGH DATE 10/25
EMAX LABS
3051 FUJITA STREET
TORRANCE CA 90505
(310) 618-8889
REF:
DEPT:
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FedEx
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TRK# 0201 7795 0443 6633
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FRI - 25 OCT 10:30A
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AHS
90505
CA-US
LAX

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than LOQ/RL but greater than LOD/MDL/DL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range or estimated value.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

SUMMARY PACKAGE
VOLATILE ORGANICS

CASE NARRATIVE

Client : PARSONS

Project: TITAN 1-A

SDG : 24J169

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

A total of ten(10) water samples were received on 10/28/24 to be analyzed for Volatile Organics by GC/MS in accordance with Method SW5030C/8260C and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. All calibration requirements were within acceptance criteria except for few analytes in CCV(data file ID RIW544)and (data file ID KV027) were not within 20% of expected values. However, ending CCV'S were within project QC acceptance criteria, except for ending CCV(data file ID RIW569)was analyze out of 12 hour. Hence, two consecutive CCV's ((Datafile ID: RIW570) and (Datafile ID: RIW571) thereafter within one hour from ending CCV (data file ID RIW569). Refer to calibration summary forms of ICAL, ICV and CCV's forms for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, two(2) method blanks were analyzed. VO01K02B and VO06J26B were compliant to project requirement. Refer to sample result summary forms for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, two(2) sets of LCS/LCD were analyzed. All analytes were within LCS limits in VO01K02L/VO01K02C and VO06J26L/VO06J26C, except for results qualified with [*]. Refer to LCS summary forms for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. For this SDG, all surrogate recoveries were within QC limits except for 1,2-Dichloroethane-D4 in J169-03, J169-01, J169-02 and J169-04. It was noted that Dibromofluoromethane surrogate, an alternate surrogate for 1,2-Dichloroethane-D4, was in control. Hence, result was reported. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter.

Revised Report

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : TITAN 1-A

SDG NO. : 24J169
Instrument ID : 06

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1W	V006J26L	1	NA	10/30/2410:23	10/30/2410:23	RIW543	RIW364	V006J26	Lab Control Sample (LCS)
LCD1W	V006J26C	1	NA	10/30/2410:49	10/30/2410:49	RIW544	RIW364	V006J26	LCS Duplicate
MBLK1W	V006J26B	1	NA	10/30/2411:54	10/30/2411:54	RIW546	RIW364	V006J26	Method Blank
T1AMF-TB002_OCT24	24J169-01	1	NA	10/30/2418:54	10/30/2418:54	RIW562	RIW364	V006J26	Field Sample
T1AMF-MW063_OCT24	24J169-02	1	NA	10/30/2419:21	10/30/2419:21	RIW563	RIW364	V006J26	Field Sample
T1AMF-MW064_OCT24	24J169-03	1	NA	10/30/2419:47	10/30/2419:47	RIW564	RIW364	V006J26	Field Sample
T1AMF-MW055_OCT24	24J169-04	1	NA	10/30/2420:13	10/30/2420:13	RIW565	RIW364	V006J26	Field Sample
LCS2W!	V001K02L	1	NA	11/04/2417:58	11/04/2417:58	RKV028	RJV302	V001K02	Lab Control Sample (LCS)
LCD2W!	V001K02C	1	NA	11/04/2418:27	11/04/2418:27	RKV029	RJV302	V001K02	LCS Duplicate
MBLK2W!	V001K02B	1	NA	11/04/2419:26	11/04/2419:26	RKV031	RJV302	V001K02	Method Blank
T1AMF-MW054_OCT24!	24J169-05	1	NA	11/04/2419:55	11/04/2419:55	RKV032	RJV302	V001K02	Field Sample
T1AMF-MW019_OCT24!	24J169-06	1	NA	11/04/2420:24	11/04/2420:24	RKV033	RJV302	V001K02	Field Sample
T1AMF-MW016_OCT24!	24J169-07	1	NA	11/04/2420:53	11/04/2420:53	RKV034	RJV302	V001K02	Field Sample
T1AMF-MW016_OCT24_FD!	24J169-08	1	NA	11/04/2421:22	11/04/2421:22	RKV035	RJV302	V001K02	Field Sample
T1AMF-MW011_OCT24!	24J169-09	1	NA	11/04/2421:51	11/04/2421:51	RKV036	RJV302	V001K02	Field Sample
T1AMF-MW052_OCT24!	24J169-10	1	NA	11/04/2422:20	11/04/2422:20	RKV037	RJV302	V001K02	Field Sample

! Instrument ID : 01
FN - Filename
% Moist - Percent Moisture

Revised Report

SAMPLE RESULTS

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 06:40
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	10/30/24 18:54
Sample ID	: T1AMF-TB002_OCT24	Date Analyzed:	10/30/24 18:54
Lab Samp ID:	24J169-01	Dilution Factor:	1
Lab File ID:	RIW562	Matrix:	WATER
Ext Btch ID:	VO06J26	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	12.3	10.0	123*	81-118
4-Bromofluorobenzene	10.5	10.0	105	85-114
Toluene-d8	9.50	10.0	95	89-112
Dibromofluoromethane	9.25	10.0	92	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : PMai Analyzed by : PMai
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 08:16
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	10/30/24 19:21
Sample ID	: T1AMF-MW063_OCT24	Date Analyzed:	10/30/24 19:21
Lab Samp ID:	24J169-02	Dilution Factor:	1
Lab File ID:	RIW563	Matrix:	WATER
Ext Btch ID:	VO06J26	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	12.4	10.0	124*	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	9.17	10.0	92	89-112
Dibromofluoromethane	9.27	10.0	93	80-119

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: PMai	Analyzed by	: PMai

Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 09:03
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	10/30/24 19:47
Sample ID	: T1AMF-MW064_OCT24	Date Analyzed:	10/30/24 19:47
Lab Samp ID:	24J169-03	Dilution Factor:	1
Lab File ID:	RIW564	Matrix:	WATER
Ext Btch ID:	VO06J26	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	12.7	10.0	127*	81-118
4-Bromofluorobenzene	9.56	10.0	96	85-114
Toluene-d8	9.34	10.0	93	89-112
Dibromofluoromethane	9.14	10.0	91	80-119

Notes:
Sample Amount : 25ml
Final Volume : 25ml
Prepared by : PMai
Analyzed by : PMai
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 10:39
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	10/30/24 20:13
Sample ID	: T1AMF-MW055_OCT24	Date Analyzed:	10/30/24 20:13
Lab Samp ID:	24J169-04	Dilution Factor:	1
Lab File ID:	RIW565	Matrix:	WATER
Ext Btch ID:	VOO6J26	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	12.7	10.0	127*	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	9.28	10.0	93	89-112
Dibromofluoromethane	9.13	10.0	91	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : PMai Analyzed by : PMai
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 11:15
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	11/04/24 19:55
Sample ID	: T1AMF-MW054_OCT24	Date Analyzed:	11/04/24 19:55
Lab Samp ID:	24J169-05	Dilution Factor:	1
Lab File ID:	RKV032	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	0.84J	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	3.1	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	9.33	10.0	93	81-118
4-Bromofluorobenzene	9.80	10.0	98	85-114
Toluene-d8	10.6	10.0	106	89-112
Dibromofluoromethane	10.4	10.0	104	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 12:00
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	11/04/24 20:24
Sample ID	: T1AMF-MW019_OCT24	Date Analyzed:	11/04/24 20:24
Lab Samp ID:	24J169-06	Dilution Factor:	1
Lab File ID:	RKV033	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	4.1	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	9.64	10.0	96	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	10.8	10.0	108	89-112
Dibromofluoromethane	10.6	10.0	106	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 12:49
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	11/04/24 20:53
Sample ID	: T1AMF-MW016_OCT24	Date Analyzed:	11/04/24 20:53
Lab Samp ID:	24J169-07	Dilution Factor:	1
Lab File ID:	RKV034	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	0.24J	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	1.1	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.15J	1.0	0.10	0.20
Trichloroethene	4.8	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	9.95	10.0	100	81-118
4-Bromofluorobenzene	9.77	10.0	98	85-114
Toluene-d8	10.7	10.0	107	89-112
Dibromofluoromethane	10.7	10.0	107	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 12:54
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	11/04/24 21:22
Sample ID	: T1AMF-MW016_OCT24_FD	Date Analyzed:	11/04/24 21:22
Lab Samp ID:	24J169-08	Dilution Factor:	1
Lab File ID:	RKV035	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	0.16J	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	1.0	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.15J	1.0	0.10	0.20
Trichloroethene	4.0	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	9.95	10.0	100	81-118
4-Bromofluorobenzene	9.89	10.0	99	85-114
Toluene-d8	10.5	10.0	105	89-112
Dibromofluoromethane	10.9	10.0	109	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 13:42
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	11/04/24 21:51
Sample ID	: T1AMF-MW011_OCT24	Date Analyzed:	11/04/24 21:51
Lab Samp ID:	24J169-09	Dilution Factor:	1
Lab File ID:	RKV036	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	1.1	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	9.1	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.1	10.0	101	81-118
4-Bromofluorobenzene	9.76	10.0	98	85-114
Toluene-d8	10.6	10.0	106	89-112
Dibromofluoromethane	10.9	10.0	109	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 14:38
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	11/04/24 22:20
Sample ID	: TiAMF-MW052_OCT24	Date Analyzed:	11/04/24 22:20
Lab Samp ID:	24J169-10	Dilution Factor:	1
Lab File ID:	RKV037	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	0.49J	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.38J	1.0	0.10	0.20
Trichloroethene	7.1	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	9.76	10.0	98	81-118
4-Bromofluorobenzene	9.95	10.0	100	85-114
Toluene-d8	10.9	10.0	109	89-112
Dibromofluoromethane	10.8	10.0	108	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

QC SUMMARIES

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/30/24 11:54
Project	: TITAN 1-A	Date Received:	10/30/24
Batch No.	: 24J169	Date Extracted:	10/30/24 11:54
Sample ID	: MBLK1W	Date Analyzed:	10/30/24 11:54
Lab Samp ID:	VO06J26B	Dilution Factor:	1
Lab File ID:	RIW546	Matrix:	WATER
Ext Btch ID:	VO06J26	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.4	10.0	114	81-118
4-Bromofluorobenzene	9.71	10.0	97	85-114
Toluene-d8	9.30	10.0	93	89-112
Dibromofluoromethane	9.14	10.0	91	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : PMai Analyzed by : PMai
Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J169
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: V006J26B	V006J26L	V006J26C
LAB FILE ID	: RIW546	RIW543	RIW544
DATE PREPARED	: 10/30/24 11:54	10/30/24 10:23	10/30/24 10:49
DATE ANALYZED	: 10/30/24 11:54	10/30/24 10:23	10/30/24 10:49
PREP BATCH	: V006J26	V006J26	V006J26
CALIBRATION REF:	RIW364	RIW364	RIW364

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichloroethene	ND	10.0	8.57	86	10.0	11.1	111	26*	71-131	20
1,4-Dichlorobenzene	ND	10.0	8.80	88	10.0	10.6	106	19	79-118	20
Benzene	ND	10.0	8.85	89	10.0	10.7	107	19	79-120	20
cis-1,2-Dichloroethene	ND	10.0	8.08	81	10.0	9.75	98	19	78-123	20
Ethylbenzene	ND	10.0	8.75	88	10.0	11.1	111	24*	79-121	20
m,p-Xylene	ND	20.0	17.3	87	20.0	21.6	108	22*	80-121	20
o-Xylene	ND	10.0	8.62	86	10.0	10.9	109	23*	78-122	20
Toluene	ND	10.0	8.61	86	10.0	10.9	109	23*	80-121	20
Trans-1,2-Dichloroethene	ND	10.0	7.26	73*	10.0	9.32	93	25*	75-124	20
Trichloroethene	ND	10.0	7.62	76*	10.0	9.20	92	19	79-123	20
Vinyl Chloride	ND	10.0	9.44	94	10.0	8.77	88	7	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	10.8	108	10.0	10.4	104	81-118
4-Bromofluorobenzene	10.0	10.1	101	10.0	9.84	98	85-114
Toluene-d8	10.0	9.09	91	10.0	9.50	95	89-112
Dibromofluoromethane	10.0	9.02	90	10.0	8.66	87	80-119

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate
* Out of QC Limit

Revised Report

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	11/04/24 19:26
Project	: TITAN 1-A	Date Received:	11/04/24
Batch No.	: 24J169	Date Extracted:	11/04/24 19:26
Sample ID	: MBLK2W	Date Analyzed:	11/04/24 19:26
Lab Samp ID:	VO01K02B	Dilution Factor:	1
Lab File ID:	RKV031	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	8.91	10.0	89	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	10.9	10.0	109	89-112
Dibromofluoromethane	10.3	10.0	103	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J169
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR:	1	1	1
SAMPLE ID	: MBLK2W	LCS2W	LCD2W
LAB SAMPLE ID	: VO01K02B	VO01K02L	VO01K02C
LAB FILE ID	: RKV031	RKV028	RKV029
DATE PREPARED	: 11/04/24 19:26	11/04/24 17:58	11/04/24 18:27
DATE ANALYZED	: 11/04/24 19:26	11/04/24 17:58	11/04/24 18:27
PREP BATCH	: VO01K02	VO01K02	VO01K02
CALIBRATION REF:	RJV302	RJV302	RJV302

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichloroethene	ND	10.0	9.72	97	10.0	10.0	100	3	71-131	20
1,4-Dichlorobenzene	ND	10.0	10.8	108	10.0	11.3	113	5	79-118	20
Benzene	ND	10.0	10.8	108	10.0	11.0	110	2	79-120	20
cis-1,2-Dichloroethene	ND	10.0	10.9	109	10.0	11.4	114	4	78-123	20
Ethylbenzene	ND	10.0	11.0	110	10.0	11.1	111	1	79-121	20
m,p-Xylene	ND	20.0	20.4	102	20.0	20.8	104	2	80-121	20
o-Xylene	ND	10.0	10.8	108	10.0	11.9	119	10	78-122	20
Toluene	ND	10.0	10.1	101	10.0	11.1	111	9	80-121	20
Trans-1,2-Dichloroethene	ND	10.0	9.91	99	10.0	10.1	101	2	75-124	20
Trichloroethene	ND	10.0	10.9	109	10.0	11.5	115	5	79-123	20
Vinyl Chloride	ND	10.0	9.50	95	10.0	10.0	100	5	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	9.38	94	10.0	9.37	94	81-118
4-Bromofluorobenzene	10.0	9.21	92	10.0	9.77	98	85-114
Toluene-d8	10.0	9.30	93	10.0	10.4	104	89-112
Dibromofluoromethane	10.0	10.3	103	10.0	10.5	105	80-119

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

INITIAL CALIBRATIONS

FORM 5

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : ICAL

Lab Code : EMAX SDG No : ICAL

Lab File ID: RIW358 BFB Injection Date: 10/19/24

Instrument ID: 06 BFB Injection Time: 15:14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	15.276
75	30 - 60% of mass 95	42.848
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	5.201
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	75.566
175	5 - 9% of mass 174	5.084(6.73)1
176	95 - 101% % of mass 174	74.029(97.97)1
177	5 - 9% % of mass 176	4.277(5.78)2

1 Value is % mass 174 2 value is % mass 176

This check applies to the following Calibration Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	VO06J191	RIW359	10/19/24	15:59
2	VSTD0.5	VO06J192	RIW360	10/19/24	16:26
3	VSTD1	VO06J193	RIW361	10/19/24	16:53
4	VSTD2	VO06J194	RIW362	10/19/24	17:19
5	VSTD5	VO06J195	RIW363	10/19/24	17:45
6	VSTD10	VO06J196	RIW364	10/19/24	18:11
7	VSTD20	VO06J197	RIW365	10/19/24	18:38
8	VSTD30	VO06J198	RIW366	10/19/24	19:04
9	VSTD50	VO06J199	RIW367	10/19/24	19:30
10	VSTD100	VO06J1910	RIW368	10/19/24	19:57
11	VSTD10	IVO06J191	RIW371	10/19/24	21:15

11/15/24

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument_ID :06
Beginning DateTime :10/19/24 15:59
Spike Units :PPB
IC File :RIW364

Column Spec :RTX502.2 ID :0.25MM
Ending DateTime :10/19/24 19:57
HPChem Method :V006J19

M	IDX	Parameters	3 15:59 RIW359	5 16:26 RIW360	1 16:53 RIW361	2 17:19 RIW362	5 17:45 RIW363	10 18:11 RIW364	20 18:38 RIW365	30 19:04 RIW366	50 19:30 RIW367	100 19:57 RIW368	Av RRF	% RSD	Av Rt M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	9.8425
	2	Dichlorodifluoromethane	0.443	0.330	0.316	0.353	0.360	0.425	0.352	0.325	0.330	0.322	0.356	12.33	1.5731
	3	Chloromethane	0.264	0.308	0.318	0.355	0.368	0.427	0.366	0.342	0.359	0.349	0.346	15.43	1.7623
	4	Vinyl chloride	-----	0.335	0.358	0.378	0.388	0.381	0.394	0.354	0.351	-----	0.377	14.95	1.8699
	5	Bromomethane	0.302	0.167	0.228	0.230	0.228	0.302	0.260	0.240	0.257	0.259	0.252	13.33	2.1335
	6	Chloroethane	0.156	0.161	0.169	0.165	0.196	0.234	0.201	0.186	0.196	0.199	0.191	11.58	2.4302
	7	Dichlorofluoromethane	0.538	0.469	0.462	0.412	0.472	0.554	0.446	0.434	0.441	0.428	0.466	10.00	2.4604
	8	Trichlorofluoromethane	0.394	0.300	0.317	0.347	0.380	0.452	0.394	0.371	0.385	0.377	0.377	11.49	2.4599
5	9	Acrolein	-----	0.010	0.011	0.010	0.010	0.012	0.009	0.010	0.010	0.011	0.010	5.97	2.6910
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	0.263	0.196	0.204	0.165	0.211	0.260	0.205	0.206	0.212	0.206	0.213	13.61	2.7045
5	11	Acetone	-----	0.030	0.035	0.031	0.030	0.033	0.030	0.028	0.030	0.031	0.031	6.01	2.7555
	12	1,1-Dichloroethene	0.531	0.435	0.445	0.372	0.458	0.538	0.439	0.440	0.435	0.433	0.453	10.84	2.7902
25	13	tert-Butyl alcohol	-----	-----	0.008	0.006	0.009	0.010	0.009	0.009	-----	-----	0.009	14.67	2.8380
	14	Acetonitrile	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.000	0.00	2.5860
	15	Methyl acetate	0.022	0.022	0.022	0.021	0.020	0.021	0.021	0.019	0.020	0.022	0.021	4.29	2.9643
	16	Iodomethane	0.485	0.435	0.456	0.403	0.486	0.576	0.460	0.455	0.455	0.461	0.464	8.54	2.9637
	17	Allyl chloride	0.180	0.176	0.159	0.153	0.176	0.212	0.178	0.182	0.187	0.192	0.181	8.24	2.9824
	18	Methylene chloride	0.365	0.321	0.320	0.295	0.332	0.388	0.324	0.325	0.325	0.332	0.332	8.53	2.9573
5	19	Carbon disulfide	-----	-----	0.517	0.535	0.565	0.715	0.553	0.516	-----	-----	0.567	13.30	2.9573
	20	Acrylonitrile	0.038	0.035	0.038	0.040	0.042	0.048	0.042	0.042	0.043	0.044	0.041	8.82	3.1307
	21	tert-Butyl methyl ether (MTBE)	0.485	0.458	0.469	0.405	0.499	0.579	0.479	0.480	0.470	0.507	0.485	9.00	3.3984
	22	trans-1,2-Dichloroethene	0.419	0.333	0.324	0.274	0.339	0.391	0.324	0.329	0.330	0.328	0.339	11.64	3.4425
	23	Isopropyl ether (DIPE)	0.805	0.866	0.854	0.793	0.936	1.085	0.911	0.913	0.889	0.889	0.895	9.09	3.6564
	24	Vinyl acetate	-----	0.235	0.250	0.288	0.316	0.379	0.335	0.328	0.332	0.332	0.311	14.53	3.5253
	25	1,1-Dichloroethane	0.526	0.491	0.511	0.421	0.510	0.591	0.482	0.500	0.498	0.501	0.504	8.18	3.5574
25	26	2-Butanol	-----	-----	-----	0.007	0.008	0.009	0.006	0.009	0.009	0.009	0.009	10.55	3.4784
	27	tert-Butyl ethyl ether (ETBE)	0.591	0.642	0.677	0.604	0.672	0.764	0.642	0.650	0.642	0.729	0.662	7.94	3.6378
5	28	2-Butanone	-----	0.034	0.051	0.048	0.054	0.061	0.054	0.054	0.055	0.057	0.052	14.55	3.6360
	29	2,2-Dichloropropane	-----	0.317	0.309	0.280	0.317	0.377	0.301	0.291	0.282	0.245	0.302	11.90	3.7504
	30	cis-1,2-Dichlorbethene	0.343	0.310	0.328	0.274	0.328	0.381	0.320	0.326	0.327	0.336	0.327	8.13	3.6773
	31	Chloroform	0.581	0.531	0.502	0.418	0.493	0.571	0.481	0.484	0.481	0.482	0.503	8.43	3.8426
	32	Bromochloromethane	0.124	0.134	0.133	0.119	0.142	0.166	0.139	0.143	0.142	0.151	0.138	8.48	3.8840
	33	Tetrahydrofuran	-----	0.030	0.038	0.028	0.030	0.029	0.027	0.028	0.028	0.032	0.030	10.65	3.7849
5	34	tert-Amyl alcohol	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.000	0.00	3.0000
	35	Dibromofluoromethane	-----	0.221	0.205	0.237	0.229	0.314	0.257	0.251	-----	-----	0.245	14.43	3.8082
	36	1,1,1-Trichloroethane	0.468	0.401	0.394	0.330	0.403	0.471	0.391	0.392	0.390	0.378	0.402	10.25	3.8088
	37	Cyclohexane	0.613	0.462	0.473	0.467	0.577	0.592	0.513	0.467	0.472	0.462	0.502	11.11	3.8900
	38	2,2,4-Trimethylpentane	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.000	0.00	3.0000
	39	1,1-Dichloropropene	0.165	0.141	0.152	0.119	0.142	0.168	0.145	0.147	0.149	0.151	0.148	9.27	3.8821
	40	Carbon tetrachloride	0.342	0.314	0.319	0.273	0.336	0.391	0.335	0.331	0.323	0.319	0.327	9.00	3.8562
	41	tert-Amyl methyl ether (TAME)	0.534	0.538	0.559	0.467	0.577	0.693	0.558	0.564	0.547	0.570	0.560	7.54	3.9325
	42	1,2-Dichloroethane-d4	0.151	0.154	0.145	0.127	0.163	0.178	0.177	-----	-----	-----	0.162	14.43	3.8560
	43	1,2-Dichloroethane	0.161	0.185	0.168	0.165	0.183	0.213	0.248	0.211	0.216	0.208	0.215	0.204	11.62	3.8540
	44	Benzene	1.142	1.185	1.217	1.068	1.241	1.407	1.159	1.175	1.140	0.852	1.159	12.05	3.9378
	45	Trichloroethene	0.285	0.304	0.301	0.255	0.318	0.366	0.309	0.310	0.308	0.306	0.305	9.05	3.9379
	46	Methylcyclohexane	0.859	0.621	0.591	0.586	0.603	0.689	0.618	0.569	0.565	0.544	0.629	14.68	3.9317
	47	1,2-Dichloropropane	0.226	0.238	0.249	0.221	0.257	0.296	0.255	0.260	0.255	0.262	0.253	8.28	3.9135
20	48	1,4-Dioxane	-----	-----	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	11.50	3.7924
	49	Bromodichloromethane	0.324	0.329	0.327	0.285	0.330	0.379	0.322	0.324	0.315	0.324	0.325	7.01	3.9366
	50	Dibromomethane	0.105	0.131	0.123	0.106	0.121	0.142	0.120	0.123	0.122	0.127	0.122	8.82	3.9328
	51	2-Chloroethyl vinyl ether	-----	0.086	0.082	0.067	0.078	0.093	0.081	0.084	0.083	0.088	0.083	8.53	3.9104
5	52	4-Methyl-2-pentanone	0.100	0.119	0.140	0.155	0.152	0.173	0.146	0.143	0.140	0.125	0.139	14.61	3.9395
	53	cis-1,3-Dichloropropene	0.304	0.382	0.381	0.344	0.412	0.484	0.403	0.403	0.393	0.401	0.391	11.87	3.9878
	54	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	3.3044
	55	Toluene-d8	-----	1.256	1.214	1.396	1.339	1.795	1.352	1.323	-----	-----	1.382	13.88	15.3387
	56	Toluene	1.590	1.709	1.752	1.511	1.758	1.984	1.602	1.595	1.431	-----	1.660	9.78	12.7034
	57	Ethyl methacrylate	0.220	0.239	0.267	0.244	0.279	0.329	0.273	0.282	0.273	0.286	0.269	11.16	12.6413
	58	trans-1,3-Dichloropropene	0.286	0.369	0.393	0.353	0.406	0.484	0.398	0.405	0.402	0.407	0.380	12.81	13.2959
	59	1,1,2-Trichloroethane	0.175	0.213	0.221	0.177	0.212	0.251	0.206	0.210	0.210	0.213	0.208	10.83	13.2814
5	60	2-Hexanone	0.101	0.101	0.110	0.129	0.127	0.143	0.121	0.118	0.119	0.112	0.119	8.83	13.4830
	61	1,3-Dichloropropane	0.306	0.356	0.372	0.341	0.384	0.455	0.376	0.381	0.372	0.376	0.378	10.73	13.5648
	62	Tetrachloroethene	0.353	0.359	0.351	0.276	0.357	0.424	0.350	0.351	0.365	0.348	0.327	9.54	13.9318
	63	Dibromochloromethane	0.230	0.272	0.251	0.222	0.267	0.308	0.251	0.260	0.257	0.264	0.255	8.93	13.9863
	64	2-Ethyl-1-butanol	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.258	9.14	14.3323
	65	1,2-Dibromoethane	0.144	0.177	0.181	0.169	0.204	0.237	0.197	0.200	0.197	0.200	0.000	0.00	0.0000
	66	Chlorohexane	0.670	0.778	0.743	0.564	0.693	0.768	0.646	0.687	0.657	0.559	0.191	12.90	14.6720
	67	Chlorobenzene	0.826	0.917	0.926	0.796	0.980	1.195	0.890	0.886	0.857	0.727	0.676	11.14	15.0223
	68	1,1,1,2-Tetrachloroethane	0.307	0.278	0.292	0.258	0.311	0.368	0.303	0.328	0.327	0.727	0.907	11.92	15.4037
	69	Ethylbenzene	1.240	1.213	1.235	1.040	1.202	1.424	1.226	1.213	1.210	0.318	0.306	9.38	15.4945
2	70	m-Xylene & p-Xylene	1.330	1.430	1.439	1.182	1.404	1.587	1.268	1.273	1.405	-----	1.791	12.23	15.5132
	71	o-Xylene	1.448	1.383	1.375	1.182	1.406	1.585	1.279	1.285	1.192	-----	1.341	11.99	15.6470
	72	Styrene	0.828	1.092	0.967	0.868	1.034	1.199	0.974	1.001	0.985	0.753	0.966	12.84	16.3685
	73	Isopropylbenzene	1.968	1.718	1.825	1.532	1.879	2.099	1.680	1.656	1.407	-----	1.752	12.29	16.4382
	74	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	16.9826
	75	Bromoform	-----	0.283	0.271	0.243	0.299	0.362	0.323	0.334	0.348	0.346	0.312	12.92	16.3848
	76	1,1,2,2-Tetrachloroethane	0.405	0.509	0.504	0.488	0.577	0.665	0.562	0.577	0.582	0.569	0.542	14.29	16.6944
	77	4-Bromofluorobenzene	-----	-----	-----	1.014	0.977	1.384	1.110	1.098	-----	-----	1.144	14.96	17.2729
	78	1,2,3-Trichloropropane	0.101	0.141	0.150	0.121	0.138	0.159	0.139	0.145	0.151	0.148	0.118	12.29	17.3715
	79	trans-1,4-Dichloro-2-butene	0.094	0.142	0.125	0.101	0.125	0.152	0.135	0.133	0.141	0.141	0.129	14.30	17.4935
	80	n-Propylbenzene	5.131	6.111	6.055	4.669	5.841	6.732	5.433	5.552	-----	-----	5.703	12.14	17.6039
	81	Bromobenzene	0.634	0.916	0.905	0.707	0.916	1.101	0.908	0.891	0.958	0.949	0.891	14.69	17.6377
	82	1,3,5-Trimethylbenzene	3.143	3.708	3.682	2.923	3.625	4.260	3.427	3.532	3.364	-----	3.578	13.24	17.5990
	83	2-Chlorotoluene	3.090	3.614	3.632	2.915	3.645	4.308	3.536	3.386	3.064	-----	3.477	11.80	17.8180
	84	4-Chlorotoluene	3.324	2.906	3.806	2.931	3.847	3.913	3.236	3.218	2.970	-----	3.364	10.55	17.8310
	85	tert-Butylbenzene	3.250	3.769	3.788	2.829	3.803	3.920	3.784	3.792	3.811	0.796	2.888	14.25	17.8959
	86	1,2,4-Trimethylbenzene	3.143	3.762	3.788	2.829	3.803	4.452	3.353	3.317	2.905	-----	3.400	12.47	18.0243
	87	sec-Butylbenzene	4.877	5.112	5.085	3.997	5.048	5.884	4.619	4.116	-----	-----	4.841	12.46	18.1320
	88	p-Isopropyltoluene	4.019	4.040	4.402	3.202	4.130	4.700	3.655	3.530	2.990	-----	3.830	13.69	18.0863
	89	1,3-Dichlorobenzene	1.474	1.880	1.741	1.477	1.863	2.161	1.769	1.738	1.775	1.453	1.733	12.78	18.0972
	90	1,2,3-Trimethylbenzene	2.874	3.070	3.115	2.655	3.211	3.683	2.922	2.909	2.606	-----	2.975	10.74	18.2918
	91	1,4-Dichlorobenzene	1.387	1.700	1.654	1.461	1.770	2.115	1.725	1.725	1.726	1.426	1.673	10.24	18.8709
	92	n-Butylbenzene	4.237	3.888	3.857	2.950	3.958	4.515	3.512	3.533	-----	-----	3.763	13.67	18.9183
	93	1,2-Dichlorobenzene	1.254	1.422	1.461	1.251	1.491	1.743	1.405	1.416	1.353	1.300	1.413	10.06	19.1421
	94	1,2-Dibromo-3-chloropropane	0.110	0.057	0.091	0.078	0.079	0.087	0.071	0.071	0.072	0.084	0.085	13.87	19.3109
	95	1,2,4-Trichlorobenzene	0.885	0.770	0.704	0.647	0.835	0.986	0.848	0.851	0.836	0.913	0.820	11.66	20.0781
	96	Hexachlorobutadiene	0.642	0.478	0.498	0.367	0.543	0.600	0.452	0.456	0.423	-----	0.489	15.00	20.0344
	97	Naphthalene	1.235	1.035	1.005	0.962	1.131	1.343	1.176	1.189	1.123	1.245	1.149	10.32	21.1594
	98	1,2,3-Trichlorobenzene	0.694	0.529	0.518	0.485	0.606	0.724	0.648	0.621	0.650	0.703	0.618	13.43	21.4138

Spike Amount = Nominal Amount * M
Ave_%RSD : 11.3 Max_%RSD : 19

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = x0 + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
96	Hexachlorobutadiene	0.00657	0.43681	0.9902*

Use Quadratic Regression of inv conc w.f. for comps of linear reg of inv conc w.f. with CCF < .995
Resp_Ratio = x0 + x1 * Amt_Ratio + x2 * Amt_Ratio * Amt_Ratio

IDX	Parameter	x0	x1	x2	CCF2
96	Hexachlorobutadiene	0.00094	0.50848	-0.02062	0.9928*

SM 11/15/24

PROGRAM: ICALMAX

Input: R:\CAL\8260\2024\VO06J19\RIW364.ICL Output: R:\CAL\8260\2024\VO06J19\RIW364.MAX

IDX	Parameter	x0	x1	x2	CCF2	MaxMinAmtRatio	MaxMinRespRatio	MaxMinRRF	MaxMinConc
96	Hexachlorobutadiene	0.00094	0.50848	-0.02062	0.9928*	12.32978	3.13566	0.25432	123.3

SU
11/15/24

Instrument ID :06
Beginning DateTime :10/19/24 15:59
Spike Units :PPB
IC File :RIW364

Column Spec :RTX502.2 ID :0.25MM
Ending DateTime :10/19/24 19:57
HPChem Method :V006J19

M	IDX	Parameters	3 15:59 RIW359	5 16:26 RIW360	1 16:53 RIW361	2 17:19 RIW362	5 17:45 RIW363	10 18:11 RIW364	20 18:38 RIW365	30 19:04 RIW366	50 19:30 RIW367	100 19:57 RIW368	AvDRec	% RSD	Av Rt M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	9.8425
	2	Dichlorodifluoromethane	124	93	89	99	101	119	99	91	93	90	9.1	12.33	1.5731
	3	Chloromethane	76	89	92	103	107	123	106	99	104	101	8.7	12.43	1.7923
	4	Vinyl chloride	------	81	93	100	108	130	106	92	91	------	11	14.95	1.8999
	5	Bromomethane	120	78	87	91	102	120	103	95	102	103	9.8	13.23	2.3335
	6	Chloroethane	82	84	101	97	104	123	105	97	103	104	7.8	11.28	2.4204
	7	Dichlorofluoromethane	115	100	103	88	101	118	95	93	94	92	7.5	10.00	2.4599
	8	Trichlorofluoromethane	106	81	85	94	102	122	106	100	104	100	8.1	11.49	2.6910
5	9	Acrolein	------	100	110	100	100	120	90	100	100	110	5.6	5.97	3.2040
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	123	92	96	77	99	122	96	97	100	97	9.2	13.61	3.2555
5	11	Acetone	------	97	113	100	97	106	97	94	97	100	4.3	6.01	3.2902
	12	1,1-Dichloroethene	117	96	98	82	101	119	97	97	96	96	7.5	10.84	3.4380
25	13	tert-Butyl alcohol	------	------	89	67	100	111	100	100	------	------	9.3	14.67	3.5860
	14	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	15	Methyl acetate	105	105	105	100	95	100	100	90	95	105	3.8	4.29	3.9643
	16	Iodomethane	104	94	97	87	104	120	99	98	98	99	5.6	8.54	3.8637
	17	Allyl chloride	99	97	95	85	99	117	98	101	103	106	5.4	8.24	3.9874
	18	Methylene chloride	110	97	96	86	101	117	98	98	98	100	5.5	8.33	4.1573
	19	Carbon disulfide	------	------	91	94	100	126	98	91	------	------	8.7	13.30	4.1313
5	20	Acrylonitrile	93	85	93	98	102	117	102	102	105	107	6.8	8.82	4.3984
	21	tert-Butyl methyl ether (MTBE)	101	95	97	84	104	120	99	100	98	104	5.5	9.00	4.4425
	22	trans-1,2-Dichloroethene	124	98	96	81	100	115	96	97	97	97	7.8	11.64	4.6564
	23	Isopropyl ether (DIPE)	90	97	95	89	105	121	102	102	100	99	6	9.09	5.3253
	24	Vinyl acetate	------	76	80	93	102	122	108	105	107	107	11.3	14.53	5.5574
	25	1,1-Dichloroethane	104	97	101	84	101	117	98	99	99	99	4.8	8.18	5.4784
25	26	2-Butanol	------	------	------	78	89	100	100	100	100	100	4.8	10.55	6.0378
	27	tert-Butyl ethyl ether (ETBE)	89	97	102	91	102	115	97	98	97	110	5.9	7.94	6.2250
5	28	2-Butanone	------	65	98	92	104	117	104	104	106	110	9.8	14.55	6.5010
	29	2,2-Dichloropropane	------	105	102	93	105	125	100	96	93	81	8.2	11.90	6.7504
	30	cis-1,2-Dichloroethene	105	95	100	84	100	117	98	100	100	103	4.9	8.13	6.8772
	31	Chloroform	116	106	100	83	98	114	96	96	96	98	6.8	9.43	7.2840
	32	Bromochloromethane	89	96	96	86	102	119	100	103	102	109	6.8	9.49	7.6615
	33	Tetrahydrofuran	------	100	127	93	100	97	90	93	93	107	7.4	10.62	7.7849
5	34	tert-Amyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	35	Dibromofluoromethane	------	90	84	97	93	128	105	102	------	------	10.4	14.43	7.8062
	36	1,1,1-Trichloroethane	116	100	98	82	100	117	97	98	97	94	6.8	10.25	8.2088
	37	Cyclohexane	122	92	94	93	99	118	102	93	94	92	8.5	11.11	8.1900
	38	2,2,4-Trimethylpentane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	39	1,1-Dichloropropene	111	95	103	80	96	114	98	99	101	102	6.1	9.27	8.5821
	40	Carbon tetrachloride	105	96	98	83	104	120	99	101	99	98	5.7	9.00	8.7562
	41	tert-Amyl methyl ether (TAME)	95	96	100	89	102	118	100	101	98	102	4.5	7.54	8.9323
	42	1,2-Dichloroethane-d4	89	91	85	97	96	131	105	104	------	------	10.3	14.43	8.9590
	43	1,2-Dichloroethane	79	91	98	90	104	122	103	106	102	105	8.6	11.62	9.1546
	44	Benzene	99	102	105	92	107	121	100	101	98	74	7.5	12.05	9.1378
	45	Trichloroethene	93	99	98	83	104	120	101	101	101	100	5.2	9.05	10.4317
	46	Methylcyclohexane	138	100	95	94	97	110	99	91	91	87	9.5	14.68	10.5135
	47	1,2-Dichloropropane	90	94	99	88	102	117	101	103	101	105	5.9	8.38	10.7924
20	48	1,4-Dioxane	------	------	124	94	97	104	86	95	96	104	0	11.50	11.3366
	49	Bromodichloromethane	99	101	100	87	101	116	99	99	97	99	3.8	7.01	11.2328
	50	Dibromomethane	86	107	101	87	99	116	98	101	99	104	6	8.82	11.3104
	51	2-Chloroethyl vinyl ether	------	104	99	81	94	112	98	101	100	106	5.8	8.53	11.9395
5	52	4-Methyl-2-pentanone	72	86	101	112	109	124	105	102	101	90	10.6	14.61	11.9878
	53	cis-1,3-Dichloropropene	78	98	97	88	105	124	103	103	101	103	7.7	11.87	12.3044
	54	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	15.3387
	55	Toluene-d8	------	91	88	101	97	130	98	96	------	------	8.8	13.88	12.7034
	56	Toluene	96	103	106	91	106	120	97	96	86	------	7.6	9.78	12.8413
	57	Ethyl methacrylate	82	89	99	91	104	122	101	105	101	106	8	11.16	13.2859
	58	trans-1,3-Dichloropropene	73	95	101	91	104	124	102	104	103	104	8.4	12.81	13.2314
	59	1,1,2-Trichloroethane	84	102	106	85	101	120	99	100	100	102	6.5	10.33	13.4830
5	60	2-Hexanone	86	86	93	109	108	121	103	100	101	95	8.2	10.99	13.5648
	61	1,3-Dichloropropane	82	96	100	92	103	122	101	102	100	101	6	10.10	13.9318
	62	Tetrachloroethene	100	102	100	78	101	120	99	100	101	98	4.9	9.93	13.9863
	63	Dibromochloromethane	89	105	97	86	103	119	97	101	100	102	6.2	9.14	14.3323
	64	2-Ethyl-1-butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	65	1,2-Dibromoethane	75	93	95	88	107	124	103	105	103	105	9.5	12.90	14.6720
	66	1-Chlorohexane	99	115	110	83	103	114	96	102	97	83	8.5	11.14	15.0223
	67	Chlorobenzene	91	101	102	88	108	124	101	102	102	80	8.2	11.92	15.4037
	68	1,1,1,2-Tetrachloroethane	100	91	95	85	102	121	99	102	102	104	6.1	9.38	15.4945
	69	Ethylbenzene	97	107	108	92	106	121	96	94	78	------	9.4	12.23	15.5132
2	70	m-Xylene & p-Xylene	99	107	107	89	105	118	95	80	------	------	9.3	11.99	15.6470
	71	o-Xylene	107	102	102	88	104	118	95	95	88	------	7.5	9.54	16.3685
	72	Styrene	86	106	103	90	107	124	101	104	102	78	9.3	12.84	16.4382
	73	Isopropylbenzene	112	98	104	87	107	120	96	95	80	------	9.7	12.29	16.9858
	74	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	19.2849
	75	Bromoform	------	91	87	78	96	116	104	107	112	111	10.9	12.92	16.9744
	76	1,1,2,2-Tetrachloroethane	74	94	93	90	106	122	103	106	107	105	9.9	12.96	17.2729
	77	4-Bromofluorobenzene	------	------	------	91	88	124	99	98	------	------	9.6	14.29	17.3715
	78	1,2,3-Trichloropropane	73	101	108	87	99	114	100	104	109	106	8.4	12.14	17.4935
	79	trans-1,4-Dichloro-2-butene	73	110	97	78	97	118	105	103	109	109	10.0	14.30	17.6039
	80	n-Propylbenzene	92	110	109	84	105	121	97	83	------	------	10.9	13.24	17.5990
	81	Bromobenzene	71	103	102	79	103	124	102	102	108	107	9.9	14.69	17.6377
	82	1,3,5-Trimethylbenzene	90	107	106	84	106	123	99	97	88	------	9.1	11.80	17.8180
	83	2-Chlorotoluene	92	107	108	87	110	116	96	96	88	------	9.2	10.55	17.8310
	84	4-Chlorotoluene	80	101	101	81	100	129	105	105	99	------	8.9	14.25	17.8959
	85	tert-Butylbenzene	81	98	102	81	104	123	101	102	105	103	7.9	11.90	18.2765
	86	1,2,4-Trimethylbenzene	90	111	106	84	106	122	99	98	85	------	9.8	12.47	18.3243
	87	sec-Butylbenzene	101	106	105	83	104	121	95	85	------	------	9.3	12.46	18.5320
	88	p-Isopropyltoluene	105	105	110	84	108	123	95	92	78	------	11.3	13.96	18.6993
	89	1,3-Dichlorobenzene	95	108	100	85	108	125	102	100	102	84	9.2	12.70	18.7916
	90	1,2,3-Trimethylbenzene	96	102	104	88	107	123	97	97	87	------	7.8	10.74	18.8709
	91	1,4-Dichlorobenzene	83	102	101	87	106	126	103	103	103	85	8.9	12.63	18.9188
	92	n-Butylbenzene	112	103	102	78	105	120	93	95	------	------	10.7	13.67	19.1421
	93	1,2-Dichlorobenzene	89	101	103	89	106	123	99	100	98	86	6.6	10.06	19.3109
	94	1,2-Dibromo-3-chloropropane	129	114	107	92	93	102	84	91	88	99	10.7	13.87	20.0781
	95	1,2,4-Trichlorobenzene	108	93	86	79	102	118	103	96	102	111	8.9	11.66	20.9049
	96	Hexachlorobutadiene	120	90	97	72	109	124	98	85	106	------	14.9	19.00	21.0344
	97	Naphthalene	107	90	87	84	98	117	102	101	104	108	8.1	10.32	21.1684
	98	1,2,3-Trichlorobenzene	112	86	84	78	98	117	105	100	105	114	10.8	13.43	21.4138

For 8260 C
SC
11/15/24

Compound List Report 06

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
Total Cpnds : 98

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-DIFLUOROBENZENE	114	9.84	1.000	A	1	A	B
2	T	Dichlorodifluoromethane	85	1.56	0.159	A	1	A	B
3	T	Chloromethane	50	1.80	0.183	A	1	A	B
4	T	Vinyl chloride	62	1.90	0.193	A	1	A	B
5	T	Bromomethane	94	2.33	0.237	A	1	A	B
6	T	Chloroethane	64	2.41	0.245	A	1	A	B
7	T	Dichlorofluoromethane	67	2.45	0.249	A	1	A	B
8	T	Trichlorofluoromethane	101	2.69	0.273	A	1	A	B
9	T	Acrolein	56	3.19	0.325	A	1	A	B
10	T	1,1,2-Trichloro-1,2,2-trifluor	151	3.26	0.331	A	1	A	B
11	T	Acetone	43	3.30	0.335	A	1	A	B
12	T	1,1-Dichloroethene	61	3.45	0.350	A	2	A	B
13	T	tert-Butyl alcohol	59	3.59	0.365	A	1	A	B
14	T	Acetonitrile	41	0.00	0.000	A	2	A	B
15	T	Methyl acetate	74	3.97	0.403	A	1	A	B
16	T	Iodomethane	142	3.87	0.393	A	1	A	B
17	T	Allyl chloride	76	3.99	0.406	A	1	A	B
18	T	Methylene chloride	49	4.16	0.423	A	2	A	B
19	T	Carbon disulfide	76	4.14	0.420	A	1	A	B
20	T	Acrylonitrile	53	4.39	0.446	A	2	A	B
21	T	tert-Butyl methyl ether (MTBE)	73	4.43	0.450	A	1	A	B
22	T	trans-1,2-Dichloroethene	96	4.66	0.474	A	1	A	B
23	T	Isopropyl ether (DIPE)	45	5.33	0.542	A	1	A	B
24	T	Vinyl acetate	43	5.56	0.565	A	1	A	B
25	T	1,1-Dichloroethane	63	5.48	0.557	A	2	A	B
26	T	2-Butanol	45	6.05	0.614	A	1	A	B
27	T	tert-Butyl ethyl ether (ETBE)	59	6.21	0.631	A	1	A	B
28	T	2-Butanone	43	6.51	0.661	A	1	A	B
29	T	2,2-Dichloropropane	77	6.76	0.687	A	2	A	B
30	T	cis-1,2-Dichloroethene	96	6.89	0.700	A	1	A	B
31	T	Chloroform	83	7.28	0.740	A	2	A	B
32	T	Bromochloromethane	130	7.66	0.778	A	1	A	B
33	T	Tetrahydrofuran	42	7.76	0.789	A	2	A	B
34	T	tert-Amyl alcohol	59	8.23	0.836	A	1	A	B
35	S	Dibromofluoromethane	111	7.81	0.793	A	1	A	B
36	T	1,1,1-Trichloroethane	97	8.21	0.834	A	2	A	B
37	T	Cyclohexane	84	8.19	0.832	A	1	A	B
38	T	2,2,4-Trimethylpentane	57	8.56	0.870	A	1	A	B
39	T	1,1-Dichloropropene	110	8.58	0.872	A	1	A	B
40	T	Carbon tetrachloride	119	8.75	0.889	A	1	A	B
41	T	tert-Amyl methyl ether (TAME)	73	8.94	0.908	A	2	A	B
42	S	1,2-Dichloroethane-d4	65	8.96	0.910	A	1	A	B
43	T	1,2-Dichloroethane	62	9.15	0.930	A	1	A	B
44	T	Benzene	78	9.13	0.928	A	2	A	B
45	T	Trichloroethene	130	10.43	1.060	A	3	A	B
46	T	Methylcyclohexane	83	10.51	1.068	A	2	A	B
47	T	1,2-Dichloropropane	63	10.79	1.096	A	1	A	B
48	T	1,4-Dioxane	88	11.33	1.151	A	1	A	B
49	T	Bromodichloromethane	83	11.23	1.141	A	1	A	B
50	T	Dibromomethane	93	11.31	1.149	A	2	A	B
51	T	2-Chloroethyl vinyl ether	63	11.94	1.213	A	1	A	B
52	T	4-Methyl-2-pentanone	43	11.98	1.217	A	2	A	B
53	T	cis-1,3-Dichloropropene	75	12.30	1.249	A	3	A	B
54	I	CHLOROBENZENE-D5	117	15.34	1.000	A	2	A	B
55	S	Toluene-d8	98	12.69	0.828	A	1	A	B
56	T	Toluene	91	12.84	0.837	A	1	A	B
57	T	Ethyl methacrylate	69	13.28	0.866	A	1	A	B
58	T	trans-1,3-Dichloropropene	75	13.24	0.863	A	1	A	B
59	T	1,1,2-Trichloroethane	97	13.49	0.880	A	2	A	B
60	T	2-Hexanone	43	13.55	0.884	A	1	A	B
61	T	1,3-Dichloropropane	76	13.93	0.908	A	1	A	B

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62	T	Tetrachloroethene	164	13.99	0.912	A	3	A	B
63	T	Dibromochloromethane	129	14.33	0.934	A	1	A	B
64	T	2-Ethyl-1-butanol	43	0.00	0.000	A	3	A	B
65	T	1,2-Dibromoethane	107	14.67	0.956	A	1	A	B
66	T	1-Chlorohexane	91	15.02	0.979	A	1	A	B
67	T	Chlorobenzene	112	15.40	1.004	A	1	A	B
68	T	1,1,1,2-Tetrachloroethane	131	15.49	1.010	A	1	A	B
69	T	Ethylbenzene	91	15.51	1.011	A	1	A	B
70	T	m-Xylene & p-Xylene	91	15.65	1.020	A	1	A	B
71	T	o-Xylene	91	16.36	1.067	A	1	A	B
72	T	Styrene	104	16.44	1.072	A	2	A	B
73	T	Isopropylbenzene	105	16.99	1.107	A	3	A	B
74	I	1,2-DICHLOROBENZENE-D4	152	19.28	1.000	A	1	A	B
75	T	Bromoform	173	16.97	0.880	A	2	A	B
76	T	1,1,2,2-Tetrachloroethane	83	17.27	0.896	A	1	A	B
77	S	4-Bromofluorobenzene	95	17.38	0.901	A	2	A	B
78	T	1,2,3-Trichloropropane	110	17.49	0.907	A	1	A	B
79	T	trans-1,4-Dichloro-2-butene	53	17.60	0.912	A	1	A	B
80	T	n-Propylbenzene	91	17.60	0.912	A	2	A	B
81	T	Bromobenzene	156	17.64	0.915	A	1	A	B
82	T	1,3,5-Trimethylbenzene	105	17.82	0.924	A	2	A	B
83	T	2-Chlorotoluene	91	17.83	0.925	A	1	A	B
84	T	4-Chlorotoluene	91	17.90	0.928	A	1	A	B
85	T	tert-Butylbenzene	134	18.29	0.948	A	1	A	B
86	T	1,2,4-Trimethylbenzene	105	18.32	0.950	A	1	A	B
87	T	sec-Butylbenzene	105	18.53	0.961	A	1	A	B
88	T	p-Isopropyltoluene	119	18.70	0.970	A	2	A	B
89	T	1,3-Dichlorobenzene	146	18.79	0.974	A	2	A	B
90	T	1,2,3-Trimethylbenzene	105	18.87	0.978	A	2	A	B
91	T	1,4-Dichlorobenzene	146	18.92	0.981	A	2	A	B
92	T	n-Butylbenzene	91	19.14	0.993	A	2	A	B
93	T	1,2-Dichlorobenzene	146	19.31	1.001	A	1	A	B
94	T	1,2-Dibromo-3-chloropropane	157	20.08	1.041	A	1	A	B
95	T	1,2,4-Trichlorobenzene	180	20.91	1.084	A	2	A	B
96	T	Hexachlorobutadiene	225	21.04	1.091	Q	2	A	B
97	T	Naphthalene	128	21.17	1.098	A	1	A	B
98	T	1,2,3-Trichlorobenzene	180	21.41	1.110	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

VO06J19.M Thu Nov 14 17:17:50 2024

SW
11/15/24

FORM 5

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : ICAL

Lab Code : EMAX SDG No : ICAL

Lab File ID: RJV296 BFB Injection Date: 10/12/24

Instrument ID: 01 BFB Injection Time: 12:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	20.245
75	30 - 60% of mass 95	42.693
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	6.659
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	68.470
175	5 - 9% of mass 174	3.843(5.61)1
176	95 - 101% % of mass 174	66.756(97.5)1
177	5 - 9% % of mass 176	3.550(5.32)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following Calibration Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	VO01J121	RJV297	10/12/24	13:38
2	VSTD0.5	VO01J122	RJV298	10/12/24	14:08
3	VSTD1	VO01J123	RJV299	10/12/24	14:39
4	VSTD2	VO01J124	RJV300	10/12/24	15:09
5	VSTD5	VO01J125	RJV301	10/12/24	15:39
6	VSTD10	VO01J126	RJV302	10/12/24	16:08
7	VSTD20	VO01J127	RJV303	10/12/24	16:38
8	VSTD50	VO01J128	RJV304	10/12/24	17:08
9	VSTD30	VO01J129	RJV305	10/12/24	17:38
10	VSTD100	VO01J1210	RJV306	10/12/24	18:07
11	VSTD10	IVO01J1201	RJV309	10/12/24	19:36

10/30/24

Instrument ID :01
Beginning DateTime :10/12/24 13:38
Spike Units :PPB
IC File :RJV302

Column Spec :RXI-624SILMS ID :0.25MM
Ending DateTime :10/12/24 18:07
HPChem Method :VO01J12

M	IDX	Parameters	.3 13:38 RJV297	.5 14:08 RJV298	1 14:39 RJV299	2 15:09 RJV300	5 15:39 RJV301	10 16:08 RJV302	20 16:38 RJV303	30 17:38 RJV305	50 17:08 RJV304	100 18:07 RJV306	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	8.5435
	2	Chlorotrifluoroethylene	------	------	------	------	------	------	------	------	------	------	------	0.000	0.0000
	3	Dichlorodifluoromethane	0.346	0.383	0.455	0.425	0.471	0.456	0.437	0.412	0.371	0.351	0.411	11.08	2.2475
	4	2-Chloro-1,1,1-trifluoroethane	------	------	------	------	------	------	------	------	------	------	------	0.000	0.0000
	5	Chloromethane	0.224	0.310	0.353	0.332	0.358	0.341	0.319	0.319	0.276	0.268	0.310	13.65	2.5594
	6	Vinyl chloride	0.195	0.242	0.294	0.299	0.315	0.296	0.287	0.295	0.251	0.261	0.273	13.19	2.6904
	7	Bromomethane	0.204	0.201	0.223	0.195	0.207	0.188	0.198	0.207	0.173	0.177	0.197	7.64	3.2326
	8	Chloroethane	------	0.175	0.213	0.211	0.221	0.216	0.212	0.232	0.192	0.193	0.207	8.38	3.2364
	9	Dichlorofluoromethane	0.332	0.484	0.387	0.387	0.395	0.310	0.363	0.366	0.439	0.334	0.380	13.68	3.3585
	10	Trichlorofluoromethane	------	0.422	0.472	0.475	0.495	0.479	0.459	0.444	0.391	0.366	0.445	9.80	3.6280
5	11	Acrolein	------	------	0.007	0.007	0.008	0.008	0.007	0.009	0.008	0.008	0.008	7.80	4.0240
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	0.154	0.180	0.195	0.199	0.198	0.177	0.190	0.199	0.173	0.168	0.183	8.51	4.1478
5	13	Acetone	------	------	------	0.039	0.039	0.038	0.035	0.036	0.034	------	0.037	6.03	4.0946
	14	1,1-Dichloroethene	0.433	0.475	0.520	0.515	0.497	0.442	0.464	0.482	0.425	0.413	0.467	8.08	4.2485
25	15	tert-Butyl alcohol	------	0.008	0.009	0.010	0.009	0.010	0.010	0.009	0.009	0.009	0.009	7.42	4.3734
	16	Iodomethane	0.342	0.364	0.437	0.434	0.425	0.373	0.404	0.427	0.377	0.381	0.396	8.42	4.6617
	17	Methyl acetate	------	------	------	0.112	0.089	0.099	0.083	0.094	------	------	0.095	11.58	4.6795
	18	Methylene chloride	0.311	0.350	0.385	0.369	0.353	0.312	0.327	0.345	0.303	0.308	0.336	8.38	4.8808
	19	Carbon disulfide	------	0.762	0.944	0.967	1.024	1.015	1.018	1.102	------	------	0.976	10.91	4.8974
5	20	Acrylonitrile	------	0.026	0.032	0.037	0.037	0.037	0.034	0.038	0.035	0.035	0.035	10.80	5.0579
	21	tert-Butyl methyl ether (MTBE)	0.351	0.414	0.498	0.521	0.510	0.475	0.478	0.489	0.449	0.436	0.462	11.13	5.0793
	22	trans-1,2-Dichloroethene	0.409	0.442	0.503	0.489	0.483	0.420	0.458	0.469	0.409	0.399	0.448	8.41	5.2644
	23	Isopropyl ether (DIPE)	0.827	0.913	1.055	1.025	1.016	0.885	0.932	0.998	0.887	0.845	0.938	8.58	5.6820
	24	Vinyl acetate	0.190	0.302	0.330	0.309	0.316	0.349	0.309	0.334	0.287	0.277	0.300	14.72	5.8464
	25	1,1-Dichloroethane	0.471	0.514	0.605	0.568	0.566	0.493	0.531	0.555	0.483	0.469	0.525	8.95	5.8360
25	26	2-Butanol	------	------	------	0.006	0.008	0.008	0.008	0.009	------	------	0.008	12.15	6.1781
	27	tert-Butyl ethyl ether (ETBE)	0.576	0.614	0.766	0.774	0.763	0.668	0.686	0.720	0.639	0.616	0.682	10.48	6.2477
5	28	2-Butanone	0.052	0.054	0.067	0.056	0.056	0.060	0.055	0.058	0.054	0.054	0.057	7.33	6.4417
	29	2,2-Dichloropropane	0.428	0.445	0.518	0.507	0.476	0.427	0.453	0.456	0.403	0.381	0.449	9.59	6.6297
	30	cis-1,2-Dichloroethene	0.285	0.311	0.360	0.344	0.344	0.303	0.327	0.344	0.302	0.297	0.322	7.93	6.6920
	31	Chloroform	0.555	0.551	0.631	0.590	0.566	0.490	0.523	0.526	0.478	0.445	0.535	10.32	6.9096
	32	Bromochloromethane	0.182	0.174	0.228	0.223	0.214	0.196	0.199	0.206	0.186	0.183	0.199	9.24	7.1510
	33	Tetrahydrofuran	------	------	0.031	0.032	0.039	0.031	0.029	0.031	0.030	0.029	0.031	10.36	7.2079
	34	Dibromofluoromethane	------	------	0.261	0.250	0.264	0.257	0.269	0.266	------	------	0.261	2.58	7.2265
	35	1,1,1-Trichloroethane	0.415	0.463	0.548	0.535	0.527	0.462	0.503	0.491	0.446	0.420	0.481	9.83	7.4946
	36	Cyclohexane	0.447	0.452	0.500	0.513	0.529	0.503	0.496	.528	------	------	0.496	6.28	7.5172
	37	2,2,4-Trimethylpentane	------	------	------	0.023	0.025	0.024	0.023	0.025	------	------	0.024	5.03	7.5139
	38	1,1-Dichloropropene	0.125	0.137	0.158	0.152	0.157	0.139	0.151	0.160	0.140	0.137	0.146	7.96	7.7167
	39	Carbon tetrachloride	0.298	0.349	0.403	0.395	0.400	0.356	0.392	0.379	0.345	0.323	0.364	9.79	7.8722
	40	tert-Amyl methyl ether (TAME)	0.462	0.516	0.601	0.589	0.558	0.506	0.525	0.527	0.488	0.469	0.524	8.94	7.8914
	41	1,2-Dichloroethane-d4	------	------	0.227	0.227	0.235	0.237	0.236	0.219	------	------	0.230	3.01	7.9669
	42	Benzene	1.147	1.180	1.311	1.243	1.225	1.064	1.148	1.177	1.031	0.924	1.145	9.85	8.1239
	43	1,2-Dichloroethane	0.190	0.229	0.291	0.283	0.291	0.271	0.271	0.258	0.243	0.225	0.255	12.95	8.1002
	44	Trichloroethene	0.280	0.313	0.333	0.325	0.314	0.282	0.311	0.316	0.281	0.273	0.303	7.09	9.0632
	45	Methylcyclohexane	0.632	0.561	0.557	0.600	0.602	0.569	0.581	0.593	------	------	0.587	4.28	9.1484
	46	1,2-Dichloropropane	0.251	0.235	0.285	0.275	0.274	0.244	0.262	0.271	0.243	0.236	0.258	7.03	9.3431
	47	Bromodichloromethane	0.332	0.335	0.394	0.377	0.379	0.342	0.367	0.356	0.330	0.313	0.353	7.42	9.7148
20	48	1,4-Dioxane	------	------	------	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	14.16	9.7571
	49	Dibromomethane	0.091	0.103	0.131	0.125	0.121	0.113	0.115	0.113	0.106	0.101	0.112	10.72	9.8066
	50	2-Chloroethyl vinyl ether	------	------	0.005	0.010	0.014	0.017	0.019	0.022	0.022	------	0.016	39.29	10.2225
5	51	4-Methyl-2-pentanone	------	0.093	0.120	0.131	0.140	0.145	0.132	0.135	0.126	0.117	0.127	12.23	10.2611
	52	cis-1,3-Dichloropropene	0.295	0.356	0.420	0.404	0.415	0.385	0.422	0.419	0.384	0.363	0.386	10.37	10.6063
	53	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	13.6939
	54	Toluene-d8	------	------	1.423	1.446	1.443	1.342	1.199	1.399	------	------	1.375	6.87	11.0131
	55	Toluene	1.599	1.679	1.880	1.804	1.739	1.508	1.383	1.663	1.363	1.230	1.585	13.23	11.1483
	56	Ethyl methacrylate	------	0.158	0.214	0.240	0.251	0.254	0.213	0.258	0.229	0.228	0.227	13.58	11.4475
	57	trans-1,3-Dichloropropene	0.262	0.309	0.370	0.408	0.409	0.384	0.336	0.402	0.357	0.352	0.359	13.11	11.4682
	58	1,1,2-Trichloroethane	0.147	0.191	0.227	0.220	0.215	0.203	0.172	0.208	0.183	0.184	0.195	12.51	11.7318
5	59	2-Hexanone	------	------	0.078	0.104	0.113	0.119	0.094	0.115	0.105	0.101	0.104	12.75	11.7455
	60	1,3-Dichloropropane	0.286	0.335	0.407	0.421	0.396	0.373	0.374	0.390	0.356	0.339	0.368	10.91	12.1745
	61	Tetrachloroethene	0.356	0.356	0.377	0.376	0.362	0.315	0.338	0.347	0.306	0.292	0.343	8.52	12.2767
	62	Dibromochloromethane	0.201	0.226	0.230	0.245	0.246	0.238	0.238	0.247	0.230	0.223	0.232	6.04	12.6470
	63	1,2-Dibromoethane	0.135	0.168	0.193	0.197	0.204	0.193	0.195	0.200	0.187	0.177	0.185	11.07	13.0127
	64	1-Chlorohexane	0.748	0.745	0.830	0.804	0.791	0.687	0.745	0.767	0.675	0.612	0.740	8.90	13.2837
	65	Chlorobenzene	0.895	0.943	1.048	1.058	1.014	0.891	0.962	0.988	0.881	0.808	0.949	8.50	13.7620
	66	1,1,1,2-Tetrachloroethane	0.219	0.262	0.321	0.317	0.320	0.280	0.303	0.312	0.289	0.275	0.290	11.11	13.8435
	67	Ethylbenzene	1.926	1.945	2.180	2.149	2.060	1.793	1.884	1.875	1.616	1.325	1.875	13.61	13.8598
2	68	m-Xylene & p-Xylene	1.529	1.446	1.644	1.621	1.553	1.311	1.375	1.370	------	------	1.481	8.36	13.9964
	69	o-Xylene	1.422	1.449	1.670	1.651	1.728	1.561	1.405	1.424	1.241	1.076	1.463	13.73	14.8164
	70	Styrene	0.947	0.981	1.179	1.161	1.246	1.176	1.078	1.082	0.970	0.879	1.070	11.33	14.8860
	71	Isopropylbenzene	1.835	1.857	2.162	2.165	2.450	2.076	1.863	1.887	1.578	------	1.986	12.81	15.4951
	72	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	18.6667
	73	Bromoform	0.135	0.188	0.226	0.217	0.257	0.270	0.279	0.300	0.285	0.300	0.246	21.91	15.5361
	74	trans-1,4-Dichloro-2-butene	------	------	0.117	0.127	0.151	0.167	0.164	0.174	0.160	0.172	0.154	13.73	15.6087
	75	1,1,2,2-Tetrachloroethane	0.384	0.490	0.571	0.509	0.563	0.579	0.560	0.567	0.529	0.526	0.528	11.05	15.8353
	76	4-Bromofluorobenzene	------	------	1.235	1.019	1.171	1.172	1.265	1.242	------	------	1.184	7.58	15.9814
	77	1,2,3-Trichloropropane	------	0.112	0.147	0.141	0.153	0.160	0.156	0.160	0.152	0.153	0.148	10.16	16.1270
	78	n-Propylbenzene	6.302	6.289	6.963	5.873	6.565	5.625	6.079	6.091	5.063	4.364	5.921	12.69	16.2751
	79	Bromobenzene	0.806	0.845	0.914	0.805	0.914	0.812	0.887	0.917	0.827	0.850	0.858	5.43	16.3610
	80	1,3,5-Trimethylbenzene	3.764	3.860	4.238	3.518	3.941	3.444	3.764	3.815	3.287	3.001	3.663	9.71	16.5816
	81	2-Chlorotoluene	3.673	3.763	4.223	3.543	3.897	3.357	3.637	3.731	3.160	2.991	3.598	10.00	16.6157
	82	4-Chlorotoluene	3.572	3.435	3.477	3.079	3.313	2.992	3.286	3.256	2.943	2.756	3.211	8.13	16.7060
	83	tert-Butylbenzene	0.801	0.787	0.899	0.790	0.890	0.791	0.847	0.877	0.790	0.785	0.826	5.73	17.2643
	84	1,2,4-Trimethylbenzene	3.709	3.588	4.109	3.600	3.957	3.412	3.681	3.689	3.196	2.887	3.583	9.83	17.3339
	85	sec-Butylbenzene	5.868	5.508	6.020	5.144	5.666	5.024	5.252	5.172	4.288	3.642	5.158	14.02	17.6375
	86	p-Isopropyltoluene	4.356	4.251	4.770	4.019	4.391	3.814	4.043	4.000	3.483	3.061	4.024	12.06	17.8596
	87	1,3-Dichlorobenzene	1.747	1.715	1.963	1.724	1.839	1.633	1.736	1.770	1.593	1.520	1.724	7.25	18.0077
	88	1,2,3-Trimethylbenzene	3.248	3.363	3.806	3.704	3.515	3.115	3.285	3.247	2.792	2.538	3.261	11.80	18.1143
	89	1,4-Dichlorobenzene	1.846	1.787	1.987	1.819	1.788	1.568	1.683	1.697	1.511	1.445	1.733	9.73	18.1706
	90	n-Butylbenzene	4.848	4.649	5.049	4.717	4.620	3.978	4.162	4.164	3.413	------	4.400	11.64	18.4716
	91	1,2-Dichlorobenzene	1.390	1.390	1.632	1.521	1.501	1.334	1.397	1.408	1.274	1.217	1.496	8.62	18.7037
	92	1,2-Dibromo-3-chloropropane	------	------	0.058	0.066	0.064	0.075	0.074	0.078	0.074	0.075	0.071	9.99	19.7015
	93	1,2,4-Trichlorobenzene	0.933	0.982	1.009	1.010	1.003	0.900	0.952	0.987	0.887	0.857	0.952	5.80	20.7917
	94	Hexachlorobutadiene	0.574	0.613	0.695	0.654	0.646	0.564	0.618	0.649	0.558	0.530	0.610	8.77	20.9561
	95	Naphthalene	1.256	1.003	1.258	1.213	1.162	1.231	1.160	1.257	1.107	1.074	1.172	7.49	21.1368
	96	1,2,3-Trichlorobenzene	0.595	0.651	0.782	0.742	0.730	0.685	0.701	0.733	0.648	0.636	0.690	8.36	21.4581

Spike Amount = Nominal Amount * M
Ave_%RSD : 10.1 Max_%RSD : 39.3

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = x0 + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
50	2-Chloroethyl vinyl ether	-0.00216	0.02145	0.9977
73	Bromoform	-0.00663	0.29386	0.9993

10/30/24

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR(%REC)

Instrument ID :01
Beginning DateTime :10/12/24 13:38
Spike Units :PPB
IC File :RJV302

Column Spec :RXI-624SILMS ID :0.25MM
Ending DateTime :10/12/24 18:07
HPChem Method :VO01J12

M	IDX	Parameters	.3 13:38 RJV297	.5 14:08 RJV298	1 14:39 RJV299	2 15:09 RJV300	5 15:39 RJV301	10 16:08 RJV302	20 16:38 RJV303	30 17:38 RJV305	50 17:08 RJV304	100 18:07 RJV306	AvDRec	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	8.5435
	2	Chlorotrifluoroethylene	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	3	Dichlorodifluoromethane	84	93	111	103	115	111	106	100	90	85	9.3	11.08	2.2475
	4	2-Chloro-1,1,1-trifluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	5	Chloromethane	72	100	114	107	115	110	103	103	89	86	10.5	13.65	2.5594
	6	Vinyl chloride	71	89	108	110	115	108	105	108	92	96	10.7	13.19	2.6904
	7	Bromomethane	104	102	113	99	105	95	101	105	88	90	5.7	7.64	3.2326
	8	Chloroethane	------	85	103	102	107	104	102	112	93	93	6.7	8.38	3.2364
	9	Dichlorofluoromethane	87	127	102	102	104	82	96	96	116	88	10.2	13.78	3.3585
	10	Trichlorofluoromethane	------	95	106	107	111	108	103	100	88	82	7.8	9.80	3.6280
5	11	Acrolein	------	------	87	87	100	100	87	112	100	100	6.3	7.80	4.0240
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	84	98	107	109	108	97	104	109	95	92	7	8.51	4.1478
5	13	Acetone	------	------	------	105	105	103	95	97	92	------	5	6.03	4.0946
	14	1,1-Dichloroethene	93	102	111	110	106	95	99	103	91	88	6.7	8.08	4.2485
25	15	tert-Butyl alcohol	------	89	100	111	100	111	111	100	100	100	4.9	7.42	4.3734
	16	Iodomethane	86	92	110	110	107	94	102	108	95	96	7.3	8.42	4.6617
	17	Methyl acetate	------	------	------	118	94	104	87	99	------	------	8.4	11.58	4.6795
	18	Methylene chloride	93	104	115	110	105	93	97	103	90	92	7.2	8.38	4.8808
	19	Carbon disulfide	------	78	97	99	105	104	104	113	------	------	7.5	10.91	4.8974
5	20	Acrylonitrile	------	74	91	106	106	106	97	109	100	100	7	10.80	5.0579
	21	tert-Butyl methyl ether (MTBE)	76	90	108	113	120	103	103	106	97	94	8.6	11.13	5.0793
	22	trans-1,2-Dichloroethene	91	99	112	109	108	94	102	105	91	89	7.2	8.41	5.2644
	23	Isopropyl ether (DIPE)	88	97	112	109	108	94	99	106	95	90	7.3	8.58	5.6820
	24	Vinyl acetate	63	101	110	103	105	116	103	111	96	92	9.8	14.72	5.8464
	25	1,1-Dichloroethane	90	98	115	108	108	94	101	106	92	89	7.5	8.95	5.8360
25	26	2-Butanol	------	------	------	75	100	100	100	112	------	------	7.5	12.15	6.1781
	27	tert-Butyl ethyl ether (ETBE)	84	90	112	113	112	98	101	106	94	90	8.7	10.48	6.2477
5	28	2-Butanone	91	95	118	98	98	105	96	102	95	95	5.6	7.33	6.4417
	29	2,2-Dichloropropane	95	99	115	113	106	95	101	102	90	85	7.3	9.59	6.6297
	30	cis-1,2-Dichloroethene	89	97	112	107	107	94	102	107	94	92	6.9	7.93	6.6920
	31	Chloroform	104	103	118	110	106	92	98	98	89	83	8.1	10.32	6.9096
	32	Bromochloromethane	91	87	115	112	108	98	100	104	93	92	7.5	9.24	7.1510
	33	Tetrahydrofuran	------	------	100	103	126	100	94	100	97	94	5.6	10.36	7.2079
	34	Dibromofluoromethane	------	------	100	96	101	98	103	102	------	------	2	2.58	7.2265
	35	1,1,1-Trichloroethane	86	96	114	111	110	96	105	102	93	87	8.3	9.83	7.4946
	36	Cyclohexane	90	91	101	103	107	101	100	106	------	------	4.7	6.26	7.5172
	37	2,2,4-Trimethylpentane	------	------	------	96	104	100	96	104	------	------	3.3	5.03	7.5139
	38	1,1-Dichloropropene	86	94	108	104	108	95	103	110	96	94	6.8	7.96	7.7167
	39	Carbon tetrachloride	82	96	111	109	110	98	108	104	95	89	8.2	9.79	7.8722
	40	tert-Amyl methyl ether (TAME)	88	98	115	112	106	97	100	101	93	90	6.9	8.94	7.8914
	41	1,2-Dichloroethane-d4	------	------	99	99	102	103	103	95	------	------	2.5	3.01	7.9669
	42	Benzene	100	103	114	109	107	93	100	103	90	81	7.3	9.85	8.1239
	43	1,2-Dichloroethane	75	90	114	111	114	106	106	101	95	88	10.5	12.95	8.1002
	44	Trichloroethene	92	103	110	107	104	93	103	104	93	90	6.3	7.09	9.0632
	45	Methylcyclohexane	108	96	95	102	103	97	99	101	------	------	3.4	4.28	9.1484
	46	1,2-Dichloropropane	97	91	110	107	106	95	102	105	94	91	6.1	7.03	9.3431
	47	Bromodichloromethane	94	95	112	107	107	97	104	101	93	89	6.3	7.42	9.7148
20	48	1,4-Dioxane	------	------	------	70	94	104	110	110	108	105	0	14.16	9.7571
	49	Dibromomethane	81	92	117	112	108	101	103	101	95	90	8.3	10.72	9.8066
	50	2-Chloroethyl vinyl ether	------	------	126	97	86	90	95	104	103	------	31.2	39.29	10.2225
5	51	4-Methyl-2-pentanone	------	73	94	103	110	114	104	106	99	92	8.7	12.23	10.2611
	52	cis-1,3-Dichloropropene	76	92	109	105	108	100	109	109	99	94	7.7	10.37	10.6063
	53	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	13.6939
	54	Toluene-d8	------	------	103	105	105	98	87	102	------	------	5.1	6.87	11.0131
	55	Toluene	101	106	119	114	110	95	87	105	86	78	10.8	13.23	11.1483
	56	Ethyl methacrylate	------	70	94	106	111	112	94	114	101	100	9.5	13.58	11.4475
	57	trans-1,3-Dichloropropene	73	86	103	114	114	107	94	112	99	98	9.9	13.11	11.4682
	58	1,1,2-Trichloroethane	75	98	116	113	110	104	88	107	94	94	10.1	12.51	11.7318
5	59	2-Hexanone	------	------	75	100	109	114	90	111	101	97	9	12.75	11.7455
	60	1,3-Dichloropropane	78	91	111	114	108	101	102	106	97	92	8.4	10.91	12.1745
	61	Tetrachloroethene	104	104	110	110	106	92	99	101	89	85	6.9	8.52	12.2767
	62	Dibromochloromethane	87	97	99	106	106	103	103	106	99	96	4.5	6.04	12.6470
	63	1,2-Dibromoethane	73	91	104	106	110	104	105	108	101	96	8.1	11.07	13.0127
	64	1-Chlorohexane	101	101	112	109	107	93	101	104	91	83	6.7	8.90	13.2837
	65	Chlorobenzene	94	99	110	111	107	94	101	104	93	85	6.9	8.50	13.7620
	66	1,1,1,2-Tetrachloroethane	76	90	111	109	110	97	104	108	100	95	8.6	11.11	13.8435
	67	Ethylbenzene	103	104	116	115	110	96	100	100	86	71	9.5	13.61	13.8598
2	68	m-Xylene & p-Xylene	103	98	111	109	105	89	93	93	------	------	7.1	8.36	13.9964
	69	o-Xylene	97	99	114	113	118	107	96	97	85	74	10.4	13.73	14.8164
	70	Styrene	89	92	110	109	116	110	101	101	91	82	9.4	11.33	14.8860
	71	Isopropylbenzene	92	94	109	109	123	105	94	95	79	------	10.2	12.81	15.4951
	72	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	18.6667
	73	Bromoform	120	110	99	85	92	94	96	103	98	102	17.6	21.91	15.5361
	74	trans-1,4-Dichloro-2-butene	------	------	76	82	98	108	106	113	104	112	10.9	13.73	15.6087
	75	1,1,2,2-Tetrachloroethane	73	93	108	96	107	110	106	107	100	100	7.7	11.05	15.8353
	76	4-Bromofluorobenzene	------	------	104	86	99	99	107	105	------	------	5.3	7.58	15.9814
	77	1,2,3-Trichloropropane	------	76	99	95	103	108	105	108	103	103	6.8	10.16	16.1270
	78	n-Propylbenzene	106	106	118	99	111	95	103	103	86	74	9.3	12.69	16.2751
	79	Bromobenzene	94	98	107	94	107	95	103	107	96	99	4.7	5.43	16.3610
	80	1,3,5-Trimethylbenzene	103	105	116	96	108	94	103	104	90	82	7.7	9.71	16.5816
	81	2-Chlorotoluene	102	105	118	98	108	93	101	104	88	83	7.5	10.00	16.6157
	82	4-Chlorotoluene	111	107	108	96	103	93	102	101	92	86	6.7	8.13	16.7060
	83	tert-Butylbenzene	97	95	109	96	108	96	103	106	96	95	5.1	5.73	17.2643
	84	1,2,4-Trimethylbenzene	104	100	115	100	110	95	103	103	89	81	7	9.83	17.3339
	85	sec-Butylbenzene	114	107	117	100	110	97	102	100	83	71	9.8	14.02	17.6375
	86	p-Isopropyltoluene	108	106	119	100	109	95	100	101	87	76	8.6	12.06	17.8596
	87	1,3-Dichlorobenzene	101	99	114	100	107	95	101	103	92	88	5	7.25	18.0077
	88	1,2,3-Trimethylbenzene	100	103	117	114	108	96	101	100	86	78	8.4	11.80	18.1143
	89	1,4-Dichlorobenzene	108	104	116	106	104	92	98	99	88	84	7.7	9.73	18.1706
	90	n-Butylbenzene	110	106	115	107	105	90	95	95	78	------	9.5	11.64	18.4716
	91	1,2-Dichlorobenzene	99	99	116	108	107	98	99	100	91	87	6.2	8.62	18.7037
	92	1,2-Dibromo-3-chloropropane	------	------	82	93	90	106	104	110	104	106	8.1	9.99	19.7015
	93	1,2,4-Trichlorobenzene	98	103	106	106	105	95	100	104	93	90	4.9	5.80	20.7917
	4	Hexachlorobutadiene	94	100	114	107	106	92	101	106	91	87	7	8.57	20.9561
	95	Naphthalene	107	86	107	103	99	105	99	107	94	92	6	7.49	21.1368
	96	1,2,3-Trichlorobenzene	86	94	113	108	106	99	102	106	94	92	6.9	8.36	21.4581

SV
10/30/24

Compound List Report 01

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
Total Cpnds : 96

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-DIFLUOROBENZENE	114	8.54	1.000	A	1	A	B
2	T	Chlorotrifluoroethylene	116	2.08	0.243	A	2	A	B
3	T	Dichlorodifluoromethane	85	2.26	0.264	A	1	A	B
4	T	2-Chloro-1,1,1-trifluoroethane	118	2.53	0.296	A	2	A	B
5	T	Chloromethane	50	2.57	0.301	A	1	A	B
6	T	Vinyl chloride	62	2.70	0.316	A	1	A	B
7	T	Bromomethane	94	3.24	0.380	A	1	A	B
8	T	Chloroethane	64	3.24	0.380	A	1	A	B
9	T	Dichlorofluoromethane	67	3.36	0.393	A	1	A	B
10	T	Trichlorofluoromethane	101	3.63	0.425	A	1	A	B
11	T	Acrolein	56	4.01	0.470	A	1	A	B
12	T	1,1,2-Trichloro-1,2,2-trifluor	151	4.15	0.485	A	1	A	B
13	T	Acetone	43	4.09	0.478	A	1	A	B
14	T	1,1-Dichloroethene	61	4.25	0.497	A	2	A	B
15	T	tert-Butyl alcohol	59	4.37	0.511	A	1	A	B
16	T	Iodomethane	142	4.67	0.546	A	1	A	B
17	T	Methyl acetate	43	4.68	0.548	A	1	A	B
18	T	Methylene chloride	49	4.89	0.572	A	2	A	B
19	T	Carbon disulfide	76	4.90	0.574	A	1	A	B
20	T	Acrylonitrile	53	5.05	0.591	A	2	A	B
21	T	tert-Butyl methyl ether (MTBE)	73	5.08	0.595	A	1	A	B
22	T	trans-1,2-Dichloroethene	61	5.27	0.617	A	2	A	B
23	T	Isopropyl ether (DIPE)	45	5.69	0.666	A	1	A	B
24	T	Vinyl acetate	43	5.85	0.685	A	1	A	B
25	T	1,1-Dichloroethane	63	5.84	0.683	A	2	A	B
26	T	2-Butanol	45	6.17	0.723	A	1	A	B
27	T	tert-Butyl ethyl ether (ETBE)	59	6.25	0.731	A	1	A	B
28	T	2-Butanone	43	6.43	0.752	A	1	A	B
29	T	2,2-Dichloropropane	77	6.63	0.777	A	2	A	B
30	T	cis-1,2-Dichloroethene	96	6.69	0.783	A	2	A	B
31	T	Chloroform	83	6.92	0.809	A	2	A	B
32	T	Bromochloromethane	49	7.15	0.837	A	2	A	B
33	T	Tetrahydrofuran	42	7.21	0.844	A	2	A	B
34	S	Dibromofluoromethane	111	7.23	0.846	A	2	A	B
35	T	1,1,1-Trichloroethane	97	7.49	0.877	A	2	A	B
36	T	Cyclohexane	84	7.52	0.880	A	1	A	B
37	T	2,2,4-Trimethylpentane	57	7.52	0.880	A	1	A	B
38	T	1,1-Dichloropropene	110	7.72	0.903	A	1	A	B
39	T	Carbon tetrachloride	119	7.88	0.922	A	1	A	B
40	T	tert-Amyl methyl ether (TAME)	73	7.89	0.924	A	1	A	B
41	S	1,2-Dichloroethane-d4	65	7.97	0.932	A	1	A	B
42	T	Benzene	78	8.13	0.952	A	2	A	B
43	T	1,2-Dichloroethane	62	8.10	0.948	A	1	A	B
44	T	Trichloroethene	130	9.06	1.061	A	3	A	B
45	T	Methylcyclohexane	83	9.15	1.071	A	2	A	B
46	T	1,2-Dichloropropane	63	9.34	1.094	A	1	A	B
47	T	Bromodichloromethane	83	9.71	1.137	A	1	A	B
48	T	1,4-Dioxane	88	9.76	1.142	A	1	A	B
49	T	Dibromomethane	93	9.80	1.147	A	2	A	B
50	T	2-Chloroethyl vinyl ether	63	10.22	1.196	L	2	A	B
51	T	4-Methyl-2-pentanone	43	10.25	1.199	A	3	A	B
52	T	cis-1,3-Dichloropropene	75	10.60	1.241	A	1	A	B

SW 10/30/24

53	I	CHLOROBENZENE-D5	117	13.70	1.000	A	2	A	B
54	S	Toluene-d8	98	11.02	0.804	A	1	A	B
55	T	Toluene	91	11.15	0.814	A	1	A	B
56	T	Ethyl methacrylate	69	11.43	0.835	A	1	A	B
57	T	trans-1,3-Dichloropropene	75	11.46	0.837	A	1	A	B
58	T	1,1,2-Trichloroethane	97	11.73	0.856	A	2	A	B
59	T	2-Hexanone	43	11.74	0.857	A	1	A	B
60	T	1,3-Dichloropropane	76	12.17	0.889	A	1	A	B
61	T	Tetrachloroethene	164	12.28	0.896	A	3	A	B
62	T	Dibromochloromethane	129	12.65	0.923	A	1	A	B
63	T	1,2-Dibromoethane	107	13.02	0.950	A	1	A	B
64	T	1-Chlorohexane	91	13.28	0.970	A	1	A	B
65	P,M	Chlorobenzene	112	13.77	1.005	A	1	A	B
66	T	1,1,1,2-Tetrachloroethane	131	13.85	1.011	A	1	A	B
67	T	Ethylbenzene	91	13.86	1.012	A	1	A	B
68	T	m-Xylene & p-Xylene	91	13.99	1.022	A	1	A	B
69	T	o-Xylene	91	14.82	1.082	A	1	A	B
70	T	Styrene	104	14.88	1.086	A	2	A	B
71	T	Isopropylbenzene	105	15.50	1.132	A	3	A	B
72	I	1,2-DICHLOROBENZENE-D4	152	18.67	1.000	A	1	A	B
73	T	Bromoform	173	15.53	0.832	L	1	A	B
74	T	trans-1,4-Dichloro-2-butene	53	15.61	0.836	A	1	A	B
75	T	1,1,2,2-Tetrachloroethane	83	15.85	0.849	A	1	A	B
76	S	4-Bromofluorobenzene	95	15.98	0.856	A	2	A	B
77	T	1,2,3-Trichloropropane	110	16.13	0.864	A	1	A	B
78	T	n-Propylbenzene	91	16.27	0.872	A	2	A	B
79	T	Bromobenzene	156	16.36	0.876	A	1	A	B
80	T	1,3,5-Trimethylbenzene	105	16.59	0.888	A	2	A	B
81	T	2-Chlorotoluene	91	16.62	0.890	A	1	A	B
82	T	4-Chlorotoluene	91	16.70	0.895	A	1	A	B
83	T	tert-Butylbenzene	134	17.27	0.925	A	1	A	B
84	T	1,2,4-Trimethylbenzene	105	17.34	0.929	A	1	A	B
85	T	sec-Butylbenzene	105	17.64	0.944	A	1	A	B
86	T	p-Isopropyltoluene	119	17.86	0.956	A	2	A	B
87	T	1,3-Dichlorobenzene	146	18.01	0.964	A	2	A	B
88	T	1,2,3-Trimethylbenzene	105	18.11	0.970	A	2	A	B
89	T	1,4-Dichlorobenzene	146	18.17	0.973	A	2	A	B
90	T	n-Butylbenzene	91	18.48	0.990	A	2	A	B
91	T	1,2-Dichlorobenzene	146	18.70	1.002	A	1	A	B
92	T	1,2-Dibromo-3-chloropropane	157	19.71	1.056	A	1	A	B
93	T	1,2,4-Trichlorobenzene	180	20.79	1.113	A	2	A	B
94	T	Hexachlorobutadiene	225	20.95	1.122	A	1	A	B
95	T	Naphthalene	128	21.13	1.132	A	1	A	B
96	T	1,2,3-Trichlorobenzene	180	21.46	1.149	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

VO01J12.M Thu Oct 24 09:08:04 2024

SU 10/30/24

SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :06
IC Beginning DateTime :10/19/24 15:59
Spike Amount :10 PPB
CC/CV File :RIW371
IC File :RIW364

Column Spec :RTX502.2 ID :0.25MM
IC Ending DateTime :10/19/24 19:57
HPChem Method :V006J19
Date_Time :10/19/24 21:15

M	IDX	Parameters	CC_Con	CC% D	CC_Resp	CCRRF	AVRRF	CC_Rtm	AvRtm	% RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,4-DIFLUOROBENZENE	10.000	0	4162272	1	1	9.842	9.842	0				
	2	Dichlorodifluoromethane	10.015	0.2	1482386	0.356	0.356	1.578	1.573	12.33				
	3	Chloromethane	11.640	16.4	1674934	0.402	0.346	1.795	1.792	12.43				
	4	Vinyl chloride	12.009	20.1	1385719	0.333	0.277	1.894	1.900	14.95				
	5	Bromomethane	11.737	17.4	1231998	0.296	0.252	2.328	2.333	13.23				
	6	Chloroethane	11.566	15.7	918929	0.221	0.191	2.407	2.420	11.28				
	7	Dichlorofluoromethane	10.927	9.3	2127547	0.511	0.468	2.466	2.460	10.00				
	8	Trichlorofluoromethane	10.491	4.9	1621305	0.390	0.371	2.684	2.691	11.49				
5	9	Acrolein	49.453	-1.1	213086	0.010	0.010	3.194	3.204	5.97				
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	9.595	-4.0	850149	0.204	0.213	3.236	3.256	13.61				
5	11	Acetone	48.562	-2.8	625827	0.030	0.031	3.278	3.290	6.01				
	12	1,1-Dichloroethene	10.428	4.3	1964938	0.472	0.453	3.425	3.438	10.84				
25	13	tert-Butyl alcohol	242.198	-3.1	862347	0.008	0.009	3.572	3.586	14.67				
	14	Acetonitrile												
	15	Methyl acetate	9.708	-2.9	84986	0.020	0.021	3.970	3.964	4.29				
	16	Iodomethane	11.039	10.4	2132130	0.512	0.464	3.865	3.864	8.54				
	17	Allyl chloride	10.577	5.8	797865	0.192	0.181	3.991	3.987	8.24				
	18	Methylene chloride	10.841	8.4	1498306	0.360	0.332	4.159	4.157	8.33				
	19	Carbon disulfide	10.885	8.9	2568453	0.617	0.567	4.117	4.131	13.30				
5	20	Acrylonitrile	53.573	7.1	920676	0.044	0.041	4.389	4.398	8.82				
	21	tert-Butyl methyl ether (MTBE)	10.927	9.3	2194529	0.527	0.482	4.431	4.443	9.00				
	22	trans-1,2-Dichloroethene	10.707	7.1	1510803	0.363	0.339	4.662	4.656	11.64				
	23	Isopropyl ether (DIPE)	11.184	11.8	4166807	1.001	0.895	5.312	5.325	9.09				
	24	Vinyl acetate	10.758	7.6	1390779	0.334	0.311	5.543	5.557	14.53				
	25	1,1-Dichloroethane	10.885	8.9	2283914	0.549	0.504	5.480	5.478	8.18				
25	26	2-Butanol	254.663	1.9	909216	0.009	0.009	6.025	6.038	10.55				
	27	tert-Butyl ethyl ether (ETBE)	10.578	5.8	2912787	0.700	0.662	6.214	6.225	7.94				
5	28	2-Butanone	51.859	3.7	1126406	0.054	0.052	6.486	6.501	14.55				
	29	2,2-Dichloropropane	10.625	6.3	1335971	0.321	0.302	6.738	6.750	11.90				
	30	cis-1,2-Dichloroethene	10.844	8.4	1476730	0.355	0.327	6.864	6.877	8.13				
	31	Chloroform	10.465	4.7	2192925	0.527	0.503	7.262	7.284	9.43				
	32	Bromochloromethane	11.171	11.7	648018	0.156	0.139	7.661	7.661	9.49				
	33	Tetrahydrofuran	9.682	-3.2	120486	0.029	0.030	7.766	7.785	10.62				
5	34	tert-Amyl alcohol												
	35	Dibromofluoromethane	12.000	20.0	1223430	0.294	0.245	7.808	7.808	14.43				
	36	1,1,1-Trichloroethane	10.592	5.9	1771028	0.425	0.402	8.206	8.205	10.25				
	37	Cyclohexane	10.436	4.4	2180112	0.524	0.502	8.185	8.190	11.11				
	38	2,2,4-Trimethylpentane												
	39	1,1-Dichloropropene	10.270	2.7	632607	0.152	0.148	8.563	8.582	9.27				
	40	Carbon tetrachloride	10.451	4.5	1424683	0.342	0.327	8.751	8.756	9.00				
	41	tert-Amyl methyl ether (TAME)	10.813	8.1	2520660	0.606	0.560	8.919	8.932	7.54				
	42	1,2-Dichloroethane-d4	11.918	19.2	841219	0.202	0.170	8.940	8.959	14.43				
	43	1,2-Dichloroethane	11.206	12.1	950929	0.228	0.204	9.150	9.155	11.62				
	44	Benzene	11.206	12.1	5405418	1.299	1.159	9.129	9.138	12.05				
	45	Trichloroethene	11.160	11.6	1421894	0.342	0.306	10.429	10.432	9.05				
	46	Methylcyclohexane	10.125	1.3	2631829	0.632	0.624	10.492	10.514	14.68				
	47	1,2-Dichloropropane	10.983	9.8	1152775	0.277	0.252	10.785	10.792	8.38				
20	48	1,4-Dioxane	183.699	-8.2	69947	0.001	0.001	11.331	11.337	11.50				
	49	Bromodichloromethane	10.599	6.0	1438541	0.346	0.326	11.226	11.233	7.01				
	50	Dibromomethane	10.528	5.3	534221	0.128	0.122	11.310	11.310	8.82				
	51	2-Chloroethyl vinyl ether	10.501	5.0	360758	0.087	0.083	11.939	11.939	8.53				
5	52	4-Methyl-2-pentanone	56.570	13.1	3276564	0.157	0.139	11.981	11.988	14.61				
	53	cis-1,3-Dichloropropene	11.144	11.4	1812567	0.435	0.391	12.295	12.304	11.87				
	54	CHLOROBENZENE-D5	10.000	0	3018237	1	1	15.339	15.339	0				
	55	Toluene-d8	11.858	18.6	4946713	1.639	1.382	12.694	12.703	13.88				
	56	Toluene	11.090	10.9	5555774	1.841	1.660	12.841	12.841	9.78				
	57	Ethyl methacrylate	11.115	11.1	903052	0.299	0.269	13.281	13.286	11.16				
	58	trans-1,3-Dichloropropene	11.268	12.7	1327325	0.440	0.390	13.218	13.231	12.81				
	59	1,1,2-Trichloroethane	10.978	9.8	691555	0.229	0.209	13.470	13.483	10.33				
5	60	2-Hexanone	55.362	10.7	1975833	0.131	0.118	13.554	13.565	10.99				
	61	1,3-Dichloropropane	11.177	11.8	1254401	0.416	0.372	13.931	13.932	10.10				
	62	Tetrachloroethene	10.578	5.8	1125068	0.373	0.352	13.973	13.986	9.93				
	63	Dibromochloromethane	10.742	7.4	836868	0.277	0.258	14.330	14.332	9.14				
	64	2-Ethyl-1-butanol												
	65	1,2-Dibromoethane	11.338	13.4	652205	0.216	0.191	14.665	14.672	12.90				
	66	1-Chlorohexane	9.963	-0.4	2033826	0.674	0.676	15.022	15.022	11.14				
	67	Chlorobenzene	11.312	13.1	3097495	1.026	0.907	15.391	15.404	11.92				
	68	1,1,1,2-Tetrachloroethane	10.922	9.2	1009857	0.335	0.306	15.494	15.495	9.38				
	69	Ethylbenzene	10.819	8.2	5848074	1.938	1.791	15.507	15.513	12.23				
2	70	m-Xylene & p-Xylene	21.443	7.2	8677728	1.438	1.341	15.637	15.647	11.99				
	71	o-Xylene	10.810	8.1	4408402	1.461	1.351	16.364	16.368	9.54				
	72	Styrene	11.245	12.4	3277729	1.086	0.966	16.429	16.438	12.84				
	73	Isopropylbenzene	10.664	6.6	5638140	1.868	1.752	16.974	16.986	12.29				
	74	1,2-DICHLOROBENZENE-D4	10.000	0	1111743	1	1	19.285	19.285	0				
	75	Bromoform	10.910	9.1	378667	0.341	0.312	16.974	16.974	12.92				
	76	1,1,2,2-Tetrachloroethane	11.398	14.0	689074	0.620	0.544	17.273	17.273	12.96				
	77	4-Bromofluorobenzene	11.689	16.9	1450999	1.305	1.116	17.364	17.372	14.29				
	78	1,2,3-Trichloropropane	11.051	10.5	171032	0.154	0.139	17.493	17.493	12.14				
	79	trans-1,4-Dichloro-2-butene	10.772	7.7	154413	0.139	0.129	17.597	17.604	14.30				
	80	n-Propylbenzene	11.283	12.8	6997014	6.294	5.578	17.597	17.599	13.24				
	81	Bromobenzene	11.378	13.8	1126592	1.013	0.891	17.636	17.638	14.69				
	82	1,3,5-Trimethylbenzene	11.165	11.6	4315957	3.882	3.477	17.818	17.818	11.80				
	83	2-Chlorotoluene	11.033	10.3	4126516	3.712	3.364	17.831	17.831	10.55				
	84	4-Chlorotoluene	11.601	16.0	3725365	3.351	2.888	17.896	17.896	14.25				
	85	tert-Butylbenzene	11.053	10.5	958235	0.855	0.774	18.272	18.279	11.90				
	86	1,2,4-Trimethylbenzene	11.077	10.8	4187243	3.766	3.400	18.311	18.324	12.47				
	87	sec-Butylbenzene	10.516	5.2	5660075	5.091	4.841	18.532	18.532	12.46				
	88	p-Isopropyltoluene	10.771	7.7	4586332	4.125	3.830	18.688	18.699	13.96				
	89	1,3-Dichlorobenzene	11.219	12.2	2161614	1.944	1.733	18.792	18.792	12.70				
	90	1,2,3-Trimethylbenzene	10.987	9.9	3670620	3.302	3.005	18.869	18.871	10.74				
	91	1,4-Dichlorobenzene	11.426	14.3	2167382	1.911	1.677	18.908	18.913	12.63				
	92	n-Butylbenzene	10.358	3.6	4339989	3.904	3.769	19.142	19.142	13.67				
	93	1,2-Dichlorobenzene	11.130	11.3	1748399	1.573	1.413	19.311	19.311	10.06				
	94	1,2-Dibromo-3-chloropropane	8.964	-10.4	84657	0.076	0.085	20.077	20.078	13.87				
	95	1,2,4-Trichlorobenzene	10.334	3.3	941613	0.847	0.820	20.894	20.905	11.66				
	96	Hexachlorobutadiene	10.897	9.0	589859	0.531	0.489	21.024	21.034	19.00	0.0009	0.5085	-0.0206	0.9928
	97	Naphthalene	10.401	4.0	1328412	1.195	1.149	21.167	21.168	10.32				
	98	1,2,3-Trichlorobenzene	10.651	6.5	731559	0.658	0.618	21.414	21.414	13.43				

Spike Amount = Nominal Amount * M

11/15/24

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D
Acq On : 19 Oct 2024 9:15 pm
Sample : IVO06J191
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 14
Operator: DHguye
Inst : 06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF . 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	109	0.00
2	T,M	Dichlorodifluoromethane	10.000	10.016	-0.2	91	0.01
3	P,T,M	Chloromethane	10.000	11.640	-16.4	102	0.00
4	C,T,M	Vinyl chloride	10.000	12.010	-20.1#	100	0.00
5	T,M	Bromomethane	10.000	11.737	-17.4	107	0.00
6	T,M	Chloroethane	10.000	11.567	-15.7	103	0.00
7	T,M	Dichlorofluoromethane	10.000	10.928	-9.3	100	0.01
8	T,M	Trichlorofluoromethane	10.000	10.491	-4.9	94	0.00
9	T,M	Acrolein	50.000	49.454	1.1	96	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	9.595	4.0	85	-0.02
11	T,M	Acetone	50.000	48.583	2.8	98	-0.02
12	C,T,M	1,1-Dichloroethene	10.000	10.428	-4.3	95	-0.02
13	T,M	tert-Butyl alcohol	250.000	242.199	3.1	95	-0.02
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	9.709	2.9	106	0.00
16	T,M	Iodomethane	10.000	11.040	-10.4	100	0.00
17	T,M	Allyl chloride	10.000	10.578	-5.8	98	0.00
18	T,M	Methylene chloride	10.000	10.842	-8.4	101	0.00
19	T,M	Carbon disulfide	10.000	10.886	-8.9	94	-0.02
20	T,M	Acrylonitrile	50.000	53.573	-7.1	100	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	10.927	-9.3	99	0.00
22	T,M	trans-1,2-Dichloroethene	10.000	10.707	-7.1	101	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	11.184	-11.8	100	-0.02
24	T,M	Vinyl acetate	10.000	10.758	-7.6	96	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.885	-8.8	101	0.00
26	T,M	2-Butanol	250.000	254.663	-1.9	104	-0.02
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.579	-5.8	100	0.00
28	T,M	2-Butanone	50.000	51.860	-3.7	96	-0.02
29	T,M	2,2-Dichloropropane	10.000	10.625	-6.3	93	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	10.844	-8.4	101	-0.02
31	C,T,M	Chloroform	10.000	10.466	-4.7	100	-0.02
32	T,M	Bromochloromethane	10.000	11.171	-11.7	102	0.00
33	T,M	Tetrahydrofuran	10.000	9.682	3.2	109	0.00
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	-0.02
35	S	Dibromofluoromethane	10.000	12.000	-20.0	102	0.00
36	T,M	1,1,1-Trichloroethane	10.000	10.592	-5.9	98	0.00
37	T,M	Cyclohexane	10.000	10.437	-4.4	96	0.00
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	-8.56#
39	T,M	1,1-Dichloropropene	10.000	10.270	-2.7	98	-0.02
40	T,M	Carbon tetrachloride	10.000	10.451	-4.5	95	0.00
41	T,M	tert-Amyl methyl ether (TAM	10.000	10.813	-8.1	99	-0.02
42	S	1,2-Dichloroethane-d4	10.000	11.918	-19.2	99	-0.02
43	T,M	1,2-Dichloroethane	10.000	11.207	-12.1	100	0.00
44	T,M	Benzene	10.000	11.207	-12.1	100	0.00
45	T,M	Trichloroethene	10.000	11.160	-11.6	101	0.00
46	T,M	Methylcyclohexane	10.000	10.125	-1.3	100	-0.02
47	C,T,M	1,2-Dichloropropane	10.000	10.984	-9.8	102	0.00
48	T,M	1,4-Dioxane	200.000	183.699	8.2	96	0.00
49	T,M	Bromodichloromethane	10.000	10.599	-6.0	99	0.00
50	T,M	Dibromomethane	10.000	10.528	-5.3	98	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D
Acq On : 19 Oct 2024 9:15 pm
Sample : IVO06J191
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 14
Operator: DHguye
Inst : 06
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	10.502	-5.0	102	0.00
52	T,M	4-Methyl-2-pentanone	50.000	56.571	-13.1	99	0.00
53	T,M	cis-1,3-Dichloropropene	10.000	11.145	-11.4	98	0.00
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	107	0.00
55	S	Toluene-d8	10.000	11.859	-18.6	98	0.00
56	C,T,M	Toluene	10.000	11.090	-10.9	100	0.00
57	T,M	Ethyl methacrylate	10.000	11.115	-11.2	98	0.00
58	T,M	trans-1,3-Dichloropropene	10.000	11.268	-12.7	98	-0.02
59	T,M	1,1,2-Trichloroethane	10.000	10.978	-9.8	98	-0.02
60	T,M	2-Hexanone	50.000	55.363	-10.7	98	0.00
61	T,M	1,3-Dichloropropane	10.000	11.178	-11.8	98	0.00
62	T,M	Tetrachloroethene	10.000	10.579	-5.8	95	-0.02
63	T,M	Dibromochloromethane	10.000	10.743	-7.4	97	0.00
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	11.338	-13.4	98	0.00
66	T,M	1-Chlorohexane	10.000	9.963	0.4	94	0.00
67	P,T,M	Chlorobenzene	10.000	11.313	-13.1	98	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	10.000	10.923	-9.2	97	0.00
69	C,T,M	Ethylbenzene	10.000	10.820	-8.2	96	0.00
70	T,M	m-Xylene & p-Xylene	20.000	21.444	-7.2	97	-0.01
71	T,M	o-Xylene	10.000	10.811	-8.1	98	0.00
72	T,M	Styrene	10.000	11.245	-12.4	97	-0.01
73	T,M	Isopropylbenzene	10.000	10.665	-6.6	96	-0.01
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	102	0.00
75	P,T,M	Bromoform	10.000	10.911	-9.1	96	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	11.399	-14.0	95	0.00
77	S	4-Bromofluorobenzene	10.000	11.690	-16.9	97	-0.01
78	T,M	1,2,3-Trichloropropane	10.000	11.051	-10.5	99	0.00
79	T,M	trans-1,4-Dichloro-2-butene	10.000	10.772	-7.7	94	0.00
80	T,M	n-Propylbenzene	10.000	11.283	-12.8	96	0.00
81	T,M	Bromobenzene	10.000	11.378	-13.8	94	0.00
82	T,M	1,3,5-Trimethylbenzene	10.000	11.166	-11.7	93	0.00
83	T,M	2-Chlorotoluene	10.000	11.033	-10.3	97	0.00
84	T,M	4-Chlorotoluene	10.000	11.601	-16.0	92	0.00
85	T,M	tert-Butylbenzene	10.000	11.054	-10.5	92	-0.01
86	T,M	1,2,4-Trimethylbenzene	10.000	11.077	-10.8	93	-0.01
87	T,M	sec-Butylbenzene	10.000	10.516	-5.2	89	0.00
88	T,M	p-Isopropyltoluene	10.000	10.772	-7.7	90	-0.01
89	T,M	1,3-Dichlorobenzene	10.000	11.219	-12.2	92	0.00
90	T,M	1,2,3-Trimethylbenzene	10.000	10.988	-9.9	92	0.00
91	T,M	1,4-Dichlorobenzene	10.000	11.426	-14.3	93	-0.01
92	T,M	n-Butylbenzene	10.000	10.359	-3.6	89	0.00
93	T,M	1,2-Dichlorobenzene	10.000	11.131	-11.3	92	0.00
94	T,M	1,2-Dibromo-3-chloropropane	10.000	8.964	10.4	89	0.00
95	T,M	1,2,4-Trichlorobenzene	10.000	10.334	-3.3	90	-0.01
96	T,M	Hexachlorobutadiene	10.000	10.897	-9.0	91	-0.01
97	T,M	Naphthalene	10.000	10.401	-4.0	91	0.00
98	T,M	1,2,3-Trichlorobenzene	10.000	10.652	-6.5	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

RIW371.D VO06J19.M Fri Nov 15 10:43:01 2024

SA 11/15/24

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :01
IC_Beginning DateTime :10/12/24 13:38
Spike Amount :10 PPB
CC/CV File :RJV309
IC File :RJV302

Column Spec :RXI-624SILMS ID :0.25MM
IC_Ending DateTime :10/12/24 18:07
HPChem Method :VO01J12
Date_Time :10/12/24 19:36

M	IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,4-DIFLUOROBENZENE	10.000	0	1068034	1	1	8.545	8.543	0				
	2	Chlorotrifluoroethylene												
	3	Dichlorodifluoromethane	9.045	-9.5	396817	0.372	0.411	2.247	2.247	11.08				
	4	2-Chloro-1,1,1-trifluoroethane												
	5	Chloromethane	11.560	15.6	382728	0.358	0.310	2.560	2.559	13.65				
	6	Vinyl chloride	11.451	14.5	334350	0.313	0.273	2.702	2.690	13.19				
	7	Bromomethane	10.636	6.4	223947	0.210	0.197	3.243	3.233	7.64				
	8	Chloroethane	11.296	13.0	250004	0.234	0.207	3.243	3.236	8.38				
	9	Dichlorofluoromethane	9.273	-7.3	375995	0.352	0.380	3.362	3.359	13.68				
	10	Trichlorofluoromethane	9.160	-8.4	435121	0.407	0.445	3.628	3.628	9.8[illegible]				
5	11	Acrolein	58.363	16.7	47656	0.009	0.008	4.028	4.024	7.80				
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	9.639	-3.6	188528	0.177	0.183	4.147	4.148	8.51				
5	13	Acetone	51.858	3.7	204520	0.038	0.037	4.102	4.095	6.03				
	14	1,1-Dichloroethene	9.782	-2.2	487444	0.456	0.467	4.250	4.248	8.08				
25	15	tert-Butyl alcohol	251.012	0.4	247673	0.009	0.009	4.369	4.373	7.42				
	16	Iodomethane	10.700	7.0	452955	0.424	0.396	4.665	4.662	8.42				
	17	Methyl acetate	10.248	2.5	104248	0.098	0.095	4.680	4.680	11.58				
	18	Methylene chloride	10.565	5.6	379499	0.355	0.336	4.887	4.881	8.38				
	19	Carbon disulfide	11.140	11.4	1161131	1.087	0.976	4.902	4.897	10.91				
5	20	Acrylonitrile	57.404	14.8	212664	0.040	0.035	5.050	5.058	10.80				
	21	tert-Butyl methyl ether (MTBE)	10.823	8.2	534080	0.500	0.462	5.079	5.079	11.13				
	22	trans-1,2-Dichloroethene	10.337	3.4	494700	0.463	0.448	5.272	5.264	8.41				
	23	Isopropyl ether (DIPE)	10.730	7.3	1075243	1.007	0.938	5.687	5.682	8.58				
	24	Vinyl acetate	11.035	10.3	353866	0.331	0.300	5.850	5.846	14.72				
	25	1,1-Dichloroethane	10.631	6.3	596611	0.559	0.525	5.850	5.836	8.95				
25	26	2-Butanol	261.905	4.8	216540	0.008	0.008	6.175	6.178	12.15				
	27	tert-Butyl ethyl ether (ETBE)	10.623	6.2	773868	0.725	0.682	6.249	6.248	10.48				
5	28	2-Butanone	52.036	4.1	314700	0.059	0.057	6.427	6.442	7.33				
	29	2,2-Dichloropropane	9.529	-4.7	457430	0.428	0.449	6.634	6.630	9.59				
	30	cis-1,2-Dichloroethene	10.363	3.6	356177	0.333	0.322	6.694	6.692	7.93				
	31	Chloroform	9.844	-1.6	563062	0.527	0.535	6.916	6.910	10.32				
	32	Bromochloromethane	10.587	5.9	225161	0.211	0.199	7.153	7.151	9.24				
	33	Tetrahydrofuran	11.394	13.9	38294	0.036	0.031	7.212	7.208	10.36				
	34	Dibromofluoromethane	10.445	4.4	291419	0.273	0.261	7.227	7.227	2.58				
	35	1,1,1-Trichloroethane	9.542	-4.6	490060	0.459	0.481	7.493	7.495	9.83				
	36	Cyclohexane	9.755	-2.4	516950	0.484	0.496	7.523	7.517	6.28				
	37	2,2,4-Trimethylpentane	10.330	3.3	26488	0.025	0.024	7.508	7.514	5.03				
	38	1,1-Dichloropropene	10.006	0.1	155616	0.146	0.146	7.715	7.717	7.96				
	39	Carbon tetrachloride	9.441	-5.6	367156	0.344	0.364	7.878	7.872	9.79				
	40	tert-Amyl methyl ether (TAME)	10.208	2.1	571608	0.535	0.524	7.893	7.891	8.94				
	41	1,2-Dichloroethane-d4	9.840	-1.6	24182[illegible]	0.226	0.230	7.967	7.967	3.01				
	42	Benzene	10.239	2.4	1252194	1.172	1.145	8.130	8.124	9.85				
	43	1,2-Dichloroethane	10.114	1.1	275712	0.258	0.255	8.100	8.100	12.95				
	44	Trichloroethene	10.063	0.6	325468	0.305	0.303	9.063	9.063	7.09				
	45	Methylcyclohexane	9.296	-7.0	582682	0.546	0.587	9.152	9.148	4.28				
	46	1,2-Dichloropropane	10.410	4.1	286506	0.268	0.258	9.344	9.343	7.03				
	47	Bromodichloromethane	10.077	0.8	379560	0.355	0.353	9.714	9.715	7.42				
20	48	1,4-Dioxane	191.902	-4.0	20190	0.001	0.001	9.759	9.757	14.16				
	49	Dibromomethane	9.983	-0.2	119339	0.112	0.112	9.803	9.807	10.72				
	50	2-Chloroethyl vinyl ether	9.980	-0.2	20564	0.019	0.016	10.218	10.222	39.29	-0.0022	0.0214		0.9977
5	51	4-Methyl-2-pentanone	56.086	12.2	758438	0.142	0.127	10.248	10.261	12.23				
	52	cis-1,3-Dichloropropene	10.596	6.0	437236	0.409	0.386	10.603	10.606	10.37				
	53	CHLOROBENZENE-D5	10.000	0	813885	1	1	13.698	13.694	0				
	54	Toluene-d8	10.818	8.2	1210901	1.488	1.375	11.017	11.013	6.87				
	55	Toluene	10.583	5.8	1365083	1.677	1.585	11.151	11.148	13.23				
	56	Ethyl methacrylate	11.318	13.2	209124	0.257	0.227	11.432	11.448	13.58				
	57	trans-1,3-Dichloropropene	10.873	8.7	317657	0.390	0.359	11.462	11.468	13.11				
	58	1,1,2-Trichloroethane	10.903	9.0	173128	0.213	0.195	11.728	11.732	12.51				
5	59	2-Hexanone	57.060	14.1	481596	0.118	0.104	11.743	11.745	12.75				
	60	1,3-Dichloropropane	10.660	6.6	318885	0.392	0.368	12.173	12.175	10.91				
	61	Tetrachloroethene	9.664	-3.4	269419	0.331	0.343	12.276	12.277	8.52				
	62	Dibromochloromethane	10.500	5.0	198635	0.244	0.232	12.646	12.647	6.04				
	63	1,2-Dibromoethane	10.649	6.5	160251	0.197	0.185	13.017	13.013	11.07				
	64	1-Chlorohexane	9.738	-2.6	586912	0.721	0.740	13.283	13.284	8.90				
	65	Chlorobenzene	10.460	4.6	807857	0.993	0.949	13.757	13.762	8.50				
	66	1,1,1,2-Tetrachloroethane	10.475	4.8	247002	0.303	0.290	13.846	13.844	11.11				
	67	Ethylbenzene	10.276	2.8	1568373	1.927	1.875	13.861	13.860	13.61				
2	68	m-Xylene & p-Xylene	19.454	-2.7	2345217	1.441	1.481	13.994	13.996	8.36				
	69	o-Xylene	9.900	-1.0	1178660	1.448	1.463	14.809	14.816	13.73				
	70	Styrene	10.219	2.2	889936	1.093	1.070	14.883	14.886	11.33				
	71	Isopropylbenzene	9.644	-3.6	1558818	1.915	1.986	15.490	15.495	12.81				
	72	1,2-DICHLOROBENZENE-D4	10.000	0	318498	1	1	18.674	18.667	0				
	73	Bromoform	9.546	-4.5	87239	0.274	0.246	15.534	15.536	21.91	-0.0066	0.2939		0.9993
	74	trans-1,4-Dichloro-2-butene	10.050	0.5	49251	0.155	0.154	15.608	15.609	13.73				
	75	1,1,2,2-Tetrachloroethane	10.402	4.0	174869	0.549	0.528	15.830	15.835	11.05				
	76	4-Bromofluorobenzene	10.407	4.1	392450	1.232	1.184	15.979	15.981	7.58				
	77	1,2,3-Trichloropropane	10.111	1.1	47720	0.150	0.148	16.126	16.127	10.16				
	78	n-Propylbenzene	10.247	2.5	1932721	6.068	5.921	16.275	16.275	12.69				
	79	Bromobenzene	10.270	2.7	280561	0.881	0.858	16.349	16.361	5.43				
	80	1,3,5-Trimethylbenzene	10.161	1.6	1185583	3.722	3.663	16.571	16.582	9.71				
	81	2-Chlorotoluene	10.169	1.7	1165470	3.659	3.598	16.615	16.616	10.00				
	82	4-Chlorotoluene	9.800	-2.0	1002272	3.147	3.211	16.704	16.706	8.13				
	83	tert-Butylbenzene	9.974	-0.3	262292	0.824	0.826	17.267	17.264	5.73				
	84	1,2,4-Trimethylbenzene	10.316	3.2	1177231	3.696	3.583	17.326	17.334	9.83				
	85	sec-Butylbenzene	10.097	1.0	1658995	5.209	5.158	17.637	17.638	14.02				
	86	p-Isopropyltoluene	10.064	0.6	1289914	4.050	4.024	17.859	17.860	12.06				
	87	1,3-Dichlorobenzene	10.[illegible]	0.5	551841	1.733	1.724	18.007	18.008	7.2[illegible]				
	88	1,2,3-Trimethylbenzene	10.220	2.2	1061628	3.333	3.261	18.111	18.114	11.80				
	89	1,4-Dichlorobenzene	9.666	-3.3	527463	1.656	1.713	18.170	18.171	9.73				
	90	n-Butylbenzene	9.373	-6.3	1314457	4.127	4.400	18.466	18.472	11.64				
	91	1,2-Dichlorobenzene	10.001	0.0	447963	1.406	1.406	18.703	18.704	8.62				
	92	1,2-Dibromo-3-chloropropane	9.942	-0.6	22332	0.070	0.071	19.695	19.701	9.99				
	93	1,2,4-Trichlorobenzene	9.723	-2.8	294827	0.926	0.952	20.791	20.792	5.80				
	94	Hexachlorobutadiene	9.984	-0.2	19[illegible]057	0.609	0.610	20.954	20.956	8.57				
	95	Naphthalene	9.845	-1.5	367510	1.154	1.172	21.132	21.137	7.49				
	96	1,2,3-Trichlorobenzene	10.198	2.0	224150	0.704	0.690	21.458	21.458	8.36				

Spike Amount = Nominal Amount * M

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area . 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	122	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	9.046	9.5	99	0.00
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	11.560	-15.6	128	0.00
6	C,T,M	Vinyl chloride	10.000	11.451	-14.5	129	0.00
7	T,M	Bromomethane	10.000	10.636	-6.4	136	0.00
8	T,M	Chloroethane	10.000	11.296	-13.0	132	0.00
9	T,M	Dichlorofluoromethane	10.000	9.274	7.3	138	0.00
10	T,M	Trichlorofluoromethane	10.000	9.160	8.4	103	0.00
11	T,M	Acrolein	50.000	58.363	-16.7	138	0.02
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	9.640	3.6	122	0.00
13	T,M	Acetone	50.000	51.858	-3.7	123	0.02
14	C,T,M	1,1-Dichloroethene	10.000	9.782	2.2	126	0.00
15	T,M	tert-Butyl alcohol	250.000	251.013	-0.4	116	0.00
16	T,M	Iodomethane	10.000	10.700	-7.0	138	0.00
17	T,M	Methyl acetate	10.000	10.248	-2.5	120	0.00
18	T,M	Methylene chloride	10.000	10.565	-5.6	138	0.00
19	T,M	Carbon disulfide	10.000	11.141	-11.4	130	0.00
20	T,M	Acrylonitrile	50.000	57.404	-14.8	132	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	10.823	-8.2	128	0.00
22	T,M	trans-1,2-Dichloroethene	10.000	10.337	-3.4	134	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	10.731	-7.3	138	0.00
24	T,M	Vinyl acetate	10.000	11.036	-10.4	115	0.00
25	P,T,M	1,1-Dichloroethane	10.000	10.631	-6.3	138	0.01
26	T,M	2-Butanol	250.000	261.906	-4.8	118	0.00
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.623	-6.2	132	0.00
28	T,M	2-Butanone	50.000	52.037	-4.1	120	0.00
29	T,M	2,2-Dichloropropane	10.000	9.529	4.7	122	0.00
30	T,M	cis-1,2-Dichloroethene	10.000	10.363	-3.6	134	0.00
31	C,T,M	Chloroform	10.000	9.845	1.5	131	0.00
32	T,M	Bromochloromethane	10.000	10.587	-5.9	131	0.00
33	T,M	Tetrahydrofuran	10.000	11.394	-13.9	143	0.00
34	S	Dibromofluoromethane	10.000	10.446	-4.5	129	0.00
35	T,M	1,1,1-Trichloroethane	10.000	9.542	4.6	121	0.00
36	T,M	Cyclohexane	10.000	9.756	2.4	117	0.00
37	T,M	2,2,4-Trimethylpentane	10.000	10.331	-3.3	127	-0.01
38	T,M	1,1-Dichloropropene	10.000	10.006	-0.1	127	0.00
39	T,M	Carbon tetrachloride	10.000	9.441	5.6	117	0.00
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.208	-2.1	129	0.00
41	S	1,2-Dichloroethane-d4	10.000	9.841	1.6	116	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D
Acq On : 12 Oct 2024 7:36 pm
Sample : IVO01J1201 1.0/5.0
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA
MS Integration Params: RTE.P

Vial: 14
Operator: DNguye
Inst : 01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.239	-2.4	134	0.00
43	T,M	1,2-Dichloroethane	10.000	10.115	-1.2	116	0.00
44	T,M	Trichloroethene	10.000	10.063	-0.6	131	0.00
45	T,M	Methylcyclohexane	10.000	9.297	7.0	117	0.00
46	C,T,M	1,2-Dichloropropane	10.000	10.410	-4.1	134	0.00
47	T,M	Bromodichloromethane	10.000	10.078	-0.8	126	0.00
48	T,M	1,4-Dioxane	200.000	191.902	4.0	113	0.00
49	T,M	Dibromomethane	10.000	9.983	0.2	120	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	9.981	0.2	137	0.00
51	T,M	4-Methyl-2-pentanone	50.000	56.087	-12.2	119	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	10.596	-6.0	129	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	119	0.00
54	S	Toluene-d8	10.000	10.819	-8.2	132	0.00
55	C,T,M	Toluene	10.000	10.583	-5.8	132	0.00
56	T,M	Ethyl methacrylate	10.000	11.319	-13.2	120	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	10.873	-8.7	121	0.00
58	T,M	1,1,2-Trichloroethane	10.000	10.903	-9.0	124	0.00
59	T,M	2-Hexanone	50.000	57.060	-14.1	118	0.00
60	T,M	1,3-Dichloropropane	10.000	10.661	-6.6	125	0.00
61	T,M	Tetrachloroethene	10.000	9.665	3.4	125	0.00
62	T,M	Dibromochloromethane	10.000	10.500	-5.0	122	0.00
63	T,M	1,2-Dibromoethane	10.000	10.650	-6.5	121	0.00
64	T,M	1-Chlorohexane	10.000	9.739	2.6	125	0.00
65	P,M	Chlorobenzene	10.000	10.461	-4.6	132	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	10.000	10.475	-4.7	129	0.00
67	C,T,M	Ethylbenzene	10.000	10.276	-2.8	128	0.00
68	T,M	m-Xylene & p-Xylene	20.000	19.455	2.7	130	0.00
69	T,M	o-Xylene	10.000	9.900	1.0	110	-0.01
70	T,M	Styrene	10.000	10.220	-2.2	110	0.00
71	T,M	Isopropylbenzene	10.000	9.645	3.6	110	-0.01
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	100	0.00
73	P,T,M	Bromoform	10.000	9.547	4.5	102	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	10.051	-0.5	93	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	10.402	-4.0	95	-0.01
76	S	4-Bromofluorobenzene	10.000	10.407	-4.1	106	0.00
77	T,M	1,2,3-Trichloropropane	10.000	10.112	-1.1	94	0.00
78	T,M	n-Propylbenzene	10.000	10.248	-2.5	108	0.00
79	T,M	Bromobenzene	10.000	10.270	-2.7	109	-0.01
80	T,M	1,3,5-Trimethylbenzene	10.000	10.162	-1.6	109	-0.01

(#) = Out of Range

SL 10/30/24

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	10.169	-1.7	109	0.00
82	T,M	4-Chlorotoluene	10.000	9.800	2.0	106	0.00
83	T,M	tert-Butylbenzene	10.000	9.974	0.3	105	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	10.317	-3.2	109	-0.01
85	T,M	sec-Butylbenzene	10.000	10.098	-1.0	104	0.00
86	T,M	p-Isopropyltoluene	10.000	10.064	-0.6	107	0.00
87	T,M	1,3-Dichlorobenzene	10.000	10.050	-0.5	107	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.220	-2.2	107	0.00
89	T,M	1,4-Dichlorobenzene	10.000	9.666	3.3	106	0.00
90	T,M	n-Butylbenzene	10.000	9.373	6.3	104	-0.01
91	T,M	1,2-Dichlorobenzene	10.000	10.001	-0.0	106	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	9.942	0.6	94	-0.01
93	T,M	1,2,4-Trichlorobenzene	10.000	9.723	2.8	103	0.00
94	T,M	Hexachlorobutadiene	10.000	9.984	0.2	109	0.00
95	T,M	Naphthalene	10.000	9.845	1.5	94	0.00
96	T,M	1,2,3-Trichlorobenzene	10.000	10.199	-2.0	103	0.00

SY 10/30/24

(#) = Out of Range SPCC's out = 0 CCC's out = 0

DAILY CALIBRATIONS

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : TITAN 1-A
Lab Code : EMAX SDG No : 24J169
Lab File ID: RIW541 BFB Injection Date: 10/30/24
Instrument ID: 06 BFB Injection Time: 09:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	18.968
75	30 - 60% of mass 95	44.599
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	5.044
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	62.987
175	5 - 9% of mass 174	3.671(5.83)1
176	95 - 101% % of mass 174	62.817(99.73)1
177	5 - 9% % of mass 176	3.238(5.15)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, Lab QCs and Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD10	CV006J199	RIW542	10/30/24	09:56
2	LCS1W	V006J26L	RIW543	10/30/24	10:23
3	LCD1W	V006J26C	RIW544	10/30/24	10:49
4	MBLK1W	V006J26B	RIW546	10/30/24	11:54
5	T1AMF-TB002_OCT24	24J169-01	RIW562	10/30/24	18:54
6	T1AMF-MW063_OCT24	24J169-02	RIW563	10/30/24	19:21
7	T1AMF-MW064_OCT24	24J169-03	RIW564	10/30/24	19:47
8	T1AMF-MW055_OCT24	24J169-04	RIW565	10/30/24	20:13
9	VSTD10	EV006J199	RIW569	10/30/24	21:59

Revised Report

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: EMAX Laboratories, Inc.
Lab Code: EMAX
Lab File ID: RIW364
Instrument ID: 06

Project: TITAN 1-A
SDG No: 24J169
Date Analyzed: 10/19/24
Time Analyzed: 18:11

	INTERNAL STANDARD (IS)	1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5		1,2-DICHLOROBENZENE-D4	
		Area #	RT #	Area #	RT #	Area #	RT #
	12 HOUR STD	3831558	9.84	2808641	15.34	1084745	19.28
	UPPER LIMIT	7663116	10.0	5617282	15.51	2169490	19.45
	LOWER LIMIT	1915779	9.67	1404321	15.17	542373	19.11
		Area #	RT #	Area #	RT #	Area #	RT #
1	VSTD10	2380191	9.84	1676534	15.33	641931	19.27
2	LCS1W	3982730	9.84	3087360	15.33	1050725	19.27
3	LCD1W	3377723	9.84	2482469	15.32	861465	19.27
4	MBLK1W	4174173	9.84	3136989	15.33	1135377	19.27
5	T1AMF-TB002_OCT24	2574170	9.84	1982552	15.33	691363	19.27
6	T1AMF-MW063_OCT24	2556287	9.84	2022155	15.32	721961	19.27
7	T1AMF-MW064_OCT24	2406180	9.84	1897068	15.33	694192	19.27
8	T1AMF-MW055_OCT24	2395009	9.84	1855830	15.33	652256	19.27
9	VSTD10	2538635	9.84	2032606	15.33	772653	19.27

Area Upper Limit = +100% of ICAL Midpoint IS Area
Area Lower Limit = -50% of ICAL Midpoint IS Area
Retention Time(RT) Upper Limit = +10 seconds of ICAL Midpoint IS RT
Retention Time(RT) Lower Limit = -10 seconds of ICAL Midpoint IS RT

Revised Report

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW542.D Vial: 2
Acq On : 30 Oct 2024 9:56 am Operator: PMai
Sample : CVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	62	0.00
2	T,M	Dichlorodifluoromethane	10.000	10.633	-6.3	55	0.00
3	P,T,M	Chloromethane	10.000	10.907	-9.1	55	-0.02
4	C,T,M	Vinyl chloride	10.000	10.675	-6.8	51	0.00
5	T,M	Bromomethane	10.000	8.921	10.8	46	0.00
6	T,M	Chloroethane	10.000	9.018	9.8	46	-0.02
7	T,M	Dichlorofluoromethane	10.000	11.071	-10.7	58	0.00
8	T,M	Trichlorofluoromethane	10.000	9.931	0.7	51	0.00
9	T,M	Acrolein	50.000	113.125	-126.3#	125	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	8.334	16.7	42	-0.02
11	T,M	Acetone	50.000	65.987	-32.0#	76	-0.02
12	C,T,M	1,1-Dichloroethene	10.000	11.185	-11.9	58	-0.02
13	T,M	tert-Butyl alcohol	250.000	216.486	13.4	48	-0.02
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	9.605	3.9	60	-0.02
16	T,M	Iodomethane	10.000	8.532	14.7	44	0.00
17	T,M	Allyl chloride	10.000	9.186	8.1	49	0.00
18	T,M	Methylene chloride	10.000	13.787	-37.9#	73	0.00
19	T,M	Carbon disulfide	10.000	7.167	28.3#	35	-0.02
20	T,M	Acrylonitrile	50.000	69.550	-39.1#	74	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	9.829	1.7	51	0.00
22	T,M	trans-1,2-Dichloroethene	10.000	9.322	6.8	50	-0.02
23	T,M	Isopropyl ether (DIPE)	10.000	12.952	-29.5#	66	-0.02
24	T,M	Vinyl acetate	10.000	9.325	6.8	48	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.880	-8.8	58	0.00
26	T,M	2-Butanol	250.000	298.548	-19.4	70	-0.02
27	T,M	tert-Butyl ethyl ether (ETB	10.000	11.208	-12.1	60	0.00
28	T,M	2-Butanone	50.000	63.676	-27.4#	68	-0.02
29	T,M	2,2-Dichloropropane	10.000	14.573	-45.7#	73	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	9.502	5.0	51	-0.02
31	C,T,M	Chloroform	10.000	9.899	1.0	54	-0.02
32	T,M	Bromochloromethane	10.000	8.097	19.0	42	-0.02
33	T,M	Tetrahydrofuran	10.000	8.449	15.5	54	0.00
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	-0.04
35	S	Dibromofluoromethane	10.000	9.821	1.8	48	0.00
36	T,M	1,1,1-Trichloroethane	10.000	11.249	-12.5	60	0.00
37	T,M	Cyclohexane	10.000	15.151	-51.5#	80	0.00
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	0.06
39	T,M	1,1-Dichloropropene	10.000	7.856	21.4#	43	-0.02
40	T,M	Carbon tetrachloride	10.000	10.363	-3.6	54	0.00
41	T,M	tert-Amyl methyl ether (TAM	10.000	9.499	5.0	50	-0.02
42	S	1,2-Dichloroethane-d4	10.000	11.511	-15.1	55	-0.02
43	T,M	1,2-Dichloroethane	10.000	11.128	-11.3	57	0.00
44	T,M	Benzene	10.000	9.702	3.0	50	0.00
45	T,M	Trichloroethene	10.000	7.929	20.7#	41	-0.02
46	T,M	Methylcyclohexane	10.000	14.278	-42.8#	80	-0.02
47	C,T,M	1,2-Dichloropropane	10.000	9.655	3.5	51	0.00
48	T,M	1,4-Dioxane	200.000	112.546	43.7#	34	0.00
49	T,M	Bromodichloromethane	10.000	9.056	9.4	48	0.00
50	T,M	Dibromomethane	10.000	8.462	15.4	45	-0.02

(#) = Out of Range
RIW542.D VO06J19.M Thu Jan 30 13:01:37 2025 **Revised Report** Page 1

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW542.D Vial: 2
Acq On : 30 Oct 2024 9:56 am Operator: PMai
Sample : CVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	5.728	42.7#	32	0.00
52	T,M	4-Methyl-2-pentanone	50.000	73.521	-47.0#	74	0.00
53	T,M	cis-1,3-Dichloropropene	10.000	8.674	13.3	44	0.00
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	60	-0.01
55	S	Toluene-d8	10.000	9.565	4.4	44	0.00
56	C,T,M	Toluene	10.000	9.450	5.5	47	0.00
57	T,M	Ethyl methacrylate	10.000	7.308	26.9#	36	0.00
58	T,M	trans-1,3-Dichloropropene	10.000	8.077	19.2	39	-0.03
59	T,M	1,1,2-Trichloroethane	10.000	7.614	23.9#	38	-0.03
60	T,M	2-Hexanone	50.000	66.632	-33.3#	66	0.00
61	T,M	1,3-Dichloropropane	10.000	7.833	21.7#	38	-0.03
62	T,M	Tetrachloroethene	10.000	7.124	28.8#	35	-0.03
63	T,M	Dibromochloromethane	10.000	7.073	29.3#	35	0.00
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	7.193	28.1#	35	0.00
66	T,M	1-Chlorohexane	10.000	8.970	10.3	47	0.00
67	P,T,M	Chlorobenzene	10.000	8.639	13.6	42	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	10.000	9.690	3.1	48	-0.01
69	C,T,M	Ethylbenzene	10.000	9.285	7.1	46	-0.01
70	T,M	m-Xylene & p-Xylene	20.000	18.696	6.5	47	-0.03
71	T,M	o-Xylene	10.000	10.299	-3.0	52	-0.01
72	T,M	Styrene	10.000	8.453	15.5	41	-0.03
73	T,M	Isopropylbenzene	10.000	10.550	-5.5	53	-0.01
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	59	-0.02
75	P,T,M	Bromoform	10.000	5.827	41.7#	30	-0.01
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	9.139	8.6	44	-0.01
77	S	4-Bromofluorobenzene	10.000	8.518	14.8	41	-0.01
78	T,M	1,2,3-Trichloropropane	10.000	7.793	22.1#	40	-0.01
79	T,M	trans-1,4-Dichloro-2-butene	10.000	8.515	14.8	43	0.00
80	T,M	n-Propylbenzene	10.000	10.104	-1.0	50	-0.01
81	T,M	Bromobenzene	10.000	6.818	31.8#	33	-0.01
82	T,M	1,3,5-Trimethylbenzene	10.000	10.584	-5.8	51	-0.01
83	T,M	2-Chlorotoluene	10.000	10.811	-8.1	55	-0.01
84	T,M	4-Chlorotoluene	10.000	9.154	8.5	42	-0.01
85	T,M	tert-Butylbenzene	10.000	9.850	1.5	47	-0.01
86	T,M	1,2,4-Trimethylbenzene	10.000	10.616	-6.2	51	-0.01
87	T,M	sec-Butylbenzene	10.000	11.058	-10.6	54	-0.01
88	T,M	p-Isopropyltoluene	10.000	10.396	-4.0	50	-0.01
89	T,M	1,3-Dichlorobenzene	10.000	8.167	18.3	39	-0.01
90	T,M	1,2,3-Trimethylbenzene	10.000	11.036	-10.4	53	0.00
91	T,M	1,4-Dichlorobenzene	10.000	7.953	20.5#	37	-0.02
92	T,M	n-Butylbenzene	10.000	11.116	-11.2	55	-0.02
93	T,M	1,2-Dichlorobenzene	10.000	8.594	14.1	41	-0.02
94	T,M	1,2-Dibromo-3-chloropropane	10.000	7.560	24.4#	43	0.00
95	T,M	1,2,4-Trichlorobenzene	10.000	10.315	-3.1	52	-0.02
96	T,M	Hexachlorobutadiene	10.000	10.065	-0.6	48	-0.02
97	T,M	Naphthalene	10.000	9.923	0.8	50	-0.02
98	T,M	1,2,3-Trichlorobenzene	10.000	9.773	2.3	49	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW542.D Vial: 2
Acq On : 30 Oct 2024 9:56 am Operator: PMai
Sample : CVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	62	0.00
2	T,M	Dichlorodifluoromethane	0.356	0.378	-6.2	55	0.00
3	P,T,M	Chloromethane	0.346	0.377	-9.0	55	-0.02
4	C,T,M	Vinyl chloride	0.277	0.296	-6.9	51	0.00
5	T,M	Bromomethane	0.252	0.225	10.7	46#	0.00
6	T,M	Chloroethane	0.191	0.172	9.9	46#	-0.02
7	T,M	Dichlorofluoromethane	0.468	0.518	-10.7	58	0.00
8	T,M	Trichlorofluoromethane	0.371	0.369	0.5	51	0.00
9	T,M	Acrolein	0.010	0.023	-130.0#	125	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.177	16.9	42#	-0.02
11	T,M	Acetone	0.031	0.041	-32.3#	76	-0.02
12	C,T,M	1,1-Dichloroethene	0.453	0.506	-11.7	58	-0.02
13	T,M	tert-Butyl alcohol	0.009	0.007	22.2#	48#	-0.02
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.020	4.8	60	-0.02
16	T,M	Iodomethane	0.464	0.396	14.7	44#	0.00
17	T,M	Allyl chloride	0.181	0.166	8.3	49#	0.00
18	T,M	Methylene chloride	0.332	0.458	-38.0#	73	0.00
19	T,M	Carbon disulfide	0.567	0.406	28.4#	35#	-0.02
20	T,M	Acrylonitrile	0.041	0.057	-39.0#	74	0.00
21	T,M	tert-Butyl methyl ether (MT	0.482	0.474	1.7	51	0.00
22	T,M	trans-1,2-Dichloroethene	0.339	0.316	6.8	50	-0.02
23	T,M	Isopropyl ether (DIPE)	0.895	1.159	-29.5#	66	-0.02
24	T,M	Vinyl acetate	0.311	0.290	6.8	48#	-0.02
25	P,T,M	1,1-Dichloroethane	0.504	0.548	-8.7	58	0.00
26	T,M	2-Butanol	0.009	0.010	-11.1	70	-0.02
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.741	-11.9	60	0.00
28	T,M	2-Butanone	0.052	0.066	-26.9#	68	-0.02
29	T,M	2,2-Dichloropropane	0.302	0.440	-45.7#	73	-0.02
30	T,M	cis-1,2-Dichloroethene	0.327	0.311	4.9	51	-0.02
31	C,T,M	Chloroform	0.503	0.498	1.0	54	-0.02
32	T,M	Bromochloromethane	0.139	0.113	18.7	42#	-0.02
33	T,M	Tetrahydrofuran	0.030	0.025	16.7	54	0.00
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	-0.04
35	S	Dibromofluoromethane	0.245	0.241	1.6	48#	0.00
36	T,M	1,1,1-Trichloroethane	0.402	0.452	-12.4	60	0.00
37	T,M	Cyclohexane	0.502	0.760	-51.4#	80	0.00
38	T,M	2,2,4-Trimethylpentane	0.000	0.000	0.0	0#	0.06
39	T,M	1,1-Dichloropropene	0.148	0.116	21.6#	43#	-0.02
40	T,M	Carbon tetrachloride	0.327	0.339	-3.7	54	0.00
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.532	5.0	50#	-0.02
42	S	1,2-Dichloroethane-d4	0.170	0.195	-14.7	55	-0.02
43	T,M	1,2-Dichloroethane	0.204	0.227	-11.3	57	0.00
44	T,M	Benzene	1.159	1.124	3.0	50#	0.00
45	T,M	Trichloroethene	0.306	0.243	20.6#	41#	-0.02
46	T,M	Methylcyclohexane	0.624	0.892	-42.9#	80	-0.02
47	C,T,M	1,2-Dichloropropane	0.252	0.243	3.6	51	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	34#	0.00
49	T,M	Bromodichloromethane	0.326	0.295	9.5	48#	0.00
50	T,M	Dibromomethane	0.122	0.103	15.6	45#	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW542.D Vial: 2
Acq On : 30 Oct 2024 9:56 am Operator: PMai
Sample : CVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.083	0.047	43.4#	32#	0.00
52	T,M	4-Methyl-2-pentanone	0.139	0.205	-47.5#	74	0.00
53	T,M	cis-1,3-Dichloropropene	0.391	0.339	13.3	44#	0.00
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	60	-0.01
55	S	Toluene-d8	1.382	1.322	4.3	44#	0.00
56	C,T,M	Toluene	1.660	1.568	5.5	47#	0.00
57	T,M	Ethyl methacrylate	0.269	0.197	26.8#	36#	0.00
58	T,M	trans-1,3-Dichloropropene	0.390	0.315	19.2	39#	-0.03
59	T,M	1,1,2-Trichloroethane	0.209	0.159	23.9#	38#	-0.03
60	T,M	2-Hexanone	0.118	0.158	-33.9#	66	0.00
61	T,M	1,3-Dichloropropane	0.372	0.291	21.8#	38#	-0.03
62	T,M	Tetrachloroethene	0.352	0.251	28.7#	35#	-0.03
63	T,M	Dibromochloromethane	0.258	0.183	29.1#	35#	0.00
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.137	28.3#	35#	0.00
66	T,M	1-Chlorohexane	0.676	0.607	10.2	47#	0.00
67	P,T,M	Chlorobenzene	0.907	0.784	13.6	42#	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.297	2.9	48#	-0.01
69	C,T,M	Ethylbenzene	1.791	1.663	7.1	46#	-0.01
70	T,M	m-Xylene & p-Xylene	1.341	1.253	6.6	47#	-0.03
71	T,M	o-Xylene	1.351	1.391	-3.0	52	-0.01
72	T,M	Styrene	0.966	0.816	15.5	41#	-0.03
73	T,M	Isopropylbenzene	1.752	1.848	-5.5	53	-0.01
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	59	-0.02
75	P,T,M	Bromoform	0.312	0.182	41.7#	30#	-0.01
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.497	8.6	44#	-0.01
77	S	4-Bromofluorobenzene	1.116	0.951	14.8	41#	-0.01
78	T,M	1,2,3-Trichloropropane	0.139	0.108	22.3#	40#	-0.01
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.110	14.7	43#	0.00
80	T,M	n-Propylbenzene	5.578	5.636	-1.0	50#	-0.01
81	T,M	Bromobenzene	0.891	0.607	31.9#	33#	-0.01
82	T,M	1,3,5-Trimethylbenzene	3.477	3.680	-5.8	51	-0.01
83	T,M	2-Chlorotoluene	3.364	3.637	-8.1	55	-0.01
84	T,M	4-Chlorotoluene	2.888	2.644	8.4	42#	-0.01
85	T,M	tert-Butylbenzene	0.774	0.762	1.6	47#	-0.01
86	T,M	1,2,4-Trimethylbenzene	3.400	3.610	-6.2	51	-0.01
87	T,M	sec-Butylbenzene	4.841	5.353	-10.6	54	-0.01
88	T,M	p-Isopropyltoluene	3.830	3.981	-3.9	50	-0.01
89	T,M	1,3-Dichlorobenzene	1.733	1.415	18.3	39#	-0.01
90	T,M	1,2,3-Trimethylbenzene	3.005	3.316	-10.3	53	0.00
91	T,M	1,4-Dichlorobenzene	1.673	1.330	20.5#	37#	-0.02
92	T,M	n-Butylbenzene	3.769	4.189	-11.1	55	-0.02
93	T,M	1,2-Dichlorobenzene	1.413	1.214	14.1	41#	-0.02
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.064	24.7#	43#	0.00
95	T,M	1,2,4-Trichlorobenzene	0.820	0.845	-3.0	52	-0.02
96	T,M	Hexachlorobutadiene	0.489	0.492	-0.6	48#	-0.02
97	T,M	Naphthalene	1.149	1.140	0.8	50	-0.02
98	T,M	1,2,3-Trichlorobenzene	0.618	0.604	2.3	49#	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Revised Report

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW569.D Vial: 29
Acq On : 30 Oct 2024 9:59 pm Operator: PMai
Sample : EVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Oct 24 19:13:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	66	0.00
2	T,M	Dichlorodifluoromethane	10.000	7.629	23.7#	42	0.00
3	P,T,M	Chloromethane	10.000	8.436	15.6	45	-0.02
4	C,T,M	Vinyl chloride	10.000	5.914	40.9#	30	0.00
5	T,M	Bromomethane	10.000	6.177	38.2#	34	0.00
6	T,M	Chloroethane	10.000	6.559	34.4#	35	0.00
7	T,M	Dichlorofluoromethane	10.000	7.858	21.4#	44	0.00
8	T,M	Trichlorofluoromethane	10.000	7.654	23.5#	42	0.00
9	T,M	Acrolein	50.000	81.702	-63.4#	96	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	5.269	47.3#	29	0.00
11	T,M	Acetone	50.000	60.740	-21.5#	75	-0.02
12	C,T,M	1,1-Dichloroethene	10.000	8.464	15.4	47	-0.02
13	T,M	tert-Butyl alcohol	250.000	164.114	34.4#	43	-0.02
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	8.945	10.5	60	-0.02
16	T,M	Iodomethane	10.000	6.692	33.1#	37	0.00
17	T,M	Allyl chloride	10.000	7.381	26.2#	39	-0.02
18	T,M	Methylene chloride	10.000	11.990	-19.9	68	0.00
19	T,M	Carbon disulfide	10.000	7.167	28.3#	38	-0.02
20	T,M	Acrylonitrile	50.000	60.682	-21.4#	69	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	8.845	11.5	49	0.00
22	T,M	trans-1,2-Dichloroethene	10.000	7.385	26.2#	42	-0.02
23	T,M	Isopropyl ether (DIPE)	10.000	12.780	-27.8#	70	-0.02
24	T,M	Vinyl acetate	10.000	10.272	-2.7	56	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	9.797	2.0	55	-0.02
26	T,M	2-Butanol	250.000	310.895	-24.4#	76	-0.02
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.318	-3.2	59	0.00
28	T,M	2-Butanone	50.000	72.340	-44.7#	82	-0.02
29	T,M	2,2-Dichloropropane	10.000	8.054	19.5	43	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	8.071	19.3	46	-0.02
31	C,T,M	Chloroform	10.000	9.352	6.5	55	-0.02
32	T,M	Bromochloromethane	10.000	6.852	31.5#	39	-0.02
33	T,M	Tetrahydrofuran	10.000	9.411	5.9	65	0.00
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	-0.04
35	S	Dibromofluoromethane	10.000	9.291	7.1	48	0.00
36	T,M	1,1,1-Trichloroethane	10.000	9.275	7.2	52	0.00
37	T,M	Cyclohexane	10.000	10.356	-3.6	58	0.00
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	-8.56#
39	T,M	1,1-Dichloropropene	10.000	6.800	32.0#	40	-0.02
40	T,M	Carbon tetrachloride	10.000	8.517	14.8	47	-0.02
41	T,M	tert-Amyl methyl ether (TAM	10.000	9.184	8.2	52	-0.02
42	S	1,2-Dichloroethane-d4	10.000	12.269	-22.7#	62	-0.02
43	T,M	1,2-Dichloroethane	10.000	12.705	-27.1#	69	0.00
44	T,M	Benzene	10.000	9.438	5.6	51	0.00
45	T,M	Trichloroethene	10.000	7.805	22.0#	43	0.00
46	T,M	Methylcyclohexane	10.000	10.233	-2.3	61	-0.02
47	C,T,M	1,2-Dichloropropane	10.000	10.347	-3.5	58	0.00
48	T,M	1,4-Dioxane	200.000	142.725	28.6#	45	0.02
49	T,M	Bromodichloromethane	10.000	10.449	-4.5	59	0.00
50	T,M	Dibromomethane	10.000	8.878	11.2	51	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW569.D Vial: 29
Acq On : 30 Oct 2024 9:59 pm Operator: PMai
Sample : EVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Oct 24 19:13:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	8.391	16.1	51	0.00
52	T,M	4-Methyl-2-pentanone	50.000	87.258	-74.5#	93	0.00
53	T,M	cis-1,3-Dichloropropene	10.000	10.058	-0.6	54	0.00
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	72	-0.01
55	S	Toluene-d8	10.000	9.124	8.8	51	0.00
56	C,T,M	Toluene	10.000	8.744	12.6	53	0.00
57	T,M	Ethyl methacrylate	10.000	9.099	9.0	54	0.00
58	T,M	trans-1,3-Dichloropropene	10.000	9.518	4.8	56	-0.03
59	T,M	1,1,2-Trichloroethane	10.000	8.397	16.0	51	-0.03
60	T,M	2-Hexanone	50.000	79.874	-59.7#	95	0.00
61	T,M	1,3-Dichloropropane	10.000	9.408	5.9	56	0.00
62	T,M	Tetrachloroethene	10.000	6.298	37.0#	38	-0.03
63	T,M	Dibromochloromethane	10.000	8.125	18.8	49	0.00
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	8.366	16.3	49	0.00
66	T,M	1-Chlorohexane	10.000	8.497	15.0	57	0.00
67	P,T,M	Chlorobenzene	10.000	8.875	11.3	52	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	10.000	8.392	16.1	50	-0.01
69	C,T,M	Ethylbenzene	10.000	9.082	9.2	54	-0.01
70	T,M	m-Xylene & p-Xylene	20.000	18.485	7.6	56	-0.01
71	T,M	o-Xylene	10.000	9.362	6.4	57	-0.01
72	T,M	Styrene	10.000	9.448	5.5	55	-0.01
73	T,M	Isopropylbenzene	10.000	8.848	11.5	53	-0.01
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	71	-0.01
75	P,T,M	Bromoform	10.000	7.178	28.2#	44	-0.01
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	8.563	14.4	54	-0.01
77	S	4-Bromofluorobenzene	10.000	9.887	1.1	54	-0.01
78	T,M	1,2,3-Trichloropropane	10.000	8.424	15.8	55	-0.01
79	T,M	trans-1,4-Dichloro-2-butene	10.000	9.692	3.1	59	0.00
80	T,M	n-Propylbenzene	10.000	9.363	6.4	55	-0.01
81	T,M	Bromobenzene	10.000	7.495	25.1#	43	-0.01
82	T,M	1,3,5-Trimethylbenzene	10.000	9.363	6.4	55	-0.01
83	T,M	2-Chlorotoluene	10.000	10.185	-1.9	62	-0.01
84	T,M	4-Chlorotoluene	10.000	9.688	3.1	54	-0.01
85	T,M	tert-Butylbenzene	10.000	8.198	18.0	48	-0.01
86	T,M	1,2,4-Trimethylbenzene	10.000	9.644	3.6	56	-0.01
87	T,M	sec-Butylbenzene	10.000	9.197	8.0	53	-0.01
88	T,M	p-Isopropyltoluene	10.000	8.758	12.4	51	-0.01
89	T,M	1,3-Dichlorobenzene	10.000	8.637	13.6	49	-0.01
90	T,M	1,2,3-Trimethylbenzene	10.000	9.942	0.6	58	0.00
91	T,M	1,4-Dichlorobenzene	10.000	8.637	13.6	49	-0.01
92	T,M	n-Butylbenzene	10.000	9.148	8.5	54	-0.01
93	T,M	1,2-Dichlorobenzene	10.000	8.762	12.4	51	-0.01
94	T,M	1,2-Dibromo-3-chloropropane	10.000	6.313	36.9#	44	0.00
95	T,M	1,2,4-Trichlorobenzene	10.000	7.650	23.5#	46	-0.01
96	T,M	Hexachlorobutadiene	10.000	8.687	13.1	43	-0.01
97	T,M	Naphthalene	10.000	8.067	19.3	49	0.00
98	T,M	1,2,3-Trichlorobenzene	10.000	7.178	28.2#	44	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW569.D Vial: 29
Acq On : 30 Oct 2024 9:59 pm Operator: PMai
Sample : EVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Oct 24 19:13:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	66	0.00
2	T,M	Dichlorodifluoromethane	0.356	0.271	23.9#	42#	0.00
3	P,T,M	Chloromethane	0.346	0.292	15.6	45#	-0.02
4	C,T,M	Vinyl chloride	0.275	0.163	40.7#	30#	0.00
5	T,M	Bromomethane	0.252	0.156	38.1#	34#	0.00
6	T,M	Chloroethane	0.191	0.125	34.6#	35#	0.00
7	T,M	Dichlorofluoromethane	0.468	0.368	21.4#	44#	0.00
8	T,M	Trichlorofluoromethane	0.371	0.284	23.5#	42#	0.00
9	T,M	Acrolein	0.010	0.017	-70.0#	96	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.112	47.4#	29#	0.00
11	T,M	Acetone	0.031	0.038	-22.6#	75	-0.02
12	C,T,M	1,1-Dichloroethene	0.453	0.383	15.5	47#	-0.02
13	T,M	tert-Butyl alcohol	0.008	0.006	25.0#	43#	-0.02
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.019	9.5	60	-0.02
16	T,M	Iodomethane	0.464	0.310	33.2#	37#	0.00
17	T,M	Allyl chloride	0.568	0.419	26.2#	39#	-0.02
18	T,M	Methylene chloride	0.332	0.398	-19.9	68	0.00
19	T,M	Carbon disulfide	0.567	0.406	28.4#	38#	-0.02
20	T,M	Acrylonitrile	0.041	0.050	-22.0#	69	0.00
21	T,M	tert-Butyl methyl ether (MT	0.482	0.427	11.4	49#	0.00
22	T,M	trans-1,2-Dichloroethene	0.339	0.245	27.7#	42#	-0.02
23	T,M	Isopropyl ether (DIPE)	0.895	1.144	-27.8#	70	-0.02
24	T,M	Vinyl acetate	0.311	0.319	-2.6	56	-0.02
25	P,T,M	1,1-Dichloroethane	0.504	0.494	2.0	55	-0.02
26	T,M	2-Butanol	0.008	0.010	-25.0#	76	-0.02
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.683	-3.2	59	0.00
28	T,M	2-Butanone	0.052	0.075	-44.2#	82	-0.02
29	T,M	2,2-Dichloropropane	0.302	0.243	19.5	43#	-0.02
30	T,M	cis-1,2-Dichloroethene	0.327	0.264	19.3	46#	-0.02
31	C,T,M	Chloroform	0.503	0.471	6.4	55	-0.02
32	T,M	Bromochloromethane	0.139	0.097	30.2#	39#	-0.02
33	T,M	Tetrahydrofuran	0.030	0.028	6.7	65	0.00
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	-0.04
35	S	Dibromofluoromethane	0.245	0.228	6.9	48#	0.00
36	T,M	1,1,1-Trichloroethane	0.402	0.373	7.2	52	0.00
37	T,M	Cyclohexane	0.502	0.520	-3.6	58	0.00
38	T,M	2,2,4-Trimethylpentane	0.000	0.000	0.0	0#	-8.56#
39	T,M	1,1-Dichloropropene	0.148	0.101	31.8#	40#	-0.02
40	T,M	Carbon tetrachloride	0.327	0.279	14.7	47#	-0.02
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.521	7.0	52	-0.02
42	S	1,2-Dichloroethane-d4	0.170	0.208	-22.4#	62	-0.02
43	T,M	1,2-Dichloroethane	0.204	0.259	-27.0#	69	0.00
44	T,M	Benzene	1.159	1.094	5.6	51	0.00
45	T,M	Trichloroethene	0.306	0.239	21.9#	43#	0.00
46	T,M	Methylcyclohexane	0.624	0.639	-2.4	61	-0.02
47	C,T,M	1,2-Dichloropropane	0.252	0.261	-3.6	58	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	45#	0.02
49	T,M	Bromodichloromethane	0.326	0.341	-4.6	59	0.00
50	T,M	Dibromomethane	0.122	0.108	11.5	51	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24J30\RIW569.D Vial: 29
Acq On : 30 Oct 2024 9:59 pm Operator: PMai
Sample : EVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Oct 24 19:13:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.078	0.071	9.0	51	0.00
52	T,M	4-Methyl-2-pentanone	0.139	0.243	-74.8#	93	0.00
53	T,M	cis-1,3-Dichloropropene	0.391	0.393	-0.5	54	0.00
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	72	-0.01
55	S	Toluene-d8	1.382	1.261	8.8	51	0.00
56	C,T,M	Toluene	1.663	1.454	12.6	53	0.00
57	T,M	Ethyl methacrylate	0.269	0.245	8.9	54	0.00
58	T,M	trans-1,3-Dichloropropene	0.390	0.371	4.9	56	-0.03
59	T,M	1,1,2-Trichloroethane	0.209	0.175	16.3	51	-0.03
60	T,M	2-Hexanone	0.118	0.189	-60.2#	95	0.00
61	T,M	1,3-Dichloropropane	0.372	0.350	5.9	56	0.00
62	T,M	Tetrachloroethene	0.352	0.222	36.9#	38#	-0.03
63	T,M	Dibromochloromethane	0.258	0.210	18.6	49#	0.00
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.159	16.8	49#	0.00
66	T,M	1-Chlorohexane	0.676	0.603	10.8	57	0.00
67	P,T,M	Chlorobenzene	0.907	0.805	11.2	52	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.257	16.0	50	-0.01
69	C,T,M	Ethylbenzene	1.781	1.617	9.2	54	-0.01
70	T,M	m-Xylene & p-Xylene	1.341	1.239	7.6	56	-0.01
71	T,M	o-Xylene	1.333	1.248	6.4	57	-0.01
72	T,M	Styrene	0.966	0.912	5.6	55	-0.01
73	T,M	Isopropylbenzene	1.752	1.550	11.5	53	-0.01
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	71	-0.01
75	P,T,M	Bromoform	0.312	0.224	28.2#	44#	-0.01
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.501	7.9	54	-0.01
77	S	4-Bromofluorobenzene	1.067	1.055	1.1	54	-0.01
78	T,M	1,2,3-Trichloropropane	0.139	0.123	11.5	55	-0.01
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.125	3.1	59	0.00
80	T,M	n-Propylbenzene	5.564	5.209	6.4	55	-0.01
81	T,M	Bromobenzene	0.891	0.668	25.0#	43#	-0.01
82	T,M	1,3,5-Trimethylbenzene	3.492	3.269	6.4	55	-0.01
83	T,M	2-Chlorotoluene	3.364	3.426	-1.8	62	-0.01
84	T,M	4-Chlorotoluene	2.888	2.798	3.1	54	-0.01
85	T,M	tert-Butylbenzene	0.774	0.634	18.1	48#	-0.01
86	T,M	1,2,4-Trimethylbenzene	3.399	3.278	3.6	56	-0.01
87	T,M	sec-Butylbenzene	4.791	4.406	8.0	53	-0.01
88	T,M	p-Isopropyltoluene	3.830	3.354	12.4	51	-0.01
89	T,M	1,3-Dichlorobenzene	1.673	1.445	13.6	49#	-0.01
90	T,M	1,2,3-Trimethylbenzene	3.005	2.988	0.6	58	0.00
91	T,M	1,4-Dichlorobenzene	1.673	1.445	13.6	49#	-0.01
92	T,M	n-Butylbenzene	3.769	3.447	8.5	54	-0.01
93	T,M	1,2-Dichlorobenzene	1.413	1.238	12.4	51	-0.01
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.054	36.5#	44#	0.00
95	T,M	1,2,4-Trichlorobenzene	0.820	0.627	23.5#	46#	-0.01
96	T,M	Hexachlorobutadiene	0.498	0.361	27.5#	43#	-0.01
97	T,M	Naphthalene	1.149	0.927	19.3	49#	0.00
98	T,M	1,2,3-Trichlorobenzene	0.618	0.443	28.3#	44#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : TITAN 1-A
Lab Code : EMAX SDG No : 24J169
Lab File ID: RKV026 BFB Injection Date: 11/04/24
Instrument ID: 01 BFB Injection Time: 16:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	19.152
75	30 - 60% of mass 95	53.469
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	6.354
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	72.497
175	5 - 9% of mass 174	5.540(7.64)1
176	95 - 101% % of mass 174	72.029(99.35)1
177	5 - 9% % of mass 176	4.924(6.84)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, Lab QCs and Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD10	CV001J1220	RKV027	11/04/24	17:28
2	LCS2W	V001K02L	RKV028	11/04/24	17:58
3	LCD2W	V001K02C	RKV029	11/04/24	18:27
4	MBLK2W	V001K02B	RKV031	11/04/24	19:26
5	T1AMF-MW054_OCT24	24J169-05	RKV032	11/04/24	19:55
6	T1AMF-MW019_OCT24	24J169-06	RKV033	11/04/24	20:24
7	T1AMF-MW016_OCT24	24J169-07	RKV034	11/04/24	20:53
8	T1AMF-MW016_OCT24_FD	24J169-08	RKV035	11/04/24	21:22
9	T1AMF-MW011_OCT24	24J169-09	RKV036	11/04/24	21:51
10	T1AMF-MW052_OCT24	24J169-10	RKV037	11/04/24	22:20
11	VSTD10	EV001J1220	RKV050	11/05/24	04:33
12	VSTD10	EV001J12201	RKV051	11/05/24	05:03
13	VSTD10	EV001J12202	RKV052	11/05/24	05:31

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: EMAX Laboratories, Inc.
Lab Code: EMAX
Lab File ID: RJV302
Instrument ID: 01

Project: TITAN 1-A
SDG No: 24J169
Date Analyzed: 10/12/24
Time Analyzed: 16:08

	INTERNAL STANDARD (IS)	1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5		1,2-DICHLOROBENZENE-D4	
		Area #	RT #	Area #	RT #	Area #	RT #
	12 HOUR STD	878286	8.54	685675	13.70	317109	18.67
	UPPER LIMIT	1756572	8.71	1371350	13.87	634218	18.84
	LOWER LIMIT	439143	8.37	342838	13.53	158555	18.50
		Area #	RT #	Area #	RT #	Area #	RT #
1	VSTD10	764276	8.53	592084	13.70	332956	18.67
2	LCS2W	947008	8.53	785265	13.68	362450	18.67
3	LCD2W	893647	8.54	696021	13.70	351155	18.67
4	MBLK2W	957179	8.54	709126	13.70	274730	18.67
5	T1AMF-MW054_OCT24	834831	8.53	623459	13.70	243520	18.67
6	T1AMF-MW019_OCT24	826496	8.53	601687	13.70	241469	18.67
7	T1AMF-MW016_OCT24	702259	8.53	526886	13.68	214116	18.66
8	T1AMF-MW016_OCT24_FD	756805	8.53	567358	13.68	227918	18.66
9	T1AMF-MW011_OCT24	729581	8.53	550585	13.70	224377	18.67
10	T1AMF-MW052_OCT24	752749	8.53	554536	13.68	224206	18.67
11	VSTD10	639576	8.55	494080	13.70	325146	18.67
12	VSTD10	686559	8.54	523389	13.70	326183	18.67
13	VSTD10	1095441	8.54	830324	13.70	340306	18.67

Area Upper Limit = +100% of ICAL Midpoint IS Area
Area Lower Limit = -50% of ICAL Midpoint IS Area
Retention Time(RT) Upper Limit = +10 seconds of ICAL Midpoint IS RT
Retention Time(RT) Lower Limit = -10 seconds of ICAL Midpoint IS RT

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	87	-0.01
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	8.591	14.1	67	-0.08
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	8.508	14.9	67	-0.10
6	C,T,M	Vinyl chloride	10.000	9.916	0.8	80	-0.08
7	T,M	Bromomethane	10.000	11.969	-19.7	109	-0.09
8	T,M	Chloroethane	10.000	10.082	-0.8	84	-0.03
9	T,M	Dichlorofluoromethane	10.000	11.496	-15.0	123	-0.08
10	T,M	Trichlorofluoromethane	10.000	10.732	-7.3	87	-0.09
11	T,M	Acrolein	50.000	63.037	-26.1#	107	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	12.710	-27.1#	115	-0.06
13	T,M	Acetone	50.000	55.928	-11.9	95	-0.05
14	C,T,M	1,1-Dichloroethene	10.000	9.769	2.3	90	-0.05
15	T,M	tert-Butyl alcohol	250.000	268.568	-7.4	89	-0.05
16	T,M	Iodomethane	10.000	11.785	-17.9	109	-0.05
17	T,M	Methyl acetate	10.000	9.991	0.1	84	-0.03
18	T,M	Methylene chloride	10.000	10.202	-2.0	96	-0.05
19	T,M	Carbon disulfide	10.000	10.438	-4.4	87	-0.05
20	T,M	Acrylonitrile	50.000	57.667	-15.3	95	-0.03
21	T,M	tert-Butyl methyl ether (MT	10.000	11.258	-12.6	95	-0.05
22	T,M	trans-1,2-Dichloroethene	10.000	9.890	1.1	92	-0.05
23	T,M	Isopropyl ether (DIPE)	10.000	9.617	3.8	89	-0.05
24	T,M	Vinyl acetate	10.000	9.777	2.2	73	-0.03
25	P,T,M	1,1-Dichloroethane	10.000	10.517	-5.2	98	-0.03
26	T,M	2-Butanol	250.000	306.779	-22.7#	99	-0.05
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.331	-3.3	92	-0.03
28	T,M	2-Butanone	50.000	50.247	-0.5	83	-0.03
29	T,M	2,2-Dichloropropane	10.000	11.401	-14.0	104	-0.03
30	T,M	cis-1,2-Dichloroethene	10.000	10.768	-7.7	99	-0.03
31	C,T,M	Chloroform	10.000	10.711	-7.1	102	-0.03
32	T,M	Bromochloromethane	10.000	9.716	2.8	86	-0.02
33	T,M	Tetrahydrofuran	10.000	9.957	0.4	89	-0.03
34	S	Dibromofluoromethane	10.000	10.758	-7.6	95	-0.02
35	T,M	1,1,1-Trichloroethane	10.000	10.650	-6.5	96	-0.02
36	T,M	Cyclohexane	10.000	9.642	3.6	83	-0.03
37	T,M	2,2,4-Trimethylpentane	10.000	9.202	8.0	81	-0.03
38	T,M	1,1-Dichloropropene	10.000	10.256	-2.6	93	-0.02
39	T,M	Carbon tetrachloride	10.000	11.078	-10.8	99	-0.03
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.582	-5.8	95	-0.03
41	S	1,2-Dichloroethane-d4	10.000	9.813	1.9	83	-0.02

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.563	-5.6	99	-0.03
43	T,M	1,2-Dichloroethane	10.000	10.754	-7.5	88	-0.02
44	T,M	Trichloroethene	10.000	10.961	-9.6	102	-0.01
45	T,M	Methylcyclohexane	10.000	9.444	5.6	85	-0.01
46	C,T,M	1,2-Dichloropropane	10.000	10.364	-3.6	95	-0.01
47	T,M	Bromodichloromethane	10.000	10.991	-9.9	99	-0.01
48	T,M	1,4-Dioxane	200.000	207.207	-3.6	87	0.02
49	T,M	Dibromomethane	10.000	10.675	-6.8	92	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	12.246	-22.5#	123	-0.01
51	T,M	4-Methyl-2-pentanone	50.000	51.796	-3.6	79	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	10.863	-8.6	95	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	86	0.00
54	S	Toluene-d8	10.000	10.283	-2.8	91	-0.01
55	C,T,M	Toluene	10.000	10.728	-7.3	97	-0.01
56	T,M	Ethyl methacrylate	10.000	11.383	-13.8	88	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	11.618	-16.2	94	0.00
58	T,M	1,1,2-Trichloroethane	10.000	11.625	-16.3	96	0.00
59	T,M	2-Hexanone	50.000	52.575	-5.2	79	0.00
60	T,M	1,3-Dichloropropane	10.000	11.221	-12.2	95	0.00
61	T,M	Tetrachloroethene	10.000	10.937	-9.4	103	0.00
62	T,M	Dibromochloromethane	10.000	11.793	-17.9	99	0.00
63	T,M	1,2-Dibromoethane	10.000	11.069	-10.7	91	-0.01
64	T,M	1-Chlorohexane	10.000	9.723	2.8	90	0.00
65	P,M	Chlorobenzene	10.000	10.913	-9.1	100	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	10.000	12.438	-24.4#	111	0.00
67	C,T,M	Ethylbenzene	10.000	10.672	-6.7	96	0.00
68	T,M	m-Xylene & p-Xylene	20.000	19.961	0.2	97	0.00
69	T,M	o-Xylene	10.000	13.617	-36.2#	110	-0.01
70	T,M	Styrene	10.000	14.470	-44.7#	114	0.00
71	T,M	Isopropylbenzene	10.000	13.374	-33.7#	110	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	105	0.00
73	P,T,M	Bromoform	10.000	10.603	-6.0	119	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	9.004	10.0	87	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	11.073	-10.7	106	-0.01
76	S	4-Bromofluorobenzene	10.000	9.676	3.2	103	0.00
77	T,M	1,2,3-Trichloropropane	10.000	10.762	-7.6	105	0.00
78	T,M	n-Propylbenzene	10.000	9.848	1.5	109	0.00
79	T,M	Bromobenzene	10.000	11.432	-14.3	127	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	9.668	3.3	108	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	9.717	2.8	109	0.00
82	T,M	4-Chlorotoluene	10.000	9.708	2.9	109	0.00
83	T,M	tert-Butylbenzene	10.000	10.789	-7.9	118	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	9.762	2.4	108	0.00
85	T,M	sec-Butylbenzene	10.000	9.662	3.4	104	0.00
86	T,M	p-Isopropyltoluene	10.000	9.797	2.0	109	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.061	-10.6	123	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	9.836	1.6	108	0.00
89	T,M	1,4-Dichlorobenzene	10.000	10.764	-7.6	124	0.00
90	T,M	n-Butylbenzene	10.000	8.849	11.5	103	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.002	-10.0	122	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	11.131	-11.3	110	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.850	-8.5	120	0.00
94	T,M	Hexachlorobutadiene	10.000	11.023	-10.2	125	0.02
95	T,M	Naphthalene	10.000	10.464	-4.6	105	0.02
96	T,M	1,2,3-Trichlorobenzene	10.000	11.183	-11.8	118	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	87	-0.01
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.353	14.1	67	-0.08
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.264	14.8	67	-0.10
6	C,T,M	Vinyl chloride	0.273	0.271	0.7	80	-0.08
7	T,M	Bromomethane	0.197	0.236	-19.8	109	-0.09
8	T,M	Chloroethane	0.207	0.209	-1.0	84	-0.03
9	T,M	Dichlorofluoromethane	0.380	0.436	-14.7	123	-0.08
10	T,M	Trichlorofluoromethane	0.445	0.477	-7.2	87	-0.09
11	T,M	Acrolein	0.008	0.010	-25.0#	107	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.233	-27.3#	115	-0.06
13	T,M	Acetone	0.037	0.041	-10.8	95	-0.05
14	C,T,M	1,1-Dichloroethene	0.467	0.456	2.4	90	-0.05
15	T,M	tert-Butyl alcohol	0.009	0.010	-11.1	89	-0.05
16	T,M	Iodomethane	0.396	0.467	-17.9	109	-0.05
17	T,M	Methyl acetate	0.095	0.095	0.0	84	-0.03
18	T,M	Methylene chloride	0.336	0.343	-2.1	96	-0.05
19	T,M	Carbon disulfide	0.976	1.019	-4.4	87	-0.05
20	T,M	Acrylonitrile	0.035	0.040	-14.3	95	-0.03
21	T,M	tert-Butyl methyl ether (MT	0.462	0.520	-12.6	95	-0.05
22	T,M	trans-1,2-Dichloroethene	0.448	0.443	1.1	92	-0.05
23	T,M	Isopropyl ether (DIPE)	0.938	0.902	3.8	89	-0.05
24	T,M	Vinyl acetate	0.300	0.294	2.0	73	-0.03
25	P,T,M	1,1-Dichloroethane	0.525	0.553	-5.3	98	-0.03
26	T,M	2-Butanol	0.008	0.009	-12.5	99	-0.05
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.705	-3.4	92	-0.03
28	T,M	2-Butanone	0.057	0.057	0.0	83	-0.03
29	T,M	2,2-Dichloropropane	0.449	0.512	-14.0	104	-0.03
30	T,M	cis-1,2-Dichloroethene	0.322	0.347	-7.8	99	-0.03
31	C,T,M	Chloroform	0.535	0.574	-7.3	102	-0.03
32	T,M	Bromochloromethane	0.199	0.193	3.0	86	-0.02
33	T,M	Tetrahydrofuran	0.031	0.031	0.0	89	-0.03
34	S	Dibromofluoromethane	0.261	0.281	-7.7	95	-0.02
35	T,M	1,1,1-Trichloroethane	0.481	0.512	-6.4	96	-0.02
36	T,M	Cyclohexane	0.496	0.478	3.6	83	-0.03
37	T,M	2,2,4-Trimethylpentane	0.024	0.022	8.3	81	-0.03
38	T,M	1,1-Dichloropropene	0.146	0.149	-2.1	93	-0.02
39	T,M	Carbon tetrachloride	0.364	0.403	-10.7	99	-0.03
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.555	-5.9	95	-0.03
41	S	1,2-Dichloroethane-d4	0.230	0.226	1.7	83	-0.02

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.210	-5.7	99	-0.03
43	T,M	1,2-Dichloroethane	0.255	0.274	-7.5	88	-0.02
44	T,M	Trichloroethene	0.303	0.332	-9.6	102	-0.01
45	T,M	Methylcyclohexane	0.587	0.554	5.6	85	-0.01
46	C,T,M	1,2-Dichloropropane	0.258	0.267	-3.5	95	-0.01
47	T,M	Bromodichloromethane	0.353	0.388	-9.9	99	-0.01
48	T,M	1,4-Dioxane	0.001	0.001	0.0	87	0.02
49	T,M	Dibromomethane	0.112	0.119	-6.2	92	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.024	-50.0#	123	-0.01
51	T,M	4-Methyl-2-pentanone	0.127	0.131	-3.1	79	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.420	-8.8	95	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	86	0.00
54	S	Toluene-d8	1.375	1.414	-2.8	91	-0.01
55	C,T,M	Toluene	1.585	1.700	-7.3	97	-0.01
56	T,M	Ethyl methacrylate	0.227	0.258	-13.7	88	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.417	-16.2	94	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.227	-16.4	96	0.00
59	T,M	2-Hexanone	0.104	0.109	-4.8	79	0.00
60	T,M	1,3-Dichloropropane	0.368	0.412	-12.0	95	0.00
61	T,M	Tetrachloroethene	0.343	0.375	-9.3	103	0.00
62	T,M	Dibromochloromethane	0.232	0.274	-18.1	99	0.00
63	T,M	1,2-Dibromoethane	0.185	0.205	-10.8	91	-0.01
64	T,M	1-Chlorohexane	0.740	0.720	2.7	90	0.00
65	P,M	Chlorobenzene	0.949	1.035	-9.1	100	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.360	-24.1#	111	0.00
67	C,T,M	Ethylbenzene	1.875	2.001	-6.7	96	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.478	0.2	97	0.00
69	T,M	o-Xylene	1.463	1.992	-36.2#	110	-0.01
70	T,M	Styrene	1.070	1.548	-44.7#	114	0.00
71	T,M	Isopropylbenzene	1.986	2.656	-33.7#	110	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	105	0.00
73	P,T,M	Bromoform	0.246	0.305	-24.0#	119	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.139	9.7	87	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.584	-10.6	106	-0.01
76	S	4-Bromofluorobenzene	1.184	1.146	3.2	103	0.00
77	T,M	1,2,3-Trichloropropane	0.148	0.159	-7.4	105	0.00
78	T,M	n-Propylbenzene	5.921	5.831	1.5	109	0.00
79	T,M	Bromobenzene	0.858	0.981	-14.3	127	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.541	3.3	108	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.496	2.8	109	0.00
82	T,M	4-Chlorotoluene	3.211	3.117	2.9	109	0.00
83	T,M	tert-Butylbenzene	0.826	0.891	-7.9	118	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.497	2.4	108	0.00
85	T,M	sec-Butylbenzene	5.158	4.984	3.4	104	0.00
86	T,M	p-Isopropyltoluene	4.024	3.943	2.0	109	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.907	-10.6	123	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.208	1.6	108	0.00
89	T,M	1,4-Dichlorobenzene	1.713	1.844	-7.6	124	0.00
90	T,M	n-Butylbenzene	4.403	3.896	11.5	103	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.547	-10.0	122	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.078	-9.9	110	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	1.033	-8.5	120	0.00
94	T,M	Hexachlorobutadiene	0.610	0.673	-10.3	125	0.02
95	T,M	Naphthalene	1.172	1.226	-4.6	105	0.02
96	T,M	1,2,3-Trichlorobenzene	0.690	0.772	-11.9	118	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	73	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	8.491	15.1	56	-0.06
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	8.769	12.3	58	-0.07
6	C,T,M	Vinyl chloride	10.000	9.402	6.0	63	-0.07
7	T,M	Bromomethane	10.000	0.065	99.4#	0	0.16#
8	T,M	Chloroethane	10.000	10.045	-0.4	70	-0.04
9	T,M	Dichlorofluoromethane	10.000	11.561	-15.6	103	-0.06
10	T,M	Trichlorofluoromethane	10.000	11.204	-12.0	76	-0.06
11	T,M	Acrolein	50.000	49.633	0.7	70	-0.02
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	12.182	-21.8#	92	-0.06
13	T,M	Acetone	50.000	53.465	-6.9	76	-0.02
14	C,T,M	1,1-Dichloroethene	10.000	10.106	-1.1	78	-0.03
15	T,M	tert-Butyl alcohol	250.000	251.327	-0.5	69	-0.03
16	T,M	Iodomethane	10.000	11.945	-19.5	93	-0.03
17	T,M	Methyl acetate	10.000	9.907	0.9	70	-0.02
18	T,M	Methylene chloride	10.000	10.529	-5.3	83	-0.03
19	T,M	Carbon disulfide	10.000	9.544	4.6	67	-0.03
20	T,M	Acrylonitrile	50.000	57.011	-14.0	78	-0.02
21	T,M	tert-Butyl methyl ether (MT	10.000	11.634	-16.3	82	-0.03
22	T,M	trans-1,2-Dichloroethene	10.000	10.302	-3.0	80	-0.03
23	T,M	Isopropyl ether (DIPE)	10.000	9.675	3.2	75	-0.03
24	T,M	Vinyl acetate	10.000	5.938	40.6#	37	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.867	-8.7	84	0.00
26	T,M	2-Butanol	250.000	287.602	-15.0	78	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.429	-4.3	78	-0.02
28	T,M	2-Butanone	50.000	49.563	0.9	69	-0.02
29	T,M	2,2-Dichloropropane	10.000	10.274	-2.7	79	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	11.168	-11.7	86	-0.02
31	C,T,M	Chloroform	10.000	12.050	-20.5#	96	-0.02
32	T,M	Bromochloromethane	10.000	10.210	-2.1	75	-0.02
33	T,M	Tetrahydrofuran	10.000	10.423	-4.2	78	-0.02
34	S	Dibromofluoromethane	10.000	11.039	-10.4	82	0.00
35	T,M	1,1,1-Trichloroethane	10.000	11.480	-14.8	87	0.00
36	T,M	Cyclohexane	10.000	8.729	12.7	63	-0.02
37	T,M	2,2,4-Trimethylpentane	10.000	7.451	25.5#	55	-0.02
38	T,M	1,1-Dichloropropene	10.000	10.492	-4.9	80	0.00
39	T,M	Carbon tetrachloride	10.000	11.812	-18.1	88	-0.02
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.569	-5.7	80	-0.02
41	S	1,2-Dichloroethane-d4	10.000	11.339	-13.4	80	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.863	-8.6	85	-0.02
43	T,M	1,2-Dichloroethane	10.000	12.282	-22.8#	84	0.00
44	T,M	Trichloroethene	10.000	11.243	-12.4	88	0.00
45	T,M	Methylcyclohexane	10.000	8.754	12.5	66	0.00
46	C,T,M	1,2-Dichloropropane	10.000	10.462	-4.6	81	-0.01
47	T,M	Bromodichloromethane	10.000	12.037	-20.4#	90	0.00
48	T,M	1,4-Dioxane	200.000	183.308	8.3	64	0.00
49	T,M	Dibromomethane	10.000	11.459	-14.6	83	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	12.058	-20.6#	101	0.00
51	T,M	4-Methyl-2-pentanone	50.000	53.343	-6.7	68	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	11.297	-13.0	83	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	72	0.00
54	S	Toluene-d8	10.000	10.561	-5.6	78	-0.01
55	C,T,M	Toluene	10.000	11.047	-10.5	84	0.00
56	T,M	Ethyl methacrylate	10.000	11.469	-14.7	74	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	12.184	-21.8#	82	0.00
58	T,M	1,1,2-Trichloroethane	10.000	12.085	-20.9#	84	0.00
59	T,M	2-Hexanone	50.000	52.361	-4.7	66	0.00
60	T,M	1,3-Dichloropropane	10.000	11.811	-18.1	84	0.00
61	T,M	Tetrachloroethene	10.000	11.084	-10.8	87	0.00
62	T,M	Dibromochloromethane	10.000	12.973	-29.7#	91	0.00
63	T,M	1,2-Dibromoethane	10.000	11.160	-11.6	77	0.00
64	T,M	1-Chlorohexane	10.000	9.186	8.1	71	0.00
65	P,M	Chlorobenzene	10.000	11.266	-12.7	86	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	10.000	13.226	-32.3#	99	0.00
67	C,T,M	Ethylbenzene	10.000	11.176	-11.8	84	0.00
68	T,M	m-Xylene & p-Xylene	20.000	20.511	-2.6	83	0.00
69	T,M	o-Xylene	10.000	16.274	-62.7#	110	0.00
70	T,M	Styrene	10.000	17.177	-71.8#	113	0.00
71	T,M	Isopropylbenzene	10.000	15.846	-58.5#	109	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	103	0.00
73	P,T,M	Bromoform	10.000	10.314	-3.1	113	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	8.536	14.6	81	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	11.113	-11.1	104	0.00
76	S	4-Bromofluorobenzene	10.000	9.427	5.7	98	0.02
77	T,M	1,2,3-Trichloropropane	10.000	10.431	-4.3	99	0.00
78	T,M	n-Propylbenzene	10.000	9.733	2.7	105	0.00
79	T,M	Bromobenzene	10.000	11.585	-15.9	126	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	10.028	-0.3	109	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	9.839	1.6	108	0.00
82	T,M	4-Chlorotoluene	10.000	10.049	-0.5	111	0.00
83	T,M	tert-Butylbenzene	10.000	10.863	-8.6	116	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	9.892	1.1	107	0.00
85	T,M	sec-Butylbenzene	10.000	9.655	3.5	102	0.00
86	T,M	p-Isopropyltoluene	10.000	9.720	2.8	105	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.103	-11.0	120	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.099	-1.0	108	0.00
89	T,M	1,4-Dichlorobenzene	10.000	10.697	-7.0	120	0.00
90	T,M	n-Butylbenzene	10.000	8.652	13.5	98	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.120	-11.2	120	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	10.530	-5.3	101	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.261	-2.6	111	0.00
94	T,M	Hexachlorobutadiene	10.000	10.308	-3.1	114	0.02
95	T,M	Naphthalene	10.000	9.893	1.1	97	0.00
96	T,M	1,2,3-Trichlorobenzene	10.000	10.813	-8.1	112	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	73	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.349	15.1	56	-0.06
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.272	12.3	58	-0.07
6	C,T,M	Vinyl chloride	0.273	0.257	5.9	63	-0.07
7	T,M	Bromomethane	0.197	0.001	99.5#	0#	0.16#
8	T,M	Chloroethane	0.207	0.208	-0.5	70	-0.04
9	T,M	Dichlorofluoromethane	0.380	0.439	-15.5	103	-0.06
10	T,M	Trichlorofluoromethane	0.445	0.498	-11.9	76	-0.06
11	T,M	Acrolein	0.008	0.008	0.0	70	-0.02
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.223	-21.9#	92	-0.06
13	T,M	Acetone	0.037	0.039	-5.4	76	-0.02
14	C,T,M	1,1-Dichloroethene	0.467	0.471	-0.9	78	-0.03
15	T,M	tert-Butyl alcohol	0.009	0.009	0.0	69	-0.03
16	T,M	Iodomethane	0.396	0.473	-19.4	93	-0.03
17	T,M	Methyl acetate	0.095	0.094	1.1	70	-0.02
18	T,M	Methylene chloride	0.336	0.354	-5.4	83	-0.03
19	T,M	Carbon disulfide	0.976	0.931	4.6	67	-0.03
20	T,M	Acrylonitrile	0.035	0.040	-14.3	78	-0.02
21	T,M	tert-Butyl methyl ether (MT	0.462	0.537	-16.2	82	-0.03
22	T,M	trans-1,2-Dichloroethene	0.448	0.462	-3.1	80	-0.03
23	T,M	Isopropyl ether (DIPE)	0.938	0.908	3.2	75	-0.03
24	T,M	Vinyl acetate	0.300	0.178	40.7#	37#	-0.02
25	P,T,M	1,1-Dichloroethane	0.525	0.571	-8.8	84	0.00
26	T,M	2-Butanol	0.008	0.009	-12.5	78	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.711	-4.3	78	-0.02
28	T,M	2-Butanone	0.057	0.056	1.8	69	-0.02
29	T,M	2,2-Dichloropropane	0.449	0.462	-2.9	79	-0.02
30	T,M	cis-1,2-Dichloroethene	0.322	0.359	-11.5	86	-0.02
31	C,T,M	Chloroform	0.535	0.645	-20.6#	96	-0.02
32	T,M	Bromochloromethane	0.199	0.203	-2.0	75	-0.02
33	T,M	Tetrahydrofuran	0.031	0.033	-6.5	78	-0.02
34	S	Dibromofluoromethane	0.261	0.288	-10.3	82	0.00
35	T,M	1,1,1-Trichloroethane	0.481	0.552	-14.8	87	0.00
36	T,M	Cyclohexane	0.496	0.433	12.7	63	-0.02
37	T,M	2,2,4-Trimethylpentane	0.024	0.018	25.0#	55	-0.02
38	T,M	1,1-Dichloropropene	0.146	0.153	-4.8	80	0.00
39	T,M	Carbon tetrachloride	0.364	0.430	-18.1	88	-0.02
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.554	-5.7	80	-0.02
41	S	1,2-Dichloroethane-d4	0.230	0.261	-13.5	80	-0.02

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.244	-8.6	85	-0.02
43	T,M	1,2-Dichloroethane	0.255	0.313	-22.7#	84	0.00
44	T,M	Trichloroethene	0.303	0.340	-12.2	88	0.00
45	T,M	Methylcyclohexane	0.587	0.514	12.4	66	0.00
46	C,T,M	1,2-Dichloropropane	0.258	0.270	-4.7	81	-0.01
47	T,M	Bromodichloromethane	0.353	0.424	-20.1#	90	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	64	0.00
49	T,M	Dibromomethane	0.112	0.128	-14.3	83	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.024	-50.0#	101	0.00
51	T,M	4-Methyl-2-pentanone	0.127	0.135	-6.3	68	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.436	-13.0	83	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	72	0.00
54	S	Toluene-d8	1.375	1.452	-5.6	78	-0.01
55	C,T,M	Toluene	1.585	1.751	-10.5	84	0.00
56	T,M	Ethyl methacrylate	0.227	0.260	-14.5	74	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.437	-21.7#	82	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.236	-21.0#	84	0.00
59	T,M	2-Hexanone	0.104	0.109	-4.8	66	0.00
60	T,M	1,3-Dichloropropane	0.368	0.434	-17.9	84	0.00
61	T,M	Tetrachloroethene	0.343	0.380	-10.8	87	0.00
62	T,M	Dibromochloromethane	0.232	0.302	-30.2#	91	0.00
63	T,M	1,2-Dibromoethane	0.185	0.206	-11.4	77	0.00
64	T,M	1-Chlorohexane	0.740	0.680	8.1	71	0.00
65	P,M	Chlorobenzene	0.949	1.069	-12.6	86	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.383	-32.1#	99	0.00
67	C,T,M	Ethylbenzene	1.875	2.096	-11.8	84	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.519	-2.6	83	0.00
69	T,M	o-Xylene	1.463	2.381	-62.7#	110	0.00
70	T,M	Styrene	1.070	1.838	-71.8#	113	0.00
71	T,M	Isopropylbenzene	1.986	3.147	-58.5#	109	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	103	0.00
73	P,T,M	Bromoform	0.246	0.296	-20.3#	113	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.131	14.9	81	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.587	-11.2	104	0.00
76	S	4-Bromofluorobenzene	1.184	1.116	5.7	98	0.02
77	T,M	1,2,3-Trichloropropane	0.148	0.155	-4.7	99	0.00
78	T,M	n-Propylbenzene	5.921	5.763	2.7	105	0.00
79	T,M	Bromobenzene	0.858	0.994	-15.9	126	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.673	-0.3	109	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.540	1.6	108	0.00
82	T,M	4-Chlorotoluene	3.211	3.227	-0.5	111	0.00
83	T,M	tert-Butylbenzene	0.826	0.897	-8.6	116	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.544	1.1	107	0.00
85	T,M	sec-Butylbenzene	5.158	4.980	3.5	102	0.00
86	T,M	p-Isopropyltoluene	4.024	3.912	2.8	105	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.914	-11.0	120	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.294	-1.0	108	0.00
89	T,M	1,4-Dichlorobenzene	1.713	1.833	-7.0	120	0.00
90	T,M	n-Butylbenzene	4.403	3.809	13.5	98	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.564	-11.2	120	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.074	-4.2	101	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	0.977	-2.6	111	0.00
94	T,M	Hexachlorobutadiene	0.610	0.629	-3.1	114	0.02
95	T,M	Naphthalene	1.172	1.159	1.1	97	0.00
96	T,M	1,2,3-Trichlorobenzene	0.690	0.746	-8.1	112	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	78	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	8.285	17.1	58	-0.07
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	8.872	11.3	63	-0.08
6	C,T,M	Vinyl chloride	10.000	9.339	6.6	67	-0.07
7	T,M	Bromomethane	10.000	0.000	100.0#	0	-3.24#
8	T,M	Chloroethane	10.000	9.971	0.3	75	-0.06
9	T,M	Dichlorofluoromethane	10.000	11.150	-11.5	107	-0.07
10	T,M	Trichlorofluoromethane	10.000	10.154	-1.5	74	-0.06
11	T,M	Acrolein	50.000	50.761	-1.5	77	-0.01
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	11.076	-10.8	90	-0.06
13	T,M	Acetone	50.000	50.910	-1.8	77	-0.01
14	C,T,M	1,1-Dichloroethene	10.000	9.854	1.5	81	-0.03
15	T,M	tert-Butyl alcohol	250.000	232.104	7.2	69	-0.03
16	T,M	Iodomethane	10.000	11.368	-13.7	95	-0.03
17	T,M	Methyl acetate	10.000	9.772	2.3	74	-0.02
18	T,M	Methylene chloride	10.000	10.210	-2.1	86	-0.03
19	T,M	Carbon disulfide	10.000	10.038	-0.4	75	-0.03
20	T,M	Acrylonitrile	50.000	55.800	-11.6	82	-0.02
21	T,M	tert-Butyl methyl ether (MT	10.000	11.000	-10.0	84	-0.03
22	T,M	trans-1,2-Dichloroethene	10.000	10.056	-0.6	84	-0.03
23	T,M	Isopropyl ether (DIPE)	10.000	9.778	2.2	81	-0.02
24	T,M	Vinyl acetate	10.000	5.304	47.0#	36	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.960	-9.6	91	0.00
26	T,M	2-Butanol	250.000	274.446	-9.8	79	-0.01
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.110	-1.1	81	-0.02
28	T,M	2-Butanone	50.000	49.258	1.5	73	0.00
29	T,M	2,2-Dichloropropane	10.000	10.193	-1.9	84	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	10.975	-9.7	91	-0.02
31	C,T,M	Chloroform	10.000	11.573	-15.7	99	-0.02
32	T,M	Bromochloromethane	10.000	9.687	3.1	77	-0.02
33	T,M	Tetrahydrofuran	10.000	9.377	6.2	75	-0.01
34	S	Dibromofluoromethane	10.000	10.700	-7.0	85	0.00
35	T,M	1,1,1-Trichloroethane	10.000	11.216	-12.2	91	0.00
36	T,M	Cyclohexane	10.000	8.790	12.1	68	-0.01
37	T,M	2,2,4-Trimethylpentane	10.000	7.912	20.9#	62	-0.03
38	T,M	1,1-Dichloropropene	10.000	9.997	0.0	82	0.00
39	T,M	Carbon tetrachloride	10.000	11.113	-11.1	89	-0.02
40	T,M	tert-Amyl methyl ether (TAM	10.000	9.987	0.1	81	-0.02
41	S	1,2-Dichloroethane-d4	10.000	10.717	-7.2	81	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.757	-7.6	91	-0.02
43	T,M	1,2-Dichloroethane	10.000	11.923	-19.2	88	0.00
44	T,M	Trichloroethene	10.000	11.195	-12.0	94	0.00
45	T,M	Methylcyclohexane	10.000	8.264	17.4	67	0.00
46	C,T,M	1,2-Dichloropropane	10.000	10.513	-5.1	87	0.00
47	T,M	Bromodichloromethane	10.000	11.471	-14.7	92	0.00
48	T,M	1,4-Dioxane	200.000	171.947	14.0	65	0.00
49	T,M	Dibromomethane	10.000	10.954	-9.5	85	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	11.843	-18.4	107	0.00
51	T,M	4-Methyl-2-pentanone	50.000	51.720	-3.4	71	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	10.934	-9.3	86	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	76	0.00
54	S	Toluene-d8	10.000	10.546	-5.5	83	0.00
55	C,T,M	Toluene	10.000	10.963	-9.6	88	0.00
56	T,M	Ethyl methacrylate	10.000	11.731	-17.3	80	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	11.934	-19.3	85	0.00
58	T,M	1,1,2-Trichloroethane	10.000	11.824	-18.2	87	0.00
59	T,M	2-Hexanone	50.000	51.407	-2.8	68	0.00
60	T,M	1,3-Dichloropropane	10.000	11.552	-15.5	87	0.00
61	T,M	Tetrachloroethene	10.000	10.681	-6.8	89	0.00
62	T,M	Dibromochloromethane	10.000	12.471	-24.7#	93	0.00
63	T,M	1,2-Dibromoethane	10.000	11.119	-11.2	81	0.00
64	T,M	1-Chlorohexane	10.000	9.426	5.7	78	0.00
65	P,M	Chlorobenzene	10.000	11.288	-12.9	92	0.00
66	T,M	1,1,1,2-Tetrachloroethane	10.000	12.913	-29.1#	102	0.00
67	C,T,M	Ethylbenzene	10.000	11.180	-11.8	89	0.00
68	T,M	m-Xylene & p-Xylene	20.000	20.855	-4.3	90	0.00
69	T,M	o-Xylene	10.000	13.594	-35.9#	97	0.00
70	T,M	Styrene	10.000	14.048	-40.5#	98	0.00
71	T,M	Isopropylbenzene	10.000	12.975	-29.8#	95	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	103	0.00
73	P,T,M	Bromoform	10.000	8.789	12.1	96	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	7.541	24.6#	72	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	10.967	-9.7	103	0.00
76	S	4-Bromofluorobenzene	10.000	9.784	2.2	102	0.02
77	T,M	1,2,3-Trichloropropane	10.000	10.478	-4.8	100	0.00
78	T,M	n-Propylbenzene	10.000	9.791	2.1	106	0.00
79	T,M	Bromobenzene	10.000	11.545	-15.4	125	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	9.973	0.3	109	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	9.973	0.3	110	0.00
82	T,M	4-Chlorotoluene	10.000	10.164	-1.6	112	0.00
83	T,M	tert-Butylbenzene	10.000	10.959	-9.6	118	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	9.997	0.0	108	0.00
85	T,M	sec-Butylbenzene	10.000	9.990	0.1	106	0.00
86	T,M	p-Isopropyltoluene	10.000	9.865	1.3	107	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.283	-12.8	123	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.001	-0.0	108	0.00
89	T,M	1,4-Dichlorobenzene	10.000	10.593	-5.9	119	0.00
90	T,M	n-Butylbenzene	10.000	8.656	13.4	98	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.273	-12.7	122	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	10.477	-4.8	101	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.427	-4.3	113	0.00
94	T,M	Hexachlorobutadiene	10.000	10.817	-8.2	120	0.00
95	T,M	Naphthalene	10.000	10.403	-4.0	102	0.00
96	T,M	1,2,3-Trichlorobenzene	10.000	11.035	-10.4	114	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	78	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.340	17.3	58	-0.07
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.275	11.3	63	-0.08
6	C,T,M	Vinyl chloride	0.273	0.255	6.6	67	-0.07
7	T,M	Bromomethane	0.197	0.000	100.0#	0#	-3.24#
8	T,M	Chloroethane	0.207	0.207	0.0	75	-0.06
9	T,M	Dichlorofluoromethane	0.380	0.423	-11.3	107	-0.07
10	T,M	Trichlorofluoromethane	0.445	0.452	-1.6	74	-0.06
11	T,M	Acrolein	0.008	0.008	0.0	77	-0.01
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.203	-10.9	90	-0.06
13	T,M	Acetone	0.037	0.038	-2.7	77	-0.01
14	C,T,M	1,1-Dichloroethene	0.467	0.460	1.5	81	-0.03
15	T,M	tert-Butyl alcohol	0.009	0.009	0.0	69	-0.03
16	T,M	Iodomethane	0.396	0.451	-13.9	95	-0.03
17	T,M	Methyl acetate	0.095	0.093	2.1	74	-0.02
18	T,M	Methylene chloride	0.336	0.343	-2.1	86	-0.03
19	T,M	Carbon disulfide	0.976	0.980	-0.4	75	-0.03
20	T,M	Acrylonitrile	0.035	0.039	-11.4	82	-0.02
21	T,M	tert-Butyl methyl ether (MT	0.462	0.508	-10.0	84	-0.03
22	T,M	trans-1,2-Dichloroethene	0.448	0.451	-0.7	84	-0.03
23	T,M	Isopropyl ether (DIPE)	0.938	0.917	2.2	81	-0.02
24	T,M	Vinyl acetate	0.300	0.159	47.0#	36#	-0.02
25	P,T,M	1,1-Dichloroethane	0.525	0.576	-9.7	91	0.00
26	T,M	2-Butanol	0.008	0.008	0.0	79	-0.01
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.690	-1.2	81	-0.02
28	T,M	2-Butanone	0.057	0.056	1.8	73	0.00
29	T,M	2,2-Dichloropropane	0.449	0.458	-2.0	84	-0.02
30	T,M	cis-1,2-Dichloroethene	0.322	0.353	-9.6	91	-0.02
31	C,T,M	Chloroform	0.535	0.620	-15.9	99	-0.02
32	T,M	Bromochloromethane	0.199	0.193	3.0	77	-0.02
33	T,M	Tetrahydrofuran	0.031	0.030	3.2	75	-0.01
34	S	Dibromofluoromethane	0.261	0.279	-6.9	85	0.00
35	T,M	1,1,1-Trichloroethane	0.481	0.539	-12.1	91	0.00
36	T,M	Cyclohexane	0.496	0.436	12.1	68	-0.01
37	T,M	2,2,4-Trimethylpentane	0.024	0.019	20.8#	62	-0.03
38	T,M	1,1-Dichloropropene	0.146	0.146	0.0	82	0.00
39	T,M	Carbon tetrachloride	0.364	0.405	-11.3	89	-0.02
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.524	0.0	81	-0.02
41	S	1,2-Dichloroethane-d4	0.230	0.247	-7.4	81	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.232	-7.6	91	-0.02
43	T,M	1,2-Dichloroethane	0.255	0.304	-19.2	88	0.00
44	T,M	Trichloroethene	0.303	0.339	-11.9	94	0.00
45	T,M	Methylcyclohexane	0.587	0.485	17.4	67	0.00
46	C,T,M	1,2-Dichloropropane	0.258	0.271	-5.0	87	0.00
47	T,M	Bromodichloromethane	0.353	0.405	-14.7	92	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	65	0.00
49	T,M	Dibromomethane	0.112	0.123	-9.8	85	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.023	-43.7#	107	0.00
51	T,M	4-Methyl-2-pentanone	0.127	0.131	-3.1	71	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.422	-9.3	86	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	76	0.00
54	S	Toluene-d8	1.375	1.450	-5.5	83	0.00
55	C,T,M	Toluene	1.585	1.738	-9.7	88	0.00
56	T,M	Ethyl methacrylate	0.227	0.266	-17.2	80	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.428	-19.2	85	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.231	-18.5	87	0.00
59	T,M	2-Hexanone	0.104	0.107	-2.9	68	0.00
60	T,M	1,3-Dichloropropane	0.368	0.425	-15.5	87	0.00
61	T,M	Tetrachloroethene	0.343	0.366	-6.7	89	0.00
62	T,M	Dibromochloromethane	0.232	0.290	-25.0#	93	0.00
63	T,M	1,2-Dibromoethane	0.185	0.206	-11.4	81	0.00
64	T,M	1-Chlorohexane	0.740	0.698	5.7	78	0.00
65	P,M	Chlorobenzene	0.949	1.071	-12.9	92	0.00
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.374	-29.0#	102	0.00
67	C,T,M	Ethylbenzene	1.875	2.096	-11.8	89	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.544	-4.3	90	0.00
69	T,M	o-Xylene	1.463	1.989	-36.0#	97	0.00
70	T,M	Styrene	1.070	1.503	-40.5#	98	0.00
71	T,M	Isopropylbenzene	1.986	2.577	-29.8#	95	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	103	0.00
73	P,T,M	Bromoform	0.246	0.252	-2.4	96	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.116	24.7#	72	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.579	-9.7	103	0.00
76	S	4-Bromofluorobenzene	1.184	1.158	2.2	102	0.02
77	T,M	1,2,3-Trichloropropane	0.148	0.155	-4.7	100	0.00
78	T,M	n-Propylbenzene	5.921	5.797	2.1	106	0.00
79	T,M	Bromobenzene	0.858	0.990	-15.4	125	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.653	0.3	109	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.589	0.3	110	0.00
82	T,M	4-Chlorotoluene	3.211	3.263	-1.6	112	0.00
83	T,M	tert-Butylbenzene	0.826	0.905	-9.6	118	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.582	0.0	108	0.00
85	T,M	sec-Butylbenzene	5.158	5.153	0.1	106	0.00
86	T,M	p-Isopropyltoluene	4.024	3.970	1.3	107	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.945	-12.8	123	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.262	-0.0	108	0.00
89	T,M	1,4-Dichlorobenzene	1.713	1.815	-6.0	119	0.00
90	T,M	n-Butylbenzene	4.403	3.811	13.4	98	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.585	-12.7	122	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.074	-4.2	101	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	0.993	-4.3	113	0.00
94	T,M	Hexachlorobutadiene	0.610	0.660	-8.2	120	0.00
95	T,M	Naphthalene	1.172	1.219	-4.0	102	0.00
96	T,M	1,2,3-Trichlorobenzene	0.690	0.761	-10.3	114	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	125	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	6.995	30.0#	79	-0.08
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	10.041	-0.4	114	-0.10
6	C,T,M	Vinyl chloride	10.000	10.121	-1.2	117	-0.08
7	T,M	Bromomethane	10.000	0.000	100.0#	0	-3.24#
8	T,M	Chloroethane	10.000	10.812	-8.1	129	-0.06
9	T,M	Dichlorofluoromethane	10.000	10.513	-5.1	161	-0.08
10	T,M	Trichlorofluoromethane	10.000	8.504	15.0	99	-0.07
11	T,M	Acrolein	50.000	55.298	-10.6	134	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	10.274	-2.7	133	-0.08
13	T,M	Acetone	50.000	48.690	2.6	118	-0.03
14	C,T,M	1,1-Dichloroethene	10.000	9.314	6.9	123	-0.03
15	T,M	tert-Butyl alcohol	250.000	237.416	5.0	112	-0.03
16	T,M	Iodomethane	10.000	11.294	-12.9	150	-0.03
17	T,M	Methyl acetate	10.000	10.711	-7.1	129	-0.03
18	T,M	Methylene chloride	10.000	10.625	-6.3	143	-0.03
19	T,M	Carbon disulfide	10.000	10.082	-0.8	121	-0.03
20	T,M	Acrylonitrile	50.000	62.300	-24.6#	147	-0.03
21	T,M	tert-Butyl methyl ether (MT	10.000	10.720	-7.2	130	-0.03
22	T,M	trans-1,2-Dichloroethene	10.000	9.856	1.4	131	-0.03
23	T,M	Isopropyl ether (DIPE)	10.000	10.448	-4.5	138	-0.03
24	T,M	Vinyl acetate	10.000	5.562	44.4#	60	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.671	-6.7	142	-0.02
26	T,M	2-Butanol	250.000	294.110	-17.6	136	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.006	-0.1	127	-0.02
28	T,M	2-Butanone	50.000	52.463	-4.9	125	-0.02
29	T,M	2,2-Dichloropropane	10.000	8.755	12.4	115	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	11.171	-11.7	148	-0.02
31	C,T,M	Chloroform	10.000	10.552	-5.5	144	-0.02
32	T,M	Bromochloromethane	10.000	10.229	-2.3	129	-0.02
33	T,M	Tetrahydrofuran	10.000	10.435	-4.4	134	-0.02
34	S	Dibromofluoromethane	10.000	10.305	-3.0	131	-0.02
35	T,M	1,1,1-Trichloroethane	10.000	9.326	6.7	121	-0.02
36	T,M	Cyclohexane	10.000	8.308	16.9	102	-0.02
37	T,M	2,2,4-Trimethylpentane	10.000	7.915	20.8#	99	-0.03
38	T,M	1,1-Dichloropropene	10.000	10.075	-0.7	132	0.00
39	T,M	Carbon tetrachloride	10.000	9.300	7.0	119	-0.02
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.044	-0.4	130	-0.02
41	S	1,2-Dichloroethane-d4	10.000	9.000	10.0	109	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.887	-8.9	146	-0.02
43	T,M	1,2-Dichloroethane	10.000	9.750	2.5	114	0.00
44	T,M	Trichloroethene	10.000	11.316	-13.2	151	0.00
45	T,M	Methylcyclohexane	10.000	8.119	18.8	104	-0.01
46	C,T,M	1,2-Dichloropropane	10.000	10.868	-8.7	143	-0.01
47	T,M	Bromodichloromethane	10.000	10.612	-6.1	136	0.00
48	T,M	1,4-Dioxane	200.000	202.762	-1.4	122	0.00
49	T,M	Dibromomethane	10.000	10.111	-1.1	125	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	12.783	-27.8#	185	0.00
51	T,M	4-Methyl-2-pentanone	50.000	52.617	-5.2	115	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	10.585	-5.9	133	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	121	0.00
54	S	Toluene-d8	10.000	10.628	-6.3	132	-0.01
55	C,T,M	Toluene	10.000	10.864	-8.6	138	0.00
56	T,M	Ethyl methacrylate	10.000	11.450	-14.5	124	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	10.834	-8.3	123	0.00
58	T,M	1,1,2-Trichloroethane	10.000	11.589	-15.9	135	0.00
59	T,M	2-Hexanone	50.000	50.457	-0.9	106	0.00
60	T,M	1,3-Dichloropropane	10.000	11.332	-13.3	135	0.00
61	T,M	Tetrachloroethene	10.000	10.177	-1.8	134	0.00
62	T,M	Dibromochloromethane	10.000	11.742	-17.4	139	0.00
63	T,M	1,2-Dibromoethane	10.000	10.910	-9.1	126	0.00
64	T,M	1-Chlorohexane	10.000	9.279	7.2	121	0.00
65	P,M	Chlorobenzene	10.000	10.957	-9.6	141	0.00
66	T,M	1,1,1,2-Tetrachloroethane	10.000	11.842	-18.4	149	0.00
67	C,T,M	Ethylbenzene	10.000	10.445	-4.5	132	0.00
68	T,M	m-Xylene & p-Xylene	20.000	19.188	4.1	131	0.00
69	T,M	o-Xylene	10.000	10.044	-0.4	114	0.00
70	T,M	Styrene	10.000	10.788	-7.9	119	0.00
71	T,M	Isopropylbenzene	10.000	9.861	1.4	114	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	107	0.00
73	P,T,M	Bromoform	10.000	10.457	-4.6	120	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	7.972	20.3#	79	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	10.904	-9.0	107	0.00
76	S	4-Bromofluorobenzene	10.000	9.792	2.1	106	0.02
77	T,M	1,2,3-Trichloropropane	10.000	10.668	-6.7	106	0.00
78	T,M	n-Propylbenzene	10.000	9.721	2.8	110	0.00
79	T,M	Bromobenzene	10.000	11.583	-15.8	131	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	9.970	0.3	114	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	9.735	2.7	112	0.00
82	T,M	4-Chlorotoluene	10.000	10.024	-0.2	115	0.01
83	T,M	tert-Butylbenzene	10.000	11.008	-10.1	123	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	10.006	-0.1	113	0.00
85	T,M	sec-Butylbenzene	10.000	9.704	3.0	107	0.00
86	T,M	p-Isopropyltoluene	10.000	9.711	2.9	110	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.090	-10.9	126	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.015	-0.2	113	0.01
89	T,M	1,4-Dichlorobenzene	10.000	10.846	-8.5	127	0.00
90	T,M	n-Butylbenzene	10.000	8.546	14.5	101	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.040	-10.4	125	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	10.721	-7.2	108	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.732	-7.3	122	0.00
94	T,M	Hexachlorobutadiene	10.000	10.637	-6.4	124	0.01
95	T,M	Naphthalene	10.000	10.688	-6.9	109	0.01
96	T,M	1,2,3-Trichlorobenzene	10.000	11.170	-11.7	121	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	125	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.287	30.2#	79	-0.08
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.311	-0.3	114	-0.10
6	C,T,M	Vinyl chloride	0.273	0.277	-1.5	117	-0.08
7	T,M	Bromomethane	0.197	0.000	100.0#	0#	-3.24#
8	T,M	Chloroethane	0.207	0.224	-8.2	129	-0.06
9	T,M	Dichlorofluoromethane	0.380	0.399	-5.0	161	-0.08
10	T,M	Trichlorofluoromethane	0.445	0.378	15.1	99	-0.07
11	T,M	Acrolein	0.008	0.008	0.0	134	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.188	-2.7	133	-0.08
13	T,M	Acetone	0.037	0.036	2.7	118	-0.03
14	C,T,M	1,1-Dichloroethene	0.467	0.435	6.9	123	-0.03
15	T,M	tert-Butyl alcohol	0.009	0.009	0.0	112	-0.03
16	T,M	Iodomethane	0.396	0.448	-13.1	150	-0.03
17	T,M	Methyl acetate	0.095	0.102	-7.4	129	-0.03
18	T,M	Methylene chloride	0.336	0.357	-6.2	143	-0.03
19	T,M	Carbon disulfide	0.976	0.984	-0.8	121	-0.03
20	T,M	Acrylonitrile	0.035	0.043	-22.9#	147	-0.03
21	T,M	tert-Butyl methyl ether (MT	0.462	0.495	-7.1	130	-0.03
22	T,M	trans-1,2-Dichloroethene	0.448	0.442	1.3	131	-0.03
23	T,M	Isopropyl ether (DIPE)	0.938	0.980	-4.5	138	-0.03
24	T,M	Vinyl acetate	0.300	0.167	44.3#	60	-0.02
25	P,T,M	1,1-Dichloroethane	0.525	0.561	-6.9	142	-0.02
26	T,M	2-Butanol	0.008	0.009	-12.5	136	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.682	0.0	127	-0.02
28	T,M	2-Butanone	0.057	0.059	-3.5	125	-0.02
29	T,M	2,2-Dichloropropane	0.449	0.394	12.2	115	-0.02
30	T,M	cis-1,2-Dichloroethene	0.322	0.359	-11.5	148	-0.02
31	C,T,M	Chloroform	0.535	0.565	-5.6	144	-0.02
32	T,M	Bromochloromethane	0.199	0.204	-2.5	129	-0.02
33	T,M	Tetrahydrofuran	0.031	0.033	-6.5	134	-0.02
34	S	Dibromofluoromethane	0.261	0.269	-3.1	131	-0.02
35	T,M	1,1,1-Trichloroethane	0.481	0.448	6.9	121	-0.02
36	T,M	Cyclohexane	0.496	0.412	16.9	102	-0.02
37	T,M	2,2,4-Trimethylpentane	0.024	0.019	20.8#	99	-0.03
38	T,M	1,1-Dichloropropene	0.146	0.147	-0.7	132	0.00
39	T,M	Carbon tetrachloride	0.364	0.339	6.9	119	-0.02
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.527	-0.6	130	-0.02
41	S	1,2-Dichloroethane-d4	0.230	0.207	10.0	109	-0.02

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.247	-8.9	146	-0.02
43	T,M	1,2-Dichloroethane	0.255	0.249	2.4	114	0.00
44	T,M	Trichloroethene	0.303	0.343	-13.2	151	0.00
45	T,M	Methylcyclohexane	0.587	0.476	18.9	104	-0.01
46	C,T,M	1,2-Dichloropropane	0.258	0.280	-8.5	143	-0.01
47	T,M	Bromodichloromethane	0.353	0.374	-5.9	136	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	122	0.00
49	T,M	Dibromomethane	0.112	0.113	-0.9	125	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.025	-56.3#	185	0.00
51	T,M	4-Methyl-2-pentanone	0.127	0.133	-4.7	115	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.409	-6.0	133	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	121	0.00
54	S	Toluene-d8	1.375	1.462	-6.3	132	-0.01
55	C,T,M	Toluene	1.585	1.722	-8.6	138	0.00
56	T,M	Ethyl methacrylate	0.227	0.260	-14.5	124	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.389	-8.4	123	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.226	-15.9	135	0.00
59	T,M	2-Hexanone	0.104	0.105	-1.0	106	0.00
60	T,M	1,3-Dichloropropane	0.368	0.416	-13.0	135	0.00
61	T,M	Tetrachloroethene	0.343	0.349	-1.7	134	0.00
62	T,M	Dibromochloromethane	0.232	0.273	-17.7	139	0.00
63	T,M	1,2-Dibromoethane	0.185	0.202	-9.2	126	0.00
64	T,M	1-Chlorohexane	0.740	0.687	7.2	121	0.00
65	P,M	Chlorobenzene	0.949	1.040	-9.6	141	0.00
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.343	-18.3	149	0.00
67	C,T,M	Ethylbenzene	1.875	1.959	-4.5	132	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.421	4.1	131	0.00
69	T,M	o-Xylene	1.463	1.469	-0.4	114	0.00
70	T,M	Styrene	1.070	1.154	-7.9	119	0.00
71	T,M	Isopropylbenzene	1.986	1.958	1.4	114	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	107	0.00
73	P,T,M	Bromoform	0.246	0.301	-22.4#	120	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.123	20.1#	79	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.576	-9.1	107	0.00
76	S	4-Bromofluorobenzene	1.184	1.159	2.1	106	0.02
77	T,M	1,2,3-Trichloropropane	0.148	0.158	-6.8	106	0.00
78	T,M	n-Propylbenzene	5.921	5.756	2.8	110	0.00
79	T,M	Bromobenzene	0.858	0.993	-15.7	131	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.652	0.3	114	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.503	2.6	112	0.00
82	T,M	4-Chlorotoluene	3.211	3.219	-0.2	115	0.01
83	T,M	tert-Butylbenzene	0.826	0.909	-10.0	123	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.585	-0.1	113	0.00
85	T,M	sec-Butylbenzene	5.158	5.006	2.9	107	0.00
86	T,M	p-Isopropyltoluene	4.024	3.908	2.9	110	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.912	-10.9	126	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.266	-0.2	113	0.01
89	T,M	1,4-Dichlorobenzene	1.713	1.858	-8.5	127	0.00
90	T,M	n-Butylbenzene	4.403	3.763	14.5	101	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.553	-10.5	125	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.076	-7.0	108	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	1.022	-7.4	122	0.00
94	T,M	Hexachlorobutadiene	0.610	0.649	-6.4	124	0.01
95	T,M	Naphthalene	1.172	1.253	-6.9	109	0.01
96	T,M	1,2,3-Trichlorobenzene	0.690	0.771	-11.7	121	0.00

ANALYTICAL LOGS

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

E

VARIED AMOUNT

Book #: A06-083
Instrument No.: 06
Analytical Sequence: 24J1a
Method File: V006J1a
Analytical Batch: V006J1a6

INITIAL CALIBRATION REFERENCE			
DATE	10/1a/24		
ICAL ID	V006J1a		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC CS2	SV1-45-24-03	R	250
DCC SA's	-37-01		
DCC 4000	-42-03		
DCC 8260 mix	-42-02 -40-03		
BFB	-42-01	1	50
IS/SURR.	-35-03 -36-01	1 R	250 250
ICV/LCS	-35-01	1	250
ICV/LCS	-31-03	1	250
ICV/LCS	-43-01	5	50
ICV/LCS	-26-03 -21-03	5 5	50 250
Data File Folder	24J1a		

	LOT #	Syringe Lot #
pH strip		MSV-03-04
Chlorine strip		-03-035
Methanol		-03-0223
$NaHSO_4$		-03-0224
Reagent Water	RW3-23-001	
Sand		

SOP #
☐ EMAX-8260 Rev. No. 10
☐ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1

PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☐ 25-mL Purge

SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☐ Water
☐ pH <2. Outliers indicated on analytical sequence.
☐ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐ pH <2 and Cl2 are not applicable.

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/T006	

Analyzed By: DH
Date: 10/19/24
Disposed By: DH
Date Disposed: 10/20/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24J19

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
1	1	RIW358.D	1.	BFB06J17		T/CHK	19 Oct 2024 15:14
2	2	RIW359.D	1.	VO06J191	0.03/0.15uL	0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA	19 Oct 2024 15:59
3	3	RIW360.D	1.	VO06J192	0.05/0.25uL	0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA	19 Oct 2024 16:26
4	4	RIW361.D	1.	VO06J193	0.10/0.50uL	1.0ppb 8260/5.0ppb KET-AA/25ppb TBA	19 Oct 2024 16:53
5	5	RIW362.D	1.	VO06J194	0.20/1.00uL	2.0ppb 8260/10ppb KET-AA/50ppb TBA	19 Oct 2024 17:19
6	6	RIW363.D	1.	VO06J195	0.50/2.50uL	5.0ppb 8260/25ppb KET-AA/125ppb TBA	19 Oct 2024 17:45
7	7	RIW364.D	1.	VO06J196	1.00/5.00uL	10ppb 8260/50ppb KET-AA/250ppb TBA	19 Oct 2024 18:11
8	8	RIW365.D	1.	VO06J197	2.00/10.0uL	20ppb 8260/100ppb KET-AA/500ppb TBA	19 Oct 2024 18:38
9	9	RIW366.D	1.	VO06J198	3.00/15.0uL	30ppb 8260/150ppb KET-AA/750ppb TBA	19 Oct 2024 19:04
10	10	RIW367.D	1.	VO06J199	5.00/25.0uL	50ppb 8260/250ppb KET-AA/1250ppb TBA	19 Oct 2024 19:30
11	11	RIW368.D	1	VO06J1910	10.0/50.0uL	100ppb 8260/500ppb KET-AA/2500ppb TBA	19 Oct 2024 19:57
12	12	RIW369.D	1.	RINSE			19 Oct 2024 20:23
13	13	RIW370.D	1.	RINSE			19 Oct 2024 20:49
14	14	RIW371.D	1.	IVO06J191		10ppb 8260/50ppb KET-AA/250ppb TBA	19 Oct 2024 21:15
15	15	RIW372.D	1.	RINSE			19 Oct 2024 21:41
16	16	RIW373.D	1.	LOD1 0.02/0.10		0.2ppb 8260/4.0ppb KET-AA/5.0ppb TBA	19 Oct 2024 22:07
17	17	RIW374.D	1.	LOD2 0.03/0.15		0.4ppb 8260/4.0ppb KET-AA/10ppb TBA	19 Oct 2024 22:34

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments: * Varied Amounts

Book #: A01-077
Instrument No.: 01
Analytical Sequence: 24J12
Method File: V001J12
Analytical Batch: V001J126

INITIAL CALIBRATION REFERENCE			
DATE	10/12/24		
ICAL ID	V001J12		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC	SVI-45-36-05 -37-01	*	25 250
DCC	-37-02		250
DCC	-32-03		50
DCC	-40-02	↓	250
BFB	-41-03	1	50
IS/SURR.	SVI-45-37-02 -37-03	1 *	250 250
ICV/LCS	-35-01	1	250
ICV/LCS	-34-03	1	250
ICV/LCS	-26-03 -21-03	5 5	50 250
ICV/LCS	-43-01	5	50
Data File Folder	24J12		
	LOT #	Syringe Lot #	
pH strip	N/A	MSV-03-04-12-4	
Chlorine strip	↓	-6	
Methanol		-03-23	
$NaHSO_4$		-02-24	
Reagent Water	RW3-23-001		
Sand			

SOP #
☑ EMAX-8260 Rev. No. 10
☐ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1
PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☑ 25-mL Purge
SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☐ Water
☐ pH <2. Outliers indicated on analytical sequence.
☐ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☑ pH <2 and Cl2 are not applicable.

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO01	

Analyzed By: [signature]
Date: 10/12/24
Disposed By: [signature]
Date Disposed: 10/13/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24J12

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RJV296.D	1.	BFB01J13	T/CHK	12 Oct 2024 12:56
2	2	RJV297.D	1.	VO01J121 0.03/0.15	0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA	12 Oct 2024 13:38
3	3	RJV298.D	1.	VO01J122 0.05/0.25	0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA	12 Oct 2024 14:08
4	4	RJV299.D	1.	VO01J123 0.1/0.5	1ppb 8260/5ppb KET-AA/25ppb TBA	12 Oct 2024 14:39
5	5	RJV300.D	1.	VO01J124 0.2/1.0	2ppb 8260/10ppb KET-AA/50ppb TBA	12 Oct 2024 15:09
6	6	RJV301.D	1.	VO01J125 0.5/2.5	5ppb 8260/25ppb KET-AA/125ppb TBA	12 Oct 2024 15:39
7	7	RJV302.D	1.	VO01J126 1.0/5.0	10ppb 8260/50ppb KET-AA/250ppb TBA	12 Oct 2024 16:08
8	8	RJV303.D	1.	VO01J127 2.0/10	20ppb 8260/100ppb KET-AA/500ppb TBA	12 Oct 2024 16:38
9	9	RJV304.D	1.	VO01J128 5.0/25	50ppb 8260/250ppb KET-AA/1250ppb TBA	12 Oct 2024 17:08
10	10	RJV305.D	1.	VO01J129 3.0/15	30ppb 8260/150ppb KET-AA/750ppb TBA	12 Oct 2024 17:38
11	11	RJV306.D	1.	VO01J1210 10/50	100ppb 8260/500ppb KET-AA/2500ppb TBA	12 Oct 2024 18:07
12	12	RJV307.D	1.	RINSE		12 Oct 2024 18:37
13	13	RJV308.D	1.	RINSE		12 Oct 2024 19:07
14	14	RJV309.D	1.	IVO01J1201 1.0/5.0	10ppb 8260/50ppb KET-AA/250ppb TBA	12 Oct 2024 19:36
15	15	RJV310.D	1.	RINSE		12 Oct 2024 20:06
16	16	RJV311.D	1.	LOD1	0.2ppb 8260/4.0ppb KET-AA/5.0ppb TBA	12 Oct 2024 20:36
17	17	RJV312.D	1.	LOD2	0.3ppb 8260/4.0ppb KET-AA/5.0ppb TBA	12 Oct 2024 21:05

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
VOLATILES

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #: A06-083
Instrument No.: 06
Analytical Sequence: 24J10
Method File: CV006J19
Analytical Batch: CV006J199

INITIAL CALIBRATION REFERENCE			
DATE	10/19/2024		
ICAL ID	V006J19		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC CS2	SV1 45 24 03	1	250
DCC GAS	SV1 45 37 01	1	250
DCC 4A00	SV1 45 42 03	1	250
DCC 8260 KET	SV1 45 42 02 SV1 45 40 03	5 5	250 250
BFB	SV1 45 42 01	1	50
IS/SURR.	SV1 45 35 03 SV1 45 36 01	1 1	250 250
ICV/LCS	SV1 45 35 01	1	250
ICV/LCS	SV1 45 31 03	1	250
ICV/LCS	SV1 45 43 01	5	50
ICV/LCS	SV1 45 26 03 SV1 45 21 03	5 5	50 250
Data File Folder	24J19		
	LOT #	Syringe Lot #	
pH strip	HC439975	MSV 03 04 126	
Chlorine strip	213906 233301B	MSV 03 35124	
Methanol		MSV 03 03 23	
$NaHSO_4$	RW3 23 001	MSV 03 02 24	
Reagent Water			
Sand			

SOP #
☑ EMAX-8260 Rev. No. 10
☐ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1
PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☒ 25-mL Purge
SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☒ Water
☑ pH <2. Outliers indicated on analytical sequence.
☒ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐ pH <2 and Cl2 are not applicable.

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/T006	

Analyzed By: MW/DM
Date: 10/30/24
Disposed By:
Date Disposed: 10/31/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24J30

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RIW541.D	1.	BFB06J26	T/CHK	30 Oct 2024 09:13
2	2	RIW542.D	1.	CVO06J199	10ppb 8260/50ppb KET-AA/250ppb TBA	30 Oct 2024 09:56
3	3	RIW543.D	1.	VO06J26L	10ppb 8260/50ppb KET-AA/250ppb TBA	30 Oct 2024 10:23
4	4	RIW544.D	1.	VO06J26C	10ppb 8260/50ppb KET-AA/250ppb TBA	30 Oct 2024 10:49
5	5	RIW545.D	1.	RINSE	10ppb 8260/50ppb KET-AA/250ppb TBA	30 Oct 2024 11:28
6	6	RIW546.D	1.	VO06J26B	25mL	30 Oct 2024 11:54
7	7	RIW547.D	1.	24J143-04	25mL	30 Oct 2024 12:21
8	8	RIW548.D	1.	24J143-05	25mL	30 Oct 2024 12:47
9	9	RIW549.D	1.	24J143-06	25mL	30 Oct 2024 13:13
10	10	RIW550.D	1.	24J143-07	25mL	30 Oct 2024 13:39
11	11	RIW551.D	1.	24J143-08	25mL	30 Oct 2024 14:06
12	12	RIW552.D	1.	24J143-09	25mL	30 Oct 2024 14:31
13	13	RIW553.D	1.	24J143-10	25mL	30 Oct 2024 14:58
14	14	RIW554.D	1.	24J143-11	25mL	30 Oct 2024 15:24
15	15	RIW555.D	1.	24J143-12	25mL	30 Oct 2024 15:51
16	16	RIW556.D	1.	24J143-13	25mL	30 Oct 2024 16:17
17	17	RIW557.D	1.	24J146-01	25mL	30 Oct 2024 16:43
18	18	RIW558.D	1.	24J146-02	25mL	30 Oct 2024 17:09
19	19	RIW559.D	1.	24J137-01	25mL	30 Oct 2024 17:36
20	20	RIW560.D	1.	24J137-02	25mL	30 Oct 2024 18:02
21	21	RIW561.D	1.	24J137-03	25mL	30 Oct 2024 18:28
22	22	RIW562.D	1.	24J169-01	25mL	30 Oct 2024 18:54
23	23	RIW563.D	1.	24J169-02	25mL	30 Oct 2024 19:21
24	24	RIW564.D	1.	24J169-03	25mL	30 Oct 2024 19:47
25	25	RIW565.D	1.	24J169-04	25mL	30 Oct 2024 20:13
26	26	RIW566.D	1.	24J143-05M	25mL	30 Oct 2024 20:40
27	27	RIW567.D	1.	24J143-05S	25mL	30 Oct 2024 21:06
28	28	RIW568.D	1.	RINSE	25mL	30 Oct 2024 21:32
29	29	RIW569.D	1.	EVO06J199	10ppb 8260/50ppb KET-AA/250ppb TBA	30 Oct 2024 21:59
30	30	RIW570.D	1.	EVO06J1991	10ppb 8260/50ppb KET-AA/250ppb TBA	30 Oct 2024 22:24
31	31	RIW571.D	1.	EVO06J1992	10ppb 8260/50ppb KET-AA/250ppb TBA	30 Oct 2024 22:51
32	32	RIW572.D	1.	RINSE	25mL	30 Oct 2024 23:17

Revised Report

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #: A01-077
Instrument No.: 01
Analytical Sequence: 24KOH
Method File: V001J12
Analytical Batch: CV001J1220

INITIAL CALIBRATION REFERENCE			
DATE	10/12/24		
ICAL ID	V001J12		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC	SV1-45-36-03	1	
DCC	-37-01	1	
DCC	~~-26-03~~ -32-02	1 5	
DCC	-32-03 -40-03	5	
BFB	-41-03	1	50/250
IS/SURR.	-29-03	5	
ICV/LCS	-35-01	1	
ICV/LCS	-34-03	1	
ICV/LCS	-26-03 -21-03	5 5	
ICV/LCS	✓ -43-01	5	
Data File Folder	24KOH		
	LOT #	Syringe Lot #	
pH strip	HC443 Q975	MSV-03-09-12-4	
Chlorine strip	3011902	↓ 6	
Methanol			
$NaHSO_4$			
Reagent Water	RW3-23-01		
Sand			

SOP #
☐ EMAX-8260 Rev. No. 10
☐ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1
PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☐ 25-mL Purge
SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☐ Water
☐ pH <2. Outliers indicated on analytical sequence.
☐ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐ pH <2 and Cl2 are not applicable.

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO01	

Analyzed By: CL/DM
Date: 11/14/24
Disposed By: CL
Date Disposed: 11/15/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24K04

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RKV026.D	1.	BFB01K02	25mL	4 Nov 2024 16:49
2	2	RKV027.D	1.	CVO01J1220	10ppb 8260/50ppb KET-AA/250ppb TBA	4 Nov 2024 17:28
3	3	RKV028.D	1.	VO01K02L	10ppb 8260/50ppb KET-AA/250ppb TBA	4 Nov 2024 17:58
4	4	RKV029.D	1.	VO01K02C	10ppb 8260/50ppb KET-AA/250ppb TBA	4 Nov 2024 18:27
5	5	RKV030.D	1.	RINSE	25mL	4 Nov 2024 18:56
6	6	RKV031.D	1.	VO01K02B	25mL	4 Nov 2024 19:26
7	7	RKV032.D	1.	24J169-05	25mL	4 Nov 2024 19:55
8	8	RKV033.D	1.	24J169-06	25mL	4 Nov 2024 20:24
9	9	RKV034.D	1.	24J169-07	25mL	4 Nov 2024 20:53
10	10	RKV035.D	1.	24J169-08	25mL	4 Nov 2024 21:22
11	11	RKV036.D	1.	24J169-09	25mL	4 Nov 2024 21:51
12	12	RKV037.D	1.	24J169-10	25mL	4 Nov 2024 22:20
13	13	RKV038.D	1.	24J168-07	25mL	4 Nov 2024 22:49
14	14	RKV039.D	1.	24J168-08	25mL	4 Nov 2024 23:17
15	15	RKV040.D	1.	24J168-09	25mL	4 Nov 2024 23:46
16	16	RKV041.D	1.	24J168-10	25mL	5 Nov 2024 00:15
17	17	RKV042.D	1.	24J168-11	25mL	5 Nov 2024 00:43
18	18	RKV043.D	1.	24J168-12	25mL	5 Nov 2024 01:12
19	19	RKV044.D	1.	24J168-13	25mL	5 Nov 2024 01:41
20	20	RKV045.D	1.	24J168-14	25mL	5 Nov 2024 02:09
21	21	RKV046.D	1.	24J168-15	25mL	5 Nov 2024 02:38
22	22	RKV047.D	1.	24J168-16	25mL	5 Nov 2024 03:07
23	23	RKV048.D	1.	24J168-17	25mL	5 Nov 2024 03:36
24	24	RKV049.D	1.	24J168-18	25mL	5 Nov 2024 04:05
25	25	RKV050.D	1.	EVO01J1220	10ppb 8260/50ppb KET-AA/250ppb TBA	5 Nov 2024 04:33
26	26	RKV051.D	1.	EVO01J12201	10ppb 8260/50ppb KET-AA/250ppb TBA	5 Nov 2024 05:03
27	27	RKV052.D	1.	EVO01J12202	10ppb 8260/50ppb KET-AA/250ppb TBA	5 Nov 2024 05:31
28	28	RKV053.D	1.	RINSE	25mL	5 Nov 2024 06:00

RAW DATA
VOLATILE ORGANICS

LABORATORY REPORT FOR

PARSONS

TITAN 1-A

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

SDG#: 24J169

CASE NARRATIVE

Client : PARSONS

Project: TITAN 1-A

SDG : 24J169

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

A total of ten(10) water samples were received on 10/28/24 to be analyzed for Volatile Organics by GC/MS in accordance with Method SW5030C/8260C and project specific requirements.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Result was within acceptance criteria. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried out at a frequency required by the project. All calibration requirements were within acceptance criteria except for few analytes in CCV(data file ID RIW544)and (data file ID KV027) were not within 20% of expected values. However, ending CCV'S were within project QC acceptance criteria, except for ending CCV(data file ID RIW569)was analyze out of 12 hour. Hence, two consecutive CCV's ((Datafile ID: RIW570) and (Datafile ID: RIW571) thereafter within one hour from ending CCV (data file ID RIW569). Refer to calibration summary forms of ICAL, ICV and CCV's forms for details.

Method Blank
Method blank was prepared and analyzed at the frequency required by the project. For this SDG, two(2) method blanks were analyzed. VO01K02B and VO06J26B were compliant to project requirement. Refer to sample result summary forms for details.

Lab Control Sample
Lab control sample was prepared and analyzed at a frequency required by the project. For this SDG, two(2) sets of LCS/LCD were analyzed. All analytes were within LCS limits in VO01K02L/VO01K02C and VO06J26L/VO06J26C, except for results qualified with [*]. Refer to LCS summary forms for details.

Matrix QC Sample
No matrix QC sample was provided on this SDG.

Surrogate
Surrogates were added on QC and field samples. For this SDG, all surrogate recoveries were within QC limits except for 1,2-Dichloroethane-D4 in J169-03, J169-01, J169-02 and J169-04. It was noted that Dibromofluoromethane surrogate, an alternate surrogate for 1,2-Dichloroethane-D4, was in control. Hence, result was reported. Refer to sample result summary forms for details.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Results were evaluated in accordance to project requirements. For this SDG, all quality control requirements were met with the exception of those that were discussed within the associated QC parameter.

Revised Report

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : PARSONS
Project : TITAN 1-A

SDG NO. : 24J169
Instrument ID : 06

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
LCS1W	V006J26L	1	NA	10/30/2410:23	10/30/2410:23	RIW543	RIW364	V006J26	Lab Control Sample (LCS)
LCD1W	V006J26C	1	NA	10/30/2410:49	10/30/2410:49	RIW544	RIW364	V006J26	LCS Duplicate
MBLK1W	V006J26B	1	NA	10/30/2411:54	10/30/2411:54	RIW546	RIW364	V006J26	Method Blank
T1AMF-TB002_OCT24	24J169-01	1	NA	10/30/2418:54	10/30/2418:54	RIW562	RIW364	V006J26	Field Sample
T1AMF-MW063_OCT24	24J169-02	1	NA	10/30/2419:21	10/30/2419:21	RIW563	RIW364	V006J26	Field Sample
T1AMF-MW064_OCT24	24J169-03	1	NA	10/30/2419:47	10/30/2419:47	RIW564	RIW364	V006J26	Field Sample
T1AMF-MW055_OCT24	24J169-04	1	NA	10/30/2420:13	10/30/2420:13	RIW565	RIW364	V006J26	Field Sample
LCS2W!	V001K02L	1	NA	11/04/2417:58	11/04/2417:58	RKV028	RJV302	V001K02	Lab Control Sample (LCS)
LCD2W!	V001K02C	1	NA	11/04/2418:27	11/04/2418:27	RKV029	RJV302	V001K02	LCS Duplicate
MBLK2W!	V001K02B	1	NA	11/04/2419:26	11/04/2419:26	RKV031	RJV302	V001K02	Method Blank
T1AMF-MW054_OCT24!	24J169-05	1	NA	11/04/2419:55	11/04/2419:55	RKV032	RJV302	V001K02	Field Sample
T1AMF-MW019_OCT24!	24J169-06	1	NA	11/04/2420:24	11/04/2420:24	RKV033	RJV302	V001K02	Field Sample
T1AMF-MW016_OCT24!	24J169-07	1	NA	11/04/2420:53	11/04/2420:53	RKV034	RJV302	V001K02	Field Sample
T1AMF-MW016_OCT24_FD!	24J169-08	1	NA	11/04/2421:22	11/04/2421:22	RKV035	RJV302	V001K02	Field Sample
T1AMF-MW011_OCT24!	24J169-09	1	NA	11/04/2421:51	11/04/2421:51	RKV036	RJV302	V001K02	Field Sample
T1AMF-MW052_OCT24!	24J169-10	1	NA	11/04/2422:20	11/04/2422:20	RKV037	RJV302	V001K02	Field Sample

! Instrument ID : 01
FN - Filename
% Moist - Percent Moisture

Revised Report

SAMPLE RESULTS

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 06:40
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	10/30/24 18:54
Sample ID	: T1AMF-TB002_OCT24	Date Analyzed:	10/30/24 18:54
Lab Samp ID:	24J169-01	Dilution Factor:	1
Lab File ID:	RIW562	Matrix:	WATER
Ext Btch ID:	VO06J26	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	12.3	10.0	123*	81-118
4-Bromofluorobenzene	10.5	10.0	105	85-114
Toluene-d8	9.50	10.0	95	89-112
Dibromofluoromethane	9.25	10.0	92	80-119

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: PMai	Analyzed by	: PMai

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J30\RIW562.D Vial: 22
Acq On : 30 Oct 2024 6:54 pm Operator: PMai
Sample : 24J169-01 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 25 12:50 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	2574170	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.33	117	1982552	10.00	ug/l	-0.01
74) 1,2-DICHLOROBENZENE-D4	19.27	152	691363	10.00	ug/l	-0.01
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	583155	9.25	ug/l	0.00
Spiked Amount 10.000			Recovery = 92.50%			
42) 1,2-Dichloroethane-d4	8.94	65	538258	12.33	ug/l	-0.02
Spiked Amount 10.000			Recovery = 123.30%			
55) Toluene-d8	12.69	98	2603084	9.50	ug/l	0.00
Spiked Amount 10.000			Recovery = 95.00%			
77) 4-Bromofluorobenzene	17.36	95	807317	10.46	ug/l	-0.01
Spiked Amount 10.000			Recovery = 104.60%			

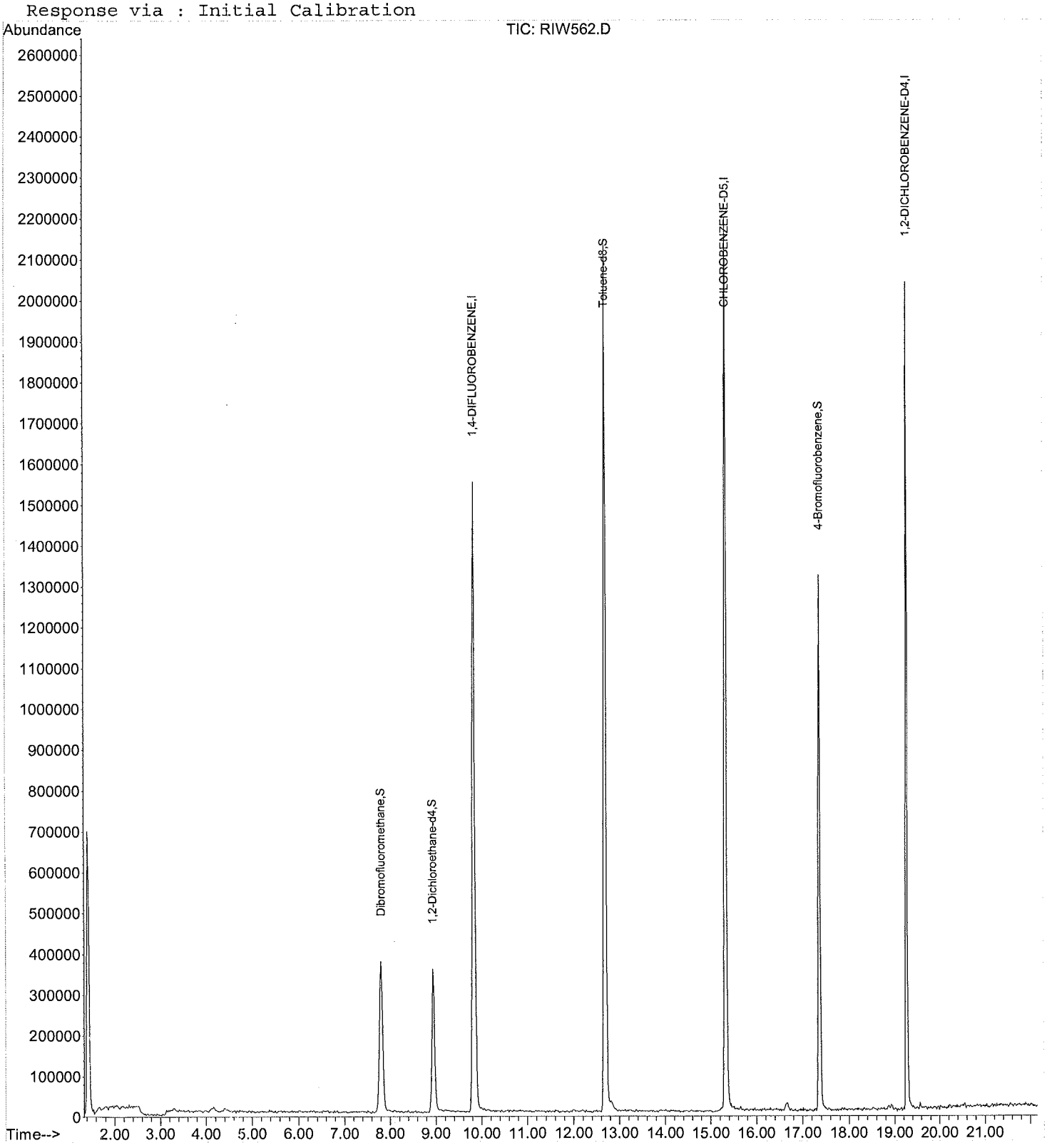
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW562.D Vial: 22
Acq On : 30 Oct 2024 6:54 pm Operator: PMai
Sample : 24J169-01 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 25 12:50 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 08:16
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	10/30/24 19:21
Sample ID	: T1AMF-MW063_OCT24	Date Analyzed:	10/30/24 19:21
Lab Samp ID:	24J169-02	Dilution Factor:	1
Lab File ID:	RIW563	Matrix:	WATER
Ext Btch ID:	VO06J26	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	12.4	10.0	124*	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	9.17	10.0	92	89-112
Dibromofluoromethane	9.27	10.0	93	80-119

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: PMai	Analyzed by	: PMai

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J30\RIW563.D Vial: 23
Acq On : 30 Oct 2024 7:21 pm Operator: PMai
Sample : 24J169-02 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 25 12:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	2556287	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.32	117	2022155	10.00	ug/l	-0.01
74) 1,2-DICHLOROBENZENE-D4	19.27	152	721961	10.00	ug/l	-0.02
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	580129	9.27	ug/l	0.00
Spiked Amount 10.000			Recovery = 92.70%			
42) 1,2-Dichloroethane-d4	8.94	65	538962	12.43	ug/l	-0.02
Spiked Amount 10.000			Recovery = 124.30%			
55) Toluene-d8	12.69	98	2562174	9.17	ug/l	0.00
Spiked Amount 10.000			Recovery = 91.70%			
77) 4-Bromofluorobenzene	17.36	95	810614	10.06	ug/l	-0.01
Spiked Amount 10.000			Recovery = 100.60%			

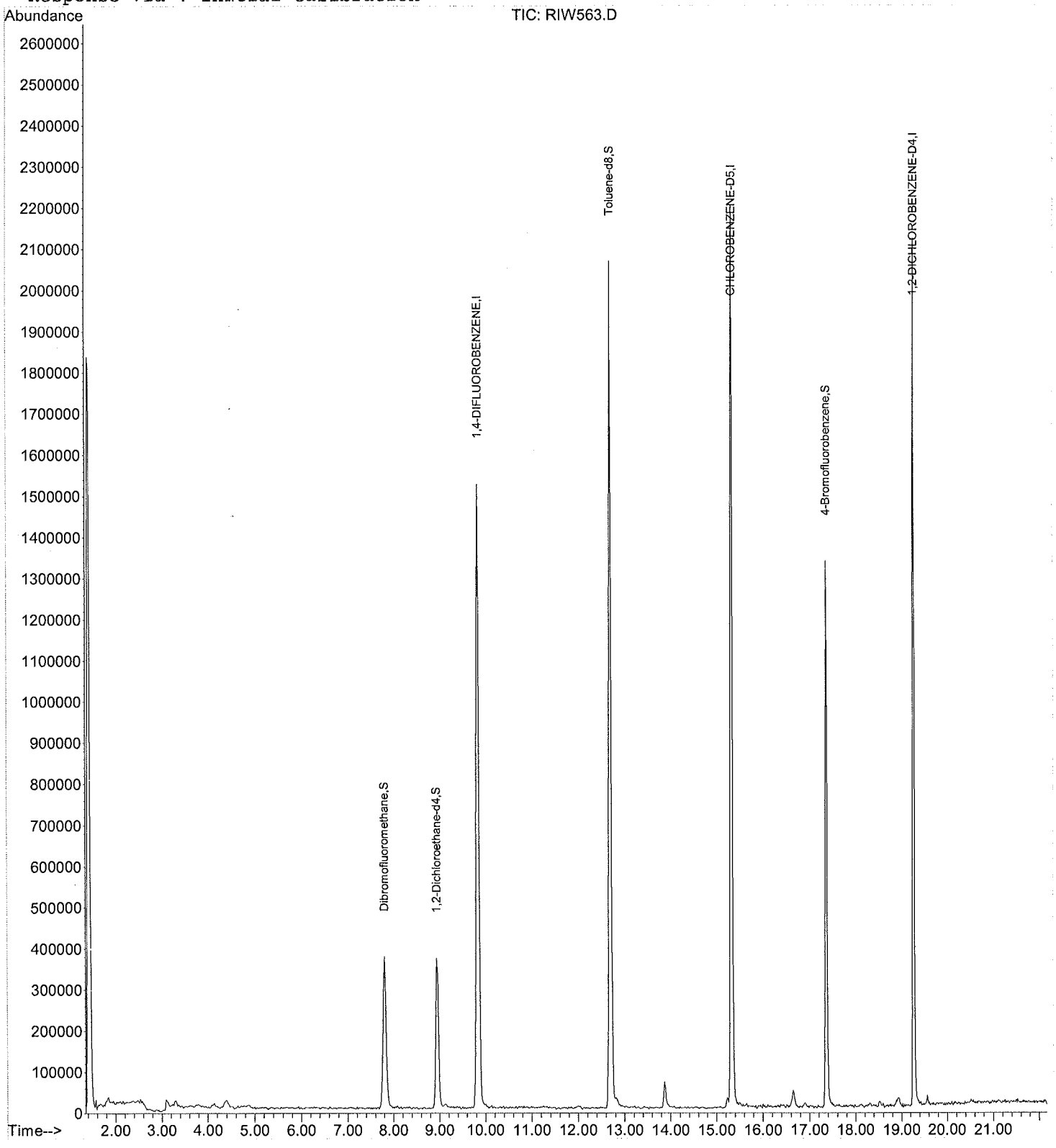
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW563.D Vial: 23
Acq On : 30 Oct 2024 7:21 pm Operator: PMai
Sample : 24J169-02 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 25 12:56 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 09:03
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	10/30/24 19:47
Sample ID	: T1AMF-MW064_OCT24	Date Analyzed:	10/30/24 19:47
Lab Samp ID:	24J169-03	Dilution Factor:	1
Lab File ID:	RIW564	Matrix:	WATER
Ext Btch ID:	VO06J26	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	12.7	10.0	127*	81-118
4-Bromofluorobenzene	9.56	10.0	96	85-114
Toluene-d8	9.34	10.0	93	89-112
Dibromofluoromethane	9.14	10.0	91	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : PMai Analyzed by : PMai
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J30\RIW564.D Vial: 24
Acq On : 30 Oct 2024 7:47 pm Operator: PMai
Sample : 24J169-03 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 25 12:59 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	2406180	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.33	117	1897068	10.00	ug/l	-0.01
74) 1,2-DICHLOROBENZENE-D4	19.27	152	694192	10.00	ug/l	-0.01
System Monitoring Compounds						
35) Dibromofluoromethane	7.80	111	538387	9.14	ug/l	0.00
Spiked Amount 10.000			Recovery = 91.40%			
42) 1,2-Dichloroethane-d4	8.94	65	517731	12.69	ug/l	-0.02
Spiked Amount 10.000			Recovery = 126.90%			
55) Toluene-d8	12.69	98	2448231	9.34	ug/l	0.00
Spiked Amount 10.000			Recovery = 93.40%			
77) 4-Bromofluorobenzene	17.36	95	740879	9.56	ug/l	-0.01
Spiked Amount 10.000			Recovery = 95.60%			

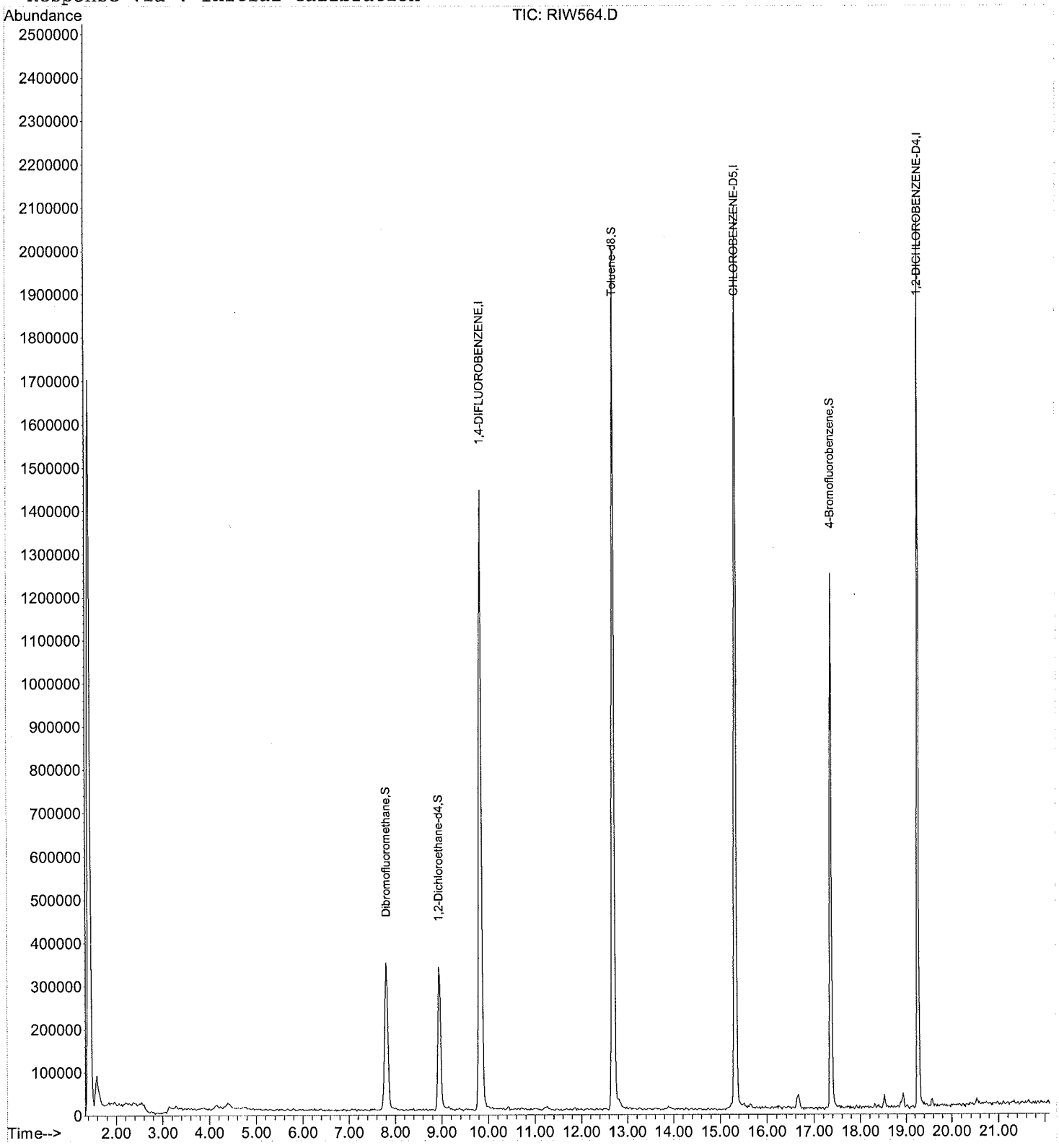
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW564.D Vial: 24
Acq On : 30 Oct 2024 7:47 pm Operator: PMai
Sample : 24J169-03 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 25 12:59 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 10:39
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	10/30/24 20:13
Sample ID	: T1AMF-MW055_OCT24	Date Analyzed:	10/30/24 20:13
Lab Samp ID:	24J169-04	Dilution Factor:	1
Lab File ID:	RIW565	Matrix:	WATER
Ext Btch ID:	VOO6J26	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	12.7	10.0	127*	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	9.28	10.0	93	89-112
Dibromofluoromethane	9.13	10.0	91	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : PMai Analyzed by : PMai
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J30\RIW565.D Vial: 25
Acq On : 30 Oct 2024 8:13 pm Operator: PMai
Sample : 24J169-04 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 25 13:01 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

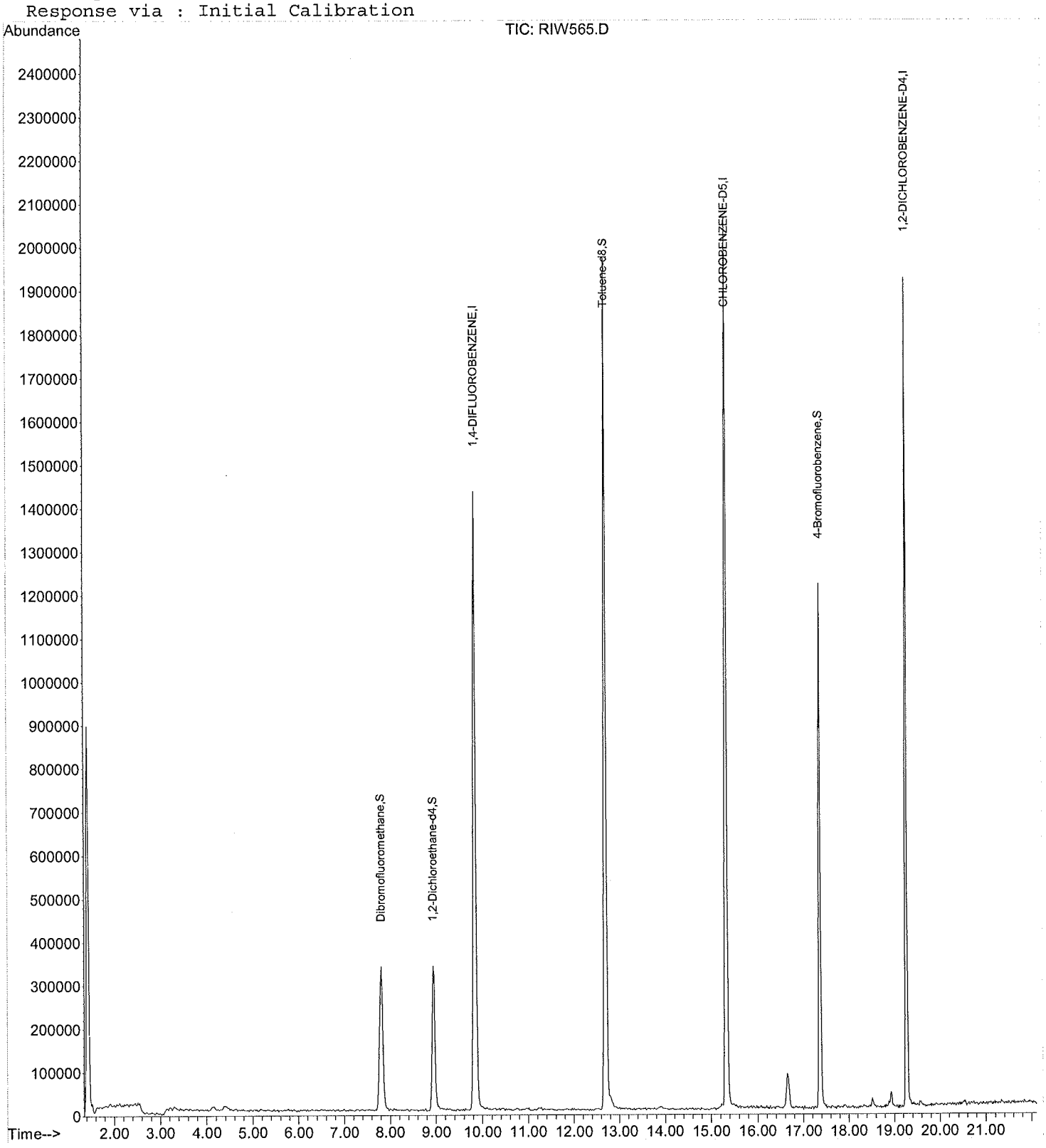
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	2395009	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.33	117	1855830	10.00	ug/l	-0.01
74) 1,2-DICHLOROBENZENE-D4	19.27	152	652256	10.00	ug/l	-0.02
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	535465	9.13	ug/l	0.00
Spiked Amount 10.000			Recovery = 91.30%			
42) 1,2-Dichloroethane-d4	8.94	65	516084	12.71	ug/l	-0.02
Spiked Amount 10.000			Recovery = 127.10%			
55) Toluene-d8	12.69	98	2380744	9.28	ug/l	0.00
Spiked Amount 10.000			Recovery = 92.80%			
77) 4-Bromofluorobenzene	17.36	95	731880	10.05	ug/l	-0.01
Spiked Amount 10.000			Recovery = 100.50%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration
RIW565.D VO06J19.M Mon Nov 25 13:01:56 2024 Page 1

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW565.D Vial: 25
Acq On : 30 Oct 2024 8:13 pm Operator: PMai
Sample : 24J169-04 Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 25 13:01 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 11:15
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	11/04/24 19:55
Sample ID	: T1AMF-MW054_OCT24	Date Analyzed:	11/04/24 19:55
Lab Samp ID:	24J169-05	Dilution Factor:	1
Lab File ID:	RKV032	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	0.84J	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	3.1	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	9.33	10.0	93	81-118
4-Bromofluorobenzene	9.80	10.0	98	85-114
Toluene-d8	10.6	10.0	106	89-112
Dibromofluoromethane	10.4	10.0	104	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV032.D Vial: 7
Acq On : 4 Nov 2024 7:55 pm Operator: DNguye/CLing1
Sample : 24J169-05 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:10 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

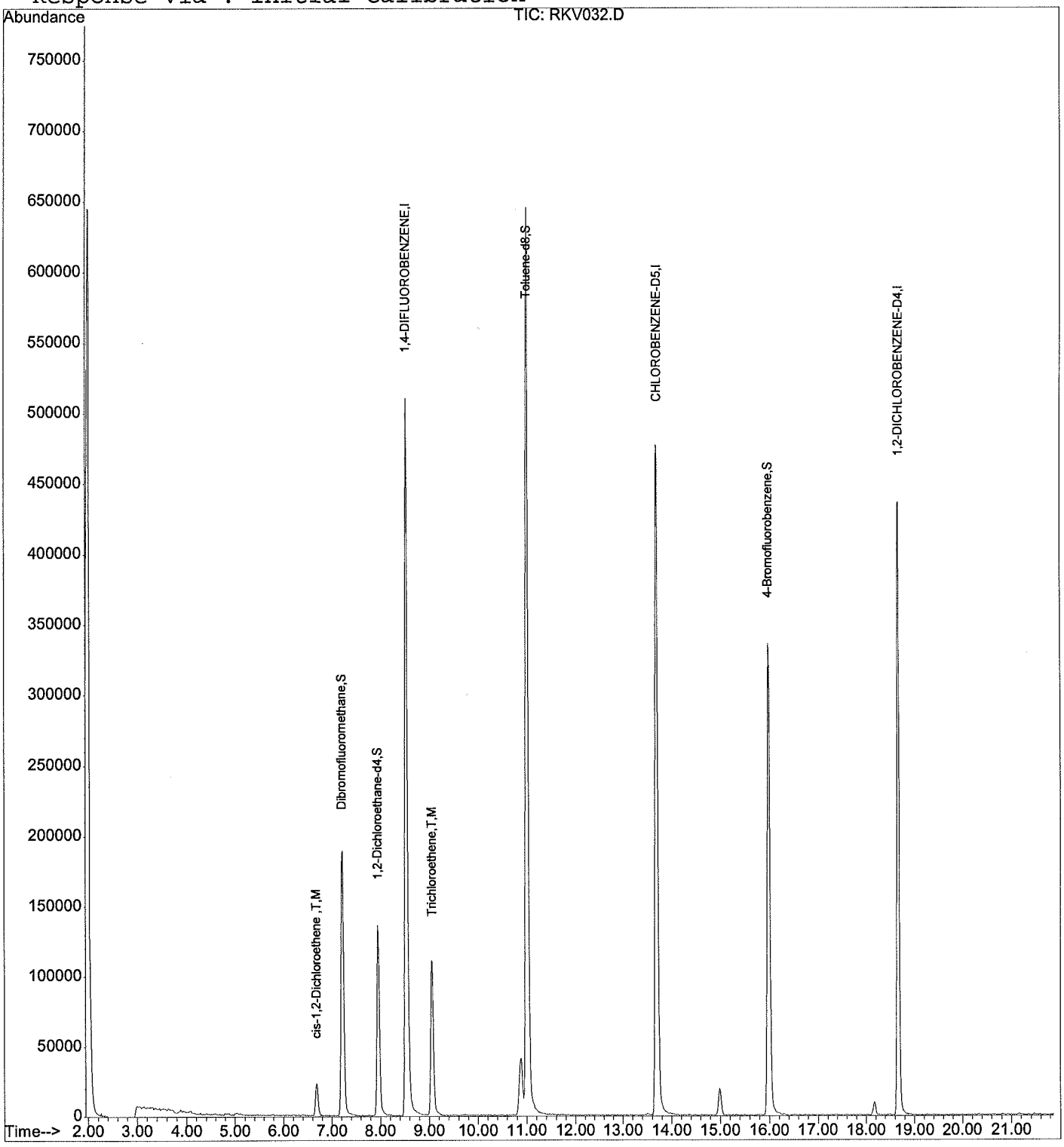
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.53	114	834831	10.00	ug/l	-0.01
53) CHLOROBENZENE-D5	13.70	117	623459	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	243520	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.21	111	225766	10.35	ug/l	-0.02
Spiked Amount 10.000			Recovery = 103.50%			
41) 1,2-Dichloroethane-d4	7.95	65	179227	9.33	ug/l	-0.02
Spiked Amount 10.000			Recovery = 93.30%			
54) Toluene-d8	11.00	98	906564	10.57	ug/l	-0.01
Spiked Amount 10.000			Recovery = 105.70%			
76) 4-Bromofluorobenzene	15.98	95	282500	9.80	ug/l	0.00
Spiked Amount 10.000			Recovery = 98.00%			
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	6.68	96	22524	0.84	ug/l	86
44) Trichloroethene	9.06	130	79181	3.13	ug/l	92

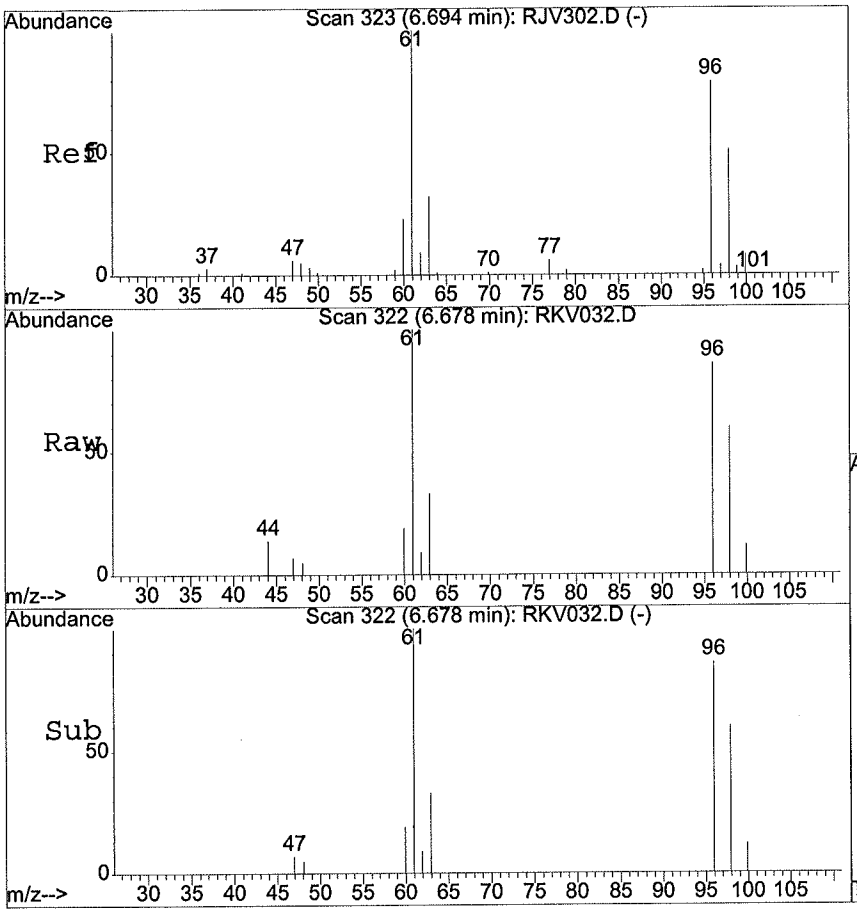
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV032.D Vial: 7
Acq On : 4 Nov 2024 7:55 pm Operator: DNguye/CLing
Sample : 24J169-05 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:10 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

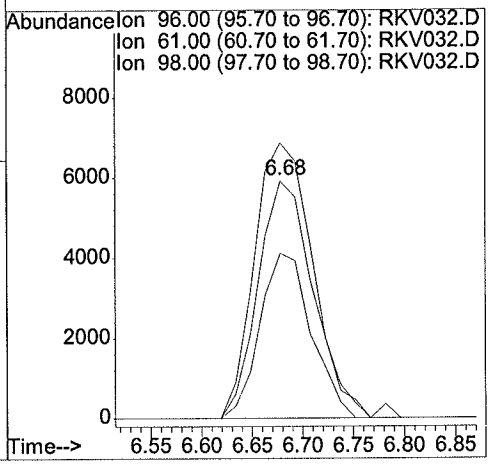


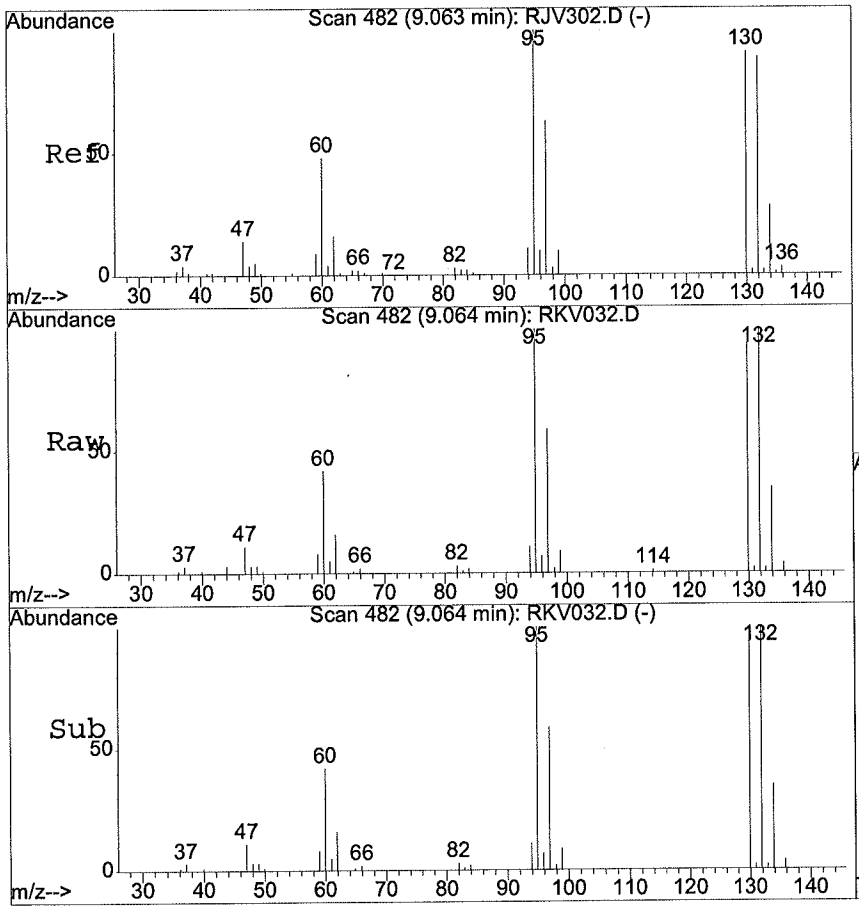


#30
cis-1,2-Dichloroethene
Concen: 0.84 ug/l
RT: 6.68 min Scan# 322
Delta R.T. -0.02 min
Lab File: RKV032.D
Acq: 4 Nov 2024 7:55 pm

Tgt Ion: 96 Resp: 22524

Ion	Ratio	Lower	Upper
96	100		
61	124.0	118.2	178.2
98	64.7	35.6	95.6

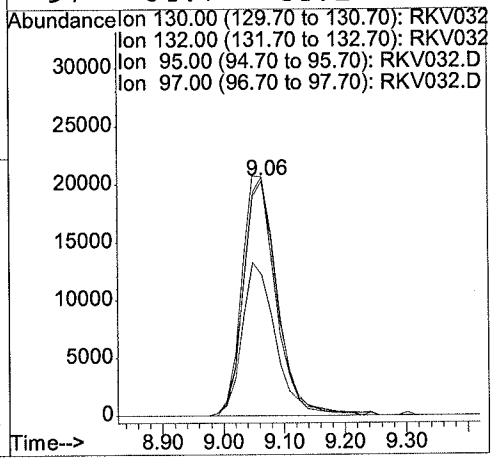




#44
Trichloroethene
Concen: 3.13 ug/l
RT: 9.06 min Scan# 482
Delta R.T. 0.00 min
Lab File: RKV032.D
Acq: 4 Nov 2024 7:55 pm

Tgt Ion:130 Resp: 79181

Ion	Ratio	Lower	Upper
130	100		
132	101.5	67.4	127.4
95	102.4	81.2	141.2
97	64.7	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 12:00
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	11/04/24 20:24
Sample ID	: T1AMF-MW019_OCT24	Date Analyzed:	11/04/24 20:24
Lab Samp ID:	24J169-06	Dilution Factor:	1
Lab File ID:	RKV033	Matrix:	WATER
Ext Btch ID:	V001K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	4.1	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	9.64	10.0	96	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	10.8	10.0	108	89-112
Dibromofluoromethane	10.6	10.0	106	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV033.D Vial: 8
Acq On : 4 Nov 2024 8:24 pm Operator: DNguye/CLingl
Sample : 24J169-06 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:10 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

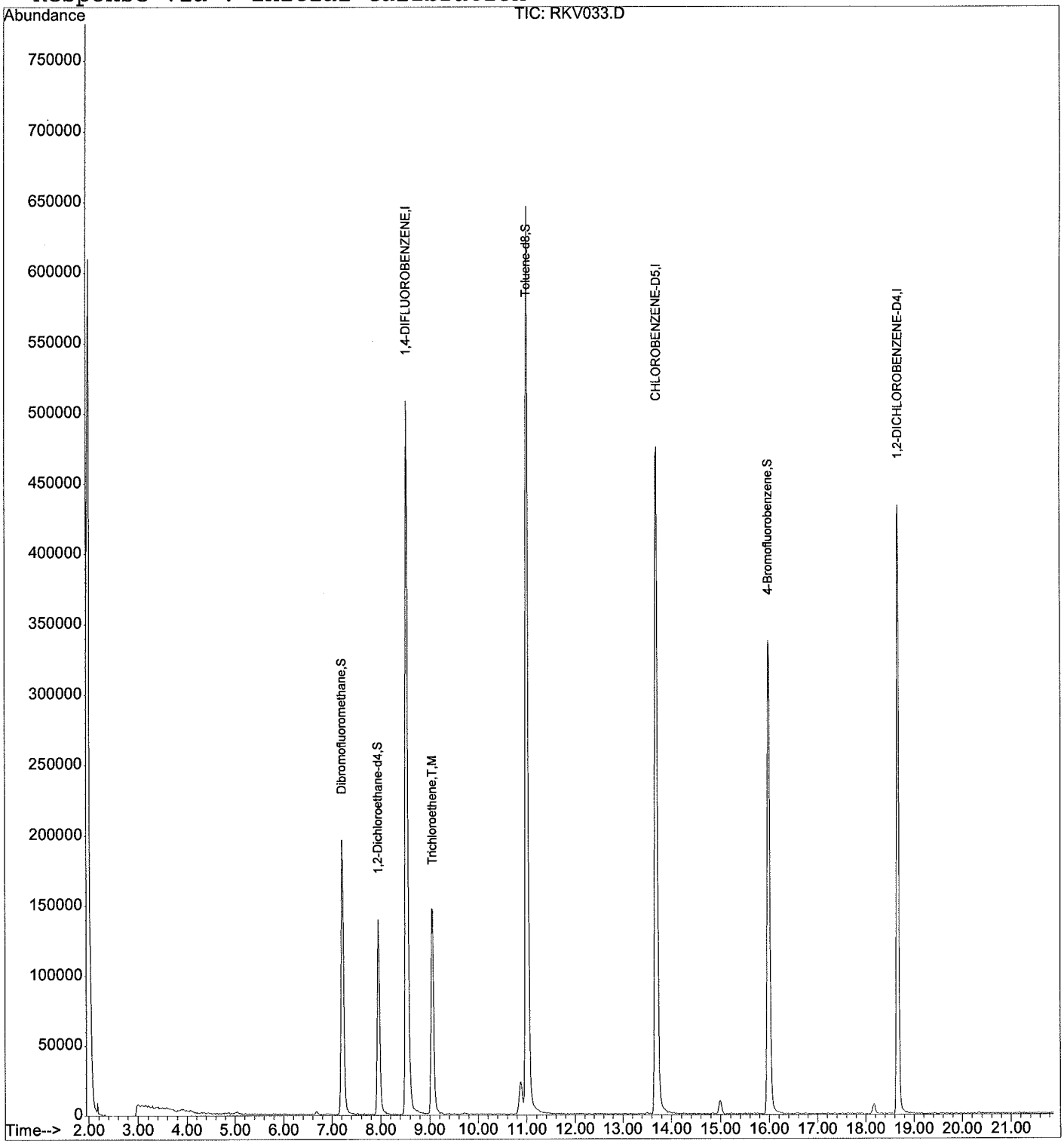
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.53	114	826496	10.00	ug/l	-0.01
53) CHLOROBENZENE-D5	13.70	117	601687	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	241469	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.21	111	228313	10.58	ug/l	-0.02
Spiked Amount 10.000			Recovery = 105.80%			
41) 1,2-Dichloroethane-d4	7.95	65	183283	9.64	ug/l	-0.02
Spiked Amount 10.000			Recovery = 96.40%			
54) Toluene-d8	11.00	98	892299	10.78	ug/l	-0.01
Spiked Amount 10.000			Recovery = 107.80%			
76) 4-Bromofluorobenzene	15.98	95	287942	10.07	ug/l	0.00
Spiked Amount 10.000			Recovery = 100.70%			
Target Compounds						Qvalue
44) Trichloroethene	9.06	130	101493	4.06	ug/l	92

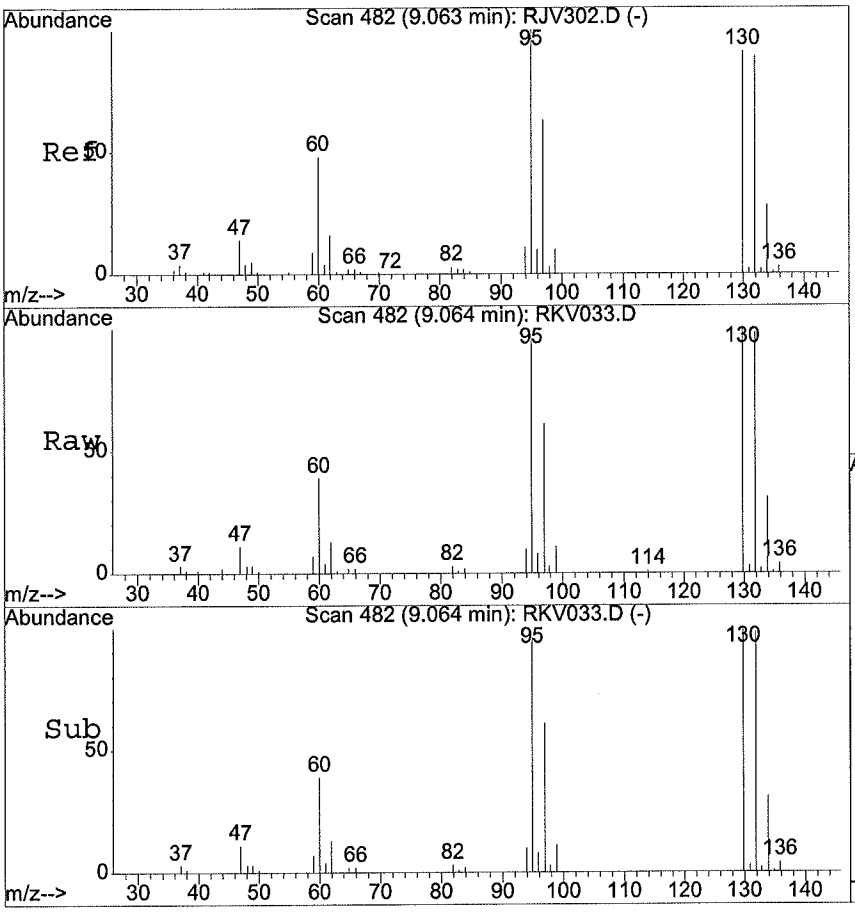
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV033.D Vial: 8
Acq On : 4 Nov 2024 8:24 pm Operator: DNguye/CLing
Sample : 24J169-06 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:10 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

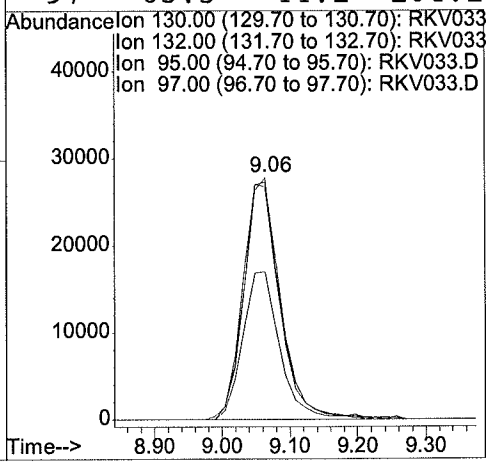




#44
Trichloroethene
Concen: 4.06 ug/l
RT: 9.06 min Scan# 482
Delta R.T. 0.00 min
Lab File: RKV033.D
Acq: 4 Nov 2024 8:24 pm

Tgt Ion:130 Resp: 101493

Ion	Ratio	Lower	Upper
130	100		
132	101.4	67.4	127.4
95	101.8	81.2	141.2
97	63.5	44.1	104.1



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 12:49
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	11/04/24 20:53
Sample ID	: T1AMF-MW016_OCT24	Date Analyzed:	11/04/24 20:53
Lab Samp ID:	24J169-07	Dilution Factor:	1
Lab File ID:	RKV034	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	0.24J	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	1.1	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.15J	1.0	0.10	0.20
Trichloroethene	4.8	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	9.95	10.0	100	81-118
4-Bromofluorobenzene	9.77	10.0	98	85-114
Toluene-d8	10.7	10.0	107	89-112
Dibromofluoromethane	10.7	10.0	107	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV034.D
Acq On : 4 Nov 2024 8:53 pm
Sample : 24J169-07
Misc : 25mL
MS Integration Params: RTE.P
Quant Time: Nov 8 19:11 2024

Vial: 9
Operator: DNguye/CLingl
Inst : 01
Multiplr: 1.00

Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

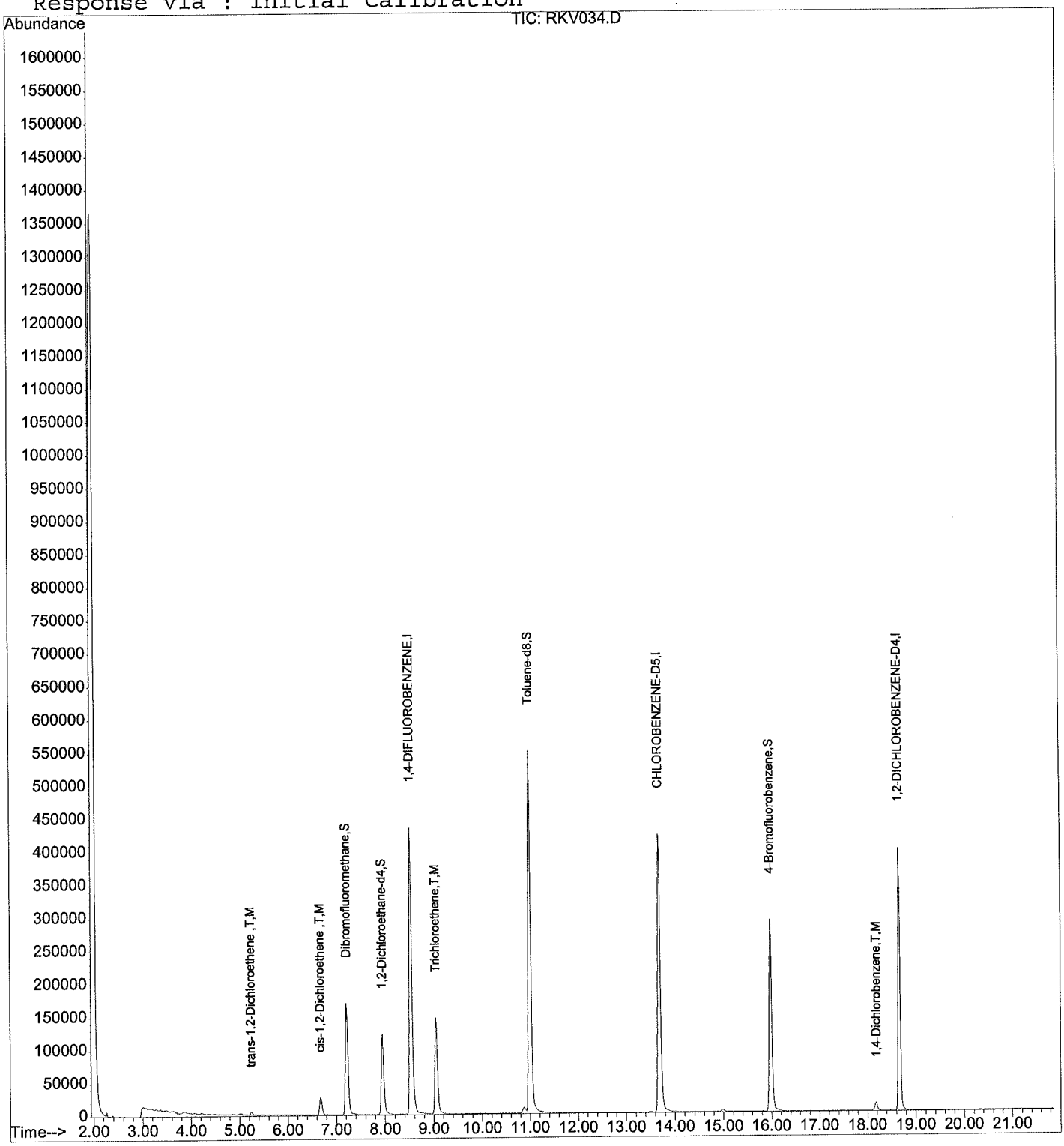
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.53	114	702259	10.00	ug/l	-0.01
53) CHLOROBENZENE-D5	13.68	117	526886	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	18.66	152	214116	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.21	111	196258	10.70	ug/l	-0.02
Spiked Amount 10.000			Recovery = 107.00%			
41) 1,2-Dichloroethane-d4	7.95	65	160842	9.95	ug/l	-0.01
Spiked Amount 10.000			Recovery = 99.50%			
54) Toluene-d8	11.00	98	774488	10.69	ug/l	-0.01
Spiked Amount 10.000			Recovery = 106.90%			
76) 4-Bromofluorobenzene	15.98	95	247731	9.77	ug/l	0.00
Spiked Amount 10.000			Recovery = 97.70%			
Target Compounds						Qvalue
22) trans-1,2-Dichloroethene	5.24	61	4876	0.15	ug/l	93
30) cis-1,2-Dichloroethene	6.68	96	25090	1.11	ug/l	85
44) Trichloroethene	9.05	130	101515	4.77	ug/l	93
89) 1,4-Dichlorobenzene	18.18	146	8821	0.24	ug/l	95

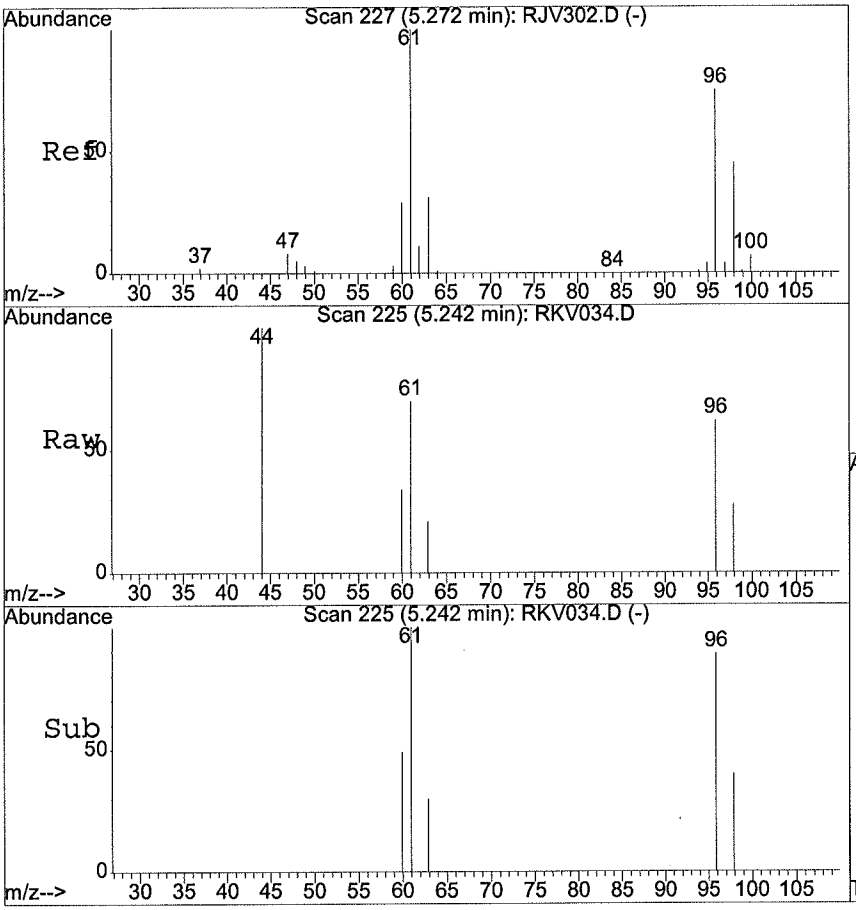
(#) = qualifier out of range (m) = manual integration
RKV034.D VO01J12.M Fri Nov 08 19:11:42 2024 Page 1

Data File : D:\HPCHEM\1\DATA\24K04\RKV034.D
Acq On : 4 Nov 2024 8:53 pm
Sample : 24J169-07
Misc : 25mL
MS Integration Params: RTE.P
Quant Time: Nov 8 19:11 2024

Vial: 9
Operator: DNguye/CLing
Inst : 01
Multiplr: 1.00
Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

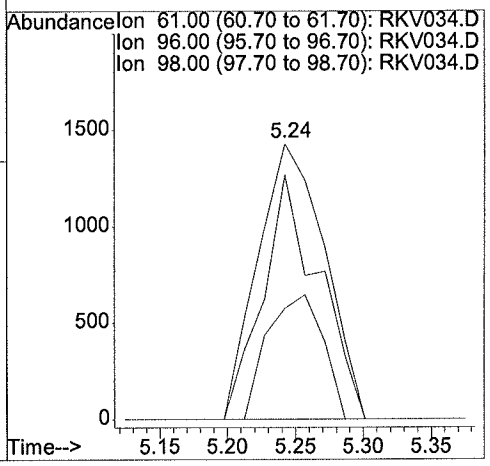


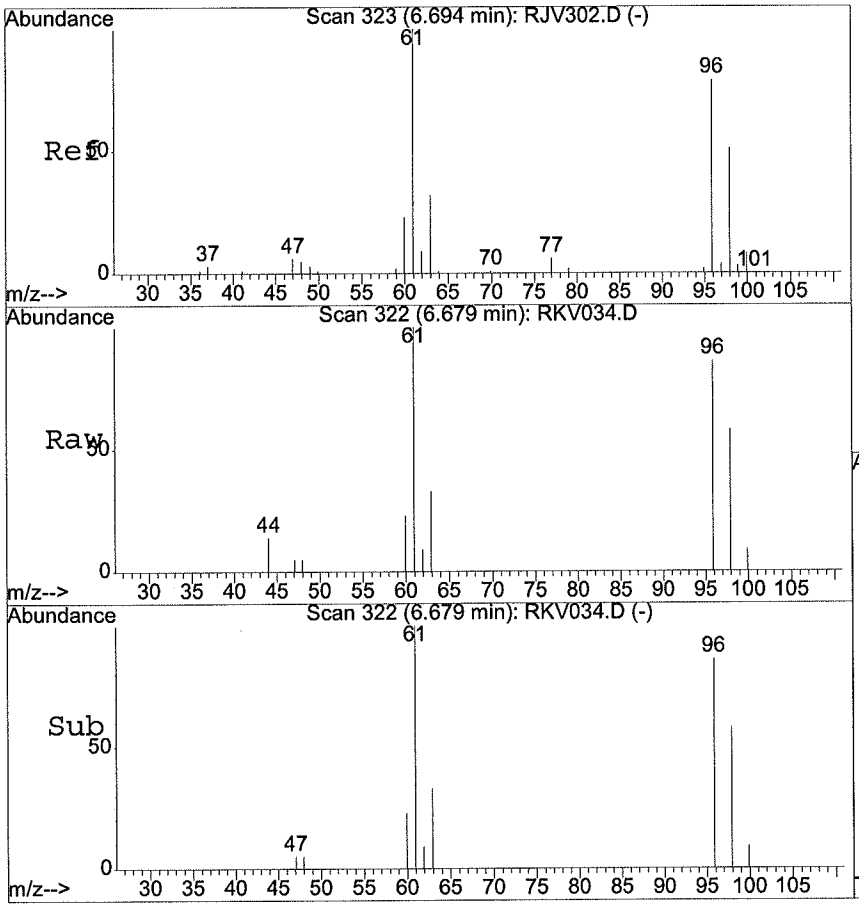


#22
trans-1,2-Dichloroethene
Concen: 0.15 ug/l
RT: 5.24 min Scan# 225
Delta R.T. -0.03 min
Lab File: RKV034.D
Acq: 4 Nov 2024 8:53 pm

Tgt Ion: 61 Resp: 4876

Ion	Ratio	Lower	Upper
61	100		
96	74.6	41.8	101.8
98	37.5	15.3	75.3

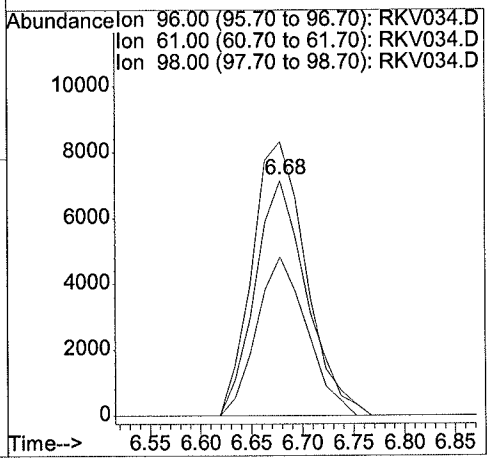


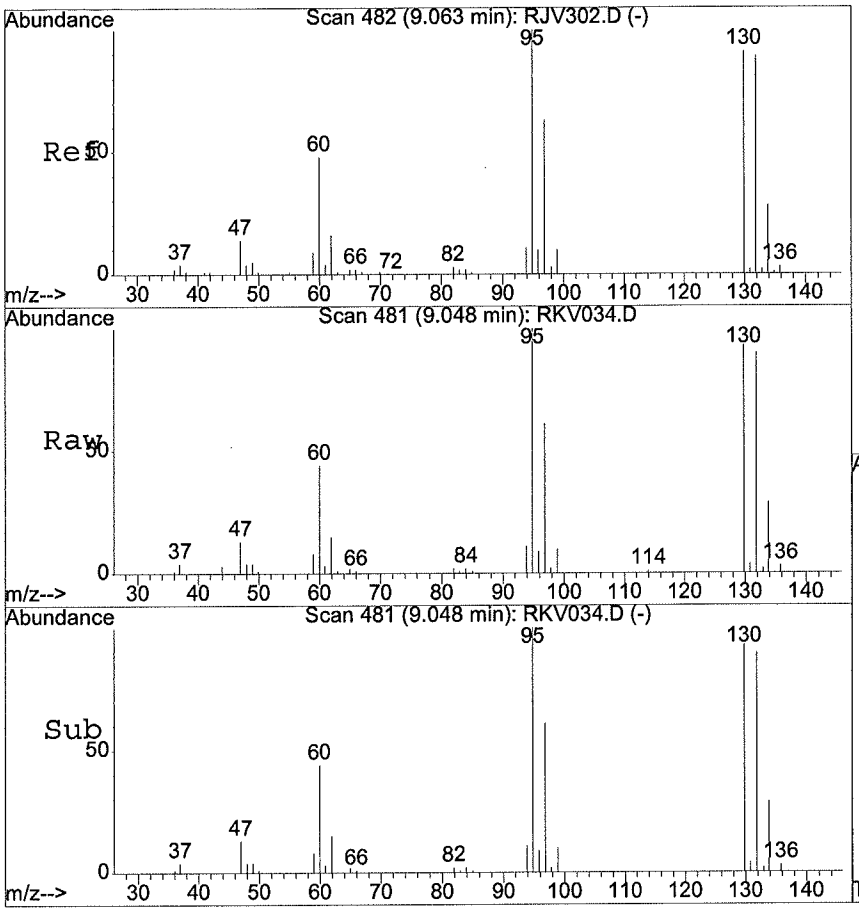


#30
cis-1,2-Dichloroethene
Concen: 1.11 ug/l
RT: 6.68 min Scan# 322
Delta R.T. -0.02 min
Lab File: RKV034.D
Acq: 4 Nov 2024 8:53 pm

Tgt Ion: 96 Resp: 25090

Ion	Ratio	Lower	Upper
96	100		
61	121.3	118.2	178.2
98	65.6	35.6	95.6

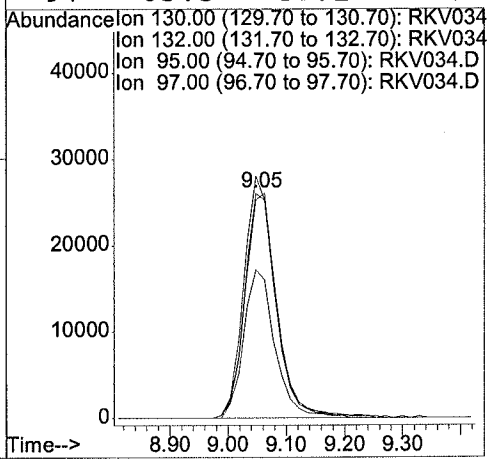


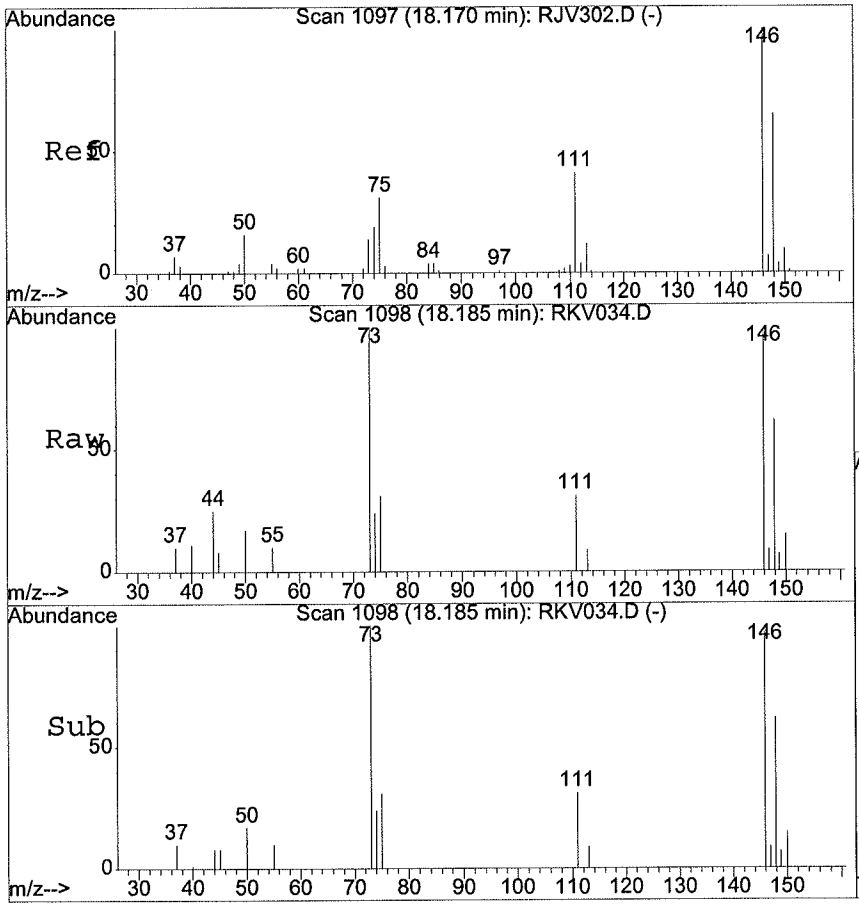


#44
Trichloroethene
Concen: 4.77 ug/l
RT: 9.05 min Scan# 481
Delta R.T. -0.01 min
Lab File: RKV034.D
Acq: 4 Nov 2024 8:53 pm

Tgt Ion:130 Resp: 101515

Ion	Ratio	Lower	Upper
130	100		
132	98.5	67.4	127.4
95	103.4	81.2	141.2
97	63.5	44.1	104.1

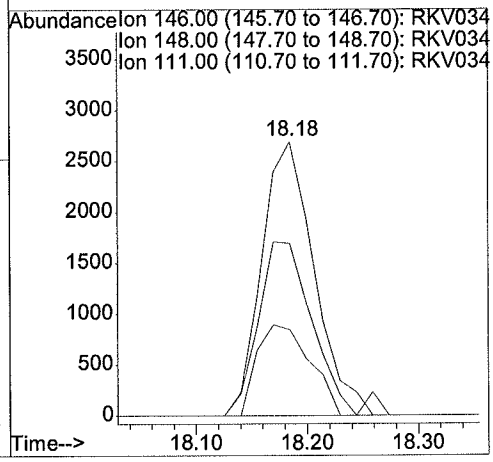




#89
1,4-Dichlorobenzene
Concen: 0.24 ug/l
RT: 18.18 min Scan# 1098
Delta R.T. 0.01 min
Lab File: RKV034.D
Acq: 4 Nov 2024 8:53 pm

Tgt Ion:146 Resp: 8821

Ion	Ratio	Lower	Upper
146	100		
148	64.4	35.2	95.2
111	33.7	10.3	70.3



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 12:54
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	11/04/24 21:22
Sample ID	: T1AMF-MW016_OCT24_FD	Date Analyzed:	11/04/24 21:22
Lab Samp ID:	24J169-08	Dilution Factor:	1
Lab File ID:	RKV035	Matrix:	WATER
Ext Btch ID:	V001K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	0.16J	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	1.0	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.15J	1.0	0.10	0.20
Trichloroethene	4.0	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	9.95	10.0	100	81-118
4-Bromofluorobenzene	9.89	10.0	99	85-114
Toluene-d8	10.5	10.0	105	89-112
Dibromofluoromethane	10.9	10.0	109	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV035.D
Acq On : 4 Nov 2024 9:22 pm
Sample : 24J169-08
Misc : 25mL
MS Integration Params: RTE.P
Quant Time: Nov 8 19:12 2024

Vial: 10
Operator: DNguye/CLingl
Inst : 01
Multiplr: 1.00
Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.53	114	756805	10.00	ug/l	-0.01
53) CHLOROBENZENE-D5	13.68	117	567358	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	18.66	152	227918	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.21	111	215193	10.89	ug/l	-0.02
Spiked Amount 10.000			Recovery = 108.90%			
41) 1,2-Dichloroethane-d4	7.95	65	173267	9.95	ug/l	-0.01
Spiked Amount 10.000			Recovery = 99.50%			
54) Toluene-d8	11.00	98	821121	10.52	ug/l	-0.01
Spiked Amount 10.000			Recovery = 105.20%			
76) 4-Bromofluorobenzene	15.98	95	266755	9.89	ug/l	0.00
Spiked Amount 10.000			Recovery = 98.90%			
Target Compounds						Qvalue
22) trans-1,2-Dichloroethene	5.24	61	4926	0.15	ug/l	94
30) cis-1,2-Dichloroethene	6.68	96	24782	1.02	ug/l #	79
44) Trichloroethene	9.05	130	91224	3.98	ug/l	91
89) 1,4-Dichlorobenzene	18.19	146	6370	0.16	ug/l	93

(#) = qualifier out of range (m) = manual integration
RKV035.D VO01J12.M Fri Nov 08 19:12:11 2024 Page 1

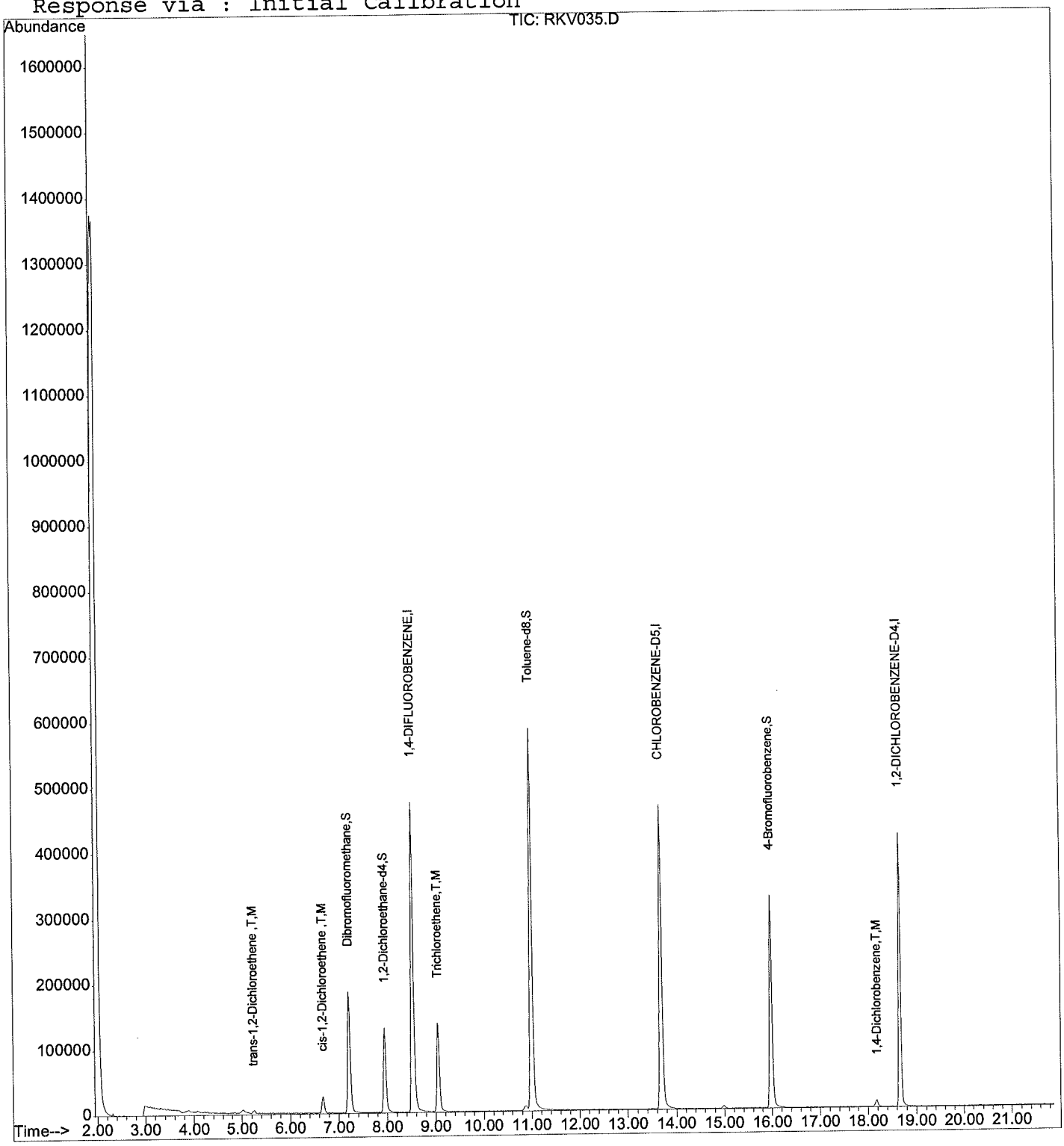
Quantitation Report

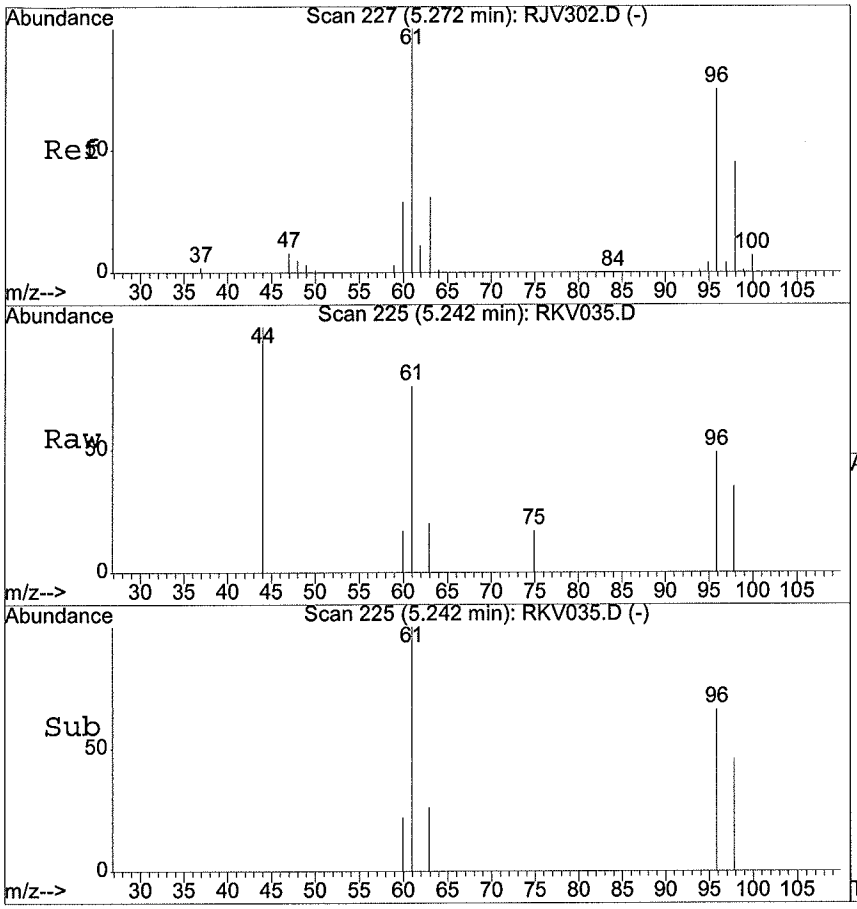
Data File : D:\HPCHEM\1\DATA\24K04\RKV035.D
Acq On : 4 Nov 2024 9:22 pm
Sample : 24J169-08
Misc : 25mL
MS Integration Params: RTE.P
Quant Time: Nov 8 19:12 2024

Vial: 10
Operator: DNguye/CLing
Inst : 01
Multiplr: 1.00

Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

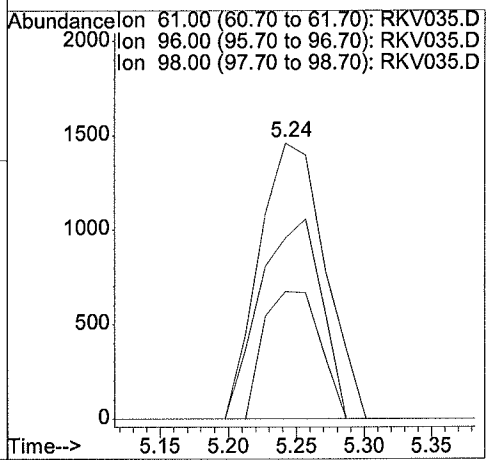


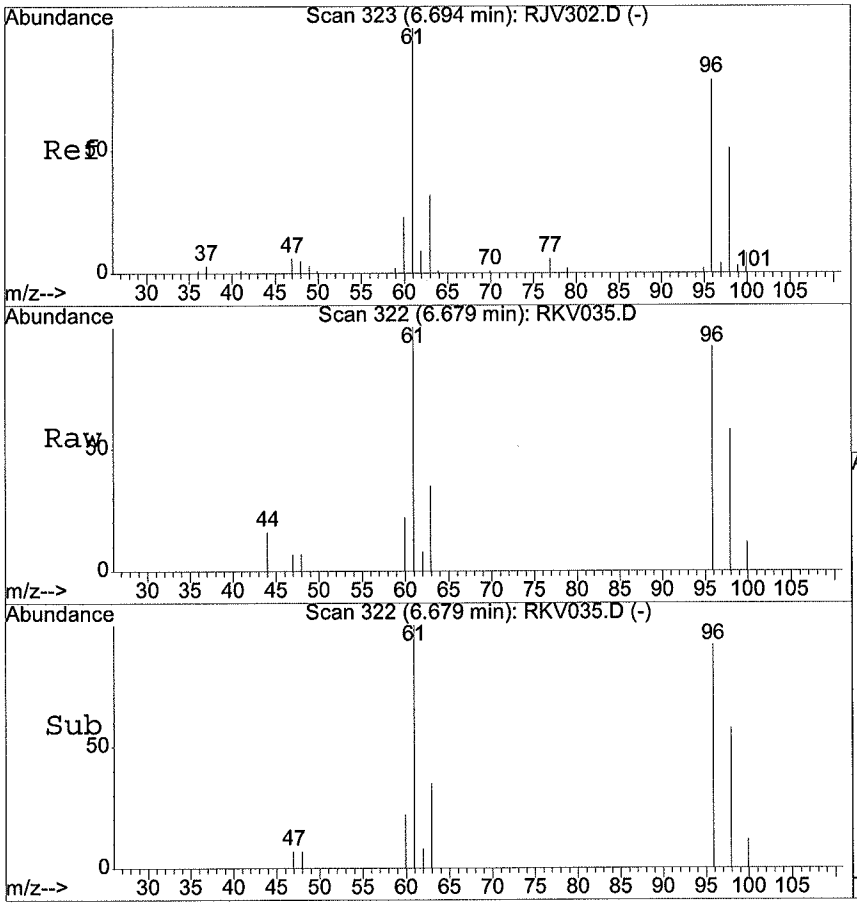


#22
trans-1,2-Dichloroethene
Concen: 0.15 ug/l
RT: 5.24 min Scan# 225
Delta R.T. -0.03 min
Lab File: RKV035.D
Acq: 4 Nov 2024 9:22 pm

Tgt Ion: 61 Resp: 4926

Ion	Ratio	Lower	Upper
61	100		
96	67.5	41.8	101.8
98	39.7	15.3	75.3

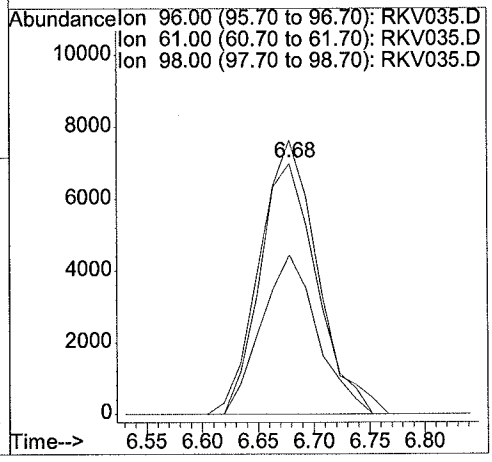


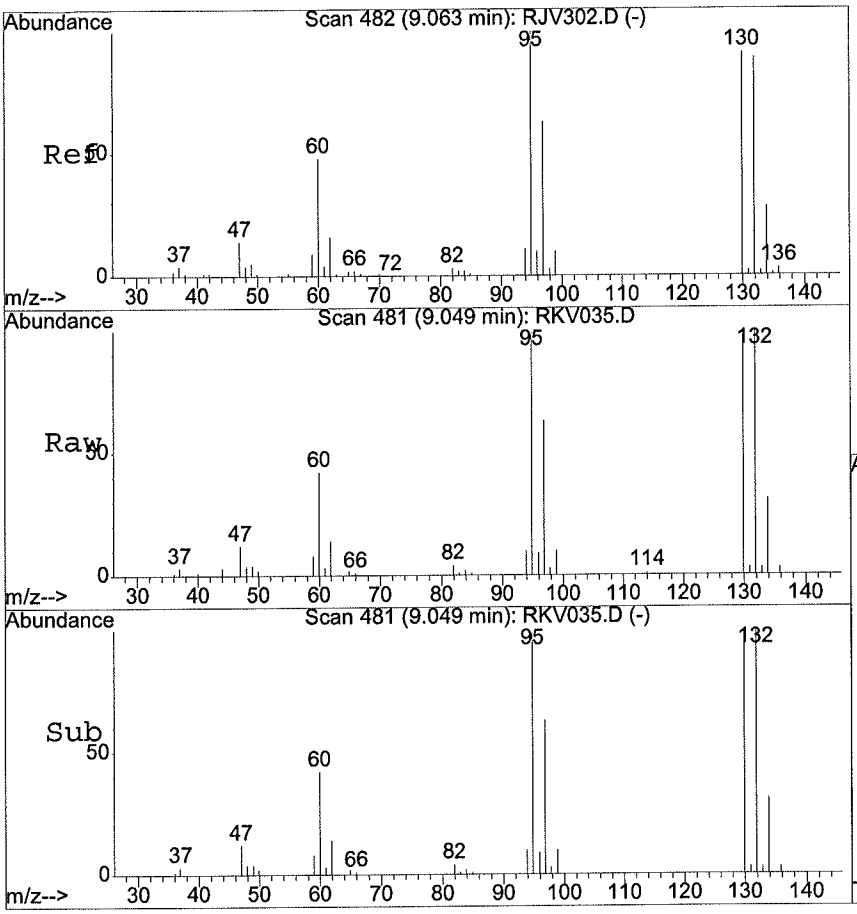


#30
cis-1,2-Dichloroethene
Concen: 1.02 ug/l
RT: 6.68 min Scan# 322
Delta R.T. -0.02 min
Lab File: RKV035.D
Acq: 4 Nov 2024 9:22 pm

Tgt Ion: 96 Resp: 24782

Ion	Ratio	Lower	Upper
96	100		
61	112.2	118.2	178.2#
98	62.8	35.6	95.6

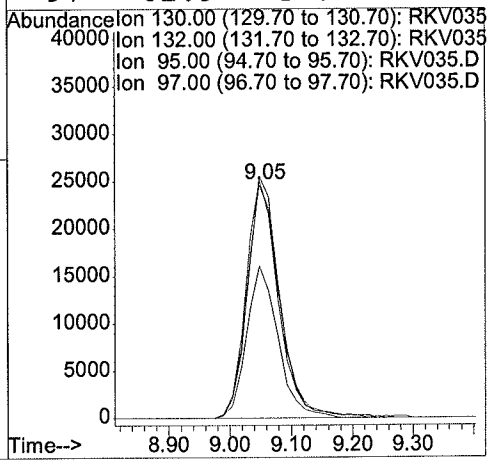


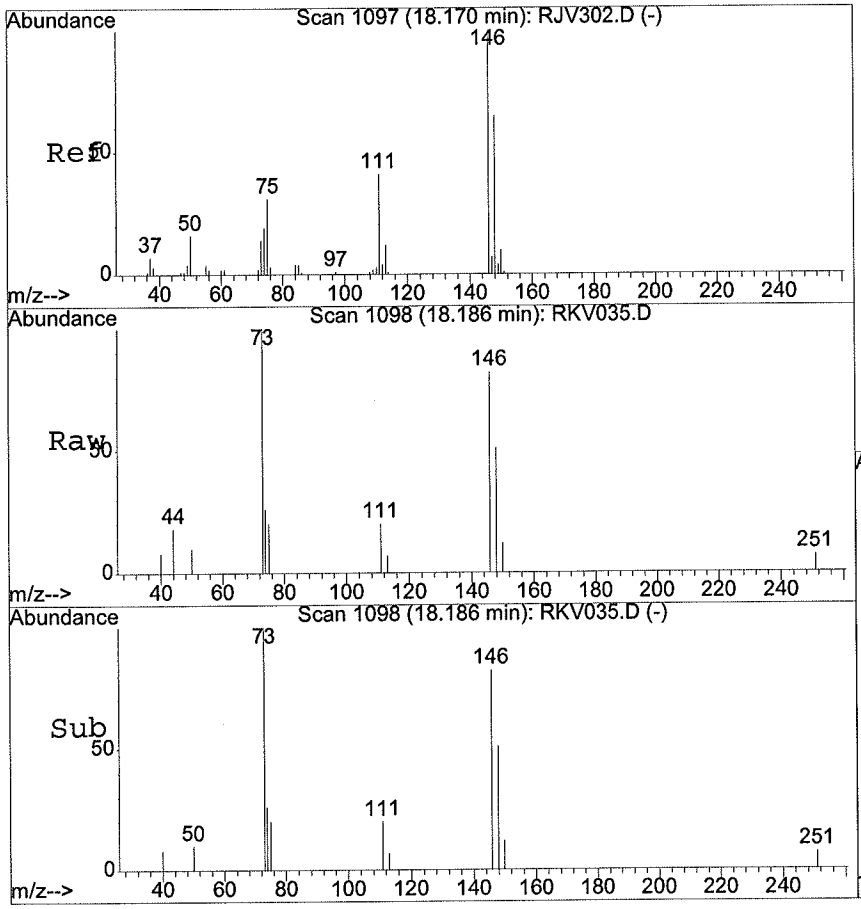


#44
Trichloroethene
Concen: 3.98 ug/l
RT: 9.05 min Scan# 481
Delta R.T. -0.01 min
Lab File: RKV035.D
Acq: 4 Nov 2024 9:22 pm

Tgt Ion:130 Resp: 91224

Ion	Ratio	Lower	Upper
130	100		
132	102.4	67.4	127.4
95	100.8	81.2	141.2
97	62.9	44.1	104.1

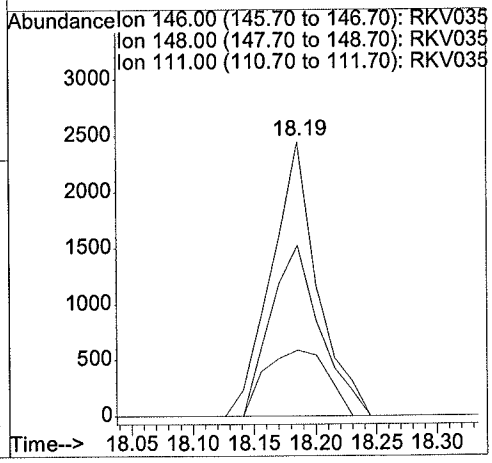




#89
1,4-Dichlorobenzene
Concen: 0.16 ug/l
RT: 18.19 min Scan# 1098
Delta R.T. 0.02 min
Lab File: RKV035.D
Acq: 4 Nov 2024 9:22 pm

Tgt Ion:146 Resp: 6370

Ion	Ratio	Lower	Upper
146	100		
148	67.3	35.2	95.2
111	32.4	10.3	70.3



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 13:42
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	11/04/24 21:51
Sample ID	: T1AMF-MW011_OCT24	Date Analyzed:	11/04/24 21:51
Lab Samp ID:	24J169-09	Dilution Factor:	1
Lab File ID:	RKV036	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	1.1	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	9.1	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	10.1	10.0	101	81-118
4-Bromofluorobenzene	9.76	10.0	98	85-114
Toluene-d8	10.6	10.0	106	89-112
Dibromofluoromethane	10.9	10.0	109	80-119

Notes:

Sample Amount	: 25ml	Final Volume	: 25ml
Prepared by	: DNguye	Analyzed by	: DNguye

Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV036.D Vial: 11
Acq On : 4 Nov 2024 9:51 pm Operator: DNguye/CLingl
Sample : 24J169-09 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

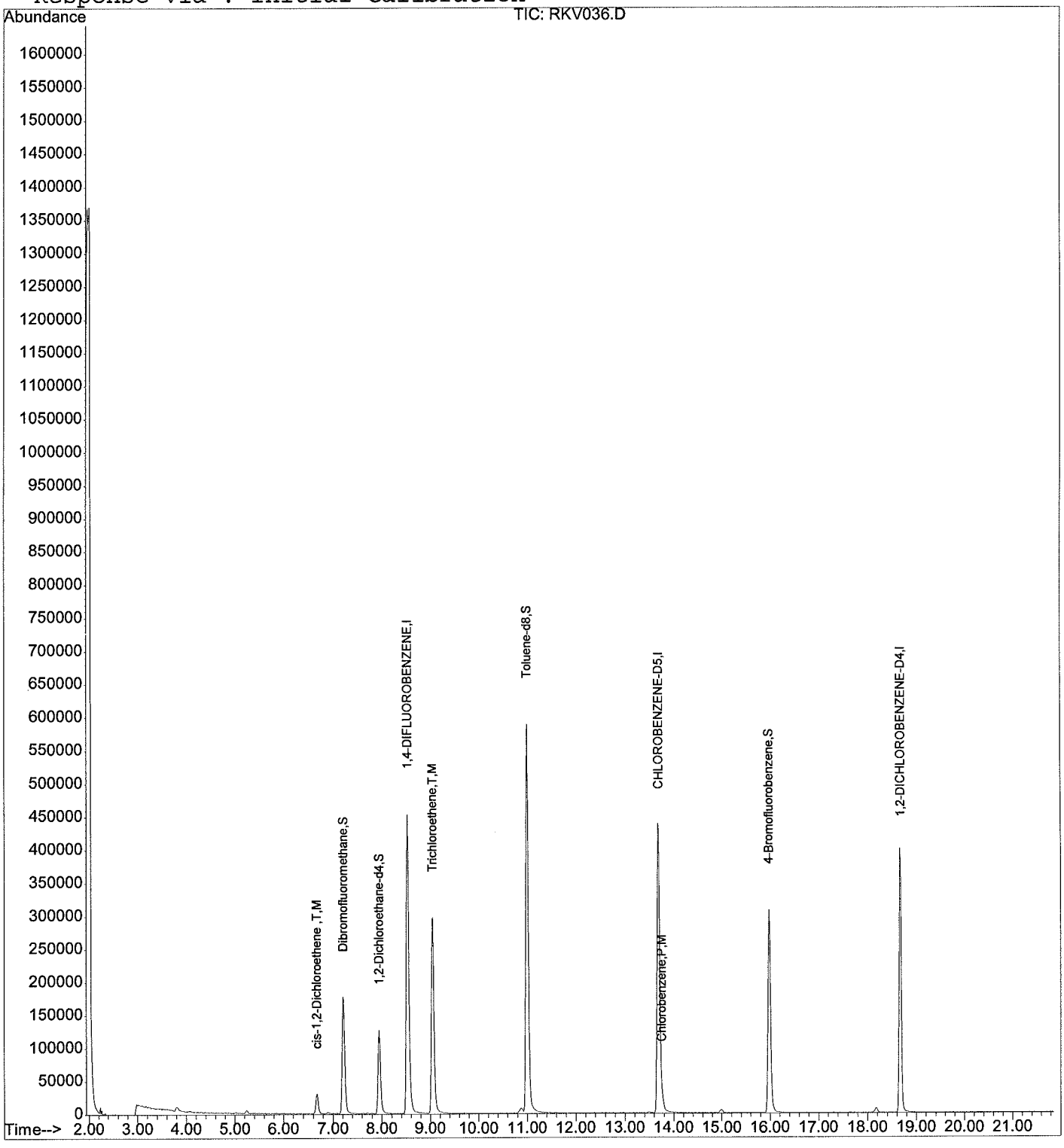
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.53	114	729581	10.00	ug/l	-0.01
53) CHLOROBENZENE-D5	13.70	117	550585	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	224377	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.21	111	206833	10.85	ug/l	-0.01
Spiked Amount 10.000			Recovery = 108.50%			
41) 1,2-Dichloroethane-d4	7.95	65	169815	10.12	ug/l	-0.01
Spiked Amount 10.000			Recovery = 101.20%			
54) Toluene-d8	11.00	98	798994	10.55	ug/l	-0.01
Spiked Amount 10.000			Recovery = 105.50%			
76) 4-Bromofluorobenzene	15.98	95	259164	9.76	ug/l	0.00
Spiked Amount 10.000			Recovery = 97.60%			
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	6.68	96	26663	1.14	ug/l	87
44) Trichloroethene	9.05	130	201740	9.13	ug/l	92
65) Chlorobenzene	13.76	112	18047	0.35	ug/l	95

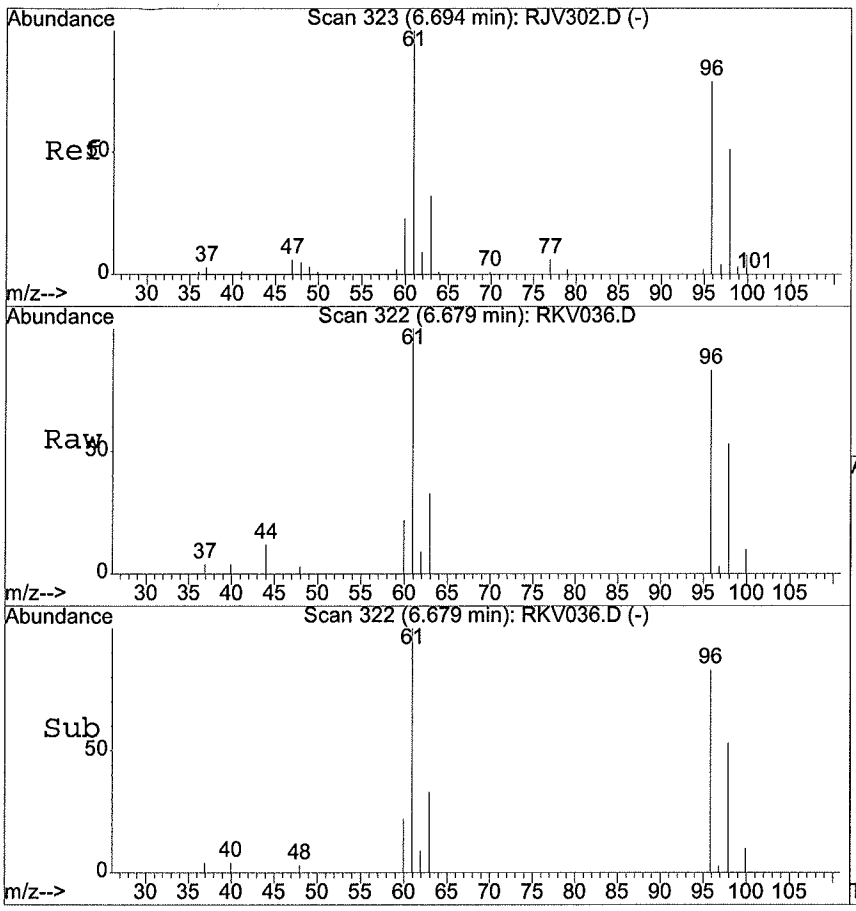
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV036.D Vial: 11
Acq On : 4 Nov 2024 9:51 pm Operator: DNguye/CLing
Sample : 24J169-09 Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:12 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

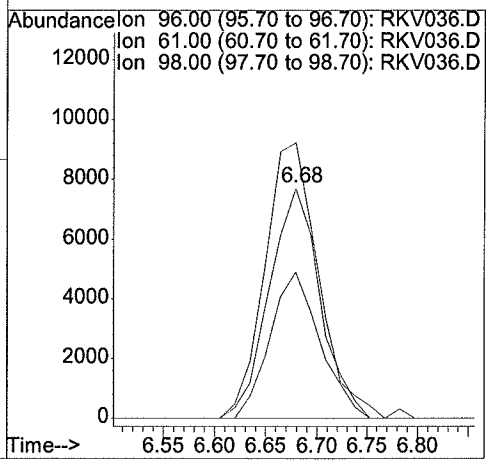


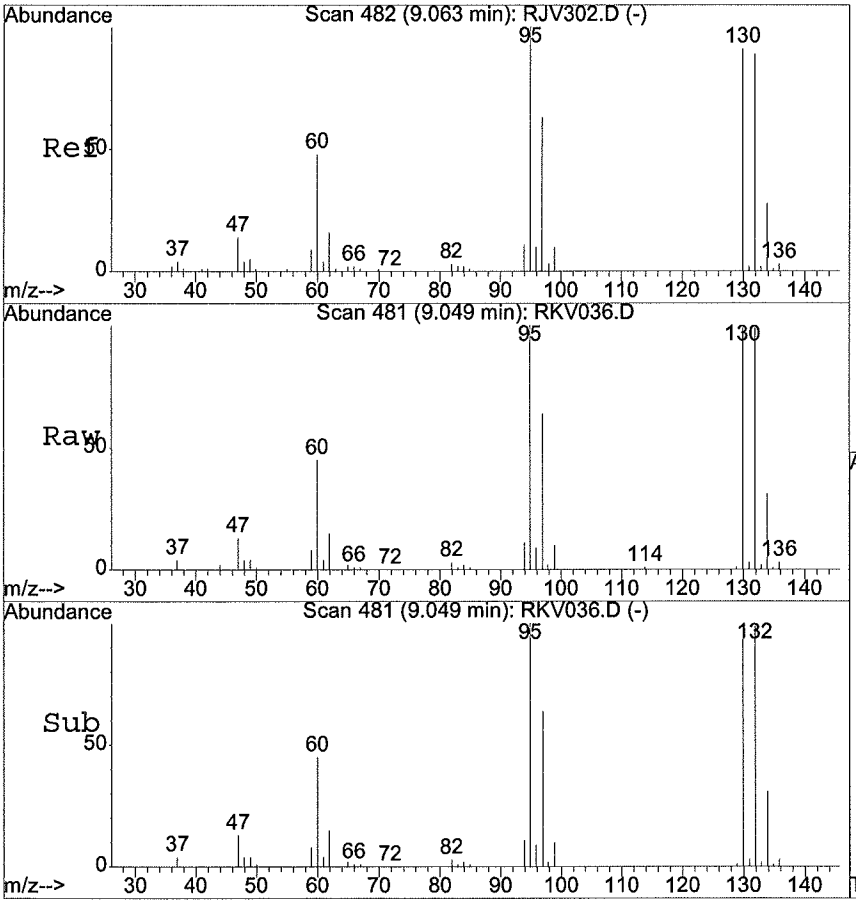


#30
cis-1,2-Dichloroethene
Concen: 1.14 ug/l
RT: 6.68 min Scan# 322
Delta R.T. -0.02 min
Lab File: RKV036.D
Acq: 4 Nov 2024 9:51 pm

Tgt Ion: 96 Resp: 26663

Ion	Ratio	Lower	Upper
96	100		
61	127.0	118.2	178.2
98	62.6	35.6	95.6

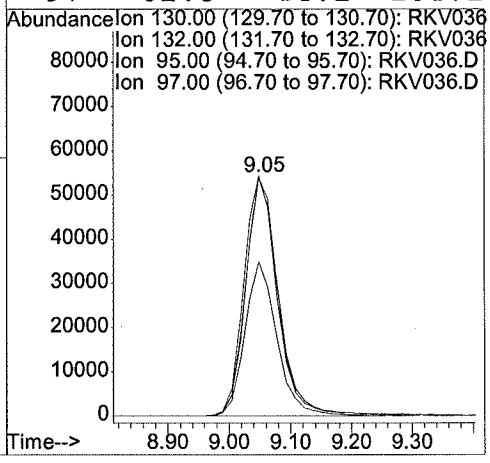


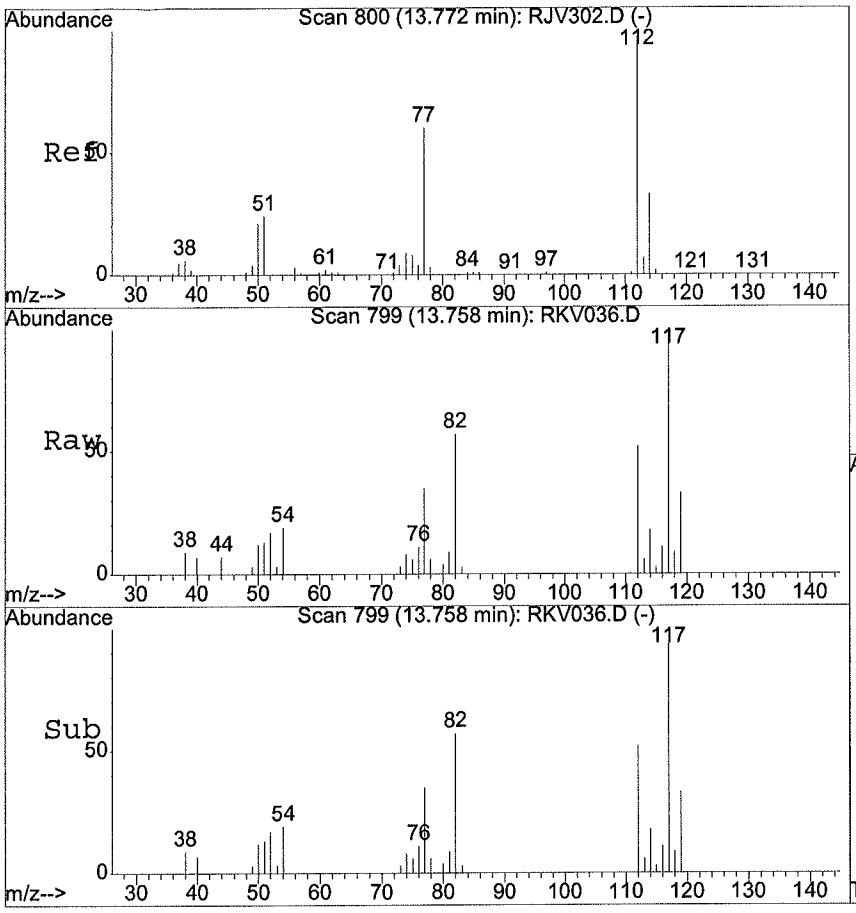


#44
Trichloroethene
Concen: 9.13 ug/l
RT: 9.05 min Scan# 481
Delta R.T. -0.01 min
Lab File: RKV036.D
Acq: 4 Nov 2024 9:51 pm

Tgt Ion:130 Resp: 201740

Ion	Ratio	Lower	Upper
130	100		
132	99.7	67.4	127.4
95	102.0	81.2	141.2
97	62.8	44.1	104.1

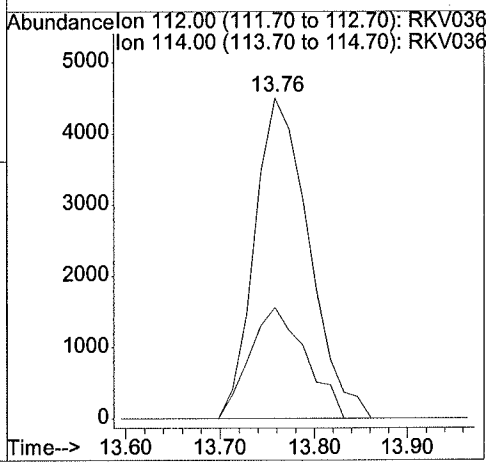




#65
Chlorobenzene
Concen: 0.35 ug/l
RT: 13.76 min Scan# 799
Delta R.T. -0.01 min
Lab File: RKV036.D
Acq: 4 Nov 2024 9:51 pm

Tgt Ion:112 Resp: 18047

Ion	Ratio	Lower	Upper
112	100		
114	35.7	2.8	62.8



METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/23/24 14:38
Project	: TITAN 1-A	Date Received:	10/28/24
Batch No.	: 24J169	Date Extracted:	11/04/24 22:20
Sample ID	: TiAMF-MW052_OCT24	Date Analyzed:	11/04/24 22:20
Lab Samp ID:	24J169-10	Dilution Factor:	1
Lab File ID:	RKV037	Matrix:	WATER
Ext Btch ID:	VO01K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	0.49J	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	0.38J	1.0	0.10	0.20
Trichloroethene	7.1	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	9.76	10.0	98	81-118
4-Bromofluorobenzene	9.95	10.0	100	85-114
Toluene-d8	10.9	10.0	109	89-112
Dibromofluoromethane	10.8	10.0	108	80-119

Notes:
Sample Amount : 25ml
Final Volume : 25ml
Prepared by : DNguye
Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV037.D
Acq On : 4 Nov 2024 10:20 pm
Sample : 24J169-10
Misc : 25mL
MS Integration Params: RTE.P
Quant Time: Nov 8 19:12 2024

Vial: 12
Operator: DNguye/CLingl
Inst : 01
Multiplr: 1.00
Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.53	114	752749	10.00	ug/l	-0.01
53) CHLOROBENZENE-D5	13.68	117	554536	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	18.67	152	224206	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.21	111	212532	10.81	ug/l	-0.01
Spiked Amount 10.000			Recovery = 108.10%			
41) 1,2-Dichloroethane-d4	7.95	65	169110	9.76	ug/l	-0.01
Spiked Amount 10.000			Recovery = 97.60%			
54) Toluene-d8	11.00	98	830127	10.89	ug/l	-0.01
Spiked Amount 10.000			Recovery = 108.90%			
76) 4-Bromofluorobenzene	15.98	95	264159	9.95	ug/l	0.00
Spiked Amount 10.000			Recovery = 99.50%			
Target Compounds						Qvalue
22) trans-1,2-Dichloroethene	5.24	61	12833	0.38	ug/l	96
30) cis-1,2-Dichloroethene	6.68	96	11984	0.49	ug/l	89
31) Chloroform	6.90	83	4091	0.10	ug/l	85
44) Trichloroethene	9.05	130	161880	7.10	ug/l	93

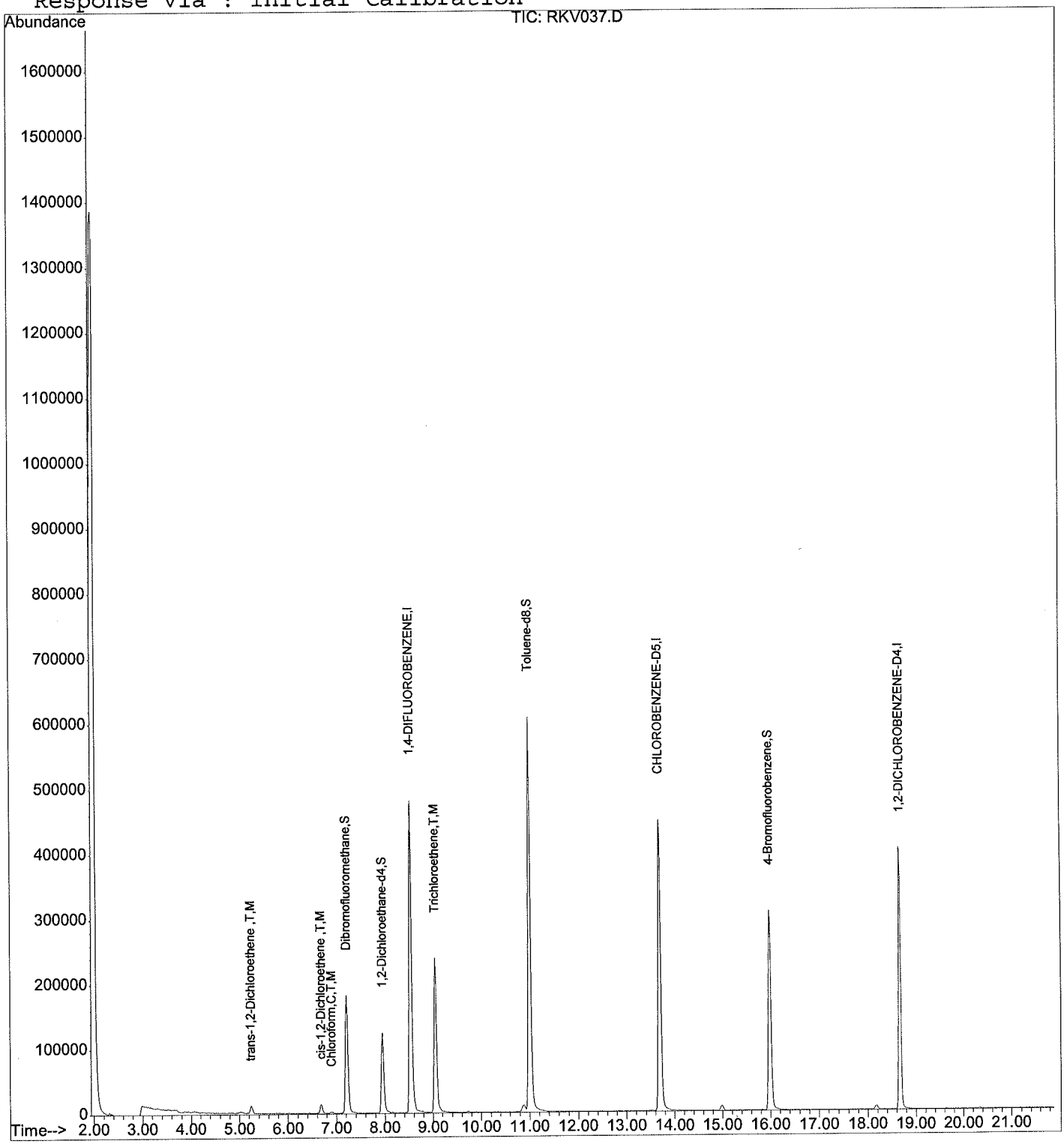
(#) = qualifier out of range (m) = manual integration

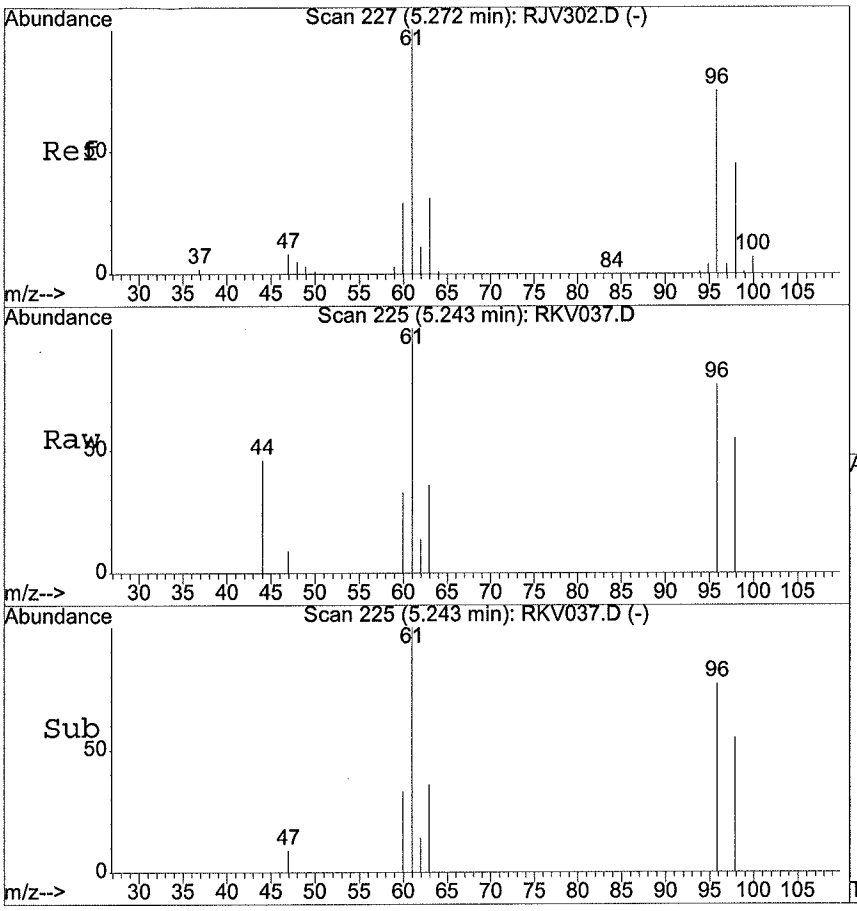
Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV037.D
Acq On : 4 Nov 2024 10:20 pm
Sample : 24J169-10
Misc : 25mL
MS Integration Params: RTE.P
Quant Time: Nov 8 19:12 2024

Vial: 12
Operator: DNguye/CLing
Inst : 01
Multiplr: 1.00
Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration

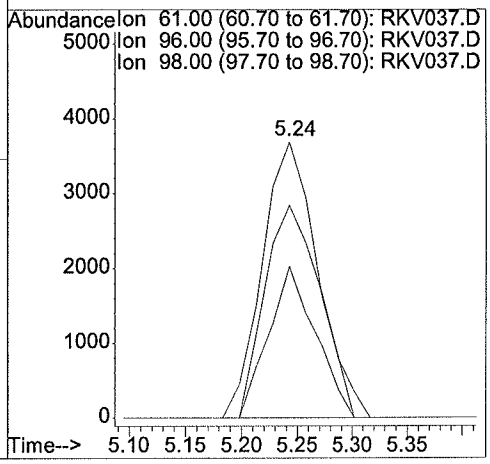


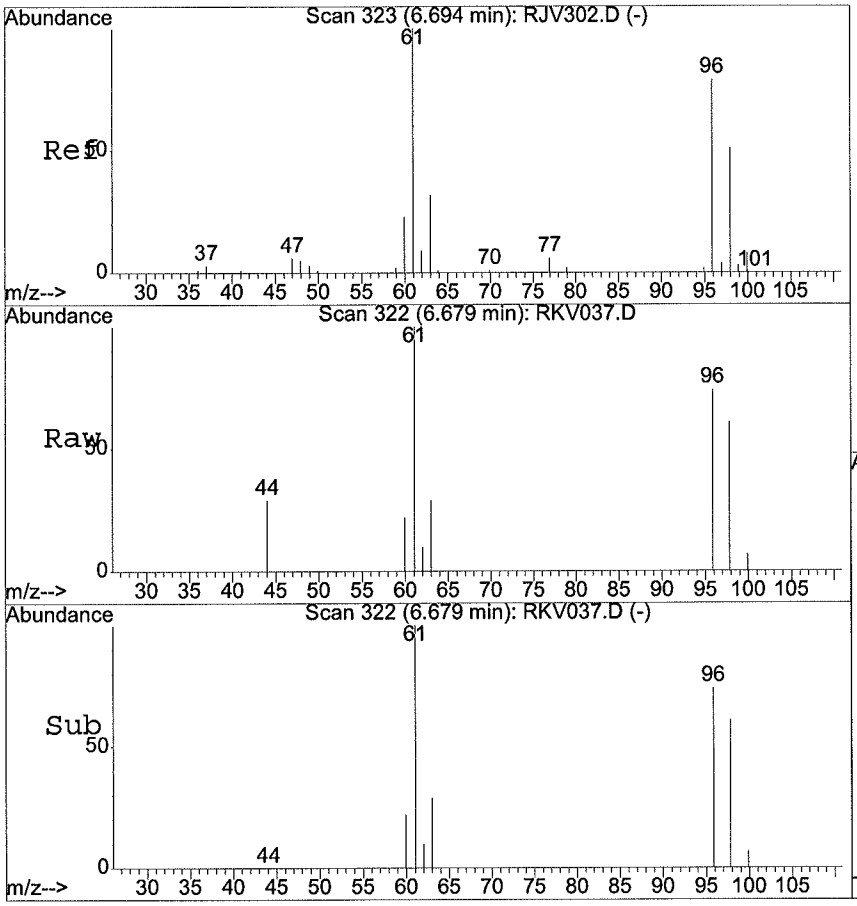


#22
trans-1,2-Dichloroethene
Concen: 0.38 ug/l
RT: 5.24 min Scan# 225
Delta R.T. -0.03 min
Lab File: RKV037.D
Acq: 4 Nov 2024 10:20 pm

Tgt Ion: 61 Resp: 12833

Ion	Ratio	Lower	Upper
61	100		
96	76.9	41.8	101.8
98	46.5	15.3	75.3

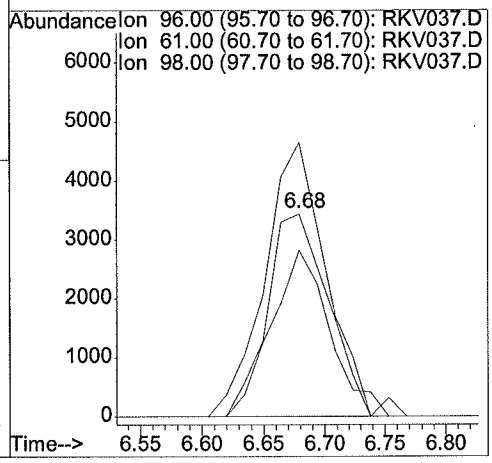


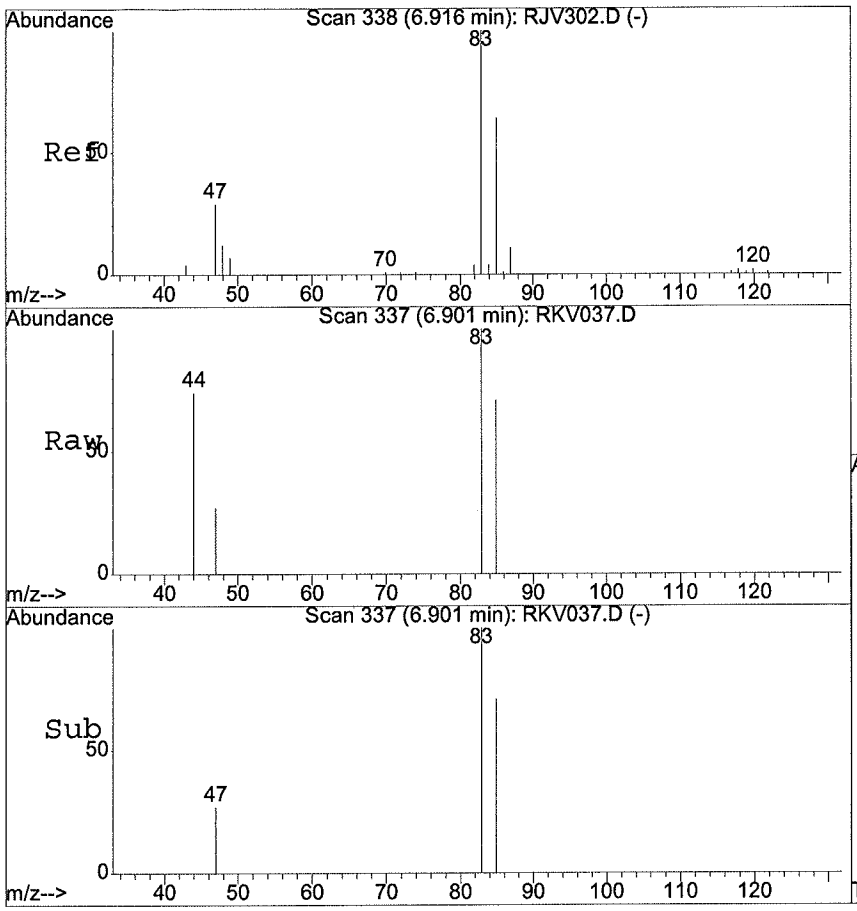


#30
cis-1,2-Dichloroethene
Concen: 0.49 ug/l
RT: 6.68 min Scan# 322
Delta R.T. -0.02 min
Lab File: RKV037.D
Acq: 4 Nov 2024 10:20 pm

Tgt Ion: 96 Resp: 11984

Ion	Ratio	Lower	Upper
96	100		
61	136.6	118.2	178.2
98	78.6	35.6	95.6

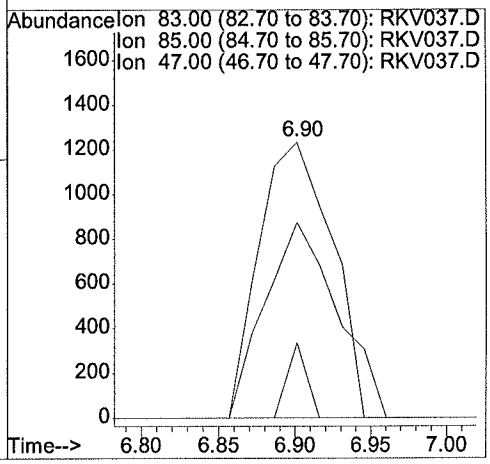


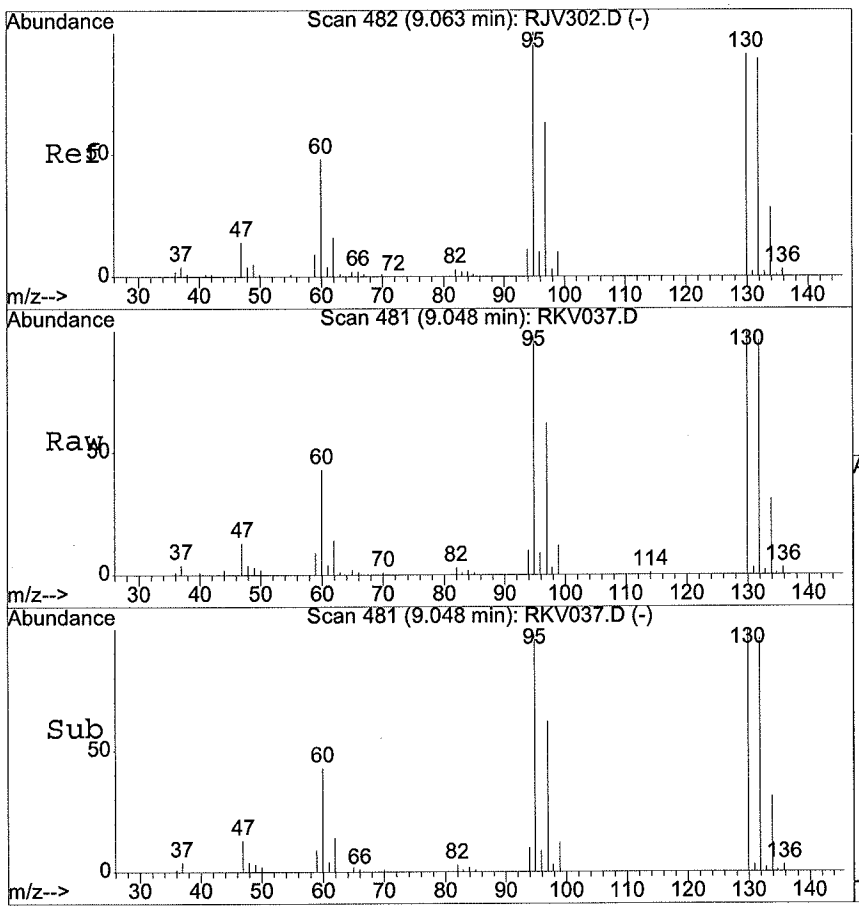


#31
Chloroform
Concen: 0.10 ug/l
RT: 6.90 min Scan# 337
Delta R.T. -0.02 min
Lab File: RKV037.D
Acq: 4 Nov 2024 10:20 pm

Tgt Ion: 83 Resp: 4091

Ion	Ratio	Lower	Upper
83	100		
85	70.9	37.8	97.8
47	7.3	0.0	59.1

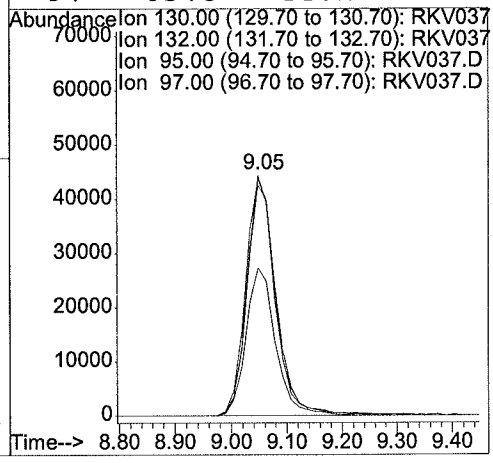




#44
Trichloroethene
Concen: 7.10 ug/l
RT: 9.05 min Scan# 481
Delta R.T. -0.01 min
Lab File: RKV037.D
Acq: 4 Nov 2024 10:20 pm

Tgt Ion:130 Resp: 161880

Ion	Ratio	Lower	Upper
130	100		
132	98.4	67.4	127.4
95	101.4	81.2	141.2
97	63.3	44.1	104.1



QC SUMMARIES

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	10/30/24 11:54
Project	: TITAN 1-A	Date Received:	10/30/24
Batch No.	: 24J169	Date Extracted:	10/30/24 11:54
Sample ID	: MBLK1W	Date Analyzed:	10/30/24 11:54
Lab Samp ID:	VO06J26B	Dilution Factor:	1
Lab File ID:	RIW546	Matrix:	WATER
Ext Btch ID:	VO06J26	% Moisture:	NA
Calib. Ref.:	RIW364	Instrument ID:	06

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	11.4	10.0	114	81-118
4-Bromofluorobenzene	9.71	10.0	97	85-114
Toluene-d8	9.30	10.0	93	89-112
Dibromofluoromethane	9.14	10.0	91	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : PMai Analyzed by : PMai
Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J169
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK1W	LCS1W	LCD1W
LAB SAMPLE ID	: V006J26B	V006J26L	V006J26C
LAB FILE ID	: RIW546	RIW543	RIW544
DATE PREPARED	: 10/30/24 11:54	10/30/24 10:23	10/30/24 10:49
DATE ANALYZED	: 10/30/24 11:54	10/30/24 10:23	10/30/24 10:49
PREP BATCH	: V006J26	V006J26	V006J26
CALIBRATION REF	: RIW364	RIW364	RIW364

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichloroethene	ND	10.0	8.57	86	10.0	11.1	111	26*	71-131	20
1,4-Dichlorobenzene	ND	10.0	8.80	88	10.0	10.6	106	19	79-118	20
Benzene	ND	10.0	8.85	89	10.0	10.7	107	19	79-120	20
cis-1,2-Dichloroethene	ND	10.0	8.08	81	10.0	9.75	98	19	78-123	20
Ethylbenzene	ND	10.0	8.75	88	10.0	11.1	111	24*	79-121	20
m,p-Xylene	ND	20.0	17.3	87	20.0	21.6	108	22*	80-121	20
o-Xylene	ND	10.0	8.62	86	10.0	10.9	109	23*	78-122	20
Toluene	ND	10.0	8.61	86	10.0	10.9	109	23*	80-121	20
Trans-1,2-Dichloroethene	ND	10.0	7.26	73*	10.0	9.32	93	25*	75-124	20
Trichloroethene	ND	10.0	7.62	76*	10.0	9.20	92	19	79-123	20
Vinyl Chloride	ND	10.0	9.44	94	10.0	8.77	88	7	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	10.8	108	10.0	10.4	104	81-118
4-Bromofluorobenzene	10.0	10.1	101	10.0	9.84	98	85-114
Toluene-d8	10.0	9.09	91	10.0	9.50	95	89-112
Dibromofluoromethane	10.0	9.02	90	10.0	8.66	87	80-119

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate
* Out of QC Limit

Revised Report

METHOD SW5030C/8260C
VOLATILE ORGANICS BY GC/MS

Client	: PARSONS	Date Collected:	11/04/24 19:26
Project	: TITAN 1-A	Date Received:	11/04/24
Batch No.	: 24J169	Date Extracted:	11/04/24 19:26
Sample ID	: MBLK2W	Date Analyzed:	11/04/24 19:26
Lab Samp ID:	V001K02B	Dilution Factor:	1
Lab File ID:	RKV031	Matrix:	WATER
Ext Btch ID:	V001K02	% Moisture:	NA
Calib. Ref.:	RJV302	Instrument ID:	01

PARAMETER(S)	RESULTS (ug/L)	LOQ (ug/L)	DL (ug/L)	LOD (ug/L)
1,1-Dichloroethene	ND	1.0	0.10	0.20
1,4-Dichlorobenzene	ND	1.0	0.10	0.20
Benzene	ND	1.0	0.10	0.20
cis-1,2-Dichloroethene	ND	1.0	0.10	0.20
Ethylbenzene	ND	1.0	0.10	0.20
m,p-Xylene	ND	2.0	0.21	0.50
o-Xylene	ND	1.0	0.10	0.20
Toluene	ND	1.0	0.10	0.20
Trans-1,2-Dichloroethene	ND	1.0	0.10	0.20
Trichloroethene	ND	1.0	0.10	0.20
Vinyl Chloride	ND	1.0	0.11	0.30

SURROGATE PARAMETER(S)	RESULT	SPK_AMT	%RECOVERY	QC LIMIT
1,2-Dichloroethane-d4	8.91	10.0	89	81-118
4-Bromofluorobenzene	10.1	10.0	101	85-114
Toluene-d8	10.9	10.0	109	89-112
Dibromofluoromethane	10.3	10.0	103	80-119

Notes:
Sample Amount : 25ml Final Volume : 25ml
Prepared by : DNguye Analyzed by : DNguye
Detection limits are reported relative to sample result significant figures.

EMAX QUALITY CONTROL DATA
LAB CONTROL SAMPLE ANALYSIS

CLIENT : PARSONS
PROJECT : TITAN 1-A
BATCH NO. : 24J169
METHOD : SW5030C/8260C

MATRIX	: WATER		% MOISTURE:NA
DILUTION FACTOR	: 1	1	1
SAMPLE ID	: MBLK2W	LCS2W	LCD2W
LAB SAMPLE ID	: VO01K02B	VO01K02L	VO01K02C
LAB FILE ID	: RKV031	RKV028	RKV029
DATE PREPARED	: 11/04/24 19:26	11/04/24 17:58	11/04/24 18:27
DATE ANALYZED	: 11/04/24 19:26	11/04/24 17:58	11/04/24 18:27
PREP BATCH	: VO01K02	VO01K02	VO01K02
CALIBRATION REF	: RJV302	RJV302	RJV302

ACCESSION:

PARAMETERS	MBResult (ug/L)	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	RPD (%)	QCLimit (%)	MaxRPD (%)
1,1-Dichloroethene	ND	10.0	9.72	97	10.0	10.0	100	3	71-131	20
1,4-Dichlorobenzene	ND	10.0	10.8	108	10.0	11.3	113	5	79-118	20
Benzene	ND	10.0	10.8	108	10.0	11.0	110	2	79-120	20
cis-1,2-Dichloroethene	ND	10.0	10.9	109	10.0	11.4	114	4	78-123	20
Ethylbenzene	ND	10.0	11.0	110	10.0	11.1	111	1	79-121	20
m,p-Xylene	ND	20.0	20.4	102	20.0	20.8	104	2	80-121	20
o-Xylene	ND	10.0	10.8	108	10.0	11.9	119	10	78-122	20
Toluene	ND	10.0	10.1	101	10.0	11.1	111	9	80-121	20
Trans-1,2-Dichloroethene	ND	10.0	9.91	99	10.0	10.1	101	2	75-124	20
Trichloroethene	ND	10.0	10.9	109	10.0	11.5	115	5	79-123	20
Vinyl Chloride	ND	10.0	9.50	95	10.0	10.0	100	5	58-137	20

SURROGATE PARAMETERS	SpikeAmt (ug/L)	LCSResult (ug/L)	LCSRec (%)	SpikeAmt (ug/L)	LCDResult (ug/L)	LCDRec (%)	QCLimit (%)
1,2-Dichloroethane-d4	10.0	9.38	94	10.0	9.37	94	81-118
4-Bromofluorobenzene	10.0	9.21	92	10.0	9.77	98	85-114
Toluene-d8	10.0	9.30	93	10.0	10.4	104	89-112
Dibromofluoromethane	10.0	10.3	103	10.0	10.5	105	80-119

MB: Method Blank sample LCS: Lab Control Sample LCD: Lab Control Sample Duplicate

QC DATA

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J30\RIW546.D Vial: 6
Acq On : 30 Oct 2024 11:54 am Operator: PMai
Sample : VO06J26B Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 31 9:33 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Oct 24 19:13:50 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4174173	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.33	117	3136989	10.00	ug/l	-0.01
74) 1,2-DICHLOROBENZENE-D4	19.27	152	1135377	10.00	ug/l	-0.01
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	934622	9.14	ug/l	0.00
Spiked Amount 10.000			Recovery = 91.40%			
42) 1,2-Dichloroethane-d4	8.94	65	809464	11.44	ug/l	-0.02
Spiked Amount 10.000			Recovery = 114.40%			
55) Toluene-d8	12.69	98	4032469	9.30	ug/l	0.00
Spiked Amount 10.000			Recovery = 93.00%			
77) 4-Bromofluorobenzene	17.35	95	1231063	10.16	ug/l	-0.03
Spiked Amount 10.000			Recovery = 101.60%			

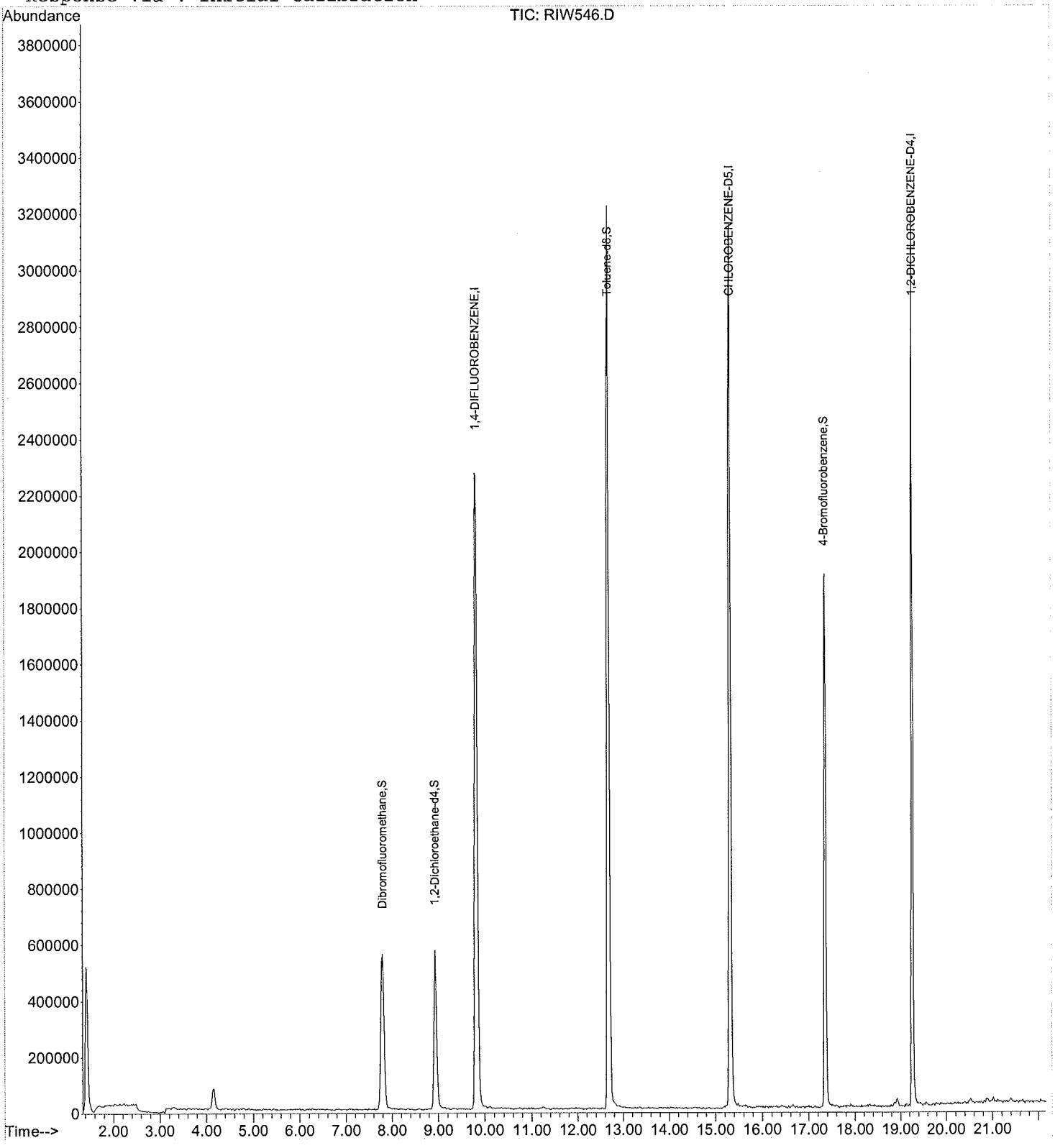
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW546.D Vial: 6
Acq On : 30 Oct 2024 11:54 am Operator: PMai
Sample : VO06J26B Inst : 06
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 31 9:33 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Oct 24 19:13:50 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J30\RIW543.D Vial: 3
Acq On : 30 Oct 2024 10:23 am Operator: PMai
Sample : VO06J26L Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Jan 28 15:30 2025 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	3982730	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.33	117	3087360	10.00	ug/l	-0.01
74) 1,2-DICHLOROBENZENE-D4	19.27	152	1050725	10.00	ug/l	-0.02
System Monitoring Compounds						
35) Dibromofluoromethane	7.79	111	879471	9.02	ug/l	-0.02
Spiked Amount 10.000			Recovery = 90.20%			
42) 1,2-Dichloroethane-d4	8.94	65	729988	10.81	ug/l	-0.02
Spiked Amount 10.000			Recovery = 108.10%			
55) Toluene-d8	12.69	98	3880449	9.09	ug/l	0.00
Spiked Amount 10.000			Recovery = 90.90%			
77) 4-Bromofluorobenzene	17.35	95	1182277	10.08	ug/l	-0.03
Spiked Amount 10.000			Recovery = 100.80%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.56	85	1341877	9.48	ug/l	99
3) Chloromethane	1.78	50	1374578	9.98	ug/l	100
4) Vinyl chloride	1.90	62	1041824	9.44	ug/l	100
5) Bromomethane	2.33	94	795029	7.92	ug/l	97
6) Chloroethane	2.41	64	643542	8.47	ug/l	99
7) Dichlorofluoromethane	2.45	67	1508243	8.10	ug/l	98
8) Trichlorofluoromethane	2.69	101	1417528	9.59	ug/l	98
9) Acrolein	3.20	56	393983	95.56	ug/l	96
10) 1,1,2-Trichloro-1,2,2-trif	3.24	151	500256	5.90	ug/l	96
11) Acetone	3.28	43	744947	60.44	ug/l	87
12) 1,1-Dichloroethene	3.43	61	1545171	8.57	ug/l	90
13) tert-Butyl alcohol	3.57	59	703963	206.63	ug/l	99
15) Methyl acetate	3.95	74	77163	9.21	ug/l	92
16) Iodomethane	3.87	142	1205966	6.53	ug/l	91
17) Allyl chloride	3.97	76	537569	7.45	ug/l	97
18) Methylene chloride	4.16	49	1448284	10.95	ug/l	80
19) Carbon disulfide	4.12	76	1464022	6.48	ug/l	96
20) Acrylonitrile	4.39	53	990513	60.24	ug/l	95
21) tert-Butyl methyl ether (M	4.43	73	1656957	8.62	ug/l	99
22) trans-1,2-Dichloroethene	4.64	96	980809	7.26	ug/l	100
23) Isopropyl ether (DIPE)	5.31	45	4076693	11.44	ug/l	86
24) Vinyl acetate	5.54	43	1465806	11.85	ug/l	93
25) 1,1-Dichloroethane	5.46	63	1875009	9.34	ug/l	97
26) 2-Butanol	6.02	45	1175562	344.11	ug/l	90
27) tert-Butyl ethyl ether (ET	6.19	59	2569029	9.75	ug/l	86
28) 2-Butanone	6.49	43	1479161	71.17	ug/l	89
29) 2,2-Dichloropropane	6.74	77	1157754	9.62	ug/l	94
30) cis-1,2-Dichloroethene	6.86	96	1053066	8.08	ug/l	97
31) Chloroform	7.26	83	1749241	8.72	ug/l	97
32) Bromochloromethane	7.64	130	385062	6.94	ug/l	99
33) Tetrahydrofuran	7.76	42	96502	8.10	ug/l	81
36) 1,1,1-Trichloroethane	8.18	97	1415335	8.85	ug/l	96
37) Cyclohexane	8.18	84	2288547	11.45	ug/l	99
39) 1,1-Dichloropropene	8.56	110	424779	7.21	ug/l	99
40) Carbon tetrachloride	8.73	119	1105337	8.47	ug/l	98
41) tert-Amyl methyl ether (TA	8.92	73	1986695	8.91	ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J30\RIW543.D Vial: 3
Acq On : 30 Oct 2024 10:23 am Operator: PMai
Sample : VO06J26L Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Jan 28 15:30 2025 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	867185	10.68	ug/l	99
44)	Benzene	9.13	78	4082898	8.85	ug/l	97
45)	Trichloroethene	10.40	130	929356	7.62	ug/l	92
46)	Methylcyclohexane	10.49	83	2846336	11.44	ug/l	87
47)	1,2-Dichloropropane	10.78	63	983739	9.80	ug/l	97
48)	1,4-Dioxane	11.33	88	47476	130.31	ug/l	86
49)	Bromodichloromethane	11.22	83	1198170	9.23	ug/l	97
50)	Dibromomethane	11.29	93	397163	8.18	ug/l	88
51)	2-Chloroethyl vinyl ether	11.91	63	254436	7.74	ug/l	100
52)	4-Methyl-2-pentanone	11.98	43	4369535	78.84	ug/l	91
53)	cis-1,3-Dichloropropene	12.29	75	1486987	9.55	ug/l	85
56)	Toluene	12.82	91	4409842	8.61	ug/l	99
57)	Ethyl methacrylate	13.28	69	720324	8.67	ug/l	77
58)	trans-1,3-Dichloropropene	13.21	75	1105598	9.18	ug/l	73
59)	1,1,2-Trichloroethane	13.46	97	526235	8.17	ug/l	96
60)	2-Hexanone	13.55	43	2789980	76.42	ug/l	87
61)	1,3-Dichloropropane	13.90	76	1013905	8.83	ug/l	98
62)	Tetrachloroethene	13.97	164	724343	6.66	ug/l	94
63)	Dibromochloromethane	14.32	129	576472	7.23	ug/l	100
65)	1,2-Dibromoethane	14.66	107	475838	8.09	ug/l	100
66)	1-Chlorohexane	15.02	91	1699147	8.14	ug/l	98
67)	Chlorobenzene	15.39	112	2412175	8.61	ug/l	98
68)	1,1,1,2-Tetrachloroethane	15.48	131	758086	8.02	ug/l	99
69)	Ethylbenzene	15.49	91	4836551	8.75	ug/l	98
70)	m-Xylene & p-Xylene	15.62	91	7164360	17.31	ug/l	94
71)	o-Xylene	16.35	91	3595747	8.62	ug/l	96
72)	Styrene	16.42	104	2591137	8.69	ug/l	96
73)	Isopropylbenzene	16.96	105	4704270	8.70	ug/l	97
75)	Bromoform	16.96	173	232420	7.09	ug/l	98
76)	1,1,2,2-Tetrachloroethane	17.26	83	556405	9.74	ug/l	98
78)	1,2,3-Trichloropropane	17.48	110	125410	8.57	ug/l	90
79)	trans-1,4-Dichloro-2-buten	17.58	53	133106	9.83	ug/l	88
80)	n-Propylbenzene	17.58	91	5868603	10.01	ug/l	96
81)	Bromobenzene	17.62	156	773046	8.26	ug/l	98
82)	1,3,5-Trimethylbenzene	17.80	105	3695376	10.12	ug/l	95
83)	2-Chlorotoluene	17.82	91	3849769	10.89	ug/l	90
84)	4-Chlorotoluene	17.88	91	2991394	9.86	ug/l	97
85)	tert-Butylbenzene	18.27	134	736842	9.07	ug/l	89
86)	1,2,4-Trimethylbenzene	18.31	105	3576461	10.01	ug/l	95
87)	sec-Butylbenzene	18.52	105	5099623	10.03	ug/l	95
88)	p-Isopropyltoluene	18.69	119	3955183	9.83	ug/l	96
89)	1,3-Dichlorobenzene	18.78	146	1651211	9.07	ug/l	96
90)	1,2,3-Trimethylbenzene	18.87	105	3245073	10.28	ug/l	97
91)	1,4-Dichlorobenzene	18.91	146	1546690	8.80	ug/l	96
92)	n-Butylbenzene	19.13	91	3984433	10.06	ug/l	97
93)	1,2-Dichlorobenzene	19.30	146	1307766	8.81	ug/l	100
94)	1,2-Dibromo-3-chloropropan	20.07	157	58984	6.61	ug/l	93
95)	1,2,4-Trichlorobenzene	20.89	180	729784	8.47	ug/l	99
96)	Hexachlorobutadiene	21.02	225	440306	8.52	ug/l	97
97)	Naphthalene	21.15	128	1014428	8.40	ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J30\RIW543.D Vial: 3
Acq On : 30 Oct 2024 10:23 am Operator: PMai
Sample : VO06J26L Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Jan 28 15:30 2025 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

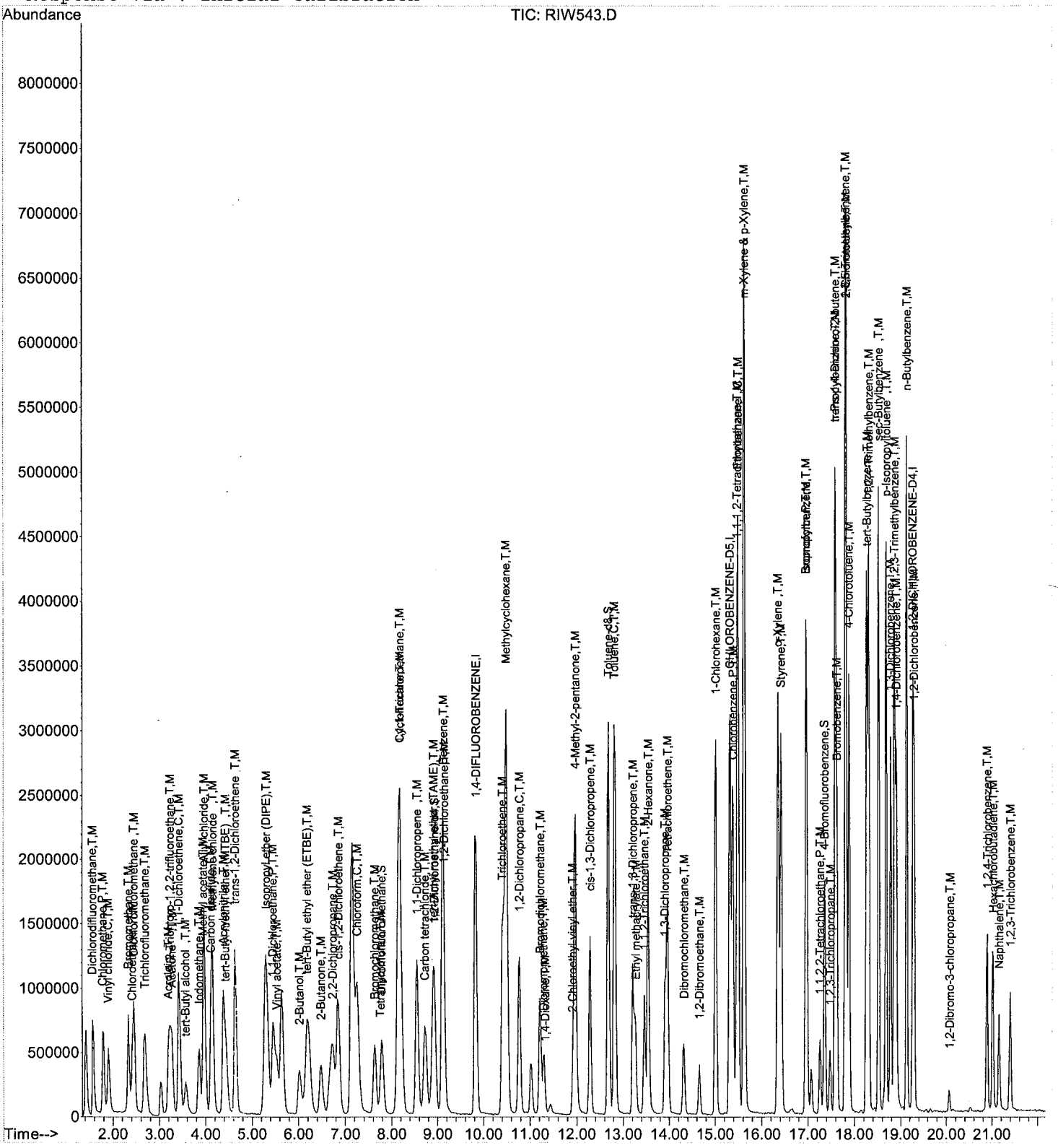
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	1,2,3-Trichlorobenzene	21.40	180	506326	7.80	ug/l	97

(#) = qualifier out of range (m) = manual integration
RIW543.D VO06J19.M Thu Jan 30 13:02:12 2025

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW543.D Vial: 3
Acq On : 30 Oct 2024 10:23 am Operator: PMai
Sample : VO06J26L Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Jan 28 15:30 2025 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J30\RIW544.D Vial: 4
Acq On : 30 Oct 2024 10:49 am Operator: PMai
Sample : VO06J26C Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Jan 28 15:31 2025 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	3377723	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.32	117	2482469	10.00	ug/l	-0.01
74) 1,2-DICHLOROBENZENE-D4	19.27	152	861465	10.00	ug/l	-0.02
System Monitoring Compounds						
35) Dibromofluoromethane	7.78	111	716143	8.66	ug/l	-0.02
Spiked Amount 10.000			Recovery = 86.60%			
42) 1,2-Dichloroethane-d4	8.94	65	593585	10.36	ug/l	-0.02
Spiked Amount 10.000			Recovery = 103.60%			
55) Toluene-d8	12.69	98	3259646	9.50	ug/l	0.00
Spiked Amount 10.000			Recovery = 95.00%			
77) 4-Bromofluorobenzene	17.36	95	946263	9.84	ug/l	-0.01
Spiked Amount 10.000			Recovery = 98.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.56	85	1009956	8.41	ug/l	96
3) Chloromethane	1.78	50	1046108	8.96	ug/l	99
4) Vinyl chloride	1.90	62	820772	8.77	ug/l	97
5) Bromomethane	2.33	94	619905	7.28	ug/l	95
6) Chloroethane	2.41	64	466786	7.24	ug/l	83
7) Dichlorofluoromethane	2.45	67	1626581	10.30	ug/l	100
8) Trichlorofluoromethane	2.69	101	1023088	8.16	ug/l	97
9) Acrolein	3.19	56	315507	90.23	ug/l	95
10) 1,1,2-Trichloro-1,2,2-trif	3.24	151	577880	8.04	ug/l	99
11) Acetone	3.28	43	568928	54.42	ug/l	91
12) 1,1-Dichloroethene	3.43	61	1703186	11.14	ug/l	90
13) tert-Butyl alcohol	3.57	59	556421	192.57	ug/l	97
15) Methyl acetate	3.95	74	73501	10.35	ug/l	85
16) Iodomethane	3.87	142	1303126	8.31	ug/l	90
17) Allyl chloride	3.97	76	589097	9.62	ug/l	100
18) Methylene chloride	4.14	49	1464540	13.06	ug/l	81
19) Carbon disulfide	4.12	76	1391450	7.27	ug/l	98
20) Acrylonitrile	4.39	53	770492	55.25	ug/l	96
21) tert-Butyl methyl ether (M	4.43	73	1523787	9.35	ug/l	98
22) trans-1,2-Dichloroethene	4.64	96	1067766	9.32	ug/l	100
23) Isopropyl ether (DIPE)	5.31	45	3972294	13.14	ug/l	86
24) Vinyl acetate	5.54	43	1042455	9.94	ug/l	93
25) 1,1-Dichloroethane	5.46	63	1915078	11.25	ug/l	99
26) 2-Butanol	6.02	45	1003711	346.43	ug/l	90
27) tert-Butyl ethyl ether (ET	6.21	59	2451162	10.97	ug/l	88
28) 2-Butanone	6.49	43	1078428	61.18	ug/l	87
29) 2,2-Dichloropropane	6.74	77	1260171	12.35	ug/l	95
30) cis-1,2-Dichloroethene	6.84	96	1077187	9.75	ug/l	100
31) Chloroform	7.26	83	1751856	10.30	ug/l	97
32) Bromochloromethane	7.64	130	383302	8.14	ug/l	100
33) Tetrahydrofuran	7.76	42	91756	9.09	ug/l	83
36) 1,1,1-Trichloroethane	8.18	97	1493524	11.01	ug/l	95
37) Cyclohexane	8.16	84	2498700	14.74	ug/l	98
39) 1,1-Dichloropropene	8.56	110	451867	9.04	ug/l	99
40) Carbon tetrachloride	8.73	119	1170426	10.58	ug/l	98
41) tert-Amyl methyl ether (TA	8.92	73	1812827	9.58	ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J30\RIW544.D Vial: 4
Acq On : 30 Oct 2024 10:49 am Operator: PMai
Sample : VO06J26C Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Jan 28 15:31 2025 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) 1,2-Dichloroethane	9.15	62	828554	12.03	ug/l	96
44) Benzene	9.13	78	4190308	10.71	ug/l	97
45) Trichloroethene	10.40	130	951206	9.20	ug/l	90
46) Methylcyclohexane	10.49	83	3052536	14.47	ug/l	88
47) 1,2-Dichloropropane	10.78	63	976387	11.46	ug/l	95
48) 1,4-Dioxane	11.33	88	41220	133.40	ug/l	90
49) Bromodichloromethane	11.22	83	1174198	10.66	ug/l	97
50) Dibromomethane	11.28	93	383236	9.31	ug/l	90
51) 2-Chloroethyl vinyl ether	11.91	63	241681	8.67	ug/l	99
52) 4-Methyl-2-pentanone	11.98	43	3270874	69.59	ug/l	89
53) cis-1,3-Dichloropropene	12.29	75	1456352	11.03	ug/l	86
56) Toluene	12.81	91	4498262	10.92	ug/l	99
57) Ethyl methacrylate	13.28	69	658891	9.86	ug/l	76
58) trans-1,3-Dichloropropene	13.21	75	1047235	10.81	ug/l	78
59) 1,1,2-Trichloroethane	13.46	97	499283	9.64	ug/l	96
60) 2-Hexanone	13.55	43	1966994	67.01	ug/l	89
61) 1,3-Dichloropropane	13.90	76	945308	10.24	ug/l	97
62) Tetrachloroethene	13.97	164	748709	8.56	ug/l	94
63) Dibromochloromethane	14.32	129	551027	8.60	ug/l	99
65) 1,2-Dibromoethane	14.66	107	429142	9.07	ug/l	94
66) 1-Chlorohexane	15.02	91	1745084	10.39	ug/l	93
67) Chlorobenzene	15.39	112	2414768	10.72	ug/l	96
68) 1,1,1,2-Tetrachloroethane	15.48	131	754198	9.92	ug/l	98
69) Ethylbenzene	15.49	91	4947775	11.13	ug/l	96
70) m-Xylene & p-Xylene	15.62	91	7196442	21.62	ug/l	96
71) o-Xylene	16.35	91	3642801	10.86	ug/l	96
72) Styrene	16.41	104	2555696	10.66	ug/l	98
73) Isopropylbenzene	16.96	105	4736907	10.89	ug/l	98
75) Bromoform	16.96	173	208961	7.77	ug/l	98
76) 1,1,2,2-Tetrachloroethane	17.26	83	499974	10.67	ug/l	97
78) 1,2,3-Trichloropropane	17.48	110	112800	9.41	ug/l	96
79) trans-1,4-Dichloro-2-buten	17.58	53	134637	12.12	ug/l	81
80) n-Propylbenzene	17.58	91	6020249	12.53	ug/l	95
81) Bromobenzene	17.62	156	732143	9.54	ug/l	99
82) 1,3,5-Trimethylbenzene	17.80	105	3656365	12.21	ug/l	96
83) 2-Chlorotoluene	17.82	91	3755056	12.96	ug/l	88
84) 4-Chlorotoluene	17.88	91	2902324	11.66	ug/l	100
85) tert-Butylbenzene	18.27	134	735680	11.04	ug/l	88
86) 1,2,4-Trimethylbenzene	18.31	105	3574794	12.20	ug/l	94
87) sec-Butylbenzene	18.52	105	5190206	12.44	ug/l	95
88) p-Isopropyltoluene	18.69	119	3891815	11.80	ug/l	96
89) 1,3-Dichlorobenzene	18.78	146	1570789	10.52	ug/l	96
90) 1,2,3-Trimethylbenzene	18.87	105	3085716	11.92	ug/l	96
91) 1,4-Dichlorobenzene	18.91	146	1522231	10.56	ug/l	96
92) n-Butylbenzene	19.13	91	4097518	12.62	ug/l	96
93) 1,2-Dichlorobenzene	19.30	146	1261788	10.37	ug/l	99
94) 1,2-Dibromo-3-chloropropan	20.07	157	47339	6.47	ug/l	96
95) 1,2,4-Trichlorobenzene	20.89	180	663417	9.40	ug/l	98
96) Hexachlorobutadiene	21.02	225	423931	10.07	ug/l	96
97) Naphthalene	21.15	128	903941	9.13	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J30\RIW544.D Vial: 4
Acq On : 30 Oct 2024 10:49 am Operator: PMai
Sample : VO06J26C Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Jan 28 15:31 2025 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

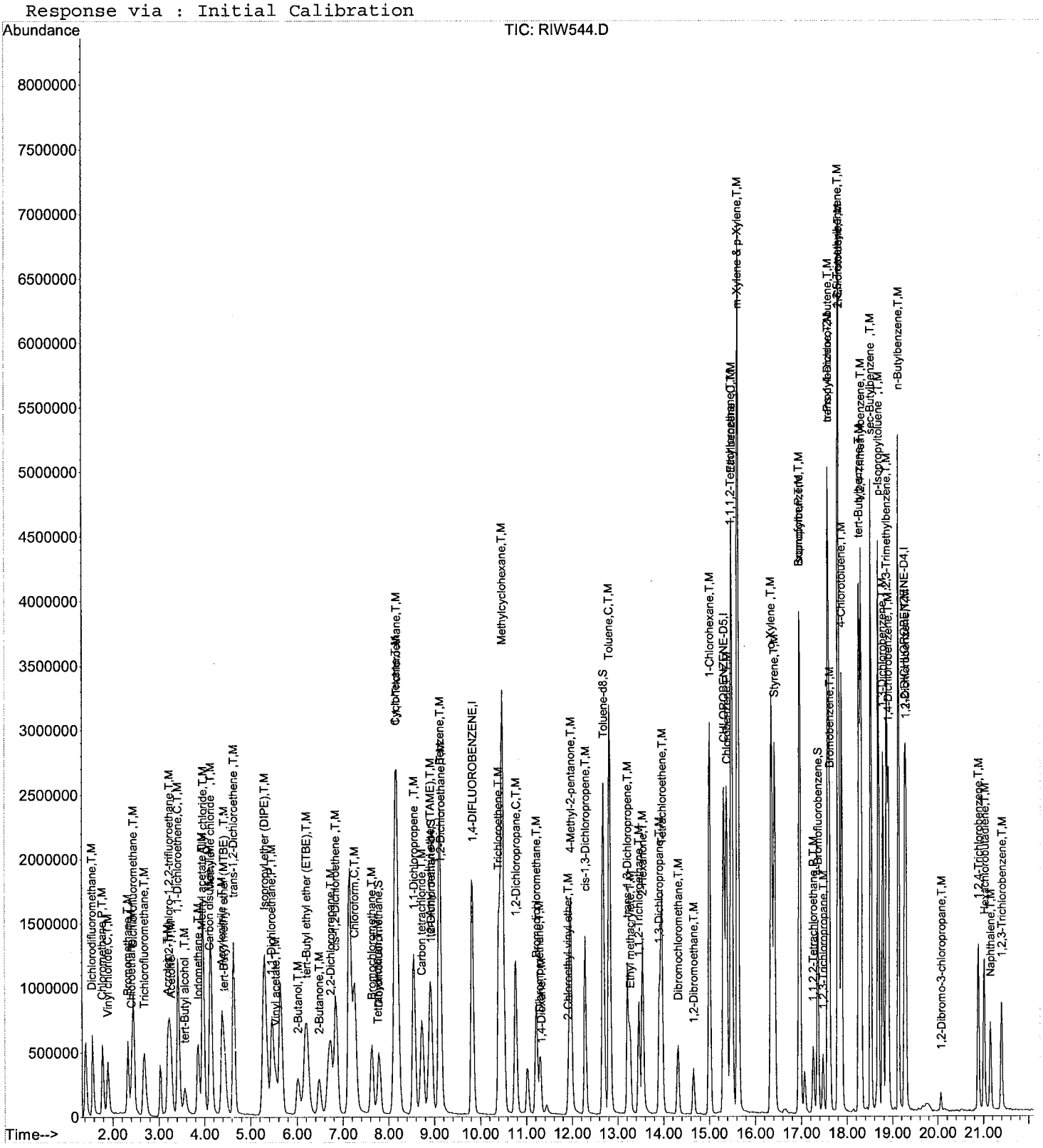
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.40	180	449074	8.44	ug/l	99

(#) = qualifier out of range (m) = manual integration
RIW544.D VO06J19.M Thu Jan 30 13:02:24 2025 Revised Report

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW544.D Vial: 4
Acq On : 30 Oct 2024 10:49 am Operator: PMai
Sample : VO06J26C Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Jan 28 15:31 2025 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV031.D Vial: 6
Acq On : 4 Nov 2024 7:26 pm Operator: DNguye/CLingl
Sample : VO01K02B Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:07 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	957179	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	709126	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	274730	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	256428	10.26	ug/l	0.00
Spiked Amount 10.000			Recovery = 102.60%			
41) 1,2-Dichloroethane-d4	7.95	65	196309	8.91	ug/l	-0.01
Spiked Amount 10.000			Recovery = 89.10%			
54) Toluene-d8	11.00	98	1058201	10.85	ug/l	-0.01
Spiked Amount 10.000			Recovery = 108.50%			
76) 4-Bromofluorobenzene	15.98	95	328560	10.10	ug/l	0.00
Spiked Amount 10.000			Recovery = 101.00%			

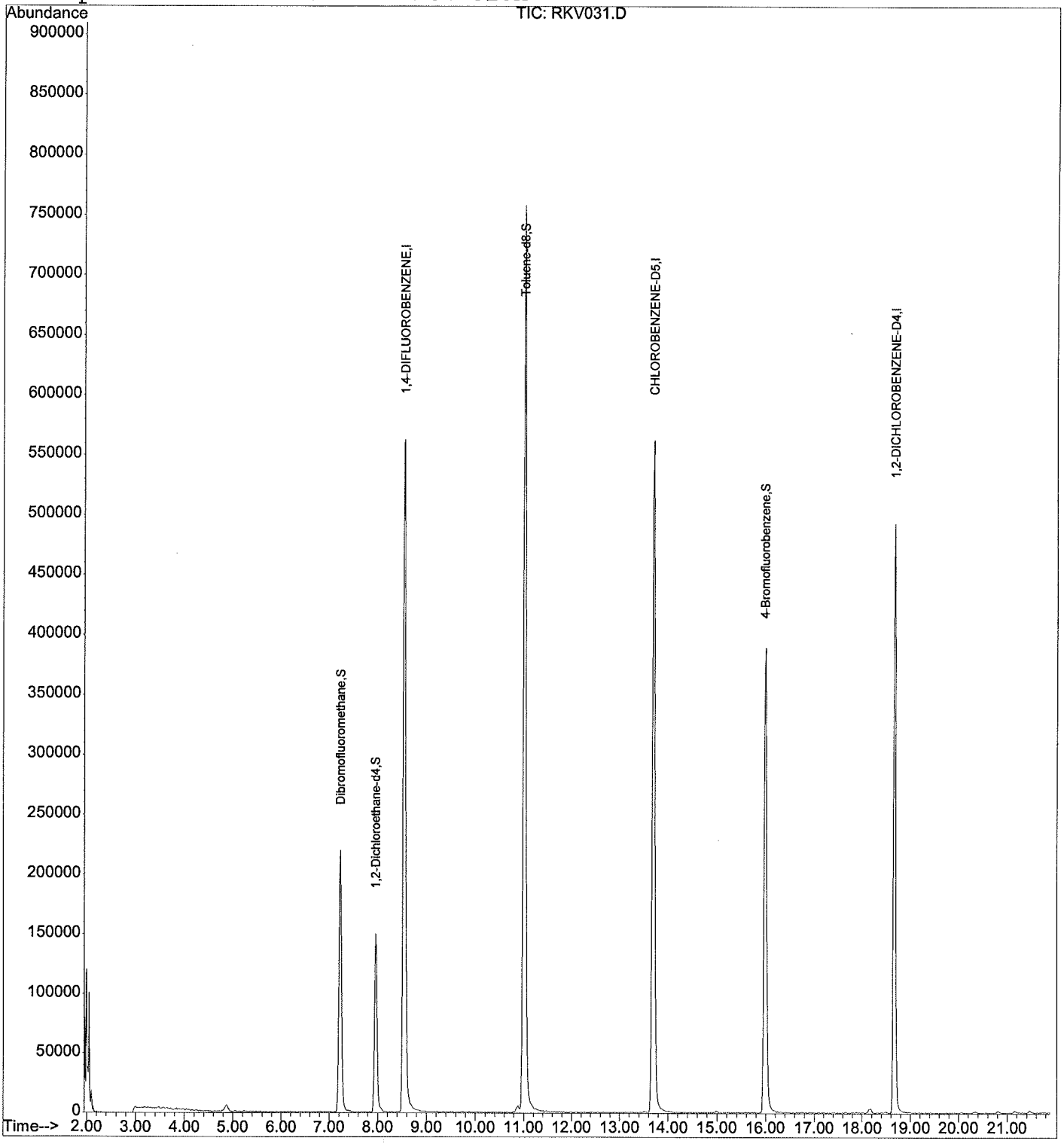
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV031.D Vial: 6
Acq On : 4 Nov 2024 7:26 pm Operator: DNguye/CLing
Sample : VO01K02B Inst : 01
Misc : 25mL Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 8 19:07 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV028.D Vial: 3
Acq On : 4 Nov 2024 5:58 pm Operator: DNguye/CLingl
Sample : VO01K02L Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:45 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.53	114	947008	10.00	ug/l		-0.01
53) CHLOROBENZENE-D5	13.68	117	785265	10.00	ug/l		-0.01
72) 1,2-DICHLOROBENZENE-D4	18.67	152	362450	10.00	ug/l		0.00
System Monitoring Compounds							
34) Dibromofluoromethane	7.21	111	253804	10.26	ug/l		-0.01
Spiked Amount 10.000			Recovery = 102.60%				
41) 1,2-Dichloroethane-d4	7.95	65	204398	9.38	ug/l		-0.01
Spiked Amount 10.000			Recovery = 93.80%				
54) Toluene-d8	11.00	98	1004556	9.30	ug/l		-0.01
Spiked Amount 10.000			Recovery = 93.00%				
76) 4-Bromofluorobenzene	15.98	95	395091	9.21	ug/l		0.00
Spiked Amount 10.000			Recovery = 92.10%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	2.18	85	325753	8.37	ug/l		98
5) Chloromethane	2.48	50	269285	9.17	ug/l		99
6) Vinyl chloride	2.62	62	246037	9.50	ug/l		100
7) Bromomethane	3.15	94	202064m	10.82	ug/l		
8) Chloroethane	3.23	64	197671	10.07	ug/l		92
9) Dichlorofluoromethane	3.29	67	393656	10.95	ug/l		99
10) Trichlorofluoromethane	3.55	101	426449	10.12	ug/l		97
11) Acrolein	3.98	56	42647	58.90	ug/l		76
12) 1,1,2-Trichloro-1,2,2-trif	4.09	151	210442	12.14	ug/l		98
13) Acetone	4.06	43	191405	54.74	ug/l		90
14) 1,1-Dichloroethene	4.22	61	429397	9.72	ug/l		84
15) tert-Butyl alcohol	4.34	59	233953	267.41	ug/l		98
16) Iodomethane	4.64	142	418904	11.16	ug/l		94
17) Methyl acetate	4.65	43	93664	10.38	ug/l		95
18) Methylene chloride	4.86	49	314594	9.88	ug/l		90
19) Carbon disulfide	4.87	76	963608	10.43	ug/l		100
20) Acrylonitrile	5.04	53	190502	57.99	ug/l		99
21) tert-Butyl methyl ether (M	5.05	73	486776	11.13	ug/l		95
22) trans-1,2-Dichloroethene	5.24	61	420658	9.91	ug/l		95
23) Isopropyl ether (DIPE)	5.66	45	892239	10.04	ug/l		93
24) Vinyl acetate	5.82	43	278155	9.78	ug/l		94
25) 1,1-Dichloroethane	5.82	63	523384	10.52	ug/l		100
26) 2-Butanol	6.15	45	241413	329.31	ug/l	#	82
27) tert-Butyl ethyl ether (ET	6.23	59	677102	10.48	ug/l		96
28) 2-Butanone	6.41	43	285902	53.32	ug/l		94
29) 2,2-Dichloropropane	6.62	77	464559	10.91	ug/l		99
30) cis-1,2-Dichloroethene	6.68	96	332789	10.92	ug/l		95

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV028.D Vial: 3
Acq On : 4 Nov 2024 5:58 pm Operator: DNguye/CLingl
Sample : VO01K02L Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:45 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.90	83	539356	10.64	ug/l		97
32)	Bromochloromethane	7.14	49	186231	9.88	ug/l		84
33)	Tetrahydrofuran	7.20	42	31352	10.52	ug/l		96
35)	1,1,1-Trichloroethane	7.48	97	464819	10.21	ug/l		98
36)	Cyclohexane	7.51	84	456400	9.71	ug/l		100
37)	2,2,4-Trimethylpentane	7.49	57	20022	8.81	ug/l	#	100
38)	1,1-Dichloropropene	7.72	110	144719	10.49	ug/l		98
39)	Carbon tetrachloride	7.86	119	365198	10.59	ug/l		98
40)	tert-Amyl methyl ether (TA	7.88	73	515611	10.39	ug/l		99
42)	Benzene	8.12	78	1166836	10.76	ug/l		98
43)	1,2-Dichloroethane	8.09	62	248649	10.29	ug/l		99
44)	Trichloroethene	9.05	130	313725	10.94	ug/l		93
45)	Methylcyclohexane	9.14	83	542231	9.76	ug/l		96
46)	1,2-Dichloropropane	9.33	63	258504	10.59	ug/l		99
47)	Bromodichloromethane	9.72	83	364361	10.91	ug/l		100
48)	1,4-Dioxane	9.76	88	19240	206.24	ug/l		99
49)	Dibromomethane	9.80	93	110617	10.44	ug/l		92
50)	2-Chloroethyl vinyl ether	10.22	63	24754	13.19	ug/l		96
51)	4-Methyl-2-pentanone	10.25	43	642038	53.55	ug/l		94
52)	cis-1,3-Dichloropropene	10.60	75	403432	11.03	ug/l		96
55)	Toluene	11.14	91	1261069	10.13	ug/l		99
56)	Ethyl methacrylate	11.43	69	195997	10.99	ug/l		89
57)	trans-1,3-Dichloropropene	11.46	75	303862	10.78	ug/l		97
58)	1,1,2-Trichloroethane	11.73	97	167311	10.92	ug/l		99
59)	2-Hexanone	11.73	43	416851	51.19	ug/l		91
60)	1,3-Dichloropropane	12.17	76	341323	11.83	ug/l		100
61)	Tetrachloroethene	12.28	164	305263	11.35	ug/l		97
62)	Dibromochloromethane	12.65	129	222374	12.18	ug/l		100
63)	1,2-Dibromoethane	13.00	107	169695	11.69	ug/l		97
64)	1-Chlorohexane	13.28	91	605138	10.41	ug/l		99
65)	Chlorobenzene	13.76	112	831815	11.16	ug/l		99
66)	1,1,1,2-Tetrachloroethane	13.83	131	278647	12.25	ug/l		100
67)	Ethylbenzene	13.86	91	1616698	10.98	ug/l		98
68)	m-Xylene & p-Xylene	13.99	91	2372783	20.40	ug/l		98
69)	o-Xylene	14.81	91	1244736	10.84	ug/l		99
70)	Styrene	14.88	104	947615	11.28	ug/l		99
71)	Isopropylbenzene	15.49	105	1692433	10.85	ug/l		99
73)	Bromoform	15.53	173	108759	10.44	ug/l		100
74)	trans-1,4-Dichloro-2-buten	15.61	53	51599	9.25	ug/l		90
75)	1,1,2,2-Tetrachloroethane	15.83	83	204019	10.66	ug/l		98
77)	1,2,3-Trichloropropane	16.13	110	56507	10.52	ug/l		94

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV028.D Vial: 3
Acq On : 4 Nov 2024 5:58 pm Operator: DNguye/CLingl
Sample : VO01K02L Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:45 2024 Quant Results File: VO01J12.RES

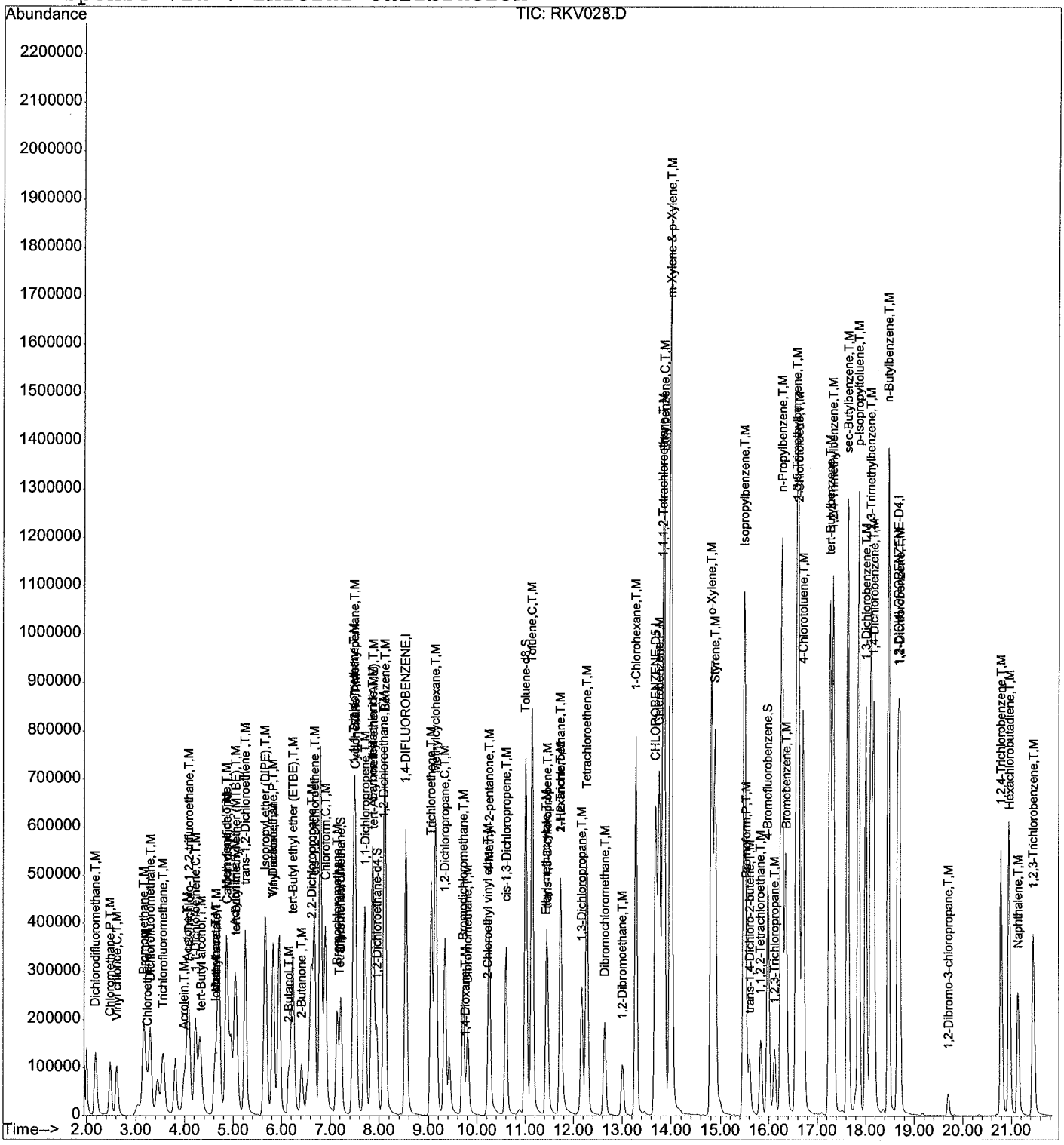
Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.28	91	2166508	10.09	ug/l	97
79)	Bromobenzene	16.36	156	367772	11.83	ug/l	99
80)	1,3,5-Trimethylbenzene	16.57	105	1343427	10.12	ug/l	97
81)	2-Chlorotoluene	16.62	91	1308453	10.03	ug/l	94
82)	4-Chlorotoluene	16.70	91	1151886	9.90	ug/l	94
83)	tert-Butylbenzene	17.27	134	333480	11.14	ug/l	92
84)	1,2,4-Trimethylbenzene	17.33	105	1322111	10.18	ug/l	97
85)	sec-Butylbenzene	17.64	105	1896449	10.14	ug/l	96
86)	p-Isopropyltoluene	17.86	119	1457079	9.99	ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	706338	11.30	ug/l	97
88)	1,2,3-Trimethylbenzene	18.11	105	1175545	9.94	ug/l	97
89)	1,4-Dichlorobenzene	18.17	146	669061	10.77	ug/l	96
90)	n-Butylbenzene	18.47	91	1436365	9.00	ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	572950	11.24	ug/l	99
92)	1,2-Dibromo-3-chloropropan	19.71	157	29348	11.48	ug/l	96
93)	1,2,4-Trichlorobenzene	20.79	180	383952	11.13	ug/l	99
94)	Hexachlorobutadiene	20.97	225	252963	11.44	ug/l	100
95)	Naphthalene	21.15	128	466465	10.98	ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	286129	11.44	ug/l	99

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV028.D Vial: 3
Acq On : 4 Nov 2024 5:58 pm Operator: DNguye/CLing
Sample : VO01K02L Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:45 2024 Quant Results File: VO01J12.RES

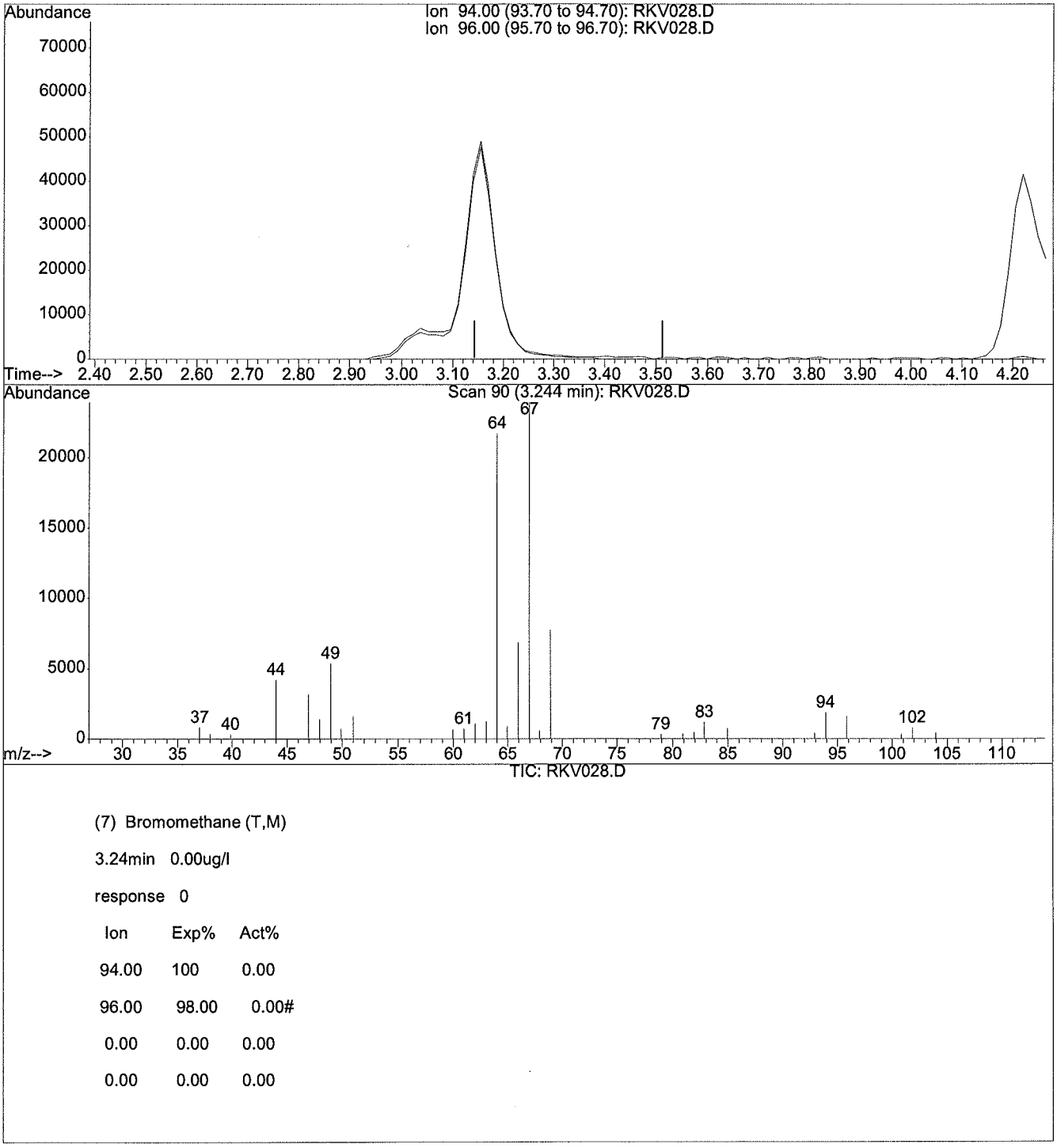
Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\24K04\RKV028.D Vial: 3
Acq On : 4 Nov 2024 5:58 pm Operator: DNguye/CLi
Sample : VO01K02L Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 4 18:20 2024 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration



(7) Bromomethane (T,M)

3.24min 0.00ug/l

response 0

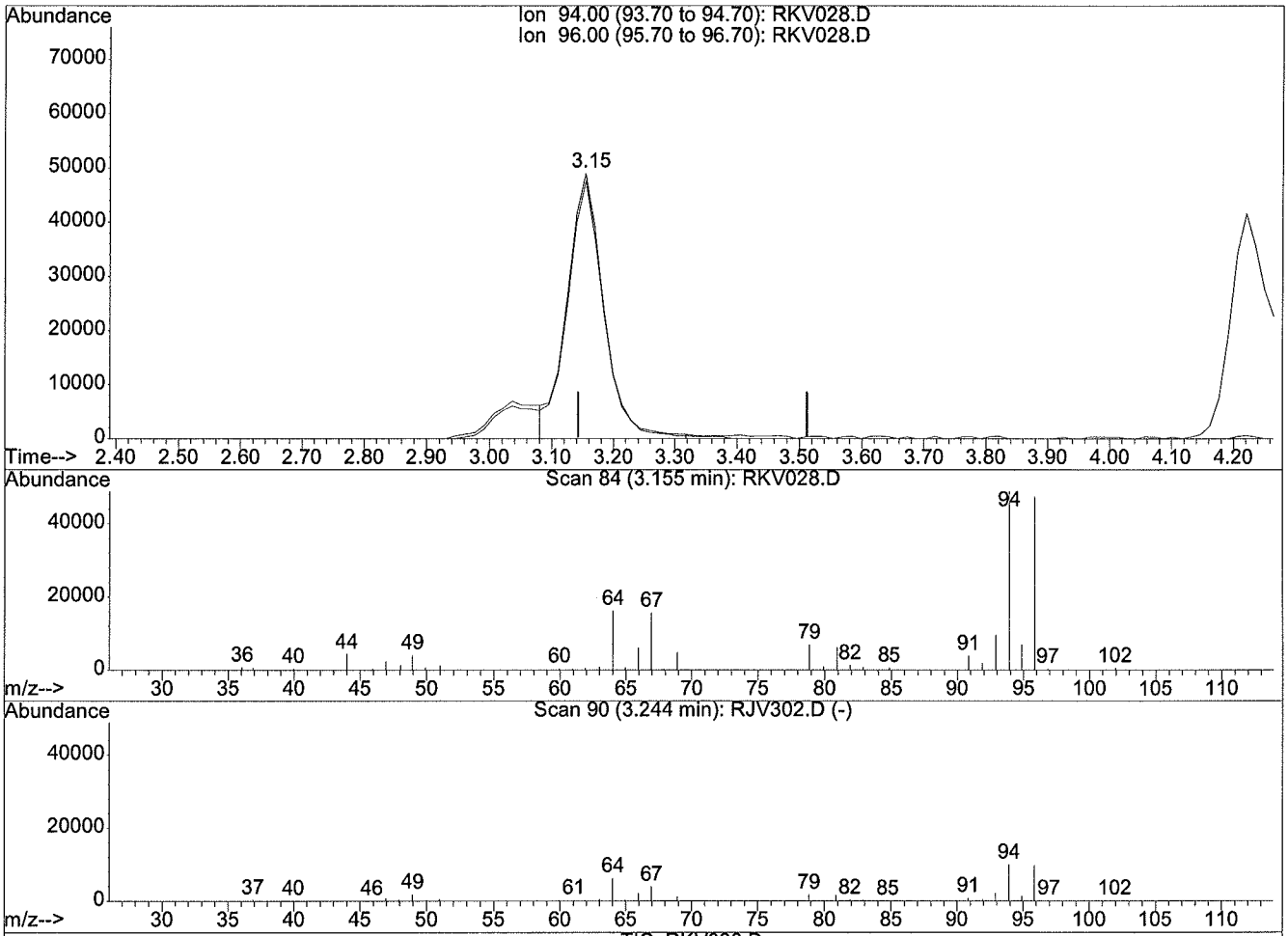
Ion	Exp%	Act%
94.00	100	0.00
96.00	98.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

RKV028.D VO01J12.M Wed Nov 06 17:45:14 2024

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\24K04\RKV028.D Vial: 3
Acq On : 4 Nov 2024 5:58 pm Operator: DNguye/CLi
Sample : VO01K02L Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:45 2024 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration



TIC: RKV028.D

(7) Bromomethane (T,M)

3.15min 10.82ug/l m

response 202064

Ion	Exp%	Act%
94.00	100	100
96.00	98.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

☐ Incorrect Retention Time
☑ Incorrect Baseline
☐ Incorrect Integration
☐ Other

Initials CL 11/6/24

12/11/24

RKV028.D VO01J12.M Wed Nov 06 17:45:37 2024

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV029.D Vial: 4
Acq On : 4 Nov 2024 6:27 pm Operator: DNguye/CLingl
Sample : VO01K02C Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:46 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	893647	10.00	ug/l		0.00
53) CHLOROBENZENE-D5	13.70	117	696021	10.00	ug/l		0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	351155	10.00	ug/l		0.00
System Monitoring Compounds							
34) Dibromofluoromethane	7.21	111	245397	10.51	ug/l		-0.01
Spiked Amount 10.000			Recovery = 105.10%				
41) 1,2-Dichloroethane-d4	7.95	65	192725	9.37	ug/l		-0.01
Spiked Amount 10.000			Recovery = 93.70%				
54) Toluene-d8	11.00	98	991849	10.36	ug/l		-0.01
Spiked Amount 10.000			Recovery = 103.60%				
76) 4-Bromofluorobenzene	15.98	95	406332	9.77	ug/l		0.00
Spiked Amount 10.000			Recovery = 97.70%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	2.19	85	323989	8.83	ug/l		99
5) Chloromethane	2.49	50	265907	9.60	ug/l		99
6) Vinyl chloride	2.62	62	244473	10.01	ug/l		100
7) Bromomethane	3.17	94	201676m	11.45	ug/l		
8) Chloroethane	3.23	64	191261	10.33	ug/l		92
9) Dichlorofluoromethane	3.30	67	379640	11.19	ug/l		97
10) Trichlorofluoromethane	3.57	101	407370	10.25	ug/l		98
11) Acrolein	3.98	56	44665	65.37	ug/l		95
12) 1,1,2-Trichloro-1,2,2-trif	4.09	151	212281	12.97	ug/l		97
13) Acetone	4.07	43	181840	55.10	ug/l		89
14) 1,1-Dichloroethene	4.22	61	418821	10.05	ug/l		81
15) tert-Butyl alcohol	4.34	59	225844	273.56	ug/l		95
16) Iodomethane	4.64	142	422102	11.92	ug/l		93
17) Methyl acetate	4.67	43	85389	10.03	ug/l		91
18) Methylene chloride	4.86	49	301911	10.05	ug/l		88
19) Carbon disulfide	4.87	76	899490	10.31	ug/l		100
20) Acrylonitrile	5.04	53	185945	59.99	ug/l		98
21) tert-Butyl methyl ether (M	5.05	73	476460	11.54	ug/l		95
22) trans-1,2-Dichloroethene	5.24	61	402466	10.05	ug/l		94
23) Isopropyl ether (DIPE)	5.67	45	863571	10.30	ug/l		92
24) Vinyl acetate	5.84	43	267534	9.97	ug/l		93
25) 1,1-Dichloroethane	5.82	63	517008	11.01	ug/l		99
26) 2-Butanol	6.15	45	228536	330.35	ug/l	#	85
27) tert-Butyl ethyl ether (ET	6.23	59	655141	10.75	ug/l		96
28) 2-Butanone	6.41	43	268724	53.11	ug/l		92
29) 2,2-Dichloropropane	6.62	77	454637	11.32	ug/l		99
30) cis-1,2-Dichloroethene	6.68	96	328409	11.42	ug/l		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV029.D Vial: 4
Acq On : 4 Nov 2024 6:27 pm Operator: DNguye/CLingl
Sample : VO01K02C Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:46 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Chloroform	6.90	83	525466	10.98 ug/l		97
32)	Bromochloromethane	7.14	49	179514	10.09 ug/l		83
33)	Tetrahydrofuran	7.20	42	26955	9.59 ug/l		98
35)	1,1,1-Trichloroethane	7.48	97	462457	10.76 ug/l		98
36)	Cyclohexane	7.51	84	448537	10.12 ug/l		100
37)	2,2,4-Trimethylpentane	7.49	57	20429	9.52 ug/l	#	100
38)	1,1-Dichloropropene	7.72	110	146590	11.27 ug/l		99
39)	Carbon tetrachloride	7.86	119	359393	11.05 ug/l		99
40)	tert-Amyl methyl ether (TA	7.88	73	495155	10.57 ug/l		99
42)	Benzene	8.12	78	1124015	10.98 ug/l		97
43)	1,2-Dichloroethane	8.09	62	243160	10.66 ug/l		100
44)	Trichloroethene	9.06	130	311958	11.53 ug/l		93
45)	Methylcyclohexane	9.15	83	532389	10.15 ug/l		94
46)	1,2-Dichloropropane	9.33	63	253705	11.02 ug/l		99
47)	Bromodichloromethane	9.71	83	354003	11.23 ug/l		99
48)	1,4-Dioxane	9.77	88	18448	209.56 ug/l		95
49)	Dibromomethane	9.80	93	106166	10.61 ug/l		91
50)	2-Chloroethyl vinyl ether	10.20	63	22889	12.95 ug/l		92
51)	4-Methyl-2-pentanone	10.25	43	609871	53.90 ug/l		94
52)	cis-1,3-Dichloropropene	10.60	75	394179	11.42 ug/l		97
55)	Toluene	11.14	91	1227579	11.13 ug/l		100
56)	Ethyl methacrylate	11.43	69	186609	11.81 ug/l		88
57)	trans-1,3-Dichloropropene	11.46	75	292261	11.70 ug/l		97
58)	1,1,2-Trichloroethane	11.73	97	169059	12.45 ug/l		99
59)	2-Hexanone	11.73	43	403708	55.93 ug/l		90
60)	1,3-Dichloropropane	12.17	76	296969	11.61 ug/l		100
61)	Tetrachloroethene	12.28	164	277690	11.65 ug/l		97
62)	Dibromochloromethane	12.65	129	201993	12.49 ug/l		98
63)	1,2-Dibromoethane	13.00	107	149542	11.62 ug/l		98
64)	1-Chlorohexane	13.28	91	536113	10.40 ug/l		100
65)	Chlorobenzene	13.76	112	754764	11.43 ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	258103	12.80 ug/l		98
67)	Ethylbenzene	13.86	91	1447784	11.09 ug/l		99
68)	m-Xylene & p-Xylene	13.99	91	2147875	20.84 ug/l		98
69)	o-Xylene	14.81	91	1211205	11.90 ug/l		99
70)	Styrene	14.88	104	925949	12.43 ug/l		98
71)	Isopropylbenzene	15.49	105	1663257	12.03 ug/l		98
73)	Bromoform	15.53	173	108126	10.70 ug/l		99
74)	trans-1,4-Dichloro-2-buten	15.61	53	48378	8.95 ug/l		84
75)	1,1,2,2-Tetrachloroethane	15.83	83	213191	11.50 ug/l		100
77)	1,2,3-Trichloropropane	16.13	110	58372	11.22 ug/l		90

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV029.D Vial: 4
Acq On : 4 Nov 2024 6:27 pm Operator: DNguye/CLingl
Sample : VO01K02C Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:46 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

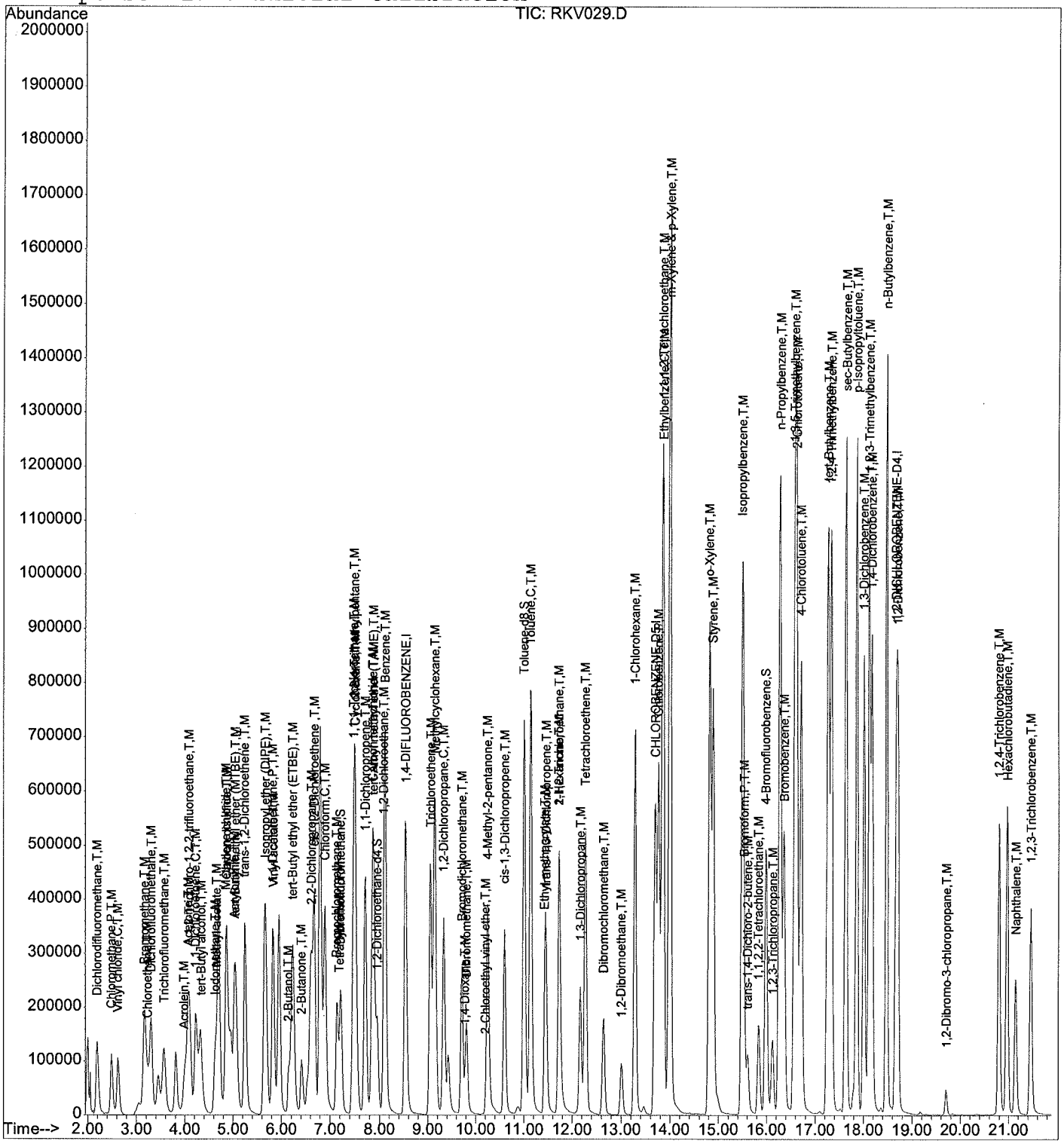
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.27	91	2121712	10.20	ug/l	97
79)	Bromobenzene	16.36	156	356998	11.85	ug/l	99
80)	1,3,5-Trimethylbenzene	16.57	105	1297674	10.09	ug/l	96
81)	2-Chlorotoluene	16.62	91	1280569	10.13	ug/l	94
82)	4-Chlorotoluene	16.70	91	1132223	10.04	ug/l	93
83)	tert-Butylbenzene	17.27	134	325268	11.22	ug/l	94
84)	1,2,4-Trimethylbenzene	17.33	105	1264793	10.05	ug/l	96
85)	sec-Butylbenzene	17.64	105	1842346	10.17	ug/l	97
86)	p-Isopropyltoluene	17.86	119	1447402	10.24	ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	695641	11.49	ug/l	97
88)	1,2,3-Trimethylbenzene	18.11	105	1174230	10.25	ug/l	96
89)	1,4-Dichlorobenzene	18.17	146	678157	11.27	ug/l	96
90)	n-Butylbenzene	18.47	91	1431934	9.26	ug/l	97
91)	1,2-Dichlorobenzene	18.70	146	563155	11.40	ug/l	98
92)	1,2-Dibromo-3-chloropropan	19.71	157	27772	11.21	ug/l	99
93)	1,2,4-Trichlorobenzene	20.79	180	379172	11.34	ug/l	99
94)	Hexachlorobutadiene	20.97	225	242307	11.31	ug/l	97
95)	Naphthalene	21.15	128	456502	11.09	ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	289802	11.96	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV029.D Vial: 4
Acq On : 4 Nov 2024 6:27 pm Operator: DNguye/CLing
Sample : VO01K02C Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:46 2024 Quant Results File: VO01J12.RES

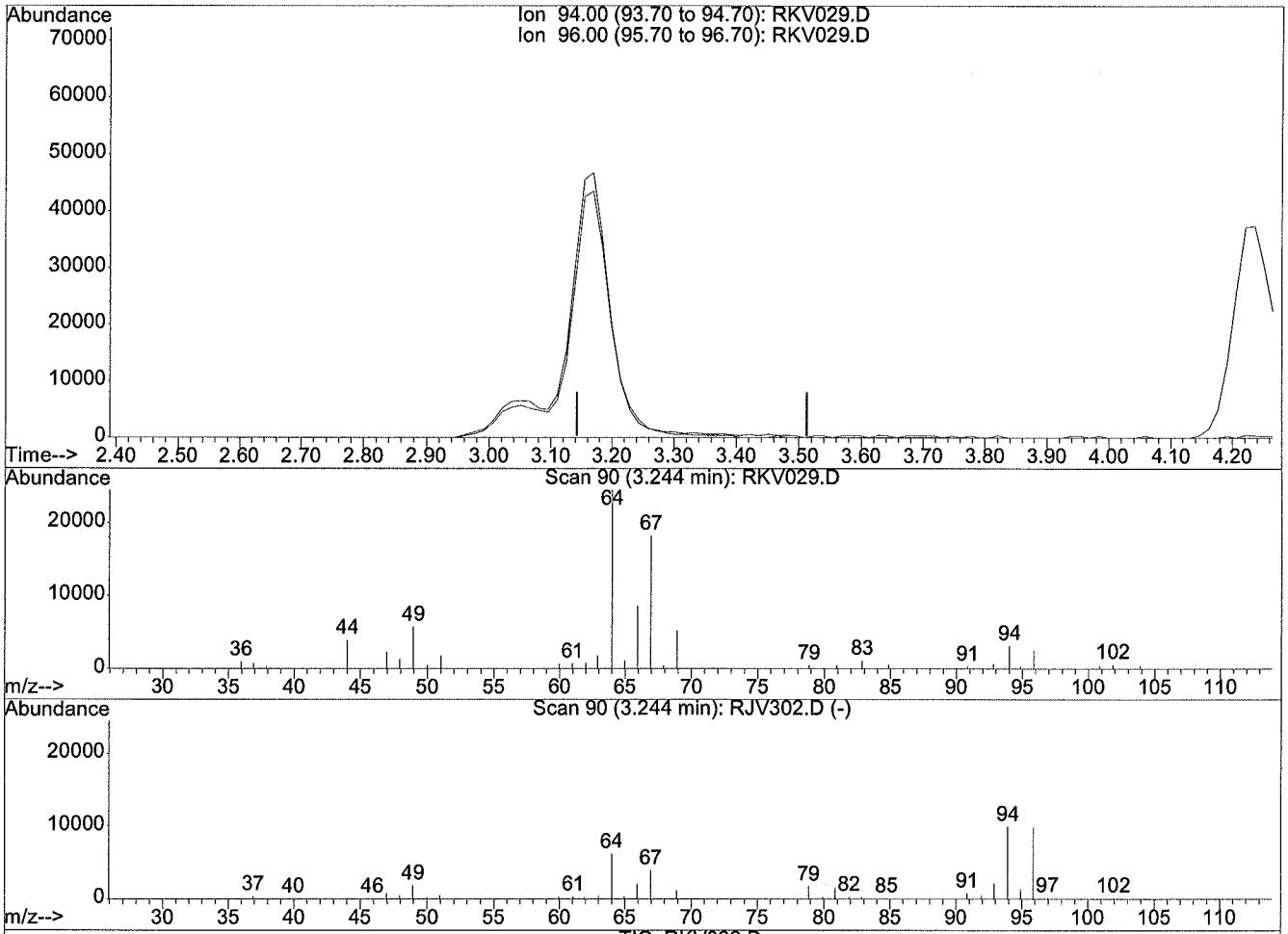
Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\24K04\RKV029.D Vial: 4
Acq On : 4 Nov 2024 6:27 pm Operator: DNguye/CLi
Sample : VO01K02C Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 4 18:49 2024 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration



TIC: RKV029.D

(7) Bromomethane (T,M)

3.24min 0.00ug/l

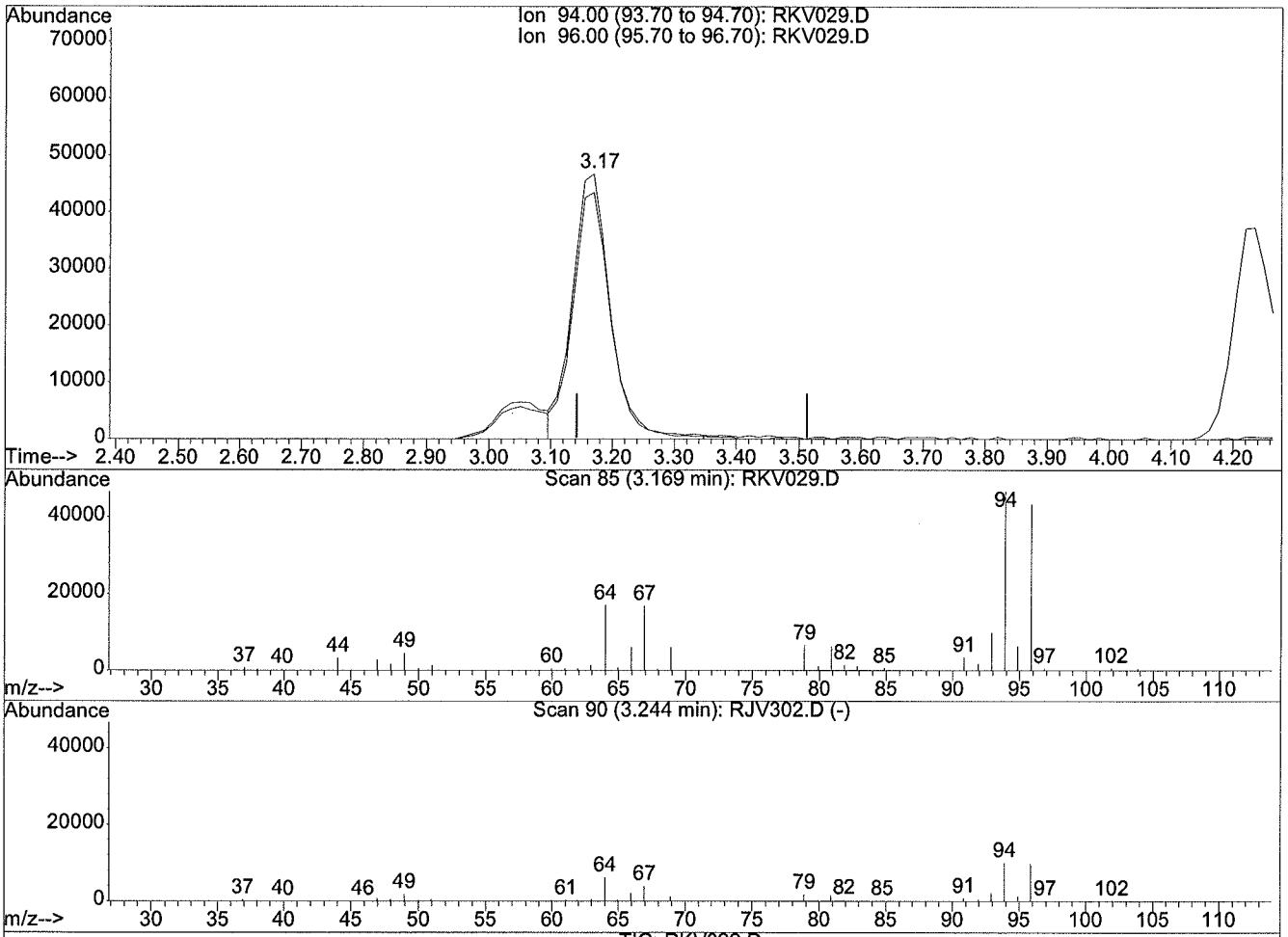
response 0

Ion	Exp%	Act%
94.00	100	0.00
96.00	98.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\24K04\RKV029.D Vial: 4
Acq On : 4 Nov 2024 6:27 pm Operator: DNguye/CLi
Sample : VO01K02C Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 6 17:46 2024 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration



TIC: RKV029.D

(7) Bromomethane (T,M)

3.17min 11.45ug/l m

response 201676

Ion	Exp%	Act%
94.00	100	100
96.00	98.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

☐ Incorrect Retention Time.
☐ Incorrect Baseline
☑ Incorrect Integration
☐ Other _____

Initials CL 11/6/24

RKV029.D VO01J12.M Wed Nov 06 17:46:35 2024

INITIAL CALIBRATIONS

FORM 5

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : ICAL

Lab Code : EMAX SDG No : ICAL

Lab File ID: RIW358 BFB Injection Date: 10/19/24

Instrument ID: 06 BFB Injection Time: 15:14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	15.276
75	30 - 60% of mass 95	42.848
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	5.201
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	75.566
175	5 - 9% of mass 174	5.084(6.73)1
176	95 - 101% % of mass 174	74.029(97.97)1
177	5 - 9% % of mass 176	4.277(5.78)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following Calibration Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	VO06J191	RIW359	10/19/24	15:59
2	VSTD0.5	VO06J192	RIW360	10/19/24	16:26
3	VSTD1	VO06J193	RIW361	10/19/24	16:53
4	VSTD2	VO06J194	RIW362	10/19/24	17:19
5	VSTD5	VO06J195	RIW363	10/19/24	17:45
6	VSTD10	VO06J196	RIW364	10/19/24	18:11
7	VSTD20	VO06J197	RIW365	10/19/24	18:38
8	VSTD30	VO06J198	RIW366	10/19/24	19:04
9	VSTD50	VO06J199	RIW367	10/19/24	19:30
10	VSTD100	VO06J1910	RIW368	10/19/24	19:57
11	VSTD10	IVO06J191	RIW371	10/19/24	21:15

Sw 11/15/24

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :06
Beginning DateTime :10/19/24 15:59
Spike Units :PPB
IC File :RIW364

Column Spec :RTX502.2 ID :0.25MM
Ending DateTime :10/19/24 19:57
HPChem Method :V006J19

M	IDX	Parameters	3 15:59 RIW359	5 16:26 RIW360	1 16:53 RIW361	2 17:19 RIW362	5 17:45 RIW363	10 18:11 RIW364	20 18:38 RIW365	30 19:04 RIW366	50 19:30 RIW367	100 19:57 RIW368	Av_RRF	% RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	9.8425
	2	Dichlorodifluoromethane	0.443	0.330	0.316	0.353	0.360	0.425	0.352	0.325	0.330	0.322	0.356	12.33	1.5731
	3	Chloromethane	0.264	0.308	0.318	0.355	0.369	0.427	0.366	0.342	0.359	0.349	0.346	12.43	1.7923
	4	Vinyl chloride	.....	0.225	0.258	0.276	0.298	0.361	0.294	0.254	0.251	.....	0.277	14.95	1.8999
	5	Bromomethane	0.302	0.197	0.218	0.230	0.257	0.302	0.260	0.240	0.257	0.259	0.252	13.23	2.3335
	6	Chloroethane	0.157	0.161	0.182	0.185	0.198	0.234	0.201	0.186	0.196	0.199	0.191	11.28	2.4204
	7	Dichlorofluoromethane	0.538	0.469	0.482	0.472	0.472	0.554	0.446	0.434	0.441	0.429	0.468	10.00	2.4599
	8	Trichlorofluoromethane	0.394	0.300	0.317	0.347	0.380	0.452	0.394	0.371	0.385	0.371	0.371	11.49	2.6910
5	8	Acrolein	.....	0.010	0.011	0.010	0.010	0.012	0.009	0.010	0.010	0.011	0.010	5.97	3.2040
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	0.263	0.198	0.204	0.165	0.211	0.269	0.205	0.206	0.219	0.206	0.213	13.61	3.2555
5	11	Acetone	.....	0.030	0.035	0.031	0.030	0.033	0.030	0.028	0.030	0.031	0.031	6.91	3.3202
	12	1,1-Dichloroethene	0.531	0.435	0.445	0.372	0.458	0.539	0.439	0.440	0.435	0.433	0.453	10.84	3.4360
25	13	tert-Butyl alcohol	.....	.....	0.008	0.006	0.009	0.010	0.009	0.009	.....	.....	0.009	14.67	3.5860
	14	Acetonitrile	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.000	0.00	0.0000
	15	Methyl acetate	0.022	0.022	0.022	0.021	0.020	0.021	0.021	0.019	0.020	0.022	0.021	4.29	3.9643
	16	Iodomethane	0.483	0.435	0.450	0.403	0.482	0.556	0.460	0.455	0.455	0.461	0.464	8.54	3.8637
	17	Allyl chloride	0.180	0.176	0.172	0.153	0.179	0.212	0.178	0.182	0.187	0.192	0.181	8.24	3.9874
	18	Methylene chloride	0.365	0.321	0.320	0.285	0.335	0.388	0.324	0.325	0.325	0.332	0.332	8.33	4.1573
	19	Carbon disulfide	.....	.....	0.517	0.535	0.565	0.715	0.553	0.516	.....	.....	0.567	13.30	4.1313
5	20	Acrylonitrile	0.038	0.035	0.038	0.040	0.042	0.048	0.042	0.042	0.043	0.044	0.041	8.82	4.3984
	21	tert-Butyl methyl ether (MTBE)	0.485	0.458	0.469	0.405	0.499	0.579	0.476	0.480	0.470	0.501	0.482	8.00	4.4425
	22	trans-1,2-Dichloroethene	0.419	0.333	0.324	0.274	0.339	0.391	0.324	0.329	0.330	0.328	0.339	11.64	4.6564
	23	Isopropyl ether (DIPE)	0.805	0.862	0.854	0.763	0.936	1.085	0.911	0.913	0.899	0.889	0.895	6.09	5.3253
	24	Vinyl acetate	.....	0.235	0.250	0.268	0.316	0.393	0.335	0.328	0.332	0.332	0.317	14.53	5.5574
	25	1,1-Dichloroethane	0.526	0.491	0.511	0.421	0.510	0.597	0.482	0.500	0.498	0.501	0.504	8.18	5.4784
25	26	2-Butanol	.....	.....	.....	0.007	0.008	0.009	0.009	0.009	0.009	0.009	0.009	10.55	6.0378
	27	tert-Butyl ethyl ether (ETBE)	0.591	0.642	0.677	0.604	0.672	0.764	0.645	0.650	0.642	0.729	0.662	7.94	6.2250
5	28	2-Butanone	.....	0.034	0.051	0.048	0.054	0.061	0.054	0.054	0.055	0.057	0.052	14.55	6.5010
	29	2,2-Dichloropropane	.....	0.317	0.309	0.280	0.317	0.377	0.301	0.291	0.282	0.245	0.302	11.90	6.7504
	30	cis-1,2-Dichloroethene	0.343	0.310	0.328	0.274	0.328	0.381	0.320	0.326	0.327	0.336	0.327	8.13	6.8772
	31	Chloroform	0.581	0.531	0.502	0.418	0.493	0.571	0.481	0.484	0.481	0.492	0.503	9.43	7.2840
	32	Bromochloromethane	0.124	0.134	0.133	0.119	0.142	0.166	0.139	0.143	0.142	0.151	0.139	9.49	7.6615
	33	Tetrahydrofuran	.....	0.030	0.038	0.028	0.030	0.029	0.027	0.028	0.028	0.032	0.030	10.62	7.7849
5	34	tert-Amyl alcohol	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.000	0.00	0.0000
	35	Dibromofluoromethane	.....	0.221	0.205	0.237	0.229	0.314	0.257	0.251	.....	.....	0.245	14.43	7.8082
	36	1,1,1-Trichloroethane	0.468	0.401	0.394	0.330	0.402	0.471	0.391	0.392	0.390	0.378	0.402	10.25	8.2088
	37	Cyclohexane	0.613	0.462	0.473	0.467	0.497	0.592	0.513	0.467	0.472	0.462	0.502	11.11	8.1900
	38	2,2,4-Trimethylpentane	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.000	0.00	0.0000
	39	1,1-Dichloropropene	0.165	0.141	0.152	0.119	0.142	0.168	0.145	0.147	0.149	0.151	0.148	9.27	8.2821
	40	Carbon tetrachloride	0.342	0.314	0.319	0.273	0.339	0.391	0.323	0.331	0.323	0.319	0.327	9.00	8.4362
	41	tert-Amyl methyl ether (TAME)	0.534	0.538	0.559	0.497	0.571	0.663	0.558	0.563	0.547	0.570	0.560	7.54	8.5253
	42	1,2-Dichloroethane-d4	0.151	0.154	0.145	0.165	0.163	0.222	0.179	0.177	.....	.....	0.170	14.43	8.9590
	43	1,2-Dichloroethane	0.161	0.185	0.199	0.183	0.213	0.248	0.211	0.216	0.208	0.215	0.204	11.62	9.1546
	44	Benzene	1.142	1.185	1.217	1.068	1.241	1.407	1.159	1.175	1.140	0.852	1.159	12.05	9.1378
	45	Trichloroethene	0.285	0.304	0.301	0.255	0.318	0.366	0.309	0.310	0.308	0.306	0.306	9.05	10.4317
	46	Methylcyclohexane	0.859	0.621	0.591	0.586	0.603	0.689	0.618	0.569	0.565	0.544	0.624	14.68	10.5135
	47	1,2-Dichloropropane	0.226	0.238	0.249	0.221	0.257	0.296	0.255	0.260	0.265	0.264	0.252	8.38	10.7924
20	48	1,4-Dioxane	.....	.....	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	11.50	11.3366
	49	Bromodichloromethane	0.324	0.329	0.327	0.285	0.330	0.379	0.322	0.324	0.315	0.324	0.326	7.01	11.2328
	50	Dibromomethane	0.105	0.131	0.123	0.106	0.121	0.142	0.120	0.123	0.121	0.127	0.122	8.82	11.3104
	51	2-Chloroethyl vinyl ether	.....	0.086	0.082	0.067	0.078	0.093	0.081	0.084	0.083	0.088	0.083	8.53	11.8385
5	52	4-Methyl-2-pentanone	0.100	0.118	0.140	0.122	0.128	0.162	0.140	0.140	0.140	0.156	0.138	12.81	11.9878
	53	cis-1,3-Dichloropropene	0.304	0.382	0.381	0.344	0.412	0.484	0.403	0.403	0.393	0.401	0.391	11.87	12.3847
	54	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	12.3987
	55	Toluene-d8	.....	1.256	1.214	1.396	1.339	1.795	1.352	1.323	.....	.....	1.382	13.88	12.7034
	56	Toluene	1.590	1.707	1.754	1.517	1.759	1.984	1.602	1.595	1.431	.....	1.660	9.78	12.8413
	57	Ethyl methacrylate	0.220	0.239	0.267	0.244	0.279	0.329	0.273	0.282	0.273	0.286	0.269	11.16	13.2659
	58	trans-1,3-Dichloropropene	0.286	0.369	0.393	0.353	0.406	0.484	0.398	0.405	0.402	0.407	0.390	12.81	13.2314
	59	1,1,2-Trichloroethane	0.175	0.213	0.221	0.177	0.212	0.251	0.206	0.210	0.210	0.213	0.209	10.33	13.4830
5	60	2-Hexanone	0.101	0.101	0.110	0.129	0.127	0.143	0.121	0.118	0.119	0.112	0.118	10.99	13.5648
	61	1,3-Dichloropropane	0.306	0.356	0.372	0.341	0.384	0.455	0.376	0.381	0.372	0.376	0.372	10.10	13.9318
	62	Tetrachloroethene	0.353	0.359	0.357	0.276	0.357	0.424	0.350	0.351	0.355	0.346	0.352	9.93	13.9863
	63	Dibromochloromethane	0.230	0.272	0.251	0.222	0.267	0.308	0.251	0.260	0.257	0.264	0.258	9.14	14.3323
	64	2-Ethyl-1-butanol	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.000	0.00	0.0000
	65	1,2-Dibromoethane	0.144	0.177	0.181	0.169	0.204	0.237	0.197	0.200	0.197	0.200	0.191	12.90	14.6720
	66	Chlorohexane	0.670	0.778	0.743	0.564	0.693	0.768	0.646	0.687	0.657	0.659	0.676	11.14	15.0253
	67	Chlorobenzene	0.826	0.919	0.932	0.766	0.880	1.026	0.838	0.896	0.827	0.727	0.909	11.82	15.4037
	68	1,1,1,2-Tetrachloroethane	0.307	0.278	0.292	0.259	0.311	0.363	0.303	0.313	0.317	0.318	0.306	8.38	15.4945
	69	Ethylbenzene	1.740	1.913	1.933	1.640	1.902	2.174	1.725	1.690	1.405	.....	1.791	11.63	15.5135
2	70	m-Xylene & p-Xylene	1.330	1.430	1.439	1.195	1.404	1.587	1.268	1.273	.....	.....	1.341	11.29	15.6470
	71	o-Xylene	1.448	1.383	1.375	1.195	1.408	1.595	1.279	1.285	1.192	.....	1.351	9.54	16.3665
	72	Styrene	0.829	1.024	0.991	0.868	1.034	1.199	0.974	1.001	0.985	0.753	0.966	12.84	16.4382
	73	Isopropylbenzene	1.968	1.718	1.825	1.532	1.879	2.099	1.680	1.656	1.407	.....	1.752	12.29	16.9858
	74	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	19.2849
	75	Bromoform	.....	0.283	0.271	0.243	0.299	0.362	0.323	0.334	0.348	0.346	0.312	12.92	16.9744
	76	1,1,2,2-Tetrachloroethane	0.405	0.509	0.504	0.488	0.577	0.665	0.562	0.577	0.582	0.569	0.544	12.96	17.2729
	77	4-Bromofluorobenzene	.....	.....	.....	0.014	0.977	1.384	1.110	1.098	.....	.....	1.116	14.29	17.3715
	78	1,2,3-Trichloropropane	0.101	0.141	0.150	0.121	0.138	0.159	0.139	0.145	0.151	0.148	0.139	12.14	17.4935
	79	trans-1,4-Dichloro-2-butene	0.094	0.142	0.125	0.101	0.125	0.152	0.135	0.133	0.141	0.141	0.129	14.30	17.6039
	80	n-Propylbenzene	5.137	6.171	6.055	4.669	5.841	6.731	5.433	4.652	.....	.....	5.578	13.24	17.5990
	81	Bromobenzene	0.634	0.918	0.905	0.707	0.916	1.181	0.908	0.911	0.958	0.949	0.891	14.69	17.7377
	82	1,3,5-Trimethylbenzene	3.143	3.706	3.682	2.815	3.675	4.660	3.457	3.392	3.064	.....	3.477	14.80	17.8560
	83	2-Chlorotoluene	3.090	3.614	3.632	2.745	3.697	4.305	3.236	3.238	2.920	.....	3.464	10.35	17.8849
	84	4-Chlorotoluene	2.324	2.906	2.906	2.331	2.887	3.743	3.035	3.038	2.855	.....	2.988	14.63	17.8958
	85	tert-Butylbenzene	0.630	0.757	0.786	0.629	0.803	0.950	0.784	0.792	0.811	0.796	0.774	11.90	18.2769
	86	1,2,4-Trimethylbenzene	3.043	3.762	3.599	2.871	3.600	4.152	3.353	3.317	2.905	.....	3.400	12.47	18.3243
	87	sec-Butylbenzene	4.871	5.112	5.085	3.997	5.048	5.881	4.619	4.116	.....	.....	4.841	12.46	18.5320
	88	p-Isopropyltoluene	4.019	4.040	4.202	3.202	4.130	4.700	3.655	3.530	2.990	.....	3.830	13.96	18.6993
	89	1,3-Dichlorobenzene	1.474	1.880	1.741	1.477	1.863	2.161	1.769	1.738	1.775	1.453	1.733	12.70	18.7916
	90	1,2,3-Trimethylbenzene	2.874	3.070	3.115	2.655	3.211	3.683	2.922	2.909	2.606	.....	3.005	10.74	18.8709
	91	1,4-Dichlorobenzene	1.387	1.700	1.690	1.461	1.770	2.115	1.725	1.725	1.726	1.426	1.673	12.63	18.9188
	92	n-Butylbenzene	4.237	3.888	3.857	2.950	3.958	4.515	3.512	3.233	.....	.....	3.769	13.67	19.1421
	93	1,2-Dichlorobenzene	1.554	1.492	1.421	1.251	1.491	1.743	1.402	1.416	1.388	1.300	1.413	10.06	19.3169
	94	1,2-Dibromo-3-chloropropane	0.110	0.097	0.081	0.078	0.079	0.087	0.071	0.077	0.075	0.084	0.085	13.87	20.0781
	95	1,2,4-Trichlorobenzene	0.885	0.778	0.704	0.647	0.845	0.966	0.848	0.791	0.836	0.913	0.820	11.66	20.9049
	96	Hexachlorobutadiene	0.645	0.478	0.498	0.367	0.543	0.600	0.458	0.388	0.433	.....	0.489	19.00	21.0344
	97	Naphthalene	1.235	1.033	1.005	0.982	1.130	1.343	1.178	1.159	1.199	1.245	1.149	8.32	21.1684
	98	1,2,3-Trichlorobenzene	0.694	0.529	0.518	0.485	0.606	0.724	0.648	0.621	0.650	0.703	0.618	13.43	21.4138

Spike Amount = Nominal Amount * M
Ave_%RSD : 11.3 Max_%RSD : 19

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = x0 + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
96	Hexachlorobutadiene	0.00657	0.43601	0.9902*

Use Quadratic Regression of inv conc w.f. for comps of linear reg of inv conc w.f. with CCF < .995
Resp_Ratio = x0 + x1 * Amt_Ratio + x2 * Amt_Ratio * Amt_Ratio

IDX	Parameter	x0	x1	x2	CCF2
96	Hexachlorobutadiene	0.00094	0.50848	-0.02062	0.9928*

SG 11/15/24

PROGRAM: ICALMAX
Input: R:\CAL\8260\2024\VO06J19\RIW364.ICL Output: R:\CAL\8260\2024\VO06J19\RIW364.MAX

IDX	Parameter	x0	x1	x2	CCF2	MaxMinAmtRatio	MaxMinRespRatio	MaxMinRRF	MaxMinConc
96	Hexachlorobutadiene	0.00094	0.50848	-0.02062	0.9928*	12.32978	3.13566	0.25432	123.3

54
11/15/24

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR(%REC)

Instrument ID :06
Beginning DateTime :10/19/24 15:59
Spike Units :PPB
IC File :RIW364

Column Spec :RTX502.2 ID :0.25MM
Ending DateTime :10/19/24 19:57
HPChem Method :V006J19

M	IDX	Parameters	3 15:59 RIW359	5 16:26 RIW360	1 16:53 RIW361	2 17:19 RIW362	5 17:45 RIW363	10 18:11 RIW364	20 18:38 RIW365	30 19:04 RIW366	50 19:30 RIW367	100 19:57 RIW368	AvDRec	% RSD	Av Rt M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	9.8425
	2	Dichlorodifluoromethane	124	93	89	99	101	119	99	91	93	90	9.1	12.33	1.5731
	3	Chloromethane	76	89	92	103	107	123	106	99	104	101	8.7	12.43	1.7923
	4	Vinyl chloride	------	81	93	100	108	130	106	92	91	------	11	14.95	1.8999
	5	Bromomethane	120	78	87	91	102	120	103	95	102	103	9.8	13.23	2.3335
	6	Chloroethane	82	84	101	97	104	123	105	97	103	104	7.8	11.28	2.4204
	7	Dichlorofluoromethane	115	100	103	88	101	118	95	93	94	92	7.5	10.00	2.4599
	8	Trichlorofluoromethane	106	81	85	94	102	122	106	100	104	100	8.1	11.49	2.6910
5	9	Acrolein	------	100	110	100	100	120	90	100	100	110	5.6	5.97	3.2040
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	123	92	96	77	99	122	96	97	100	97	9.2	13.61	3.2555
5	11	Acetone	------	97	113	100	97	106	97	94	97	100	4.3	6.01	3.2902
	12	1,1-Dichloroethene	117	96	98	82	101	119	97	97	96	96	7.5	10.84	3.4380
25	13	tert-Butyl alcohol	------	------	89	67	100	111	100	100	------	------	9.3	14.67	3.5860
	14	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	15	Methyl acetate	105	105	105	100	95	100	100	90	95	105	3.8	4.29	3.9643
	16	Iodomethane	104	94	97	87	104	120	99	98	98	99	5.6	8.54	3.8637
	17	Allyl chloride	99	97	95	85	99	117	98	101	103	106	5.4	8.24	3.9874
	18	Methylene chloride	110	97	96	86	101	117	98	98	98	100	5.5	8.33	4.1573
	19	Carbon disulfide	------	------	91	94	100	126	98	91	------	------	8.7	13.30	4.1313
5	20	Acrylonitrile	93	85	93	98	102	117	102	102	105	107	6.8	8.82	4.3984
	21	tert-Butyl methyl ether (MTBE)	101	95	97	84	104	120	99	100	98	104	5.5	9.00	4.4425
	22	trans-1,2-Dichloroethene	124	98	96	81	100	115	96	97	97	97	7.8	11.64	4.6564
	23	Isopropyl ether (DIPE)	90	97	95	89	105	121	102	102	100	99	6	9.09	5.3253
	24	Vinyl acetate	------	76	80	93	102	122	108	105	107	107	11.3	14.53	5.5574
	25	1,1-Dichloroethane	104	97	101	84	101	117	98	99	99	99	4.8	8.18	5.4784
25	26	2-Butanol	------	------	------	78	89	100	100	100	100	100	4.8	10.55	6.0378
	27	tert-Butyl ethyl ether (ETBE)	89	97	102	91	102	115	97	98	97	110	5.9	7.94	6.2250
5	28	2-Butanone	------	65	98	92	104	117	104	104	106	110	9.8	14.55	6.5010
	29	2,2-Dichloropropane	------	105	102	93	105	125	100	96	93	81	8.2	11.90	6.7504
	30	cis-1,2-Dichloroethene	105	95	100	84	100	117	98	100	100	103	4.9	8.13	6.8772
	31	Chloroform	116	106	100	83	98	114	96	96	96	98	6.8	9.43	7.2840
	32	Bromochloromethane	89	96	96	86	102	119	100	103	102	109	6.8	9.49	7.6615
	33	Tetrahydrofuran	------	100	127	93	100	97	90	93	93	107	7.4	10.62	7.7849
5	34	tert-Amyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	35	Dibromofluoromethane	------	90	84	97	93	128	105	102	------	------	10.2	14.43	7.8082
	36	1,1,1-Trichloroethane	116	100	98	82	100	117	97	98	97	94	6.8	10.25	8.2088
	37	Cyclohexane	122	92	94	93	99	118	102	93	94	92	8.5	11.11	8.1900
	38	2,2,4-Trimethylpentane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	39	1,1-Dichloropropene	111	95	103	80	96	114	98	99	101	102	6.1	9.27	8.5821
	40	Carbon tetrachloride	105	96	98	83	104	120	99	101	99	98	5.7	9.00	8.7562
	41	tert-Amyl methyl ether (TAME)	95	96	100	89	102	118	100	101	98	102	4.5	7.54	8.9323
	42	1,2-Dichloroethane-d4	89	91	85	97	96	131	105	104	------	------	10.3	14.43	8.9590
	43	1,2-Dichloroethane	79	91	98	90	104	122	103	106	102	105	8.6	11.62	9.1546
	44	Benzene	99	102	105	92	107	121	100	101	98	74	7.5	12.05	9.1378
	45	Trichloroethene	93	99	98	83	104	120	101	101	101	100	5.2	9.05	10.4317
	46	Methylcyclohexane	138	100	95	94	97	110	99	91	91	87	9.5	14.68	10.5135
	47	1,2-Dichloropropane	90	94	99	88	102	117	101	103	101	105	5.9	8.38	10.7924
20	48	1,4-Dioxane	------	------	124	94	97	104	86	95	96	104	0	11.50	11.3366
	49	Bromodichloromethane	99	101	100	87	101	116	99	99	97	99	3.8	7.01	11.2328
	50	Dibromomethane	86	107	101	87	99	116	98	101	99	104	6	8.82	11.3104
	51	2-Chloroethyl vinyl ether	------	104	99	81	94	112	98	101	100	106	5.8	8.53	11.9395
5	52	4-Methyl-2-pentanone	72	86	101	112	109	124	105	102	101	90	10.6	14.61	11.9878
	53	cis-1,3-Dichloropropene	78	98	97	88	105	124	103	103	101	103	7.7	11.87	12.3044
	54	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	12.3387
	55	Toluene-d8	------	91	88	101	97	130	98	96	------	------	8.6	13.88	12.7034
	56	Toluene	96	103	106	91	106	120	97	96	86	------	7.6	9.78	12.8413
	57	Ethyl methacrylate	82	89	99	91	104	122	101	105	101	106	8	11.16	13.2859
	58	trans-1,3-Dichloropropene	73	95	101	91	104	124	102	104	103	104	8.4	12.81	13.2314
	59	1,1,2-Trichloroethane	84	102	106	85	101	120	99	100	100	102	6.5	10.33	13.4830
5	60	2-Hexanone	86	86	93	109	108	121	103	100	101	95	8.2	10.99	13.5648
	61	1,3-Dichloropropane	82	96	100	92	103	122	101	102	100	101	6	10.10	13.9318
	62	Tetrachloroethene	100	102	100	78	101	120	99	100	101	98	4.9	9.93	13.9863
	63	Dibromochloromethane	89	105	97	86	103	119	97	101	100	102	6.2	9.14	14.3323
	64	2-Ethyl-1-butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	65	1,2-Dibromoethane	75	93	95	88	107	124	103	105	103	105	9.5	12.90	14.6720
	66	1-Chlorohexane	99	115	110	83	103	114	96	102	97	83	8.5	11.14	15.0223
	67	Chlorobenzene	91	101	102	88	108	124	101	102	102	80	8.2	11.92	15.4037
	68	1,1,1,2-Tetrachloroethane	100	91	95	85	102	121	99	102	102	104	6.1	9.38	15.4945
	69	Ethylbenzene	97	107	108	92	106	121	96	94	78	------	9.4	12.23	15.5132
2	70	m-Xylene & p-Xylene	99	107	107	89	105	118	95	80	------	------	9.3	11.99	15.6470
	71	o-Xylene	107	102	102	88	104	118	95	95	88	------	7.5	9.54	16.3685
	72	Styrene	86	106	103	90	107	124	101	104	102	78	9.3	12.84	16.4382
	73	Isopropylbenzene	112	98	104	87	107	120	96	95	80	------	9.7	12.29	16.9858
	74	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	19.2849
	75	Bromoform	------	91	87	78	96	116	104	107	112	111	10.9	12.92	16.9744
	76	1,1,2,2-Tetrachloroethane	74	94	93	90	106	122	103	106	107	105	9.9	12.96	17.2729
	77	4-Bromofluorobenzene	------	------	------	91	88	124	99	98	------	------	9.6	14.29	17.3715
	78	1,2,3-Trichloropropane	73	101	108	87	99	114	100	104	109	106	8.4	12.14	17.4935
	79	trans-1,4-Dichloro-2-butene	73	110	97	78	97	118	105	103	109	109	10.9	14.30	17.6039
	80	n-Propylbenzene	92	110	109	84	105	121	97	83	------	------	10.9	13.24	17.5990
	81	Bromobenzene	71	103	102	79	103	124	102	102	108	107	9.9	14.69	17.6377
	82	1,3,5-Trimethylbenzene	90	107	106	84	106	123	99	97	88	------	8.1	11.80	17.8180
	83	2-Chlorotoluene	92	107	108	87	110	116	96	96	88	------	9.2	10.55	17.8310
	84	4-Chlorotoluene	80	101	101	81	100	129	105	105	99	------	8.9	14.25	17.8959
	85	tert-Butylbenzene	81	98	102	81	104	123	101	102	105	103	7.9	11.90	18.2789
	86	1,2,4-Trimethylbenzene	90	111	106	84	106	122	99	98	85	------	9.9	12.47	18.3243
	87	sec-Butylbenzene	101	106	105	83	104	121	95	85	------	------	9.3	12.46	18.5320
	88	p-isopropyltoluene	105	105	110	84	108	123	95	92	78	------	11.3	13.96	18.6993
	89	1,3-Dichlorobenzene	85	108	100	85	108	125	102	100	102	84	9.2	12.70	18.7916
	90	1,2,3-Trimethylbenzene	96	102	104	88	107	123	97	97	87	------	7.8	10.74	18.8709
	91	1,4-Dichlorobenzene	83	102	101	87	106	126	103	103	103	85	8.9	12.63	18.9188
	92	n-Butylbenzene	112	103	102	78	105	120	93	86	------	------	10.7	13.67	19.1421
	93	1,2-Dichlorobenzene	89	101	103	89	106	123	99	100	98	92	6.6	10.06	19.3109
	94	1,2-Dibromo-3-chloropropane	129	114	107	92	93	102	84	91	88	99	10.7	13.87	20.0781
	95	1,2,4-Trichlorobenzene	108	94	86	79	102	118	103	96	102	111	8.9	11.66	20.9049
	96	Hexachlorobutadiene	120	90	97	72	109	124	98	85	106	------	14.9	19.00	21.0344
	97	Naphthalene	107	90	87	94	98	117	102	101	104	108	8.1	10.32	21.1684
	98	1,2,3-Trichlorobenzene	112	86	84	78	98	117	105	100	105	114	10.8	13.43	21.4138

For 8260 C
SCA
11/15/24

Compound List Report 06

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
Total Cpnds : 98

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-DIFLUOROBENZENE	114	9.84	1.000	A	1	A	B
2	T	Dichlorodifluoromethane	85	1.56	0.159	A	1	A	B
3	T	Chloromethane	50	1.80	0.183	A	1	A	B
4	T	Vinyl chloride	62	1.90	0.193	A	1	A	B
5	T	Bromomethane	94	2.33	0.237	A	1	A	B
6	T	Chloroethane	64	2.41	0.245	A	1	A	B
7	T	Dichlorofluoromethane	67	2.45	0.249	A	1	A	B
8	T	Trichlorofluoromethane	101	2.69	0.273	A	1	A	B
9	T	Acrolein	56	3.19	0.325	A	1	A	B
10	T	1,1,2-Trichloro-1,2,2-trifluor	151	3.26	0.331	A	1	A	B
11	T	Acetone	43	3.30	0.335	A	1	A	B
12	T	1,1-Dichloroethene	61	3.45	0.350	A	2	A	B
13	T	tert-Butyl alcohol	59	3.59	0.365	A	1	A	B
14	T	Acetonitrile	41	0.00	0.000	A	2	A	B
15	T	Methyl acetate	74	3.97	0.403	A	1	A	B
16	T	Iodomethane	142	3.87	0.393	A	1	A	B
17	T	Allyl chloride	76	3.99	0.406	A	1	A	B
18	T	Methylene chloride	49	4.16	0.423	A	2	A	B
19	T	Carbon disulfide	76	4.14	0.420	A	1	A	B
20	T	Acrylonitrile	53	4.39	0.446	A	2	A	B
21	T	tert-Butyl methyl ether (MTBE)	73	4.43	0.450	A	1	A	B
22	T	trans-1,2-Dichloroethene	96	4.66	0.474	A	1	A	B
23	T	Isopropyl ether (DIPE)	45	5.33	0.542	A	1	A	B
24	T	Vinyl acetate	43	5.56	0.565	A	1	A	B
25	T	1,1-Dichloroethane	63	5.48	0.557	A	2	A	B
26	T	2-Butanol	45	6.05	0.614	A	1	A	B
27	T	tert-Butyl ethyl ether (ETBE)	59	6.21	0.631	A	1	A	B
28	T	2-Butanone	43	6.51	0.661	A	1	A	B
29	T	2,2-Dichloropropane	77	6.76	0.687	A	2	A	B
30	T	cis-1,2-Dichloroethene	96	6.89	0.700	A	1	A	B
31	T	Chloroform	83	7.28	0.740	A	2	A	B
32	T	Bromochloromethane	130	7.66	0.778	A	1	A	B
33	T	Tetrahydrofuran	42	7.76	0.789	A	2	A	B
34	T	tert-Amyl alcohol	59	8.23	0.836	A	1	A	B
35	S	Dibromofluoromethane	111	7.81	0.793	A	1	A	B
36	T	1,1,1-Trichloroethane	97	8.21	0.834	A	2	A	B
37	T	Cyclohexane	84	8.19	0.832	A	1	A	B
38	T	2,2,4-Trimethylpentane	57	8.56	0.870	A	1	A	B
39	T	1,1-Dichloropropene	110	8.58	0.872	A	1	A	B
40	T	Carbon tetrachloride	119	8.75	0.889	A	1	A	B
41	T	tert-Amyl methyl ether (TAME)	73	8.94	0.908	A	2	A	B
42	S	1,2-Dichloroethane-d4	65	8.96	0.910	A	1	A	B
43	T	1,2-Dichloroethane	62	9.15	0.930	A	1	A	B
44	T	Benzene	78	9.13	0.928	A	2	A	B
45	T	Trichloroethene	130	10.43	1.060	A	3	A	B
46	T	Methylcyclohexane	83	10.51	1.068	A	2	A	B
47	T	1,2-Dichloropropane	63	10.79	1.096	A	1	A	B
48	T	1,4-Dioxane	88	11.33	1.151	A	1	A	B
49	T	Bromodichloromethane	83	11.23	1.141	A	1	A	B
50	T	Dibromomethane	93	11.31	1.149	A	2	A	B
51	T	2-Chloroethyl vinyl ether	63	11.94	1.213	A	1	A	B
52	T	4-Methyl-2-pentanone	43	11.98	1.217	A	3	A	B
53	T	cis-1,3-Dichloropropene	75	12.30	1.249	A	3	A	B
54	I	CHLOROBENZENE-D5	117	15.34	1.000	A	2	A	B
55	S	Toluene-d8	98	12.69	0.828	A	1	A	B
56	T	Toluene	91	12.84	0.837	A	1	A	B
57	T	Ethyl methacrylate	69	13.28	0.866	A	1	A	B
58	T	trans-1,3-Dichloropropene	75	13.24	0.863	A	1	A	B
59	T	1,1,2-Trichloroethane	97	13.49	0.880	A	2	A	B
60	T	2-Hexanone	43	13.55	0.884	A	1	A	B
61	T	1,3-Dichloropropane	76	13.93	0.908	A	1	A	B

SC 11/15/24

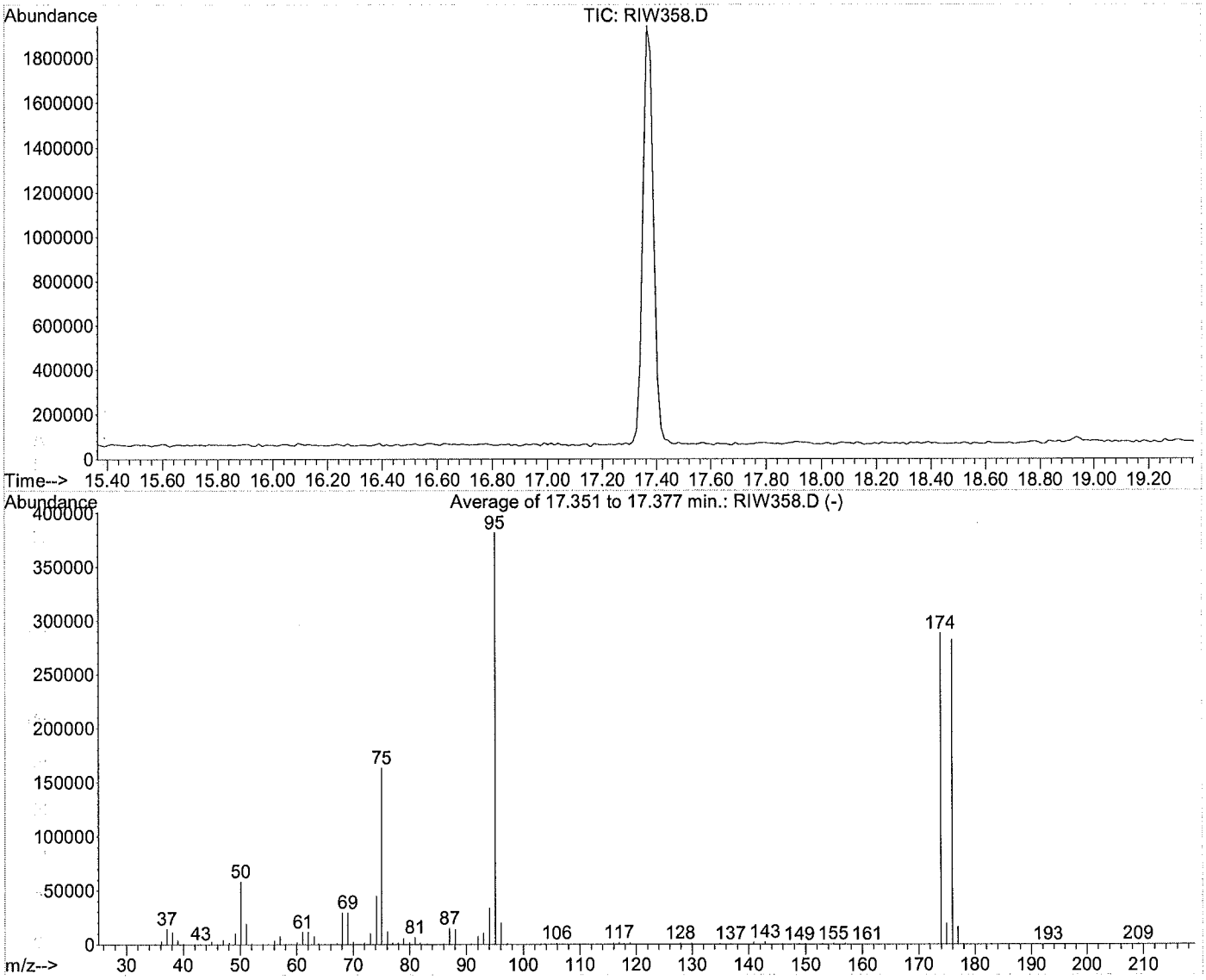
62	T	Tetrachloroethene	164	13.99	0.912	A	3	A	B
63	T	Dibromochloromethane	129	14.33	0.934	A	1	A	B
64	T	2-Ethyl-1-butanol	43	0.00	0.000	A	3	A	B
65	T	1,2-Dibromoethane	107	14.67	0.956	A	1	A	B
66	T	1-Chlorohexane	91	15.02	0.979	A	1	A	B
67	T	Chlorobenzene	112	15.40	1.004	A	1	A	B
68	T	1,1,1,2-Tetrachloroethane	131	15.49	1.010	A	1	A	B
69	T	Ethylbenzene	91	15.51	1.011	A	1	A	B
70	T	m-Xylene & p-Xylene	91	15.65	1.020	A	1	A	B
71	T	o-Xylene	91	16.36	1.067	A	1	A	B
72	T	Styrene	104	16.44	1.072	A	2	A	B
73	T	Isopropylbenzene	105	16.99	1.107	A	3	A	B
74	I	1,2-DICHLOROBENZENE-D4	152	19.28	1.000	A	1	A	B
75	T	Bromoform	173	16.97	0.880	A	2	A	B
76	T	1,1,2,2-Tetrachloroethane	83	17.27	0.896	A	1	A	B
77	S	4-Bromofluorobenzene	95	17.38	0.901	A	2	A	B
78	T	1,2,3-Trichloropropane	110	17.49	0.907	A	1	A	B
79	T	trans-1,4-Dichloro-2-butene	53	17.60	0.912	A	1	A	B
80	T	n-Propylbenzene	91	17.60	0.912	A	2	A	B
81	T	Bromobenzene	156	17.64	0.915	A	1	A	B
82	T	1,3,5-Trimethylbenzene	105	17.82	0.924	A	2	A	B
83	T	2-Chlorotoluene	91	17.83	0.925	A	1	A	B
84	T	4-Chlorotoluene	91	17.90	0.928	A	1	A	B
85	T	tert-Butylbenzene	134	18.29	0.948	A	1	A	B
86	T	1,2,4-Trimethylbenzene	105	18.32	0.950	A	1	A	B
87	T	sec-Butylbenzene	105	18.53	0.961	A	1	A	B
88	T	p-Isopropyltoluene	119	18.70	0.970	A	2	A	B
89	T	1,3-Dichlorobenzene	146	18.79	0.974	A	2	A	B
90	T	1,2,3-Trimethylbenzene	105	18.87	0.978	A	2	A	B
91	T	1,4-Dichlorobenzene	146	18.92	0.981	A	2	A	B
92	T	n-Butylbenzene	91	19.14	0.993	A	2	A	B
93	T	1,2-Dichlorobenzene	146	19.31	1.001	A	1	A	B
94	T	1,2-Dibromo-3-chloropropane	157	20.08	1.041	A	1	A	B
95	T	1,2,4-Trichlorobenzene	180	20.91	1.084	A	2	A	B
96	T	Hexachlorobutadiene	225	21.04	1.091	Q	2	A	B
97	T	Naphthalene	128	21.17	1.098	A	1	A	B
98	T	1,2,3-Trichlorobenzene	180	21.41	1.110	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

VO06J19.M Thu Nov 14 17:17:50 2024

11/15/24

Data File : D:\HPCHEM\1\DATA\24J19\RIW358.D Vial: 1
Acq On : 19 Oct 2024 3:14 pm Operator: DHguye
Sample : BFB06J17 Inst : 06
Misc : T/CHK Multiplr: 1.00
MS Integration Params: RTE.P
Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260



AutoFind: Scans 831, 832, 833; Background Corrected with Scan 825

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.3	58299	PASS
75	95	30	60	42.8	163520	PASS
95	95	100	100	100.0	381632	PASS
96	95	5	9	5.2	19848	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	75.6	288384	PASS
175	174	5	9	6.7	19404	PASS
176	174	95	101	98.0	282517	PASS
177	176	5	9	5.8	16322	PASS

RIW358.D VO06J19.M Wed Nov 13 17:29:50 2024

SR 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW359.D Vial: 2
Acq On : 19 Oct 2024 3:59 pm Operator: DHguye
Sample : VO06J191 0.03/0.15uL Inst : 06
Misc : 0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	3873628	10.00	ug/l		0.00
54) CHLOROBENZENE-D5	15.34	117	2437247	10.00	ug/l		0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1130716	10.00	ug/l		0.00
System Monitoring Compounds							
35) Dibromofluoromethane	7.83	111	21331	0.22	ug/l		0.02
Spiked Amount 10.000			Recovery = 2.20%				
42) 1,2-Dichloroethane-d4	8.96	65	17510	0.27	ug/l		0.00
Spiked Amount 10.000			Recovery = 2.70%				
55) Toluene-d8	12.72	98	76024	0.23	ug/l		0.02
Spiked Amount 10.000			Recovery = 2.30%				
77) 4-Bromofluorobenzene	17.38	95	24652	0.20	ug/l		0.00
Spiked Amount 10.000			Recovery = 2.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.58	85	51431	0.37	ug/l		83
3) Chloromethane	1.80	50	30715	0.23	ug/l		88
4) Vinyl chloride	1.90	62	30410	0.28	ug/l		100
5) Bromomethane	2.33	94	35087	0.36	ug/l	#	63
6) Chloroethane	2.41	64	18236	0.25	ug/l		82
7) Dichlorofluoromethane	2.47	67	62543	0.35	ug/l		89
8) Trichlorofluoromethane	2.71	101	45844	0.32	ug/l		96
9) Acrolein	3.22	56	11651	2.91	ug/l		100
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	30592	0.37	ug/l		89
11) Acetone	3.30	43	30095	2.51	ug/l	#	34
12) 1,1-Dichloroethene	3.45	61	61738	0.35	ug/l		93
13) tert-Butyl alcohol	3.59	59	23677	7.15	ug/l		78
15) Methyl acetate	3.99	74	2562	0.31	ug/l	#	53
16) Iodomethane	3.87	142	56115	0.31	ug/l		93
17) Allyl chloride	3.99	76	20902	0.30	ug/l	#	25
18) Methylene chloride	4.16	49	42462	0.33	ug/l		93
19) Carbon disulfide	4.14	76	80670	0.37	ug/l		99
20) Acrylonitrile	4.41	53	22306	1.39	ug/l		92
21) tert-Butyl methyl ether (M	4.45	73	56355	0.30	ug/l		65
22) trans-1,2-Dichloroethene	4.66	96	48646	0.37	ug/l		91
23) Isopropyl ether (DIPE)	5.33	45	93506	0.27	ug/l		97
24) Vinyl acetate	5.59	43	19648	0.16	ug/l		98
25) 1,1-Dichloroethane	5.48	63	61147	0.31	ug/l		96
26) 2-Butanol	6.11	45	9436	2.84	ug/l	#	60
27) tert-Butyl ethyl ether (ET	6.24	59	68637	0.27	ug/l		96
28) 2-Butanone	6.55	43	24550	1.21	ug/l		93
29) 2,2-Dichloropropane	6.76	77	49735	0.43	ug/l		86
30) cis-1,2-Dichloroethene	6.89	96	39814	0.31	ug/l		97
31) Chloroform	7.28	83	67569	0.35	ug/l		97
32) Bromochloromethane	7.66	130	14411	0.27	ug/l		69
33) Tetrahydrofuran	7.83	42	7407	0.64	ug/l	#	51
36) 1,1,1-Trichloroethane	8.21	97	54364	0.35	ug/l		97
37) Cyclohexane	8.21	84	71226	0.37	ug/l		83
39) 1,1-Dichloropropene	8.58	110	19206	0.34	ug/l		91
40) Carbon tetrachloride	8.77	119	39781	0.31	ug/l		95
41) tert-Amyl methyl ether (TA	8.94	73	62094	0.29	ug/l		99

(#) = qualifier out of range (m) = manual integration
RIW359.D VO06J19.M Thu Nov 14 17:14:48 2024

11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW359.D Vial: 2
Acq On : 19 Oct 2024 3:59 pm Operator: DHguye
Sample : VO06J191 0.03/0.15uL Inst : 06
Misc : 0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	1,2-Dichloroethane	9.17	62	18661	0.24	ug/l		74
44)	Benzene	9.15	78	132746	0.30	ug/l		98
45)	Trichloroethene	10.45	130	33073	0.28	ug/l		93
46)	Methylcyclohexane	10.51	83	99852	0.41	ug/l		98
47)	1,2-Dichloropropane	10.81	63	26285	0.27	ug/l		95
48)	1,4-Dioxane	11.35	88	2805	7.92	ug/l		71
49)	Bromodichloromethane	11.25	83	37681	0.30	ug/l		86
50)	Dibromomethane	11.31	93	12203	0.26	ug/l		86
51)	2-Chloroethyl vinyl ether	11.96	63	4725	0.15	ug/l	#	17
52)	4-Methyl-2-pentanone	12.00	43	58008	1.08	ug/l		95
53)	cis-1,3-Dichloropropene	12.32	75	35337	0.23	ug/l		95
56)	Toluene	12.84	91	116264	0.29	ug/l		97
57)	Ethyl methacrylate	13.30	69	16119	0.25	ug/l		87
58)	trans-1,3-Dichloropropene	13.24	75	20882	0.22	ug/l		99
59)	1,1,2-Trichloroethane	13.49	97	12765	0.25	ug/l		92
60)	2-Hexanone	13.60	43	37049	1.29	ug/l		98
61)	1,3-Dichloropropane	13.93	76	22374	0.25	ug/l		92
62)	Tetrachloroethene	14.00	164	25839	0.30	ug/l		98
63)	Dibromochloromethane	14.35	129	16791	0.27	ug/l		100
65)	1,2-Dibromoethane	14.67	107	10551	0.23	ug/l		89
66)	1-Chlorohexane	15.02	91	48966	0.30	ug/l		83
67)	Chlorobenzene	15.40	112	60407	0.27	ug/l		93
68)	1,1,1,2-Tetrachloroethane	15.49	131	22479	0.30	ug/l		89
69)	Ethylbenzene	15.52	91	127242	0.29	ug/l		99
70)	m-Xylene & p-Xylene	15.65	91	194526	0.60	ug/l		91
71)	o-Xylene	16.38	91	105907	0.32	ug/l		96
72)	Styrene	16.44	104	60620	0.26	ug/l		96
73)	Isopropylbenzene	16.99	105	143883	0.34	ug/l		97
75)	Bromoform	16.97	173	5872	0.17	ug/l		85
76)	1,1,2,2-Tetrachloroethane	17.27	83	13724	0.22	ug/l		99
78)	1,2,3-Trichloropropane	17.49	110	3418	0.22	ug/l		57
79)	trans-1,4-Dichloro-2-buten	17.61	53	3194	0.22	ug/l		79
80)	n-Propylbenzene	17.61	91	174057	0.28	ug/l		96
81)	Bromobenzene	17.64	156	21503	0.21	ug/l		98
82)	1,3,5-Trimethylbenzene	17.82	105	106599	0.27	ug/l		98
83)	2-Chlorotoluene	17.83	91	104802	0.28	ug/l		91
84)	4-Chlorotoluene	17.90	91	78836	0.24	ug/l		98
85)	tert-Butylbenzene	18.28	134	21372	0.24	ug/l		81
86)	1,2,4-Trimethylbenzene	18.32	105	103231	0.27	ug/l		95
87)	sec-Butylbenzene	18.53	105	165247	0.30	ug/l		95
88)	p-Isopropyltoluene	18.70	119	136337	0.31	ug/l		98
89)	1,3-Dichlorobenzene	18.79	146	49998	0.26	ug/l		98
90)	1,2,3-Trimethylbenzene	18.88	105	97478	0.29	ug/l		95
91)	1,4-Dichlorobenzene	18.92	146	47042	0.25	ug/l		97
92)	n-Butylbenzene	19.14	91	143713	0.34	ug/l		99
93)	1,2-Dichlorobenzene	19.31	146	42549	0.27	ug/l		89
94)	1,2-Dibromo-3-chloropropan	20.08	157	3731	0.39	ug/l		98
95)	1,2,4-Trichlorobenzene	20.91	180	30029	0.32	ug/l		97
96)	Hexachlorobutadiene	21.04	225	21772	0.36	ug/l		88
97)	Naphthalene	21.18	128	41886	0.32	ug/l		86

(#) = qualifier out of range (m) = manual integration
RIW359.D VO06J19.M Thu Nov 14 17:14:49 2024

11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW359.D Vial: 2
Acq On : 19 Oct 2024 3:59 pm Operator: DHguye
Sample : VO06J191 0.03/0.15uL Inst : 06
Misc : 0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	23548	0.34	ug/l	92

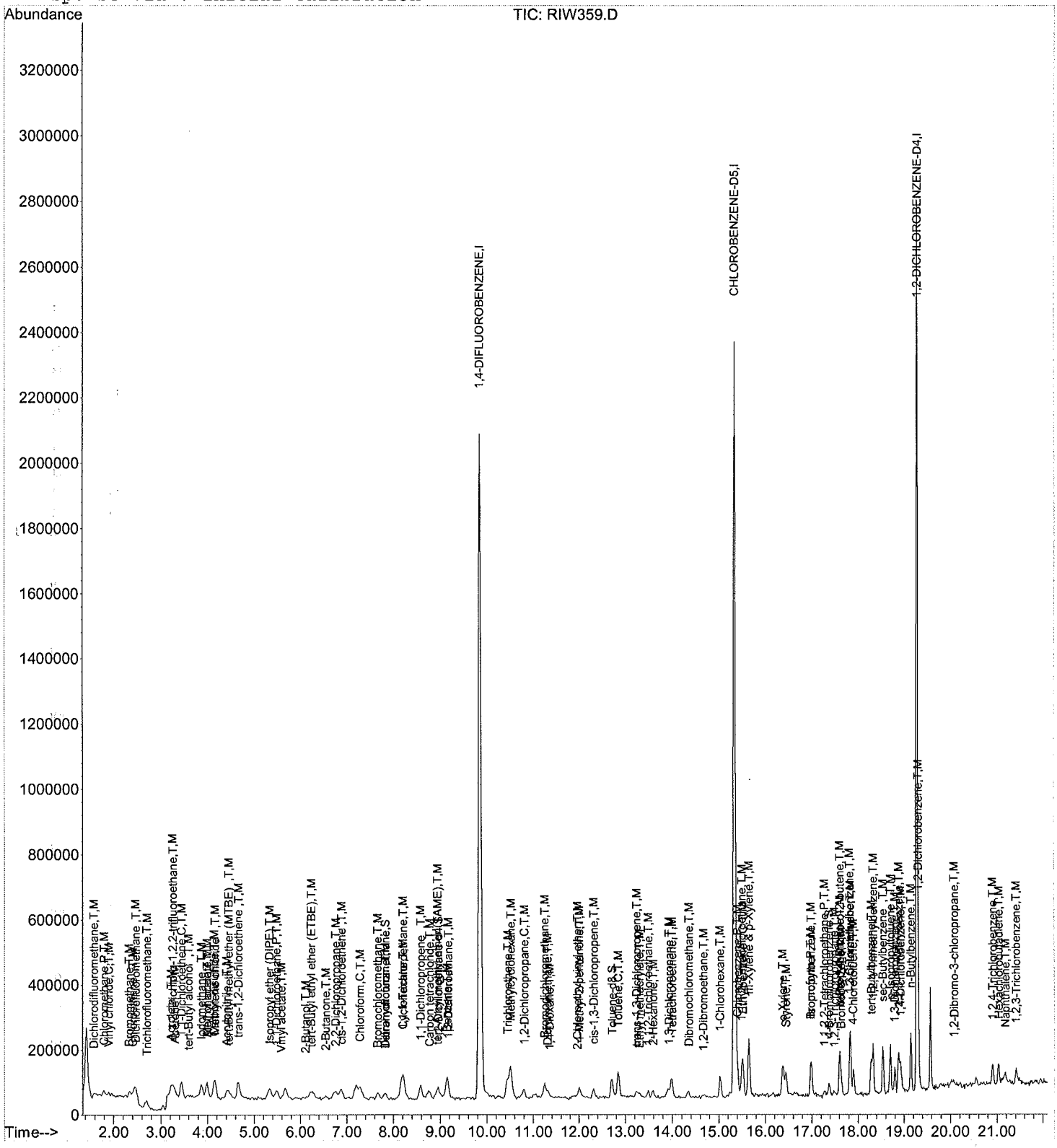
SM 11/15/24

(#) = qualifier out of range (m) = manual integration
RIW359.D VO06J19.M Thu Nov 14 17:14:49 2024

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW359.D Vial: 2
Acq On : 19 Oct 2024 3:59 pm Operator: DHguye
Sample : VO06J191 0.03/0.15uL Inst : 06
Misc : 0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW360.D Vial: 3
Acq On : 19 Oct 2024 4:26 pm Operator: DHguye
Sample : VO06J192 0.05/0.25uL Inst : 06
Misc : 0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4266421	10.00	ug/l		0.00
54) CHLOROBENZENE-D5	15.34	117	3129827	10.00	ug/l		0.00
74) 1,2-DICHLOROBENZENE-D4	19.29	152	1167572	10.00	ug/l		0.00
System Monitoring Compounds							
35) Dibromofluoromethane	7.81	111	47223	0.45	ug/l		0.00
Spiked Amount 10.000			Recovery = 4.50%				
42) 1,2-Dichloroethane-d4	8.96	65	32759	0.45	ug/l		0.00
Spiked Amount 10.000			Recovery = 4.50%				
55) Toluene-d8	12.72	98	196492	0.45	ug/l		0.02
Spiked Amount 10.000			Recovery = 4.50%				
77) 4-Bromofluorobenzene	17.38	95	57389	0.44	ug/l		0.00
Spiked Amount 10.000			Recovery = 4.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.58	85	70384	0.46	ug/l		98
3) Chloromethane	1.80	50	65743	0.45	ug/l		99
4) Vinyl chloride	1.90	62	48099	0.41	ug/l		98
5) Bromomethane	2.33	94	41963	0.39	ug/l		98
6) Chloroethane	2.43	64	34384	0.42	ug/l		77
7) Dichlorofluoromethane	2.47	67	100127	0.50	ug/l		86
8) Trichlorofluoromethane	2.69	101	64003	0.40	ug/l		100
9) Acrolein	3.22	56	11099	2.51	ug/l		90
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	41761	0.46	ug/l		89
11) Acetone	3.30	43	31573	2.39	ug/l		54
12) 1,1-Dichloroethene	3.45	61	92751	0.48	ug/l		97
13) tert-Butyl alcohol	3.59	59	31019	8.50	ug/l		80
15) Methyl acetate	3.97	74	4703	0.52	ug/l	#	29
16) Iodomethane	3.87	142	92708	0.47	ug/l		98
17) Allyl chloride	3.99	76	37487	0.48	ug/l		85
18) Methylene chloride	4.16	49	68393	0.48	ug/l		89
19) Carbon disulfide	4.14	76	94966	0.39	ug/l		100
20) Acrylonitrile	4.41	53	37342	2.12	ug/l		98
21) tert-Butyl methyl ether (M	4.45	73	97601	0.47	ug/l		84
22) trans-1,2-Dichloroethene	4.66	96	71102	0.49	ug/l		98
23) Isopropyl ether (DIPE)	5.33	45	184672	0.48	ug/l		99
24) Vinyl acetate	5.59	43	50219	0.38	ug/l		93
25) 1,1-Dichloroethane	5.48	63	104758	0.49	ug/l		97
26) 2-Butanol	6.09	45	17039	4.66	ug/l	#	60
27) tert-Butyl ethyl ether (ET	6.24	59	137055	0.49	ug/l		99
28) 2-Butanone	6.53	43	36460	1.64	ug/l		76
29) 2,2-Dichloropropane	6.76	77	67616	0.52	ug/l		88
30) cis-1,2-Dichloroethene	6.89	96	66197	0.47	ug/l		95
31) Chloroform	7.28	83	113317	0.53	ug/l		99
32) Bromochloromethane	7.66	130	28662	0.48	ug/l		85
33) Tetrahydrofuran	7.83	42	6344	0.50	ug/l		76
36) 1,1,1-Trichloroethane	8.21	97	85512	0.50	ug/l		97
37) Cyclohexane	8.19	84	98565	0.46	ug/l		94
39) 1,1-Dichloropropene	8.58	110	30084	0.48	ug/l		99
40) Carbon tetrachloride	8.77	119	66986	0.48	ug/l		98
41) tert-Amyl methyl ether (TA	8.94	73	114860	0.48	ug/l		96

(#) = qualifier out of range (m) = manual integration
RIW360.D VO06J19.M Thu Nov 14 17:14:58 2024 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW360.D Vial: 3
Acq On : 19 Oct 2024 4:26 pm Operator: DHguye
Sample : VO06J192 0.05/0.25uL Inst : 06
Misc : 0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.17	62	39502	0.45	ug/l	85
44)	Benzene	9.15	78	252773	0.51	ug/l	99
45)	Trichloroethene	10.43	130	64779	0.50	ug/l	95
46)	Methylcyclohexane	10.51	83	132385	0.50	ug/l	97
47)	1,2-Dichloropropane	10.81	63	50723	0.47	ug/l	95
48)	1,4-Dioxane	11.37	88	2559	6.56	ug/l	96
49)	Bromodichloromethane	11.25	83	70219	0.50	ug/l	81
50)	Dibromomethane	11.31	93	27856	0.54	ug/l	85
51)	2-Chloroethyl vinyl ether	11.94	63	18364	0.52	ug/l	91
52)	4-Methyl-2-pentanone	12.00	43	127398	2.15	ug/l	98
53)	cis-1,3-Dichloropropene	12.32	75	81527	0.49	ug/l	98
56)	Toluene	12.84	91	267102	0.51	ug/l	96
57)	Ethyl methacrylate	13.30	69	37448	0.44	ug/l	97
58)	trans-1,3-Dichloropropene	13.24	75	57814	0.47	ug/l	87
59)	1,1,2-Trichloroethane	13.49	97	33345	0.51	ug/l	93
60)	2-Hexanone	13.57	43	78910	2.13	ug/l	98
61)	1,3-Dichloropropane	13.93	76	55694	0.48	ug/l	88
62)	Tetrachloroethene	13.99	164	56230	0.51	ug/l	98
63)	Dibromochloromethane	14.33	129	42516	0.53	ug/l	99
65)	1,2-Dibromoethane	14.69	107	27686	0.46	ug/l	100
66)	1-Chlorohexane	15.02	91	121723	0.58	ug/l	83
67)	Chlorobenzene	15.40	112	143445	0.51	ug/l	96
68)	1,1,1,2-Tetrachloroethane	15.50	131	43442	0.45	ug/l	84
69)	Ethylbenzene	15.52	91	299318	0.53	ug/l	92
70)	m-Xylene & p-Xylene	15.65	91	447450	1.07	ug/l	94
71)	o-Xylene	16.38	91	216406	0.51	ug/l	94
72)	Styrene	16.44	104	160191	0.53	ug/l	98
73)	Isopropylbenzene	16.99	105	268902	0.49	ug/l	97
75)	Bromoform	16.97	173	16530	0.45	ug/l	95
76)	1,1,2,2-Tetrachloroethane	17.27	83	29688	0.47	ug/l	95
78)	1,2,3-Trichloropropane	17.49	110	8249	0.51	ug/l	64
79)	trans-1,4-Dichloro-2-buten	17.61	53	8306	0.55	ug/l	97
80)	n-Propylbenzene	17.60	91	356754	0.55	ug/l	96
81)	Bromobenzene	17.64	156	53480	0.51	ug/l	97
82)	1,3,5-Trimethylbenzene	17.82	105	216449	0.53	ug/l	100
83)	2-Chlorotoluene	17.83	91	210967	0.54	ug/l	92
84)	4-Chlorotoluene	17.90	91	169627	0.50	ug/l	93
85)	tert-Butylbenzene	18.27	134	44167	0.49	ug/l	94
86)	1,2,4-Trimethylbenzene	18.32	105	219597	0.55	ug/l	93
87)	sec-Butylbenzene	18.53	105	298451	0.53	ug/l	97
88)	p-Isopropyltoluene	18.70	119	235836	0.53	ug/l	99
89)	1,3-Dichlorobenzene	18.79	146	109725	0.54	ug/l	100
90)	1,2,3-Trimethylbenzene	18.87	105	179201	0.51	ug/l	96
91)	1,4-Dichlorobenzene	18.92	146	99221	0.51	ug/l	99
92)	n-Butylbenzene	19.14	91	226951	0.52	ug/l	95
93)	1,2-Dichlorobenzene	19.31	146	83034	0.50	ug/l	96
94)	1,2-Dibromo-3-chloropropan	20.08	157	5654	0.57	ug/l	72
95)	1,2,4-Trichlorobenzene	20.91	180	44954	0.47	ug/l	98
96)	Hexachlorobutadiene	21.02	225	27926	0.45	ug/l	88
97)	Naphthalene	21.17	128	60425	0.45	ug/l	92

(#) = qualifier out of range (m) = manual integration

SC 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW360.D Vial: 3
Acq On : 19 Oct 2024 4:26 pm Operator: DHguye
Sample : VO06J192 0.05/0.25uL Inst : 06
Misc : 0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	30910	0.43	ug/l	88

SA

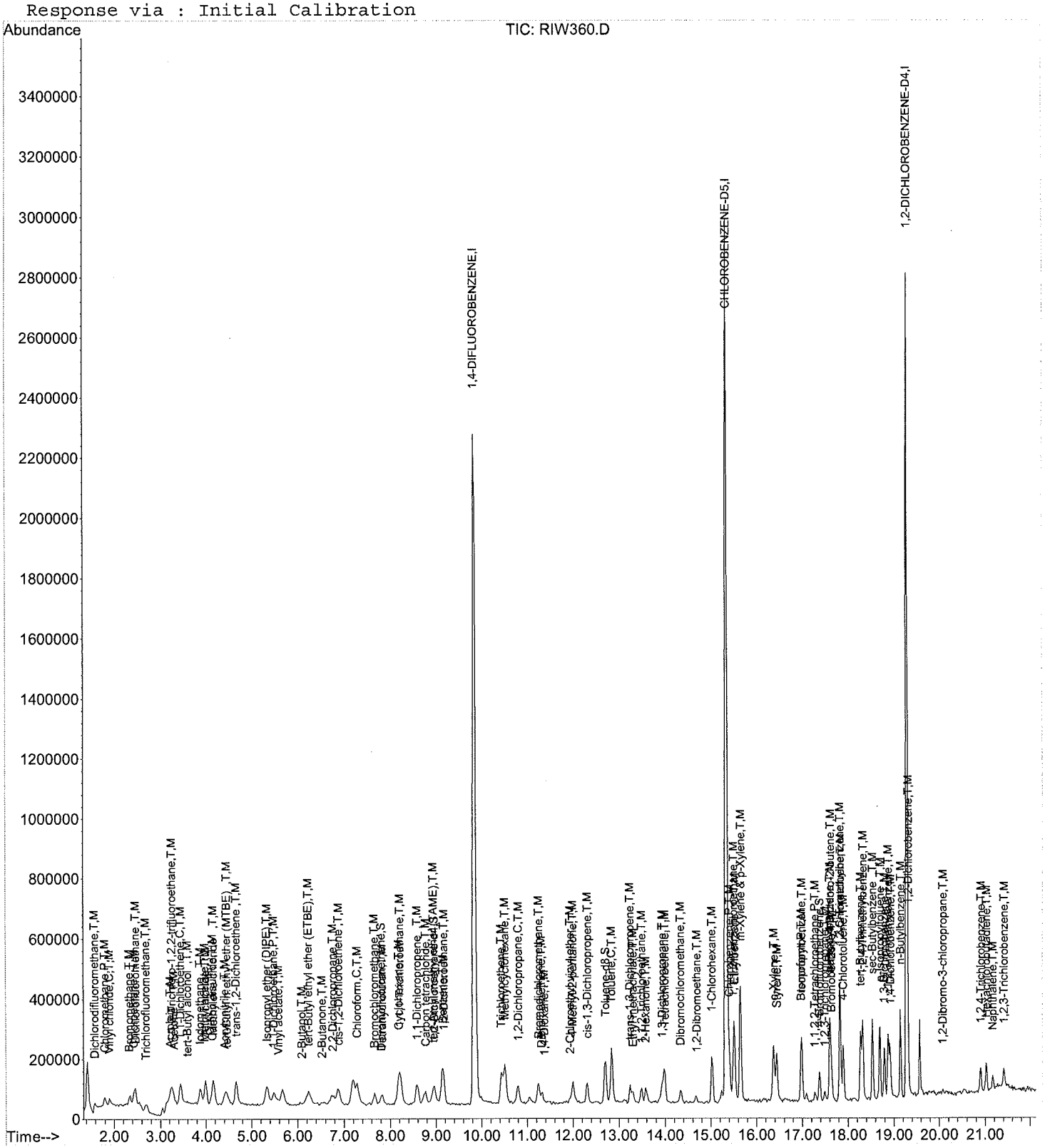
(#) = qualifier out of range (m) = manual integration
RIW360.D VO06J19.M Thu Nov 14 17:14:59 2024

11/15/24

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW360.D Vial: 3
Acq On : 19 Oct 2024 4:26 pm Operator: DHguye
Sample : VO06J192 0.05/0.25uL Inst : 06
Misc : 0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW361.D Vial: 4
Acq On : 19 Oct 2024 4:53 pm Operator: DHguye
Sample : VO06J193 0.10/0.50uL Inst : 06
Misc : 1.0ppb 8260/5.0ppb KET-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4117614	10.00	ug/l		0.00
54) CHLOROBENZENE-D5	15.34	117	3032047	10.00	ug/l		0.00
74) 1,2-DICHLOROBENZENE-D4	19.29	152	1190509	10.00	ug/l		0.00
System Monitoring Compounds							
35) Dibromofluoromethane	7.81	111	84348	0.84	ug/l		0.00
Spiked Amount 10.000			Recovery =	8.40%			
42) 1,2-Dichloroethane-d4	8.96	65	59720	0.86	ug/l		0.00
Spiked Amount 10.000			Recovery =	8.60%			
55) Toluene-d8	12.72	98	368008	0.88	ug/l		0.02
Spiked Amount 10.000			Recovery =	8.80%			
77) 4-Bromofluorobenzene	17.38	95	107382	0.81	ug/l		0.00
Spiked Amount 10.000			Recovery =	8.10%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.56	85	130198	0.89	ug/l		95
3) Chloromethane	1.78	50	131051	0.92	ug/l		98
4) Vinyl chloride	1.90	62	106350	0.93	ug/l		98
5) Bromomethane	2.33	94	89575	0.86	ug/l		87
6) Chloroethane	2.41	64	79028	1.01	ug/l		97
7) Dichlorofluoromethane	2.45	67	198554	1.03	ug/l		91
8) Trichlorofluoromethane	2.69	101	130678	0.85	ug/l		97
9) Acrolein	3.22	56	21967	5.15	ug/l		98
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	83871	0.96	ug/l		93
11) Acetone	3.30	43	71259	5.59	ug/l		92
12) 1,1-Dichloroethene	3.45	61	183291	0.98	ug/l		96
13) tert-Butyl alcohol	3.59	59	77817	22.09	ug/l		64
15) Methyl acetate	3.97	74	8963	1.04	ug/l	#	30
16) Iodomethane	3.87	142	185300	0.97	ug/l		99
17) Allyl chloride	3.99	76	71014	0.95	ug/l		91
18) Methylene chloride	4.16	49	131784	0.96	ug/l		96
19) Carbon disulfide	4.14	76	212747	0.91	ug/l		100
20) Acrylonitrile	4.41	53	78571	4.62	ug/l		98
21) tert-Butyl methyl ether (M	4.45	73	193109	0.97	ug/l		96
22) trans-1,2-Dichloroethene	4.66	96	133461	0.96	ug/l		100
23) Isopropyl ether (DIPE)	5.33	45	351793	0.95	ug/l		98
24) Vinyl acetate	5.56	43	103055	0.81	ug/l		97
25) 1,1-Dichloroethane	5.48	63	210546	1.01	ug/l		98
26) 2-Butanol	6.07	45	61337	17.37	ug/l	#	60
27) tert-Butyl ethyl ether (ET	6.24	59	278771	1.02	ug/l		97
28) 2-Butanone	6.51	43	105795	4.92	ug/l		97
29) 2,2-Dichloropropane	6.76	77	127351	1.02	ug/l		90
30) cis-1,2-Dichloroethene	6.89	96	134938	1.00	ug/l		96
31) Chloroform	7.28	83	206827	1.00	ug/l		100
32) Bromochloromethane	7.66	130	54891	0.96	ug/l		91
33) Tetrahydrofuran	7.83	42	15494	1.26	ug/l		91
36) 1,1,1-Trichloroethane	8.21	97	162381	0.98	ug/l		98
37) Cyclohexane	8.21	84	194618	0.94	ug/l		91
39) 1,1-Dichloropropene	8.58	110	62458	1.03	ug/l		96
40) Carbon tetrachloride	8.75	119	131508	0.98	ug/l		99
41) tert-Amyl methyl ether (TA	8.94	73	230072	1.00	ug/l		97

(#) = qualifier out of range (m) = manual integration
RIW361.D VO06J19.M Thu Nov 14 17:15:09 2024

11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW361.D Vial: 4
Acq On : 19 Oct 2024 4:53 pm Operator: DHguye
Sample : VO06J193 0.10/0.50uL Inst : 06
Misc : 1.0ppb 8260/5.0ppb KET-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	81847	0.98	ug/l	90
44)	Benzene	9.15	78	501292	1.05	ug/l	98
45)	Trichloroethene	10.43	130	123767	0.98	ug/l	95
46)	Methylcyclohexane	10.51	83	243451	0.95	ug/l	99
47)	1,2-Dichloropropane	10.79	63	102474	0.99	ug/l	98
48)	1,4-Dioxane	11.35	88	9364	24.86	ug/l	92
49)	Bromodichloromethane	11.23	83	134625	1.00	ug/l	95
50)	Dibromomethane	11.31	93	50824	1.01	ug/l	94
51)	2-Chloroethyl vinyl ether	11.94	63	33746	0.99	ug/l	93
52)	4-Methyl-2-pentanone	11.98	43	288212	5.03	ug/l	98
53)	cis-1,3-Dichloropropene	12.32	75	157033	0.98	ug/l	99
56)	Toluene	12.84	91	531733	1.06	ug/l	97
57)	Ethyl methacrylate	13.28	69	80865	0.99	ug/l	99
58)	trans-1,3-Dichloropropene	13.24	75	119220	1.01	ug/l	95
59)	1,1,2-Trichloroethane	13.49	97	66929	1.06	ug/l	100
60)	2-Hexanone	13.57	43	167038	4.66	ug/l	100
61)	1,3-Dichloropropane	13.93	76	112661	1.00	ug/l	90
62)	Tetrachloroethene	13.99	164	106485	1.00	ug/l	96
63)	Dibromochloromethane	14.33	129	76158	0.97	ug/l	100
65)	1,2-Dibromoethane	14.69	107	54942	0.95	ug/l	94
66)	1-Chlorohexane	15.02	91	225211	1.10	ug/l	89
67)	Chlorobenzene	15.40	112	280672	1.02	ug/l	99
68)	1,1,1,2-Tetrachloroethane	15.49	131	88670	0.95	ug/l	98
69)	Ethylbenzene	15.52	91	586046	1.08	ug/l	95
70)	m-Xylene & p-Xylene	15.65	91	872617	2.15	ug/l	97
71)	o-Xylene	16.36	91	416960	1.02	ug/l	95
72)	Styrene	16.44	104	300438	1.03	ug/l	98
73)	Isopropylbenzene	16.99	105	553411	1.04	ug/l	97
75)	Bromoform	16.97	173	32268	0.87	ug/l	92
76)	1,1,2,2-Tetrachloroethane	17.27	83	60024	0.93	ug/l	96
78)	1,2,3-Trichloropropane	17.49	110	17809	1.07	ug/l	89
79)	trans-1,4-Dichloro-2-buten	17.61	53	14900	0.97	ug/l	94
80)	n-Propylbenzene	17.60	91	720909	1.09	ug/l	96
81)	Bromobenzene	17.65	156	107690	1.02	ug/l	97
82)	1,3,5-Trimethylbenzene	17.82	105	438322	1.06	ug/l	97
83)	2-Chlorotoluene	17.83	91	432448	1.08	ug/l	89
84)	4-Chlorotoluene	17.90	91	345987	1.01	ug/l	96
85)	tert-Butylbenzene	18.27	134	93567	1.02	ug/l	97
86)	1,2,4-Trimethylbenzene	18.32	105	428419	1.06	ug/l	95
87)	sec-Butylbenzene	18.53	105	605339	1.05	ug/l	99
88)	p-Isopropyltoluene	18.70	119	500213	1.10	ug/l	98
89)	1,3-Dichlorobenzene	18.79	146	207283	1.00	ug/l	99
90)	1,2,3-Trimethylbenzene	18.87	105	370879	1.04	ug/l	99
91)	1,4-Dichlorobenzene	18.92	146	201222	1.01	ug/l	98
92)	n-Butylbenzene	19.14	91	459136	1.02	ug/l	97
93)	1,2-Dichlorobenzene	19.31	146	173949	1.03	ug/l	99
94)	1,2-Dibromo-3-chloropropan	20.08	157	10850	1.07	ug/l	94
95)	1,2,4-Trichlorobenzene	20.91	180	83823	0.86	ug/l	94
96)	Hexachlorobutadiene	21.04	225	59326	0.97	ug/l	97
97)	Naphthalene	21.17	128	119630	0.87	ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW361.D Vial: 4
Acq On : 19 Oct 2024 4:53 pm Operator: DHguye
Sample : VO06J193 0.10/0.50uL Inst : 06
Misc : 1.0ppb 8260/5.0ppb KET-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	61681	0.84	ug/l	99

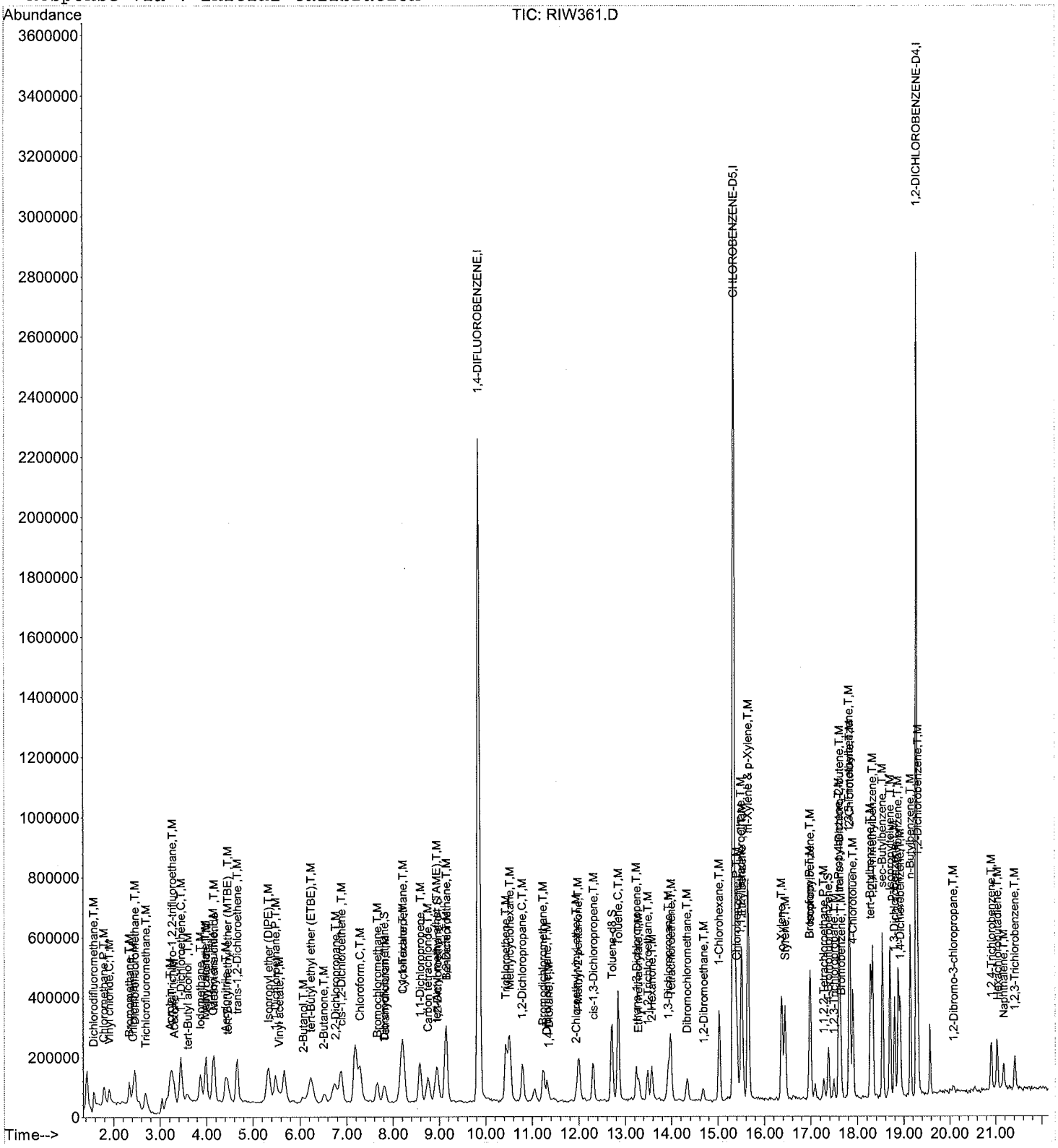
SA 11/15/24

(#) = qualifier out of range (m) = manual integration
RIW361.D VO06J19.M Thu Nov 14 17:15:10 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW361.D Vial: 4
Acq On : 19 Oct 2024 4:53 pm Operator: DHguye
Sample : VO06J193 0.10/0.50uL Inst : 06
Misc : 1.0ppb 8260/5.0ppb KET-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:55 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW362.D Vial: 5
Acq On : 19 Oct 2024 5:19 pm Operator: DHguye
Sample : VO06J194 . 0.20/1.00uL Inst : 06
Misc : 2.0ppb 8260/10ppb KET-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4265248	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	3156664	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.29	152	1293975	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	201876	1.93	ug/l	0.00
Spiked Amount 10.000			Recovery =	19.30%		
42) 1,2-Dichloroethane-d4	8.96	65	140989	1.95	ug/l	0.00
Spiked Amount 10.000			Recovery =	19.50%		
55) Toluene-d8	12.72	98	881406	2.02	ug/l	0.02
Spiked Amount 10.000			Recovery =	20.20%		
77) 4-Bromofluorobenzene	17.38	95	262332	1.82	ug/l	0.00
Spiked Amount 10.000			Recovery =	18.20%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	300971	1.98	ug/l	97
3) Chloromethane	1.80	50	302985	2.05	ug/l	95
4) Vinyl chloride	1.90	62	235444	1.99	ug/l	92
5) Bromomethane	2.33	94	196325	1.83	ug/l	96
6) Chloroethane	2.43	64	157777	1.94	ug/l	99
7) Dichlorofluoromethane	2.45	67	351036	1.76	ug/l	95
8) Trichlorofluoromethane	2.69	101	296350	1.87	ug/l	98
9) Acrolein	3.22	56	43182	9.78	ug/l	88
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	140653	1.55	ug/l	95
11) Acetone	3.30	43	132133	10.01	ug/l	93
12) 1,1-Dichloroethene	3.45	61	317080	1.64	ug/l	96
13) tert-Butyl alcohol	3.59	59	138378	37.93	ug/l	97
15) Methyl acetate	3.97	74	17550	1.96	ug/l	93
16) Iodomethane	3.87	142	343929	1.74	ug/l	98
17) Allyl chloride	3.99	76	130823	1.69	ug/l	94
18) Methylene chloride	4.16	49	243148	1.72	ug/l	98
19) Carbon disulfide	4.14	76	456068	1.89	ug/l	98
20) Acrylonitrile	4.41	53	170592	9.69	ug/l	98
21) tert-Butyl methyl ether (M	4.45	73	345402	1.68	ug/l	98
22) trans-1,2-Dichloroethene	4.66	96	233774	1.62	ug/l	99
23) Isopropyl ether (DIPE)	5.33	45	676426	1.77	ug/l	99
24) Vinyl acetate	5.56	43	245442	1.85	ug/l	94
25) 1,1-Dichloroethane	5.48	63	359398	1.67	ug/l	98
26) 2-Butanol	6.05	45	141467	38.67	ug/l	98
27) tert-Butyl ethyl ether (ET	6.24	59	515466	1.83	ug/l	95
28) 2-Butanone	6.51	43	206825	9.29	ug/l	94
29) 2,2-Dichloropropane	6.76	77	238469	1.85	ug/l	97
30) cis-1,2-Dichloroethene	6.89	96	233715	1.67	ug/l	100
31) Chloroform	7.28	83	356838	1.66	ug/l	98
32) Bromochloromethane	7.66	130	101532	1.71	ug/l	97
33) Tetrahydrofuran	7.79	42	23936	1.88	ug/l	97
36) 1,1,1-Trichloroethane	8.23	97	281268	1.64	ug/l	97
37) Cyclohexane	8.19	84	398765	1.86	ug/l	97
39) 1,1-Dichloropropene	8.58	110	101331	1.61	ug/l	100
40) Carbon tetrachloride	8.75	119	232701	1.67	ug/l	99
41) tert-Amyl methyl ether (TA	8.94	73	423876	1.77	ug/l	98

(#) = qualifier out of range (m) = manual integration

11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW362.D Vial: 5
Acq On : 19 Oct 2024 5:19 pm Operator: DHguye
Sample : VO06J194 0.20/1.00uL Inst : 06
Misc : 2.0ppb 8260/10ppb KET-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	155768	1.79	ug/l	98
44)	Benzene	9.15	78	911456	1.84	ug/l	98
45)	Trichloroethene	10.43	130	217369	1.66	ug/l	99
46)	Methylcyclohexane	10.51	83	500068	1.88	ug/l	98
47)	1,2-Dichloropropane	10.81	63	188833	1.76	ug/l	98
48)	1,4-Dioxane	11.35	88	14605	37.43	ug/l	91
49)	Bromodichloromethane	11.25	83	243137	1.75	ug/l	99
50)	Dibromomethane	11.31	93	90225	1.74	ug/l	97
51)	2-Chloroethyl vinyl ether	11.94	63	57534	1.63	ug/l	90
52)	4-Methyl-2-pentanone	12.00	43	659653	11.11	ug/l	98
53)	cis-1,3-Dichloropropene	12.32	75	293766	1.76	ug/l	98
56)	Toluene	12.84	91	957624	1.83	ug/l	97
57)	Ethyl methacrylate	13.28	69	153790	1.81	ug/l	98
58)	trans-1,3-Dichloropropene	13.24	75	222561	1.81	ug/l	99
59)	1,1,2-Trichloroethane	13.49	97	111625	1.69	ug/l	95
60)	2-Hexanone	13.58	43	406029	10.88	ug/l	97
61)	1,3-Dichloropropane	13.93	76	215502	1.84	ug/l	97
62)	Tetrachloroethene	13.99	164	174401	1.57	ug/l	96
63)	Dibromochloromethane	14.33	129	140087	1.72	ug/l	97
65)	1,2-Dibromoethane	14.69	107	106779	1.77	ug/l	96
66)	1-Chlorohexane	15.02	91	356130	1.67	ug/l	89
67)	Chlorobenzene	15.40	112	502714	1.76	ug/l	100
68)	1,1,1,2-Tetrachloroethane	15.49	131	163794	1.69	ug/l	97
69)	Ethylbenzene	15.52	91	1035338	1.83	ug/l	97
70)	m-Xylene & p-Xylene	15.65	91	1508429	3.56	ug/l	97
71)	o-Xylene	16.38	91	754352	1.77	ug/l	97
72)	Styrene	16.44	104	548063	1.80	ug/l	99
73)	Isopropylbenzene	16.99	105	967195	1.75	ug/l	98
75)	Bromoform	16.97	173	62928	1.56	ug/l	97
76)	1,1,2,2-Tetrachloroethane	17.27	83	126295	1.79	ug/l	90
78)	1,2,3-Trichloropropane	17.49	110	31225	1.73	ug/l	92
79)	trans-1,4-Dichloro-2-buten	17.61	53	26127	1.57	ug/l	91
80)	n-Propylbenzene	17.60	91	1208406	1.67	ug/l	97
81)	Bromobenzene	17.64	156	183045	1.59	ug/l	95
82)	1,3,5-Trimethylbenzene	17.82	105	756501	1.68	ug/l	98
83)	2-Chlorotoluene	17.83	91	754475	1.73	ug/l	91
84)	4-Chlorotoluene	17.90	91	603286	1.61	ug/l	97
85)	tert-Butylbenzene	18.27	134	162662	1.63	ug/l	99
86)	1,2,4-Trimethylbenzene	18.32	105	742884	1.69	ug/l	97
87)	sec-Butylbenzene	18.53	105	1034357	1.65	ug/l	96
88)	p-Isopropyltoluene	18.70	119	828606	1.67	ug/l	99
89)	1,3-Dichlorobenzene	18.79	146	382170	1.70	ug/l	99
90)	1,2,3-Trimethylbenzene	18.87	105	687085	1.77	ug/l	98
91)	1,4-Dichlorobenzene	18.92	146	378153	1.75	ug/l	99
92)	n-Butylbenzene	19.14	91	763375	1.57	ug/l	98
93)	1,2-Dichlorobenzene	19.31	146	323870	1.77	ug/l	100
94)	1,2-Dibromo-3-chloropropan	20.09	157	20160	1.83	ug/l	82
95)	1,2,4-Trichlorobenzene	20.91	180	167442	1.58	ug/l	99
96)	Hexachlorobutadiene	21.04	225	94982	1.43	ug/l	97
97)	Naphthalene	21.17	128	248969	1.67	ug/l	99

(#) = qualifier out of range (m) = manual integration

11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW362.D Vial: 5
Acq On : 19 Oct 2024 5:19 pm Operator: DHguye
Sample : VO06J194 0.20/1.00uL Inst : 06
Misc : 2.0ppb 8260/10ppb KET-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	125391	1.57	ug/l	95

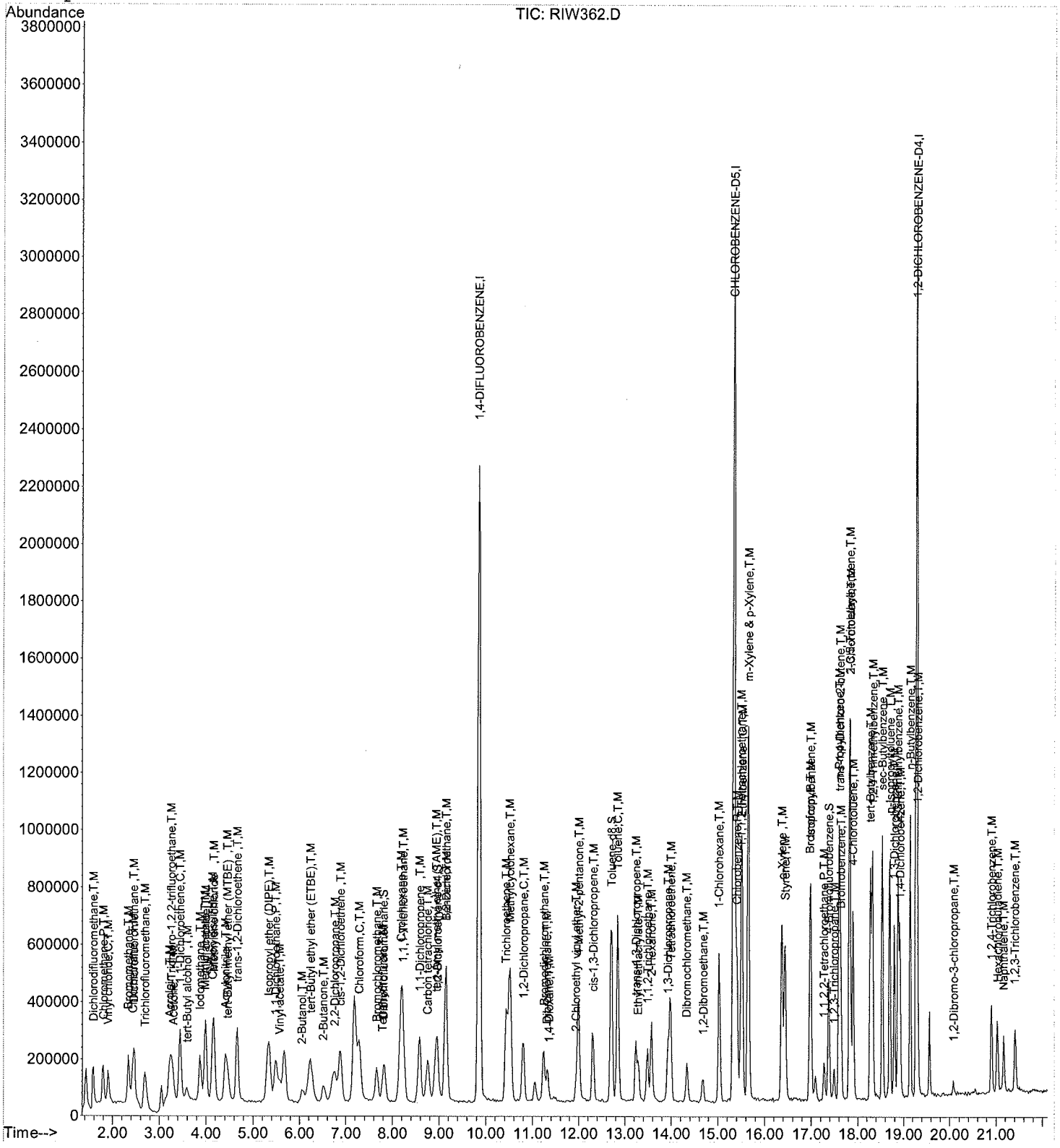
SU 11/15/24

(#) = qualifier out of range (m) = manual integration
RIW362.D VO06J19.M Thu Nov 14 17:15:20 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW362.D Vial: 5
Acq On : 19 Oct 2024 5:19 pm Operator: DHguye
Sample : VO06J194 0.20/1.00uL Inst : 06
Misc : 2.0ppb 8260/10ppb KET-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW363.D Vial: 6
Acq On : 19 Oct 2024 5:45 pm Operator: DHguye
Sample : VO06J195 0.50/2.50uL Inst : 06
Misc : 5.0ppb 8260/25ppb KET-AA/125ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4321200	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	3195275	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1264641	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	495292	4.68	ug/l	0.00
Spiked Amount 10.000			Recovery = 46.80%			
42) 1,2-Dichloroethane-d4	8.96	65	352643	4.81	ug/l	0.00
Spiked Amount 10.000			Recovery = 48.10%			
55) Toluene-d8	12.70	98	2139871	4.85	ug/l	0.00
Spiked Amount 10.000			Recovery = 48.50%			
77) 4-Bromofluorobenzene	17.38	95	617573	4.37	ug/l	0.00
Spiked Amount 10.000			Recovery = 43.70%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	777575	5.06	ug/l	100
3) Chloromethane	1.79	50	796312	5.33	ug/l	99
4) Vinyl chloride	1.91	62	643085	5.37	ug/l	98
5) Bromomethane	2.35	94	555468	5.10	ug/l	98
6) Chloroethane	2.43	64	427134	5.18	ug/l	98
7) Dichlorofluoromethane	2.47	67	1020451	5.05	ug/l	100
8) Trichlorofluoromethane	2.70	101	820550	5.11	ug/l	99
9) Acrolein	3.22	56	109443	24.47	ug/l	92
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	456819	4.97	ug/l	100
11) Acetone	3.30	43	324375	24.26	ug/l	98
12) 1,1-Dichloroethene	3.45	61	989264	5.06	ug/l	99
13) tert-Butyl alcohol	3.59	59	508328	137.52	ug/l	99
15) Methyl acetate	3.97	74	43807	4.82	ug/l	84
16) Iodomethane	3.87	142	1040365	5.19	ug/l	100
17) Allyl chloride	3.99	76	387438	4.95	ug/l	97
18) Methylene chloride	4.16	49	723677	5.04	ug/l	99
19) Carbon disulfide	4.14	76	1221551	4.99	ug/l	98
20) Acrylonitrile	4.39	53	457742	25.66	ug/l	98
21) tert-Butyl methyl ether (M	4.45	73	1077655	5.17	ug/l	99
22) trans-1,2-Dichloroethene	4.66	96	732155	5.00	ug/l	98
23) Isopropyl ether (DIPE)	5.33	45	2023190	5.23	ug/l	98
24) Vinyl acetate	5.57	43	682707	5.09	ug/l	98
25) 1,1-Dichloroethane	5.48	63	1101105	5.05	ug/l	99
26) 2-Butanol	6.05	45	448822	121.09	ug/l	98
27) tert-Butyl ethyl ether (ET	6.24	59	1452018	5.08	ug/l	99
28) 2-Butanone	6.51	43	585514	25.97	ug/l	100
29) 2,2-Dichloropropane	6.76	77	685068	5.25	ug/l	99
30) cis-1,2-Dichloroethene	6.89	96	708337	5.01	ug/l	99
31) Chloroform	7.28	83	1065274	4.90	ug/l	99
32) Bromochloromethane	7.66	130	306920	5.10	ug/l	98
33) Tetrahydrofuran	7.79	42	64331	4.98	ug/l	97
36) 1,1,1-Trichloroethane	8.21	97	869413	5.01	ug/l	100
37) Cyclohexane	8.19	84	1074090	4.95	ug/l	96
39) 1,1-Dichloropropene	8.58	110	305739	4.78	ug/l	97
40) Carbon tetrachloride	8.75	119	732714	5.18	ug/l	100
41) tert-Amyl methyl ether (TA	8.94	73	1234117	5.10	ug/l	99

(#) = qualifier out of range (m) = manual integration
RIW363.D VO06J19.M Thu Nov 14 17:15:31 2024 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW363.D Vial: 6
Acq On : 19 Oct 2024 5:45 pm Operator: DHguye
Sample : VO06J195 0.50/2.50uL Inst : 06
Misc : 5.0ppb 8260/25ppb KET-AA/125ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43) 1,2-Dichloroethane	9.15	62	460646	5.23	ug/l	99
44) Benzene	9.13	78	2680890	5.35	ug/l	99
45) Trichloroethene	10.43	130	687235	5.20	ug/l	99
46) Methylcyclohexane	10.51	83	1302948	4.83	ug/l	99
47) 1,2-Dichloropropane	10.79	63	555376	5.10	ug/l	98
48) 1,4-Dioxane	11.33	88	38252	96.77	ug/l	90
49) Bromodichloromethane	11.23	83	713857	5.07	ug/l	99
50) Dibromomethane	11.31	93	262350	4.98	ug/l	98
51) 2-Chloroethyl vinyl ether	11.94	63	169481	4.75	ug/l	97
52) 4-Methyl-2-pentanone	11.98	43	1641024	27.29	ug/l	98
53) cis-1,3-Dichloropropene	12.30	75	889297	5.27	ug/l	99
56) Toluene	12.84	91	2810025	5.30	ug/l	98
57) Ethyl methacrylate	13.28	69	445141	5.18	ug/l	99
58) trans-1,3-Dichloropropene	13.24	75	648038	5.20	ug/l	99
59) 1,1,2-Trichloroethane	13.49	97	338466	5.08	ug/l	97
60) 2-Hexanone	13.55	43	1014397	26.85	ug/l	99
61) 1,3-Dichloropropane	13.93	76	612861	5.16	ug/l	99
62) Tetrachloroethene	14.00	164	571090	5.07	ug/l	97
63) Dibromochloromethane	14.33	129	426622	5.17	ug/l	98
65) 1,2-Dibromoethane	14.67	107	326270	5.36	ug/l	99
66) 1-Chlorohexane	15.02	91	1107319	5.12	ug/l	92
67) Chlorobenzene	15.40	112	1565582	5.40	ug/l	98
68) 1,1,1,2-Tetrachloroethane	15.49	131	497418	5.08	ug/l	100
69) Ethylbenzene	15.51	91	3037982	5.31	ug/l	99
70) m-Xylene & p-Xylene	15.65	91	4487257	10.47	ug/l	99
71) o-Xylene	16.36	91	2248949	5.21	ug/l	99
72) Styrene	16.44	104	1651432	5.35	ug/l	99
73) Isopropylbenzene	16.99	105	3001756	5.36	ug/l	99
75) Bromoform	16.97	173	188949	4.79	ug/l	96
76) 1,1,2,2-Tetrachloroethane	17.27	83	365138	5.31	ug/l	95
78) 1,2,3-Trichloropropane	17.49	110	87454	4.97	ug/l	99
79) trans-1,4-Dichloro-2-buten	17.61	53	79220	4.86	ug/l	96
80) n-Propylbenzene	17.60	91	3693307	5.24	ug/l	99
81) Bromobenzene	17.64	156	579110	5.14	ug/l	100
82) 1,3,5-Trimethylbenzene	17.82	105	2323531	5.28	ug/l	100
83) 2-Chlorotoluene	17.83	91	2337594	5.49	ug/l	94
84) 4-Chlorotoluene	17.90	91	1825593	5.00	ug/l	95
85) tert-Butylbenzene	18.28	134	507873	5.19	ug/l	98
86) 1,2,4-Trimethylbenzene	18.32	105	2276114	5.29	ug/l	100
87) sec-Butylbenzene	18.53	105	3191817	5.21	ug/l	99
88) p-Isopropyltoluene	18.70	119	2611617	5.39	ug/l	99
89) 1,3-Dichlorobenzene	18.79	146	1177946	5.37	ug/l	99
90) 1,2,3-Trimethylbenzene	18.87	105	2030428	5.34	ug/l	98
91) 1,4-Dichlorobenzene	18.92	146	1119300	5.29	ug/l	99
92) n-Butylbenzene	19.14	91	2502569	5.25	ug/l	99
93) 1,2-Dichlorobenzene	19.31	146	942543	5.27	ug/l	100
94) 1,2-Dibromo-3-chloropropan	20.08	157	49869	4.64	ug/l	92
95) 1,2,4-Trichlorobenzene	20.91	180	528214	5.10	ug/l	99
96) Hexachlorobutadiene	21.04	225	343113	5.44	ug/l	95
97) Naphthalene	21.17	128	714287	4.92	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW363.D Vial: 6
Acq On : 19 Oct 2024 5:45 pm Operator: DHguye
Sample : VO06J195 0.50/2.50uL Inst : 06
Misc : 5.0ppb 8260/25ppb KET-AA/125ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	383160	4.90	ug/l	97

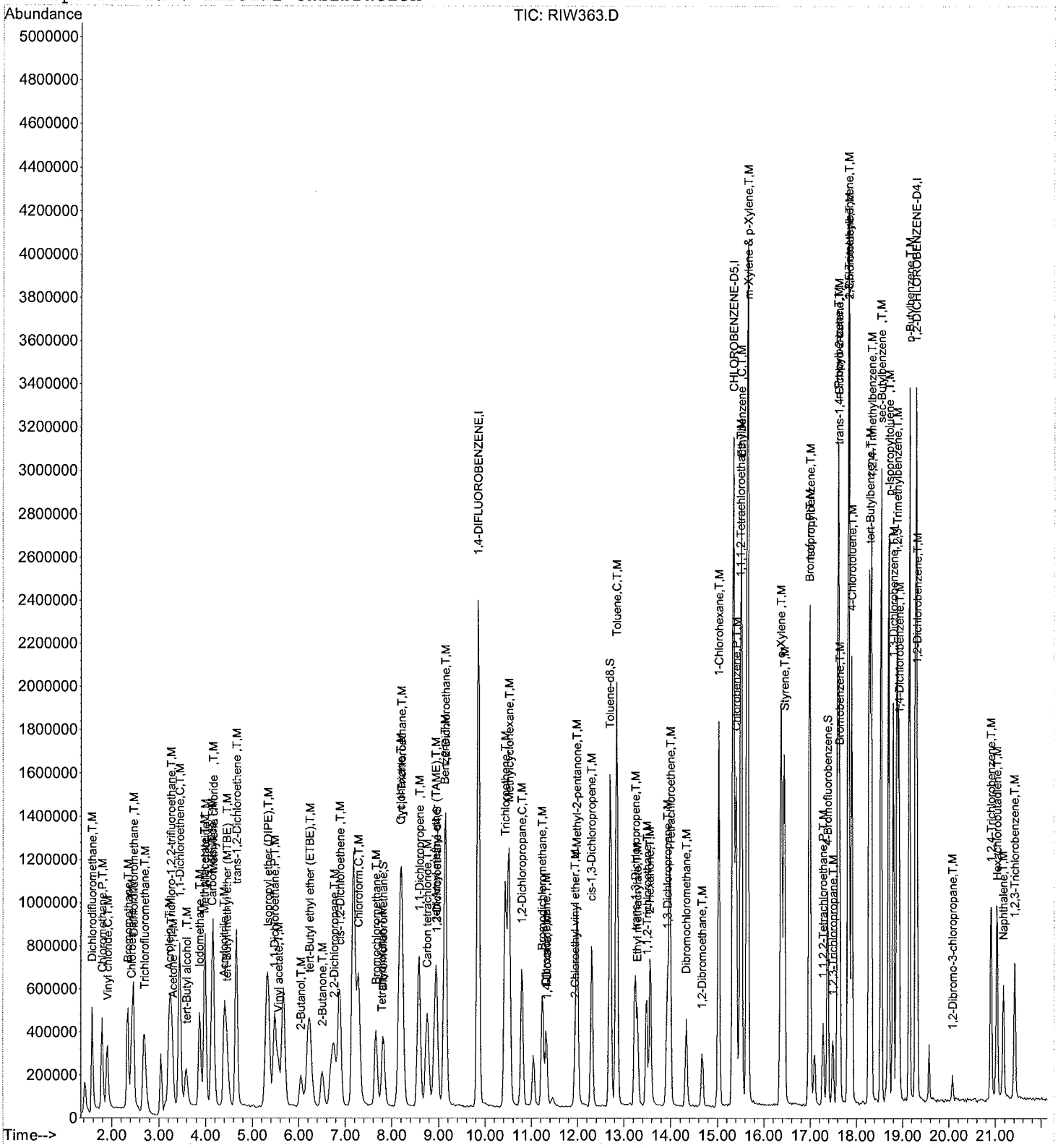
(#) = qualifier out of range (m) = manual integration
RIW363.D VO06J19.M Thu Nov 14 17:15:32 2024

11/15/24

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW363.D Vial: 6
Acq On : 19 Oct 2024 5:45 pm Operator: DHguye
Sample : VO06J195 0.50/2.50uL Inst : 06
Misc : 5.0ppb 8260/25ppb KET-AA/125ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW364.D Vial: 7
Acq On : 19 Oct 2024 6:11 pm Operator: DHguye
Sample : VO06J196 1.00/5.00uL Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	3831558	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	2808641	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1084745	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	1204789	12.84	ug/l	0.00
Spiked Amount 10.000			Recovery = 128.40%			
42) 1,2-Dichloroethane-d4	8.96	65	851123	13.10	ug/l	0.00
Spiked Amount 10.000			Recovery = 131.00%			
55) Toluene-d8	12.69	98	5040192	12.98	ug/l	0.00
Spiked Amount 10.000			Recovery = 129.80%			
77) 4-Bromofluorobenzene	17.38	95	1500762	12.39	ug/l	0.00
Spiked Amount 10.000			Recovery = 123.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.56	85	1627773	11.95	ug/l	100
3) Chloromethane	1.80	50	1635580	12.35	ug/l	100
4) Vinyl chloride	1.90	62	1383953	13.03	ug/l	100
5) Bromomethane	2.33	94	1156147	11.97	ug/l	100
6) Chloroethane	2.41	64	895541	12.25	ug/l	100
7) Dichlorofluoromethane	2.45	67	2123876	11.85	ug/l	100
8) Trichlorofluoromethane	2.69	101	1731158	12.17	ug/l	100
9) Acrolein	3.19	56	222736	56.16	ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	994769	12.20	ug/l	100
11) Acetone	3.30	43	638282	53.83	ug/l	100
12) 1,1-Dichloroethene	3.45	61	2065629	11.91	ug/l	100
13) tert-Butyl alcohol	3.59	59	910341	277.75	ug/l	100
15) Methyl acetate	3.97	74	79967	9.92	ug/l	100
16) Iodomethane	3.87	142	2131757	11.99	ug/l	100
17) Allyl chloride	3.99	76	813393	11.71	ug/l	100
18) Methylene chloride	4.16	49	1486303	11.68	ug/l	100
19) Carbon disulfide	4.14	76	2741184	12.62	ug/l	100
20) Acrylonitrile	4.39	53	922398	58.31	ug/l	100
21) tert-Butyl methyl ether (M	4.43	73	2219072	12.00	ug/l	100
22) trans-1,2-Dichloroethene	4.66	96	1496558	11.52	ug/l	100
23) Isopropyl ether (DIPE)	5.33	45	4157682	12.12	ug/l	100
24) Vinyl acetate	5.56	43	1450405	12.19	ug/l	100
25) 1,1-Dichloroethane	5.48	63	2262946	11.72	ug/l	100
26) 2-Butanol	6.05	45	873678	265.83	ug/l	100
27) tert-Butyl ethyl ether (ET	6.21	59	2926993	11.55	ug/l	100
28) 2-Butanone	6.51	43	1170745	58.55	ug/l	100
29) 2,2-Dichloropropane	6.76	77	1443098	12.47	ug/l	100
30) cis-1,2-Dichloroethene	6.89	96	1459633	11.64	ug/l	100
31) Chloroform	7.28	83	2187036	11.34	ug/l	100
32) Bromochloromethane	7.66	130	635749	11.91	ug/l	100
33) Tetrahydrofuran	7.77	42	110470	9.64	ug/l	100
36) 1,1,1-Trichloroethane	8.21	97	1803491	11.72	ug/l	100
37) Cyclohexane	8.19	84	2269708	11.80	ug/l	100
39) 1,1-Dichloropropene	8.58	110	645607	11.39	ug/l	100
40) Carbon tetrachloride	8.75	119	1499973	11.95	ug/l	100
41) tert-Amyl methyl ether (TA	8.94	73	2538408	11.83	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW364.D Vial: 7
Acq On : 19 Oct 2024 6:11 pm Operator: DHguye
Sample : VO06J196 1.00/5.00uL Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	948971	12.15	ug/l	100
44)	Benzene	9.13	78	5391220	12.14	ug/l	100
45)	Trichloroethene	10.43	130	1403154	11.96	ug/l	100
46)	Methylcyclohexane	10.51	83	2641379	11.04	ug/l	100
47)	1,2-Dichloropropane	10.79	63	1134275	11.74	ug/l	100
48)	1,4-Dioxane	11.33	88	73052	208.41	ug/l	100
49)	Bromodichloromethane	11.23	83	1453630	11.64	ug/l	100
50)	Dibromomethane	11.31	93	542664	11.62	ug/l	100
51)	2-Chloroethyl vinyl ether	11.94	63	354863	11.22	ug/l	100
52)	4-Methyl-2-pentanone	11.98	43	3310190	62.08	ug/l	100
53)	cis-1,3-Dichloropropene	12.30	75	1854445	12.39	ug/l	100
56)	Toluene	12.84	91	5570940	11.95	ug/l	100
57)	Ethyl methacrylate	13.28	69	925311	12.24	ug/l	100
58)	trans-1,3-Dichloropropene	13.24	75	1358441	12.39	ug/l	100
59)	1,1,2-Trichloroethane	13.49	97	705390	12.03	ug/l	100
60)	2-Hexanone	13.55	43	2015131	60.68	ug/l	100
61)	1,3-Dichloropropane	13.93	76	1277823	12.24	ug/l	100
62)	Tetrachloroethene	13.99	164	1190078	12.03	ug/l	100
63)	Dibromochloromethane	14.33	129	864749	11.93	ug/l	100
65)	1,2-Dibromoethane	14.67	107	664845	12.42	ug/l	100
66)	1-Chlorohexane	15.02	91	2155922	11.35	ug/l	100
67)	Chlorobenzene	15.40	112	3158785	12.40	ug/l	100
68)	1,1,1,2-Tetrachloroethane	15.49	131	1037366	12.06	ug/l	100
69)	Ethylbenzene	15.51	91	6105697	12.14	ug/l	100
70)	m-Xylene & p-Xylene	15.65	91	8916707	23.68	ug/l	100
71)	o-Xylene	16.36	91	4478947	11.80	ug/l	100
72)	Styrene	16.44	104	3367429	12.41	ug/l	100
73)	Isopropylbenzene	16.99	105	5894659	11.98	ug/l	100
75)	Bromoform	16.97	173	392934	11.60	ug/l	100
76)	1,1,2,2-Tetrachloroethane	17.27	83	721608	12.23	ug/l	100
78)	1,2,3-Trichloropropane	17.49	110	172311	11.41	ug/l	100
79)	trans-1,4-Dichloro-2-buten	17.60	53	164643	11.77	ug/l	100
80)	n-Propylbenzene	17.60	91	7301973	12.07	ug/l	100
81)	Bromobenzene	17.64	156	1194188	12.36	ug/l	100
82)	1,3,5-Trimethylbenzene	17.82	105	4620633	12.25	ug/l	100
83)	2-Chlorotoluene	17.83	91	4235662	11.61	ug/l	100
84)	4-Chlorotoluene	17.90	91	4027698	12.85	ug/l	100
85)	tert-Butylbenzene	18.29	134	1029989	12.27	ug/l	100
86)	1,2,4-Trimethylbenzene	18.32	105	4503661	12.21	ug/l	100
87)	sec-Butylbenzene	18.53	105	6379926	12.15	ug/l	100
88)	p-Isopropyltoluene	18.70	119	5098335	12.27	ug/l	100
89)	1,3-Dichlorobenzene	18.79	146	2344329	12.47	ug/l	100
90)	1,2,3-Trimethylbenzene	18.87	105	3994807	12.26	ug/l	100
91)	1,4-Dichlorobenzene	18.92	146	2294698	12.65	ug/l	100
92)	n-Butylbenzene	19.14	91	4897607	11.98	ug/l	100
93)	1,2-Dichlorobenzene	19.31	146	1890573	12.34	ug/l	100
94)	1,2-Dibromo-3-chloropropan	20.08	157	94907	10.30	ug/l	100
95)	1,2,4-Trichlorobenzene	20.91	180	1048013	11.79	ug/l	100
96)	Hexachlorobutadiene	21.04	225	651278	12.41	ug/l	100
97)	Naphthalene	21.17	128	1456951	11.69	ug/l	100

(#) = qualifier out of range (m) = manual integration

SA 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW364.D Vial: 7
Acq On : 19 Oct 2024 6:11 pm Operator: DHguye
Sample : VO06J196 1.00/5.00uL Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	1,2,3-Trichlorobenzene	21.41	180	785162	11.72	ug/l	100

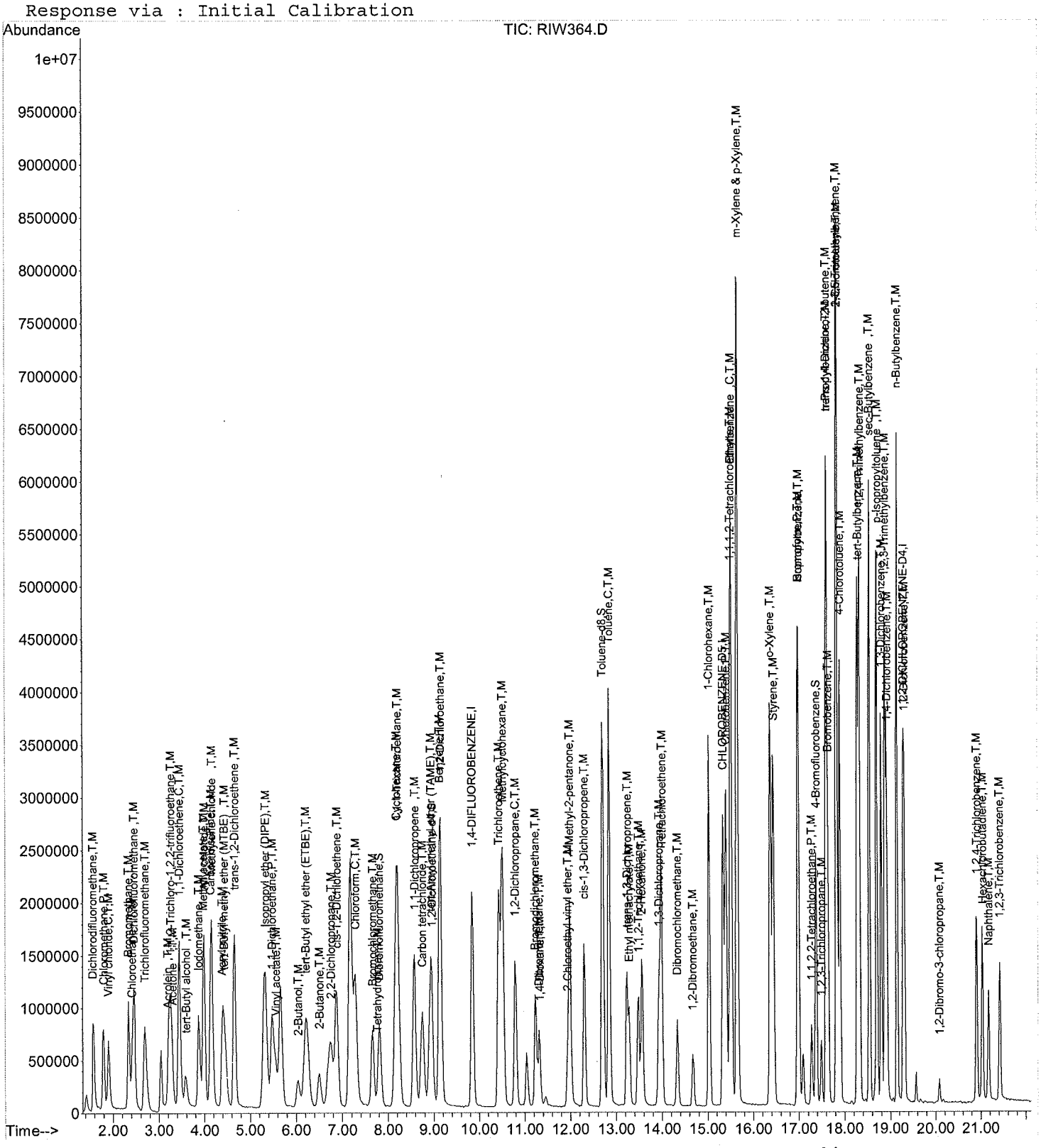
SU 11/15/24

(#) = qualifier out of range (m) = manual integration
RIW364.D VO06J19.M Thu Nov 14 17:15:42 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW364.D Vial: 7
Acq On : 19 Oct 2024 6:11 pm Operator: DHguye
Sample : VO06J196 1.00/5.00uL Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW365.D Vial: 8
Acq On : 19 Oct 2024 6:38 pm Operator: DHguye
Sample : VO06J197 2.00/10.0uL Inst : 06
Misc : 20ppb 8260/100ppb KET-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4614925	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	3440435	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1287635	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	2371965	20.98	ug/l	0.00
Spiked Amount 10.000			Recovery = 209.80%			
42) 1,2-Dichloroethane-d4	8.96	65	1654702	21.14	ug/l	0.00
Spiked Amount 10.000			Recovery = 211.40%			
55) Toluene-d8	12.69	98	9305353	19.57	ug/l	0.00
Spiked Amount 10.000			Recovery = 195.70%			
77) 4-Bromofluorobenzene	17.36	95	2859525	19.89	ug/l	-0.01
Spiked Amount 10.000			Recovery = 198.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	3248445	19.80	ug/l	99
3) Chloromethane	1.80	50	3380945	21.19	ug/l	100
4) Vinyl chloride	1.89	62	2715217	21.22	ug/l	98
5) Bromomethane	2.33	94	2401608	20.64	ug/l	99
6) Chloroethane	2.43	64	1853197	21.04	ug/l	98
7) Dichlorofluoromethane	2.47	67	4115845	19.07	ug/l	98
8) Trichlorofluoromethane	2.68	101	3640305	21.25	ug/l	99
9) Acrolein	3.20	56	432502	90.53	ug/l	93
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	1896316	19.30	ug/l	98
11) Acetone	3.28	43	1369803	95.91	ug/l	98
12) 1,1-Dichloroethene	3.43	61	4051177	19.39	ug/l	98
13) tert-Butyl alcohol	3.57	59	2046403	518.38	ug/l	98
15) Methyl acetate	3.95	74	194582	20.05	ug/l	83
16) Iodomethane	3.87	142	4243033	19.81	ug/l	99
17) Allyl chloride	3.99	76	1647345	19.70	ug/l	96
18) Methylene chloride	4.16	49	2989635	19.51	ug/l	99
19) Carbon disulfide	4.12	76	5107001	19.52	ug/l	100
20) Acrylonitrile	4.39	53	1943047	101.97	ug/l	98
21) tert-Butyl methyl ether (M	4.43	73	4418416	19.84	ug/l	98
22) trans-1,2-Dichloroethene	4.66	96	2990800	19.12	ug/l	98
23) Isopropyl ether (DIPE)	5.31	45	8406440	20.35	ug/l	100
24) Vinyl acetate	5.54	43	3095129	21.59	ug/l	99
25) 1,1-Dichloroethane	5.48	63	4542987	19.53	ug/l	99
26) 2-Butanol	6.03	45	2081260	525.76	ug/l	99
27) tert-Butyl ethyl ether (ET	6.21	59	5950717	19.49	ug/l	98
28) 2-Butanone	6.49	43	2507871	104.14	ug/l	98
29) 2,2-Dichloropropane	6.74	77	2781118	19.95	ug/l	98
30) cis-1,2-Dichloroethene	6.86	96	2950046	19.54	ug/l	99
31) Chloroform	7.28	83	4437814	19.10	ug/l	99
32) Bromochloromethane	7.66	130	1281469	19.92	ug/l	99
33) Tetrahydrofuran	7.77	42	253663	18.39	ug/l	96
36) 1,1,1-Trichloroethane	8.21	97	3611337	19.48	ug/l	99
37) Cyclohexane	8.19	84	4734132	20.44	ug/l	100
39) 1,1-Dichloropropene	8.58	110	1341615	19.64	ug/l	98
40) Carbon tetrachloride	8.75	119	2984797	19.75	ug/l	99
41) tert-Amyl methyl ether (TA	8.92	73	5151692	19.93	ug/l	99

(#) = qualifier out of range (m) = manual integration
RIW365.D VO06J19.M Thu Nov 14 17:15:51 2024

11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW365.D Vial: 8
Acq On : 19 Oct 2024 6:38 pm Operator: DHguye
Sample : VO06J197 2.00/10.0uL Inst : 06
Misc : 20ppb 8260/100ppb KET-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	1949803	20.72	ug/l	100
44)	Benzene	9.13	78	10701541	20.01	ug/l	98
45)	Trichloroethene	10.43	130	2852619	20.19	ug/l	99
46)	Methylcyclohexane	10.51	83	5701611	19.78	ug/l	99
47)	1,2-Dichloropropane	10.79	63	2351755	20.21	ug/l	100
48)	1,4-Dioxane	11.33	88	144641	342.61	ug/l	96
49)	Bromodichloromethane	11.23	83	2976262	19.78	ug/l	100
50)	Dibromomethane	11.31	93	1108731	19.71	ug/l	99
51)	2-Chloroethyl vinyl ether	11.94	63	750454	19.70	ug/l	99
52)	4-Methyl-2-pentanone	11.98	43	6733709	104.86	ug/l	99
53)	cis-1,3-Dichloropropene	12.30	75	3716601	20.61	ug/l	99
56)	Toluene	12.84	91	11026521	19.31	ug/l	98
57)	Ethyl methacrylate	13.28	69	1877949	20.28	ug/l	100
58)	trans-1,3-Dichloropropene	13.22	75	2739911	20.41	ug/l	100
59)	1,1,2-Trichloroethane	13.47	97	1419911	19.77	ug/l	99
60)	2-Hexanone	13.55	43	4175232	102.63	ug/l	98
61)	1,3-Dichloropropane	13.93	76	2585254	20.21	ug/l	100
62)	Tetrachloroethene	13.97	164	2406104	19.85	ug/l	99
63)	Dibromochloromethane	14.33	129	1725071	19.43	ug/l	98
65)	1,2-Dibromoethane	14.67	107	1354134	20.65	ug/l	99
66)	1-Chlorohexane	15.02	91	4442580	19.09	ug/l	94
67)	Chlorobenzene	15.40	112	6327568	20.27	ug/l	99
68)	1,1,1,2-Tetrachloroethane	15.49	131	2083860	19.77	ug/l	100
69)	Ethylbenzene	15.51	91	11845809	19.23	ug/l	98
70)	m-Xylene & p-Xylene	15.64	91	17446588	37.82	ug/l	98
71)	o-Xylene	16.36	91	8799239	18.93	ug/l	100
72)	Styrene	16.43	104	6703022	20.17	ug/l	99
73)	Isopropylbenzene	16.99	105	11558648	19.18	ug/l	99
75)	Bromoform	16.97	173	831183	20.68	ug/l	99
76)	1,1,2,2-Tetrachloroethane	17.27	83	1446440	20.66	ug/l	99
78)	1,2,3-Trichloropropane	17.49	110	357337	19.94	ug/l	95
79)	trans-1,4-Dichloro-2-buten	17.60	53	346749	20.89	ug/l	94
80)	n-Propylbenzene	17.60	91	13992243	19.48	ug/l	99
81)	Bromobenzene	17.64	156	2341801	20.42	ug/l	97
82)	1,3,5-Trimethylbenzene	17.82	105	8902766	19.89	ug/l	99
83)	2-Chlorotoluene	17.83	91	8334603	19.24	ug/l	98
84)	4-Chlorotoluene	17.90	91	7816819	21.02	ug/l	99
85)	tert-Butylbenzene	18.27	134	2018059	20.26	ug/l	100
86)	1,2,4-Trimethylbenzene	18.32	105	8635671	19.72	ug/l	99
87)	sec-Butylbenzene	18.53	105	11894226	19.08	ug/l	99
88)	p-Isopropyltoluene	18.70	119	9412411	19.09	ug/l	98
89)	1,3-Dichlorobenzene	18.79	146	4555149	20.41	ug/l	98
90)	1,2,3-Trimethylbenzene	18.87	105	7524401	19.45	ug/l	99
91)	1,4-Dichlorobenzene	18.91	146	4442874	20.63	ug/l	99
92)	n-Butylbenzene	19.14	91	9043474	18.64	ug/l	99
93)	1,2-Dichlorobenzene	19.31	146	3610490	19.85	ug/l	99
94)	1,2-Dibromo-3-chloropropan	20.08	157	183307	16.76	ug/l	97
95)	1,2,4-Trichlorobenzene	20.91	180	2182660	20.68	ug/l	99
96)	Hexachlorobutadiene	21.04	225	1182704	19.60	ug/l	94
97)	Naphthalene	21.17	128	3027743	20.47	ug/l	98

(#) = qualifier out of range (m) = manual integration

SCN 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW365.D Vial: 8
Acq On : 19 Oct 2024 6:38 pm Operator: DHguye
Sample : VO06J197 2.00/10.0uL Inst : 06
Misc : 20ppb 8260/100ppb KET-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	1668051	20.97	ug/l	100

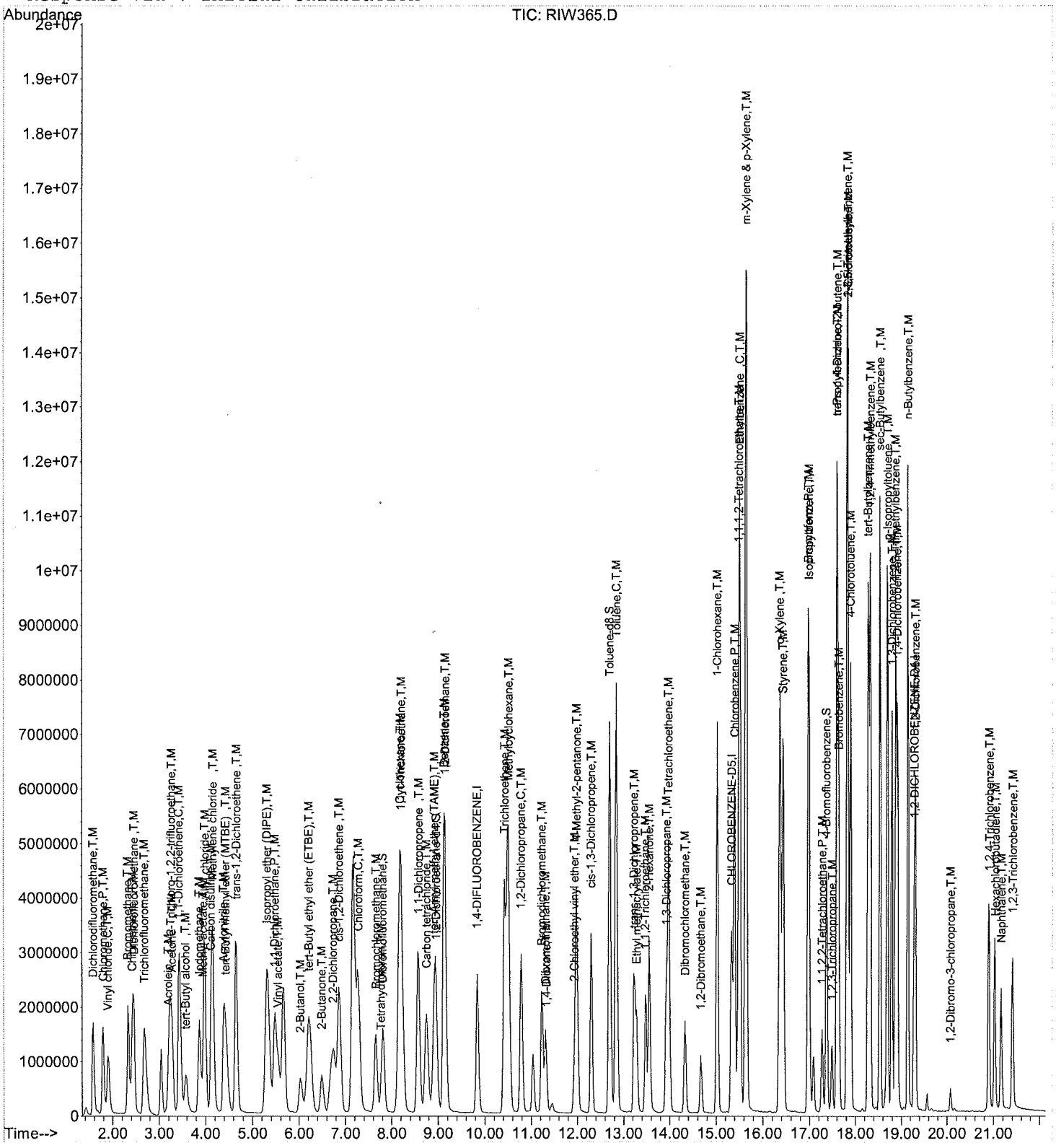
(#) = qualifier out of range (m) = manual integration
RIW365.D VO06J19.M Thu Nov 14 17:15:52 2024

SA 11/15/24

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW365.D Vial: 8
Acq On : 19 Oct 2024 6:38 pm Operator: DHguye
Sample : VO06J197 2.00/10.0uL Inst : 06
Misc : 20ppb 8260/100ppb KET-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW366.D Vial: 9
Acq On : 19 Oct 2024 7:04 pm Operator: DHguye
Sample : VO06J198 3.00/15.0uL Inst : 06
Misc : 30ppb 8260/150ppb KET-AA/750ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4915340	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	3643898	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1372360	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	3701541	30.75	ug/l	0.00
Spiked Amount 10.000			Recovery = 307.50%			
42) 1,2-Dichloroethane-d4	8.94	65	2616130	31.39	ug/l	-0.02
Spiked Amount 10.000			Recovery = 313.90%			
55) Toluene-d8	12.69	98	14458578	28.71	ug/l	0.00
Spiked Amount 10.000			Recovery = 287.10%			
77) 4-Bromofluorobenzene	17.36	95	4521170	29.51	ug/l	-0.01
Spiked Amount 10.000			Recovery = 295.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	4798932	27.46	ug/l	98
3) Chloromethane	1.80	50	5038208	29.65	ug/l	98
4) Vinyl chloride	1.92	62	3746784	27.50	ug/l	98
5) Bromomethane	2.33	94	3533602	28.51	ug/l	99
6) Chloroethane	2.43	64	2744194	29.25	ug/l	100
7) Dichlorofluoromethane	2.47	67	6393926	27.81	ug/l	97
8) Trichlorofluoromethane	2.69	101	5471356	29.98	ug/l	100
9) Acrolein	3.19	56	728268	143.12	ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	3042286	29.08	ug/l	97
11) Acetone	3.28	43	2136554	140.45	ug/l	98
12) 1,1-Dichloroethene	3.42	61	6494371	29.19	ug/l	98
13) tert-Butyl alcohol	3.57	59	3500009	832.41	ug/l	99
15) Methyl acetate	3.95	74	285575	27.63	ug/l	95
16) Iodomethane	3.86	142	6715318	29.44	ug/l	98
17) Allyl chloride	3.99	76	2682189	30.11	ug/l	96
18) Methylene chloride	4.16	49	4788317	29.34	ug/l	98
19) Carbon disulfide	4.12	76	7606863	27.30	ug/l	99
20) Acrylonitrile	4.39	53	3067809	151.16	ug/l	100
21) tert-Butyl methyl ether (M	4.43	73	7081295	29.86	ug/l	98
22) trans-1,2-Dichloroethene	4.64	96	4857054	29.15	ug/l	98
23) Isopropyl ether (DIPE)	5.31	45	13456278	30.58	ug/l	98
24) Vinyl acetate	5.54	43	4834412	31.67	ug/l	98
25) 1,1-Dichloroethane	5.48	63	7370790	29.75	ug/l	99
26) 2-Butanol	6.02	45	3234085	767.06	ug/l	96
27) tert-Butyl ethyl ether (ET	6.21	59	9581292	29.47	ug/l	98
28) 2-Butanone	6.49	43	3963809	154.53	ug/l	99
29) 2,2-Dichloropropane	6.74	77	4291303	28.90	ug/l	99
30) cis-1,2-Dichloroethene	6.86	96	4808945	29.90	ug/l	97
31) Chloroform	7.28	83	7133142	28.83	ug/l	98
32) Bromochloromethane	7.66	130	2109747	30.80	ug/l	100
33) Tetrahydrofuran	7.77	42	409055	27.84	ug/l	95
36) 1,1,1-Trichloroethane	8.21	97	5773278	29.24	ug/l	99
37) Cyclohexane	8.18	84	6883652	27.91	ug/l	99
39) 1,1-Dichloropropene	8.58	110	2173619	29.88	ug/l	95
40) Carbon tetrachloride	8.75	119	4875110	30.28	ug/l	99
41) tert-Amyl methyl ether (TA	8.92	73	8307702	30.18	ug/l	99

(#) = qualifier out of range (m) = manual integration

SA 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW366.D Vial: 9
Acq On : 19 Oct 2024 7:04 pm Operator: DHguye
Sample : VO06J198 3.00/15.0uL Inst : 06
Misc : 30ppb 8260/150ppb KET-AA/750ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	3178250	31.72	ug/l	98
44)	Benzene	9.13	78	17329009	30.42	ug/l	98
45)	Trichloroethene	10.43	130	4564907	30.34	ug/l	99
46)	Methylcyclohexane	10.51	83	8389280	27.33	ug/l	99
47)	1,2-Dichloropropane	10.79	63	3835966	30.95	ug/l	100
48)	1,4-Dioxane	11.33	88	256493	570.41	ug/l	98
49)	Bromodichloromethane	11.23	83	4777886	29.81	ug/l	100
50)	Dibromomethane	11.31	93	1817866	30.34	ug/l	99
51)	2-Chloroethyl vinyl ether	11.94	63	1233805	30.41	ug/l	100
52)	4-Methyl-2-pentanone	11.98	43	10476280	153.16	ug/l	99
53)	cis-1,3-Dichloropropene	12.30	75	5947577	30.97	ug/l	98
56)	Toluene	12.84	91	17437668	28.83	ug/l	97
57)	Ethyl methacrylate	13.28	69	3077668	31.38	ug/l	100
58)	trans-1,3-Dichloropropene	13.22	75	4426907	31.13	ug/l	99
59)	1,1,2-Trichloroethane	13.47	97	2297153	30.21	ug/l	99
60)	2-Hexanone	13.55	43	6467559	150.10	ug/l	98
61)	1,3-Dichloropropane	13.93	76	4165867	30.75	ug/l	98
62)	Tetrachloroethene	13.97	164	3835877	29.88	ug/l	99
63)	Dibromochloromethane	14.33	129	2840129	30.20	ug/l	99
65)	1,2-Dibromoethane	14.66	107	2182540	31.43	ug/l	97
66)	1-Chlorohexane	15.02	91	7505543	30.46	ug/l	91
67)	Chlorobenzene	15.40	112	10144829	30.69	ug/l	98
68)	1,1,1,2-Tetrachloroethane	15.49	131	3420645	30.65	ug/l	99
69)	Ethylbenzene	15.51	91	18474016	28.31	ug/l	96
70)	m-Xylene & p-Xylene	15.64	91	23462015	48.02	ug/l	83
71)	o-Xylene	16.36	91	14051626	28.54	ug/l	98
72)	Styrene	16.43	104	10946528	31.11	ug/l	99
73)	Isopropylbenzene	16.97	105	18106595	28.37	ug/l	98
75)	Bromoform	16.97	173	1376537	32.13	ug/l	99
76)	1,1,2,2-Tetrachloroethane	17.27	83	2373598	31.81	ug/l	99
78)	1,2,3-Trichloropropane	17.49	110	596765	31.24	ug/l	93
79)	trans-1,4-Dichloro-2-buten	17.60	53	548023	30.97	ug/l	99
80)	n-Propylbenzene	17.60	91	19152223	25.02	ug/l	92
81)	Bromobenzene	17.64	156	3750590	30.69	ug/l	97
82)	1,3,5-Trimethylbenzene	17.82	105	13922896	29.18	ug/l	97
83)	2-Chlorotoluene	17.83	91	13249338	28.70	ug/l	97
84)	4-Chlorotoluene	17.90	91	12509010	31.56	ug/l	98
85)	tert-Butylbenzene	18.27	134	3259235	30.70	ug/l	98
86)	1,2,4-Trimethylbenzene	18.32	105	13658279	29.27	ug/l	97
87)	sec-Butylbenzene	18.53	105	16947927	25.51	ug/l	93
88)	p-Isopropyltoluene	18.69	119	14532813	27.65	ug/l	97
89)	1,3-Dichlorobenzene	18.79	146	7155508	30.09	ug/l	98
90)	1,2,3-Trimethylbenzene	18.87	105	11977877	29.05	ug/l	98
91)	1,4-Dichlorobenzene	18.91	146	7101020	30.94	ug/l	98
92)	n-Butylbenzene	19.14	91	13310764	25.74	ug/l	95
93)	1,2-Dichlorobenzene	19.31	146	5831297	30.07	ug/l	98
94)	1,2-Dibromo-3-chloropropan	20.08	157	318020	27.28	ug/l	96
95)	1,2,4-Trichlorobenzene	20.89	180	3258240	28.97	ug/l	98
96)	Hexachlorobutadiene	21.02	225	1600129	25.56	ug/l	94
97)	Naphthalene	21.17	128	4771841	30.27	ug/l	98

(#) = qualifier out of range (m) = manual integration

SW 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW366.D Vial: 9
Acq On : 19 Oct 2024 7:04 pm Operator: DHguye
Sample : VO06J198 3.00/15.0uL Inst : 06
Misc : 30ppb 8260/150ppb KET-AA/750ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98) 1,2,3-Trichlorobenzene	21.41	180	2555906	30.15	ug/l	100

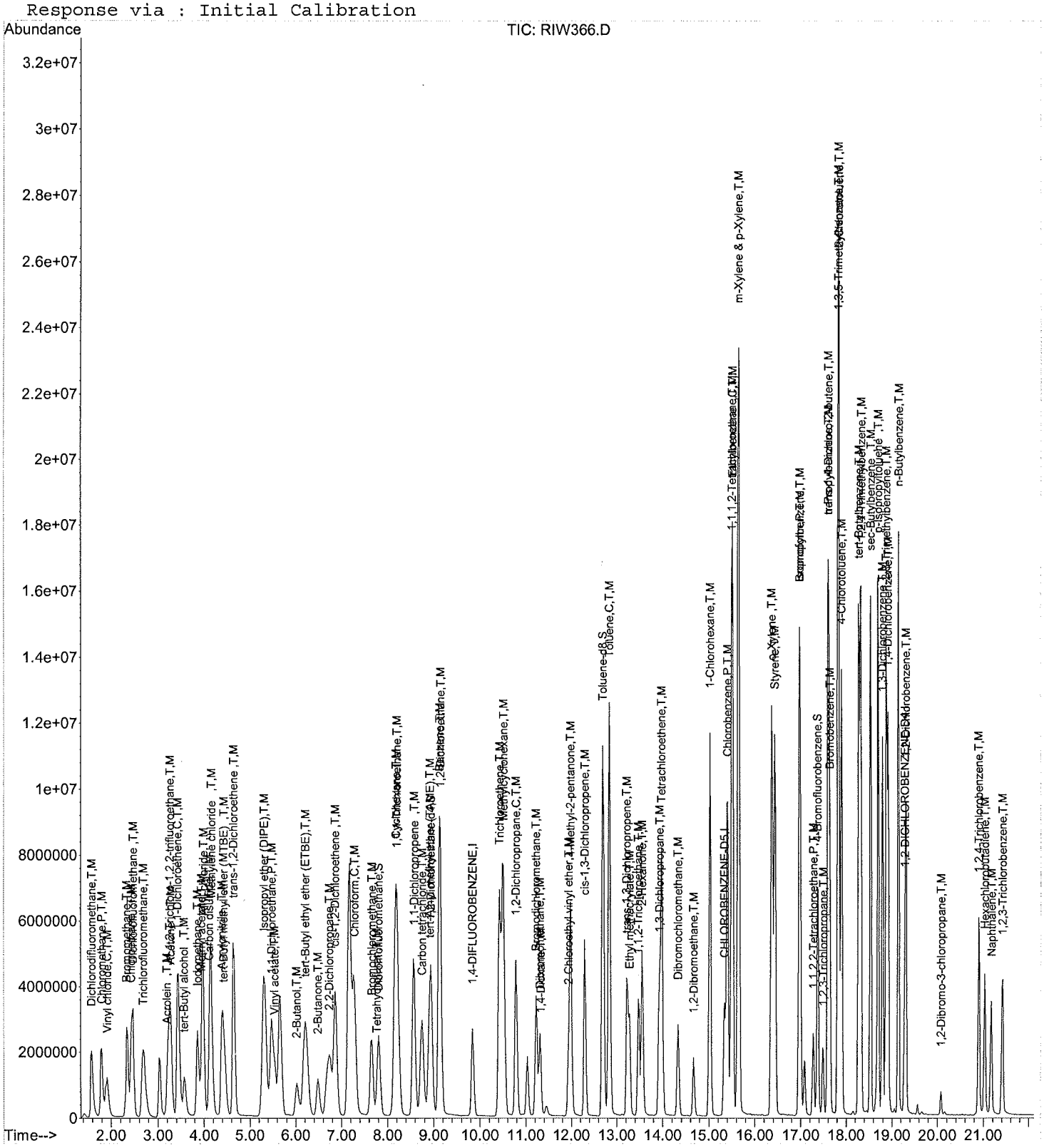
(#) = qualifier out of range (m) = manual integration
RIW366.D VO06J19.M Thu Nov 14 17:16:02 2024 Page 3

SA 11/15/24

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW366.D Vial: 9
Acq On : 19 Oct 2024 7:04 pm Operator: DHguye
Sample : VO06J198 3.00/15.0uL Inst : 06
Misc : 30ppb 8260/150ppb KET-AA/750ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:56 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW367.D Vial: 10
Acq On : 19 Oct 2024 7:30 pm Operator: DHguye
Sample : VO06J199 5.00/25.0uL Inst : 06
Misc : 50ppb 8260/250ppb KET-AA/1250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4676880	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	3405796	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1215571	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	9296	0.08	ug/l	0.00
Spiked Amount 10.000			Recovery =	0.80%		
42) 1,2-Dichloroethane-d4	8.94	65	17011	0.21	ug/l	-0.02
Spiked Amount 10.000			Recovery =	2.10%		
55) Toluene-d8	12.70	98	75214	0.16	ug/l	0.00
Spiked Amount 10.000			Recovery =	1.60%		
77) 4-Bromofluorobenzene	17.38	95	59158	0.44	ug/l	0.00
Spiked Amount 10.000			Recovery =	4.40%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.56	85	7724183	46.45	ug/l	97
3) Chloromethane	1.78	50	8398158	51.94	ug/l	97
4) Vinyl chloride	1.88	62	5864653	45.24	ug/l	98
5) Bromomethane	2.33	94	6019928	51.04	ug/l	99
6) Chloroethane	2.41	64	4594474	51.47	ug/l	100
7) Dichlorofluoromethane	2.45	67	10304925	47.11	ug/l	96
8) Trichlorofluoromethane	2.69	101	9003702	51.85	ug/l	100
9) Acrolein	3.20	56	1218992	251.78	ug/l	93
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	4960844	49.83	ug/l	97
11) Acetone	3.28	43	3535231	244.24	ug/l	98
12) 1,1-Dichloroethene	3.43	61	10165757	48.02	ug/l	97
13) tert-Butyl alcohol	3.59	59	5589632	1397.16	ug/l	100
15) Methyl acetate	3.95	74	476860	48.48	ug/l	90
16) Iodomethane	3.87	142	10648582	49.07	ug/l	99
17) Allyl chloride	3.97	76	4378807	51.66	ug/l	95
18) Methylene chloride	4.16	49	7606383	48.98	ug/l	98
19) Carbon disulfide	4.12	76	52676	0.20	ug/l	87
20) Acrylonitrile	4.39	53	5017831	259.86	ug/l	99
21) tert-Butyl methyl ether (M	4.43	73	10996124	48.73	ug/l	97
22) trans-1,2-Dichloroethene	4.64	96	7707488	48.61	ug/l	97
23) Isopropyl ether (DIPE)	5.31	45	21026543	50.23	ug/l	97
24) Vinyl acetate	5.54	43	7767787	53.48	ug/l	97
25) 1,1-Dichloroethane	5.48	63	11647126	49.40	ug/l	97
26) 2-Butanol	6.03	45	5289776	1318.59	ug/l	94
27) tert-Butyl ethyl ether (ET	6.22	59	15008567	48.51	ug/l	98
28) 2-Butanone	6.49	43	6463699	264.84	ug/l	97
29) 2,2-Dichloropropane	6.74	77	6582766	46.59	ug/l	98
30) cis-1,2-Dichloroethene	6.87	96	7646142	49.97	ug/l	97
31) Chloroform	7.28	83	11243847	47.76	ug/l	97
32) Bromochloromethane	7.66	130	3330351	51.09	ug/l	100
33) Tetrahydrofuran	7.77	42	659487	47.17	ug/l	95
36) 1,1,1-Trichloroethane	8.21	97	9121392	48.55	ug/l	98
37) Cyclohexane	8.19	84	11033687	47.01	ug/l	98
39) 1,1-Dichloropropene	8.58	110	3490884	50.44	ug/l	96
40) Carbon tetrachloride	8.75	119	7558795	49.35	ug/l	100
41) tert-Amyl methyl ether (TA	8.92	73	12780227	48.79	ug/l	99

(#) = qualifier out of range (m) = manual integration

11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW367.D Vial: 10
Acq On : 19 Oct 2024 7:30 pm Operator: DHguye
Sample : VO06J199 5.00/25.0uL Inst : 06
Misc : 50ppb 8260/250ppb KET-AA/1250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	4874986	51.13	ug/l	96
44)	Benzene	9.13	78	26666982	49.20	ug/l	97
45)	Trichloroethene	10.43	130	7211481	50.37	ug/l	99
46)	Methylcyclohexane	10.51	83	13205375	45.21	ug/l	99
47)	1,2-Dichloropropane	10.79	63	5964998	50.58	ug/l	98
48)	1,4-Dioxane	11.33	88	410747	960.03	ug/l	100
49)	Bromodichloromethane	11.23	83	7363880	48.29	ug/l	99
50)	Dibromomethane	11.31	93	2834688	49.72	ug/l	100
51)	2-Chloroethyl vinyl ether	11.94	63	1937692	50.20	ug/l	100
52)	4-Methyl-2-pentanone	11.98	43	16334180	250.98	ug/l	97
53)	cis-1,3-Dichloropropene	12.30	75	9186997	50.27	ug/l	97
56)	Toluene	12.84	91	24365948	43.10	ug/l	88
57)	Ethyl methacrylate	13.28	69	4651286	50.73	ug/l	99
58)	trans-1,3-Dichloropropene	13.22	75	6846977	51.51	ug/l	99
59)	1,1,2-Trichloroethane	13.47	97	3568132	50.20	ug/l	99
60)	2-Hexanone	13.56	43	10115857	251.19	ug/l	97
61)	1,3-Dichloropropane	13.93	76	6335302	50.03	ug/l	97
62)	Tetrachloroethene	13.97	164	6049184	50.41	ug/l	99
63)	Dibromochloromethane	14.33	129	4376887	49.79	ug/l	99
65)	1,2-Dibromoethane	14.67	107	3356917	51.72	ug/l	96
66)	1-Chlorohexane	15.02	91	11179727	48.54	ug/l	92
67)	Chlorobenzene	15.40	112	15792055	51.11	ug/l	98
68)	1,1,1,2-Tetrachloroethane	15.49	131	5316643	50.96	ug/l	100
69)	Ethylbenzene	15.51	91	23918493	39.22	ug/l	82
70)	m-Xylene & p-Xylene	15.65	91	27836894	60.96	ug/l	65
71)	o-Xylene	16.36	91	20291732	44.10	ug/l	93
72)	Styrene	16.43	104	16771786	50.99	ug/l	98
73)	Isopropylbenzene	16.99	105	23966601	40.17	ug/l	91
75)	Bromoform	16.97	173	2116750	55.78	ug/l	99
76)	1,1,2,2-Tetrachloroethane	17.27	83	3536225	53.50	ug/l	99
78)	1,2,3-Trichloropropane	17.49	110	918835	54.30	ug/l	92
79)	trans-1,4-Dichloro-2-buten	17.60	53	858312	54.76	ug/l	98
80)	n-Propylbenzene	17.60	91	22998147	33.92	ug/l	78
81)	Bromobenzene	17.64	156	5825578	53.81	ug/l	98
82)	1,3,5-Trimethylbenzene	17.82	105	18621012	44.06	ug/l	89
83)	2-Chlorotoluene	17.83	91	18048310	44.14	ug/l	90
84)	4-Chlorotoluene	17.90	91	17352272	49.42	ug/l	92
85)	tert-Butylbenzene	18.28	134	4928324	52.41	ug/l	97
86)	1,2,4-Trimethylbenzene	18.32	105	17654067	42.71	ug/l	84
87)	sec-Butylbenzene	18.53	105	19994673	33.98	ug/l	80
88)	p-Isopropyltoluene	18.70	119	18174252	39.04	ug/l	87
89)	1,3-Dichlorobenzene	18.79	146	10786008	51.20	ug/l	97
90)	1,2,3-Trimethylbenzene	18.87	105	15837658	43.36	ug/l	90
91)	1,4-Dichlorobenzene	18.92	146	10487857	51.59	ug/l	97
92)	n-Butylbenzene	19.14	91	16967221	37.04	ug/l	85
93)	1,2-Dichlorobenzene	19.31	146	8434336	49.11	ug/l	98
94)	1,2-Dibromo-3-chloropropan	20.08	157	455685	44.13	ug/l	99
95)	1,2,4-Trichlorobenzene	20.91	180	5079126	50.98	ug/l	99
96)	Hexachlorobutadiene	21.04	225	2572623	52.99	ug/l	94
97)	Naphthalene	21.17	128	7288171	52.19	ug/l	98

(#) = qualifier out of range (m) = manual integration

SK 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW367.D Vial: 10
Acq On : 19 Oct 2024 7:30 pm Operator: DHguye
Sample : VO06J199 5.00/25.0uL Inst : 06
Misc : 50ppb 8260/250ppb KET-AA/1250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	1,2,3-Trichlorobenzene	21.41	180	3952039	52.63	ug/l	98

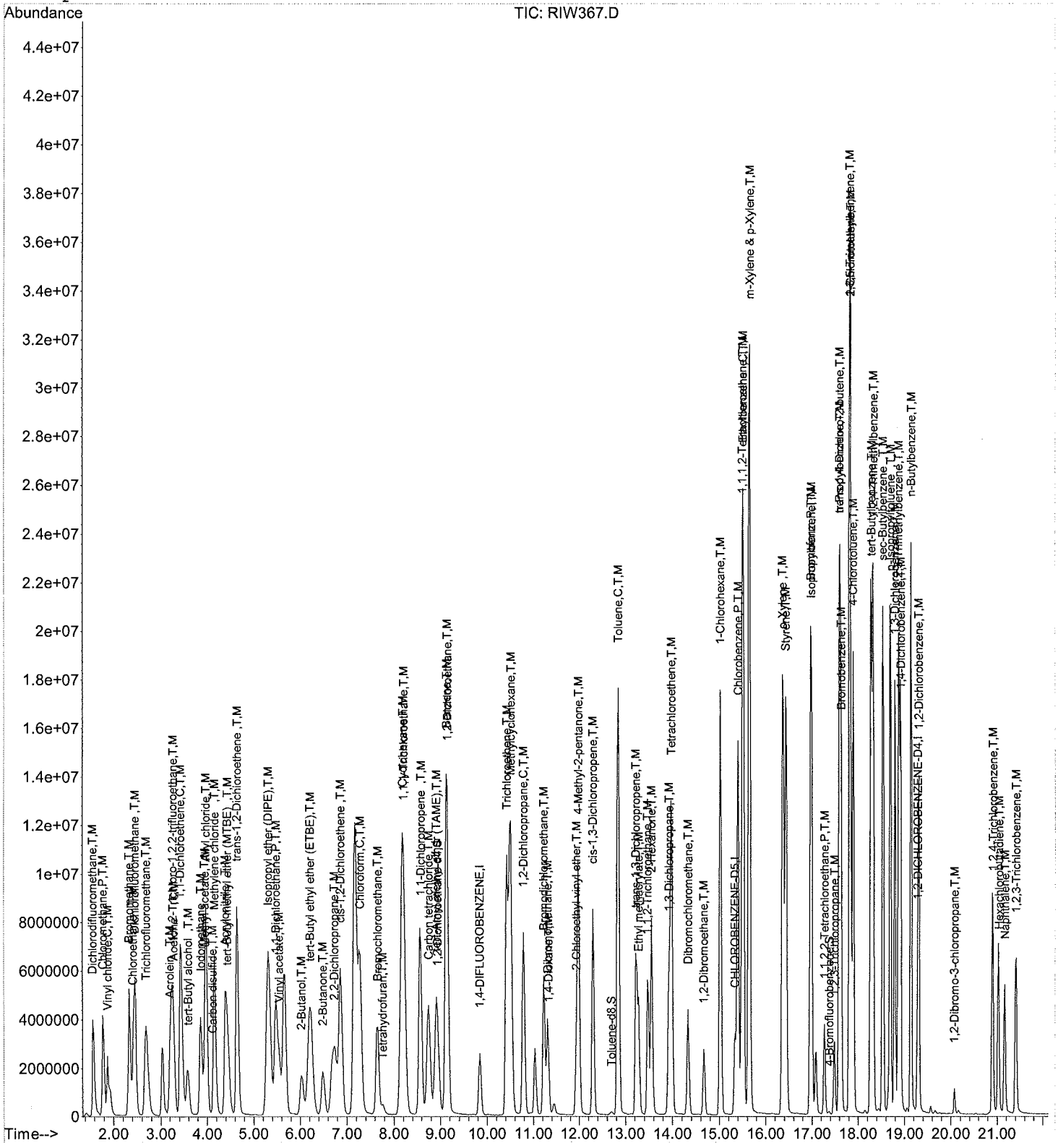
SY 11/15/24

(#) = qualifier out of range (m) = manual integration
RIW367.D VO06J19.M Thu Nov 14 17:16:12 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW367.D Vial: 10
Acq On : 19 Oct 2024 7:30 pm Operator: DHguye
Sample : VO06J199 5.00/25.0uL Inst : 06
Misc : 50ppb 8260/250ppb KET-AA/1250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW368.D Vial: 11
Acq On : 19 Oct 2024 7:57 pm Operator: DHguye
Sample : VO06J1910 10.0/50.0uL Inst : 06
Misc : 100ppb 8260/500ppb KET-AA/2500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4653059	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	3414542	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.29	152	1259573	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	8074	0.07	ug/l	0.00
Spiked Amount 10.000			Recovery = 0.70%			
42) 1,2-Dichloroethane-d4	8.92	65	27788	0.35	ug/l	-0.04
Spiked Amount 10.000			Recovery = 3.50%			
55) Toluene-d8	12.69	98	44048	0.09	ug/l	0.00
Spiked Amount 10.000			Recovery = 0.90%			
77) 4-Bromofluorobenzene	17.36	95	48276	0.34	ug/l	-0.01
Spiked Amount 10.000			Recovery = 3.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.56	85	14977583	90.52	ug/l	96
3) Chloromethane	1.78	50	16216899	100.82	ug/l	95
4) Vinyl chloride	1.87	62	10157499	78.75	ug/l	96
5) Bromomethane	2.33	94	12069386	102.86	ug/l	99
6) Chloroethane	2.41	64	9256383	104.22	ug/l	97
7) Dichlorofluoromethane	2.45	67	19981742	91.81	ug/l	93
8) Trichlorofluoromethane	2.68	101	17282141	100.04	ug/l	99
9) Acrolein	3.19	56	2451225	508.89	ug/l	93
10) 1,1,2-Trichloro-1,2,2-trif	3.24	151	9591596	96.84	ug/l	95
11) Acetone	3.28	43	7236910	502.54	ug/l	96
12) 1,1-Dichloroethene	3.43	61	20144282	95.63	ug/l	96
13) tert-Butyl alcohol	3.59	59	11389758	2861.51	ug/l	100
15) Methyl acetate	3.95	74	1018643	104.09	ug/l	83
16) Iodomethane	3.84	142	21455943	99.38	ug/l	99
17) Allyl chloride	3.97	76	8913849	105.71	ug/l	94
18) Methylene chloride	4.14	49	15465879	100.11	ug/l	98
20) Acrylonitrile	4.39	53	10277816	534.98	ug/l	99
21) tert-Butyl methyl ether (M	4.43	73	23334699	103.94	ug/l	96
22) trans-1,2-Dichloroethene	4.64	96	15238985	96.61	ug/l	96
23) Isopropyl ether (DIPE)	5.31	45	41386614	99.37	ug/l	93
24) Vinyl acetate	5.54	43	15449230	106.90	ug/l	96
25) 1,1-Dichloroethane	5.46	63	23299461	99.33	ug/l	95
26) 2-Butanol	6.05	45	10631641	2663.74	ug/l	97
27) tert-Butyl ethyl ether (ET	6.21	59	33903940	110.14	ug/l	100
28) 2-Butanone	6.49	43	13237360	545.16	ug/l	96
29) 2,2-Dichloropropane	6.74	77	11416196	81.22	ug/l	95
30) cis-1,2-Dichloroethene	6.86	96	15612039	102.55	ug/l	96
31) Chloroform	7.28	83	22874379	97.65	ug/l	96
32) Bromochloromethane	7.66	130	7011378	108.12	ug/l	99
33) Tetrahydrofuran	7.77	42	1471001	105.74	ug/l	94
36) 1,1,1-Trichloroethane	8.21	97	17610020	94.21	ug/l	97
37) Cyclohexane	8.19	84	21515403	92.14	ug/l	96
39) 1,1-Dichloropropene	8.56	110	7026912	102.05	ug/l	96
40) Carbon tetrachloride	8.75	119	14826776	97.30	ug/l	99
41) tert-Amyl methyl ether (TA	8.92	73	26544625	101.86	ug/l	97
43) 1,2-Dichloroethane	9.15	62	10022901	105.66	ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW368.D Vial: 11
Acq On : 19 Oct 2024 7:57 pm Operator: DHguye
Sample : VO06J1910 10.0/50.0uL Inst : 06
Misc : 100ppb 8260/500ppb KET-AA/2500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

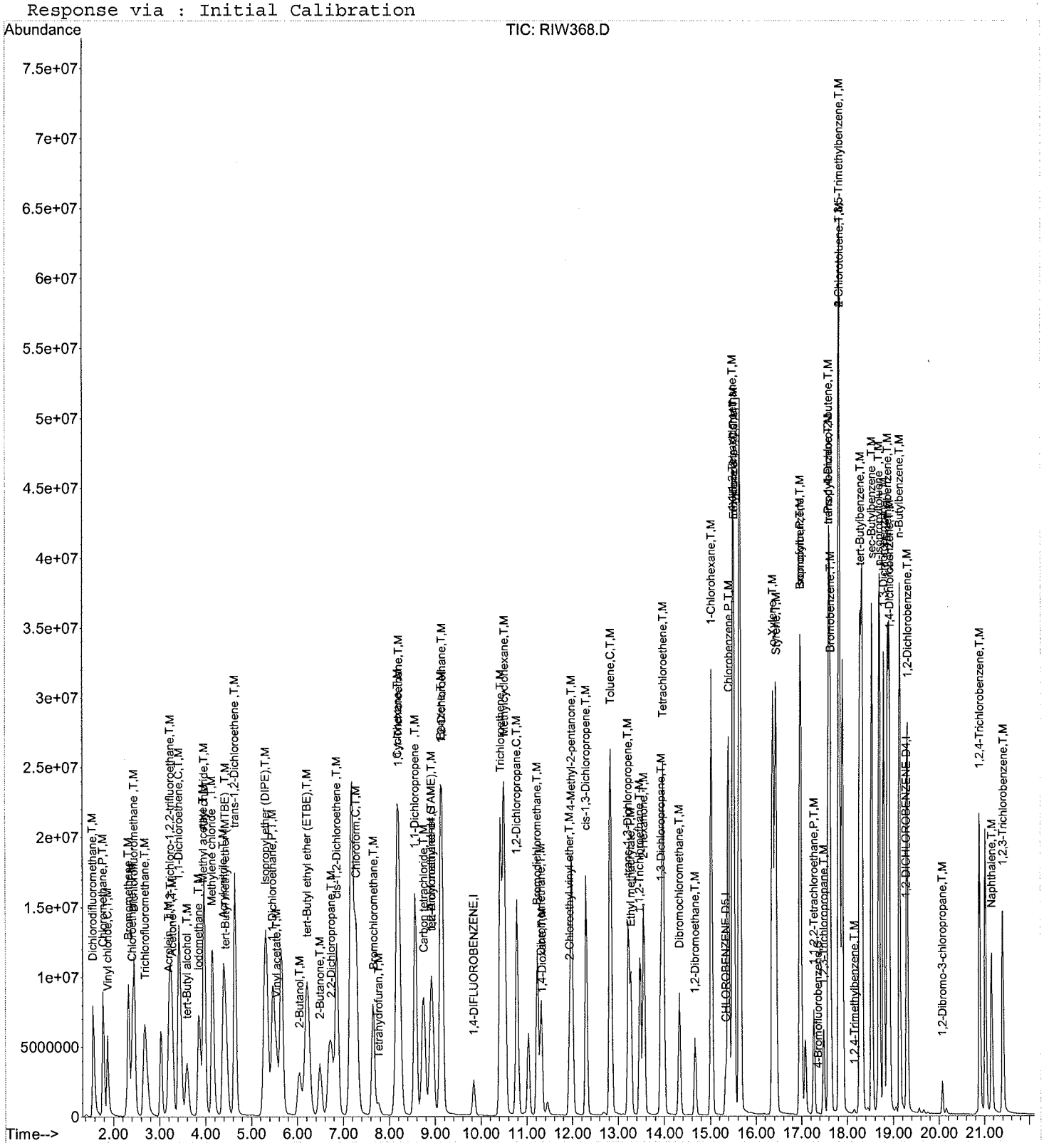
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
44)	Benzene	9.13	78	39650618	73.54	ug/l		81
45)	Trichloroethene	10.43	130	14236677	99.96	ug/l		98
46)	Methylcyclohexane	10.51	83	25299136	87.07	ug/l		97
47)	1,2-Dichloropropane	10.79	63	12295706	104.80	ug/l		99
48)	1,4-Dioxane	11.33	88	889072	2088.66	ug/l		99
49)	Bromodichloromethane	11.23	83	15082558	99.41	ug/l		98
50)	Dibromomethane	11.31	93	5893028	103.89	ug/l		99
51)	2-Chloroethyl vinyl ether	11.94	63	4114303	107.13	ug/l		99
52)	4-Methyl-2-pentanone	11.98	43	29132986	449.94	ug/l		90
53)	cis-1,3-Dichloropropene	12.30	75	18660398	102.63	ug/l		96
56)	Toluene	12.84	91	31886302	56.26	ug/l		66
57)	Ethyl methacrylate	13.28	69	9769841	106.29	ug/l		99
58)	trans-1,3-Dichloropropene	13.22	75	13910943	104.39	ug/l		98
59)	1,1,2-Trichloroethane	13.47	97	7266856	101.97	ug/l		98
60)	2-Hexanone	13.55	43	19202117	475.59	ug/l		92
61)	1,3-Dichloropropane	13.93	76	12838612	101.12	ug/l		95
62)	Tetrachloroethene	13.97	164	11830542	98.33	ug/l		98
63)	Dibromochloromethane	14.33	129	9019250	102.34	ug/l		100
65)	1,2-Dibromoethane	14.67	107	6820394	104.81	ug/l		95
66)	1-Chlorohexane	15.02	91	19098846	82.70	ug/l		95
67)	Chlorobenzene	15.40	112	24832674	80.17	ug/l		79
68)	1,1,1,2-Tetrachloroethane	15.49	131	10844225	103.68	ug/l		98
69)	Ethylbenzene	15.52	91	30736898	50.27	ug/l		45
70)	m-Xylene & p-Xylene	15.52	91	23979929	52.38	ug/l		76
71)	o-Xylene	16.36	91	28035182	60.77	ug/l		63
72)	Styrene	16.44	104	25697054	77.93	ug/l		74
73)	Isopropylbenzene	16.97	105	30834814	51.55	ug/l		64
75)	Bromoform	16.97	173	4355828	110.78	ug/l		99
76)	1,1,2,2-Tetrachloroethane	17.27	83	7172828	104.73	ug/l		100
78)	1,2,3-Trichloropropane	17.49	110	1860317	106.10	ug/l		95
79)	trans-1,4-Dichloro-2-buten	17.60	53	1773023	109.17	ug/l		100
80)	n-Propylbenzene	17.60	91	28473211	40.53	ug/l	#	42
81)	Bromobenzene	17.64	156	11949663	106.52	ug/l		96
82)	1,3,5-Trimethylbenzene	17.82	105	24393419	55.70	ug/l		64
83)	2-Chlorotoluene	17.83	91	27063361	63.87	ug/l		68
84)	4-Chlorotoluene	17.83	91	27063361	74.39	ug/l		64
85)	tert-Butylbenzene	18.29	134	10024227	102.88	ug/l		96
86)	1,2,4-Trimethylbenzene	18.16	105	265124	0.62	ug/l		61
87)	sec-Butylbenzene	18.53	105	25585775	41.96	ug/l		42
88)	p-Isopropyltoluene	18.69	119	24515314	50.82	ug/l		52
89)	1,3-Dichlorobenzene	18.79	146	18307471	83.87	ug/l		83
90)	1,2,3-Trimethylbenzene	18.88	105	22256819	58.80	ug/l		62
91)	1,4-Dichlorobenzene	18.92	146	17966829	85.28	ug/l		82
92)	n-Butylbenzene	19.14	91	22027226	46.41	ug/l		61
93)	1,2-Dichlorobenzene	19.31	146	16377204	92.02	ug/l		89
94)	1,2-Dibromo-3-chloropropan	20.08	157	1056098	98.70	ug/l		98
95)	1,2,4-Trichlorobenzene	20.89	180	11504784	111.44	ug/l		98
96)	Hexachlorobutadiene	21.02	225	7277719	Below Cal			94
97)	Naphthalene	21.17	128	15677824	108.35	ug/l		96
98)	1,2,3-Trichlorobenzene	21.41	180	8853551	113.78	ug/l		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW368.D Vial: 11
Acq On : 19 Oct 2024 7:57 pm Operator: DHguye
Sample : VO06J1910 10.0/50.0uL Inst : 06
Misc : 100ppb 8260/500ppb KET-AA/2500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :06
IC Beginning DateTime :10/19/24 15:59
Spike Amount :10_PPB
CC/CV File :RIW371
IC File :RIW364

Column Spec :RTX502.2 ID :0.25MM
IC Ending DateTime :10/19/24 19:57
HPChem Method :V006J19
Date_Time :10/19/24 21:15

M	IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,4-DIFLUOROBENZENE	10.000	0	4162272	1	1	9.842	9.842	0				
	2	Dichlorodifluoromethane	10.015	0.2	1482386	0.356	0.356	1.578	1.573	12.33				
	3	Chloromethane	11.640	16.4	1674934	0.402	0.346	1.795	1.792	12.43				
	4	Vinyl chloride	12.009	20.1	1385719	0.333	0.277	1.894	1.900	14.95				
	5	Bromomethane	11.737	17.4	1231998	0.296	0.252	2.328	2.333	13.23				
	6	Chloroethane	11.566	15.7	918929	0.221	0.191	2.407	2.420	11.28				
	7	Dichlorofluoromethane	10.927	9.3	2127547	0.511	0.468	2.466	2.460	10.00				
	8	Trichlorofluoromethane	10.491	4.9	1621305	0.390	0.371	2.684	2.691	11.49				
5	9	Acrolein	49.453	-1.1	213086	0.010	0.010	3.194	3.204	5.97				
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	9.595	-4.0	850149	0.204	0.213	3.236	3.256	13.61				
5	11	Acetone	48.582	-2.8	625827	0.030	0.031	3.278	3.290	6.01				
	12	1,1-Dichloroethene	10.428	4.3	1964938	0.472	0.453	3.425	3.438	10.84				
25	13	tert-Butyl alcohol	242.198	-3.1	862347	0.008	0.009	3.572	3.586	14.67				
	14	Acetonitrile												
	15	Methyl acetate	9.708	-2.9	84986	0.020	0.021	3.970	3.964	4.29				
	16	Iodomethane	11.039	10.4	2132130	0.512	0.464	3.865	3.864	8.54				
	17	Allyl chloride	10.577	5.8	797865	0.192	0.181	3.991	3.987	8.24				
	18	Methylene chloride	10.841	8.4	1498306	0.360	0.332	4.159	4.157	8.33				
	19	Carbon disulfide	10.885	8.9	2568453	0.617	0.567	4.117	4.131	13.30				
5	20	Acrylonitrile	53.573	7.1	920676	0.044	0.041	4.389	4.398	8.82				
	21	tert-Butyl methyl ether (MTBE)	10.927	9.3	2194529	0.527	0.482	4.431	4.443	9.00				
	22	trans-1,2-Dichloroethene	10.707	7.1	1510803	0.363	0.339	4.662	4.656	11.64				
	23	Isopropyl ether (DIPE)	11.184	11.8	4166807	1.001	0.895	5.312	5.325	9.09				
	24	Vinyl acetate	10.758	7.6	1390779	0.334	0.311	5.543	5.557	14.53				
	25	1,1-Dichloroethane	10.885	8.9	2283914	0.549	0.504	5.480	5.478	8.18				
25	26	2-Butanol	254.663	1.9	909216	0.009	0.009	6.025	6.038	10.55				
	27	tert-Butyl ethyl ether (ETBE)	10.578	5.8	2912787	0.700	0.662	6.214	6.225	7.94				
5	28	2-Butanone	51.859	3.7	1126406	0.054	0.052	6.486	6.501	14.55				
	29	2,2-Dichloropropane	10.625	6.3	1335971	0.321	0.302	6.738	6.750	11.90				
	30	cis-1,2-Dichloroethene	10.844	8.4	1476730	0.355	0.327	6.864	6.877	8.13				
	31	Chloroform	10.465	4.7	2192925	0.527	0.503	7.262	7.284	9.43				
	32	Bromochloromethane	11.171	11.7	648018	0.156	0.139	7.661	7.661	9.49				
	33	Tetrahydrofuran	9.682	-3.2	120486	0.029	0.030	7.766	7.785	10.62				
5	34	tert-Amyl alcohol												
	35	Dibromofluoromethane	12.000	20.0	1223430	0.294	0.245	7.808	7.808	14.43				
	36	1,1,1-Trichloroethane	10.592	5.9	1771028	0.425	0.402	8.206	8.209	10.25				
	37	Cyclohexane	10.436	4.4	2180112	0.524	0.502	8.185	8.190	11.11				
	38	2,2,4-Trimethylpentane												
	39	1,1-Dichloropropene	10.270	2.7	632607	0.152	0.148	8.563	8.582	9.27				
	40	Carbon tetrachloride	10.451	4.5	1424683	0.342	0.327	8.751	8.756	9.00				
	41	tert-Amyl methyl ether (TAME)	10.813	8.1	2520660	0.606	0.560	8.919	8.932	7.54				
	42	1,2-Dichloroethane-d4	11.918	19.2	841219	0.202	0.170	8.940	8.959	14.43				
	43	1,2-Dichloroethane	11.206	12.1	950929	0.228	0.204	9.150	9.155	11.62				
	44	Benzene	11.206	12.1	5405418	1.299	1.159	9.129	9.138	12.05				
	45	Trichloroethene	11.160	11.6	1421894	0.342	0.306	10.429	10.432	9.05				
	46	Methylcyclohexane	10.125	1.3	2631829	0.632	0.624	10.492	10.514	14.68				
	47	1,2-Dichloropropane	10.983	9.8	1152775	0.277	0.252	10.785	10.792	8.38				
20	48	1,4-Dioxane	183.699	-8.2	69947	0.001	0.001	11.331	11.337	11.50				
	49	Bromodichloromethane	10.599	6.0	1436541	0.346	0.326	11.226	11.233	7.01				
	50	Dibromomethane	10.528	5.3	534221	0.128	0.122	11.310	11.310	8.82				
	51	2-Chloroethyl vinyl ether	10.501	5.0	360758	0.087	0.083	11.939	11.939	8.53				
5	52	4-Methyl-2-pentanone	56.570	13.1	3276564	0.157	0.139	11.981	11.988	14.61				
	53	cis-1,3-Dichloropropene	11.144	11.4	1812567	0.435	0.391	12.295	12.304	11.87				
	54	CHLOROBENZENE-D5	10.000	0	3018237	1	1	15.339	15.339	0				
	55	Toluene-d8	11.858	18.6	4946713	1.639	1.382	12.694	12.703	13.88				
	56	Toluene	11.090	10.9	5555774	1.841	1.660	12.841	12.841	9.78				
	57	Ethyl methacrylate	11.115	11.1	903052	0.299	0.269	13.281	13.286	11.16				
	58	trans-1,3-Dichloropropene	11.268	12.7	1327325	0.440	0.390	13.218	13.231	12.81				
	59	1,1,2-Trichloroethane	10.978	9.8	691555	0.229	0.209	13.470	13.483	10.33				
5	60	2-Hexanone	55.362	10.7	1975833	0.131	0.118	13.554	13.565	10.99				
	61	1,3-Dichloropropane	11.177	11.8	1254401	0.416	0.372	13.931	13.932	10.10				
	62	Tetrachloroethene	10.578	5.8	1125068	0.373	0.352	13.973	13.986	9.93				
	63	Dibromochloromethane	10.742	7.4	836868	0.277	0.258	14.330	14.332	9.14				
	64	2-Ethyl-1-butanol												
	65	1,2-Dibromoethane	11.338	13.4	652205	0.216	0.191	14.665	14.672	12.90				
	66	1-Chlorohexane	9.963	-0.4	2033826	0.674	0.676	15.022	15.022	11.14				
	67	Chlorobenzene	11.312	13.1	3097495	1.026	0.907	15.391	15.404	11.92				
	68	1,1,1,2-Tetrachloroethane	10.922	9.2	1009857	0.335	0.306	15.494	15.495	9.38				
	69	Ethylbenzene	10.819	8.2	5848074	1.938	1.791	15.507	15.513	12.23				
2	70	m-Xylene & p-Xylene	21.443	7.2	8677728	1.438	1.341	15.637	15.647	11.99				
	71	o-Xylene	10.810	8.1	4408402	1.461	1.351	16.364	16.368	9.54				
	72	Styrene	11.245	12.4	3277729	1.086	0.966	16.429	16.438	12.84				
	73	Isopropylbenzene	10.664	6.6	5638140	1.868	1.752	16.974	16.986	12.29				
	74	1,2-DICHLOROBENZENE-D4	10.000	0	1111743	1	1	19.285	19.285	0				
	75	Bromoform	10.910	9.1	378667	0.341	0.312	16.974	16.974	12.92				
	76	1,1,2,2-Tetrachloroethane	11.398	14.0	689074	0.620	0.544	17.273	17.273	12.96				
	77	4-Bromofluorobenzene	11.689	16.9	1450999	1.305	1.116	17.364	17.372	14.29				
	78	1,2,3-Trichloropropane	11.051	10.5	171032	0.154	0.139	17.493	17.493	12.14				
	79	trans-1,4-Dichloro-2-butene	10.772	7.7	154413	0.139	0.129	17.597	17.604	14.30				
	80	n-Propylbenzene	11.283	12.8	6997014	6.294	5.578	17.597	17.599	13.24				
	81	Bromobenzene	11.378	13.8	1126592	1.013	0.891	17.636	17.638	14.69				
	82	1,3,5-Trimethylbenzene	11.165	11.6	4315957	3.882	3.477	17.818	17.818	11.80				
	83	2-Chlorotoluene	11.033	10.3	4126516	3.712	3.364	17.831	17.831	10.55				
	84	4-Chlorotoluene	11.601	16.0	3725365	3.351	2.888	17.896	17.896	14.25				
	85	tert-Butylbenzene	11.053	10.5	950635	0.855	0.774	18.272	18.279	11.90				
	86	1,2,4-Trimethylbenzene	11.077	10.8	4187243	3.766	3.400	18.311	18.324	12.47				
	87	sec-Butylbenzene	10.516	5.2	5660075	5.091	4.841	18.532	18.532	12.46				
	88	p-Isopropyltoluene	10.771	7.7	4586332	4.125	3.830	18.688	18.699	13.96				
	89	1,3-Dichlorobenzene	11.219	12.2	2161614	1.944	1.733	18.792	18.792	12.70				
	90	1,2,3-Trimethylbenzene	10.987	9.9	3670620	3.302	3.005	18.869	18.871	10.74				
	91	1,4-Dichlorobenzene	11.426	14.3	2124602	1.911	1.673	18.908	18.919	12.63				
	92	n-Butylbenzene	10.358	3.6	4339989	3.904	3.769	19.142	19.142	13.67				
	93	1,2-Dichlorobenzene	11.130	11.3	1748399	1.573	1.413	19.311	19.311	10.06				
	94	1,2-Dibromo-3-chloropropane	8.964	-10.4	84657	0.076	0.085	20.077	20.078	13.87				
	95	1,2,4-Trichlorobenzene	10.334	3.3	941613	0.847	0.820	20.894	20.905	11.66				
	96	Hexachlorobutadiene	10.897	9.0	589859	0.531	0.489	21.024	21.034	19.00	0.0009	0.5085	-0.0206	0.9928
	97	Naphthalene	10.401	4.0	1328412	1.195	1.149	21.167	21.168	10.32				
	98	1,2,3-Trichlorobenzene	10.651	6.5	731559	0.658	0.618	21.414	21.414	13.43				

Spike Amount = Nominal Amount * M

S M 11/15/24

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D Vial: 14
Acq On : 19 Oct 2024 9:15 pm Operator: DHguye
Sample : IVO06J191 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	109	0.00
2	T,M	Dichlorodifluoromethane	10.000	10.016	-0.2	91	0.01
3	P,T,M	Chloromethane	10.000	11.640	-16.4	102	0.00
4	C,T,M	Vinyl chloride	10.000	12.010	-20.1#	100	0.00
5	T,M	Bromomethane	10.000	11.737	-17.4	107	0.00
6	T,M	Chloroethane	10.000	11.567	-15.7	103	0.00
7	T,M	Dichlorofluoromethane	10.000	10.928	-9.3	100	0.01
8	T,M	Trichlorofluoromethane	10.000	10.491	-4.9	94	0.00
9	T,M	Acrolein	50.000	49.454	1.1	96	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	9.595	4.0	85	-0.02
11	T,M	Acetone	50.000	48.583	2.8	98	-0.02
12	C,T,M	1,1-Dichloroethene	10.000	10.428	-4.3	95	-0.02
13	T,M	tert-Butyl alcohol	250.000	242.199	3.1	95	-0.02
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	9.709	2.9	106	0.00
16	T,M	Iodomethane	10.000	11.040	-10.4	100	0.00
17	T,M	Allyl chloride	10.000	10.578	-5.8	98	0.00
18	T,M	Methylene chloride	10.000	10.842	-8.4	101	0.00
19	T,M	Carbon disulfide	10.000	10.886	-8.9	94	-0.02
20	T,M	Acrylonitrile	50.000	53.573	-7.1	100	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	10.927	-9.3	99	0.00
22	T,M	trans-1,2-Dichloroethene	10.000	10.707	-7.1	101	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	11.184	-11.8	100	-0.02
24	T,M	Vinyl acetate	10.000	10.758	-7.6	96	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.885	-8.8	101	0.00
26	T,M	2-Butanol	250.000	254.663	-1.9	104	-0.02
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.579	-5.8	100	0.00
28	T,M	2-Butanone	50.000	51.860	-3.7	96	-0.02
29	T,M	2,2-Dichloropropane	10.000	10.625	-6.3	93	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	10.844	-8.4	101	-0.02
31	C,T,M	Chloroform	10.000	10.466	-4.7	100	-0.02
32	T,M	Bromochloromethane	10.000	11.171	-11.7	102	0.00
33	T,M	Tetrahydrofuran	10.000	9.682	3.2	109	0.00
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	-0.02
35	S	Dibromofluoromethane	10.000	12.000	-20.0	102	0.00
36	T,M	1,1,1-Trichloroethane	10.000	10.592	-5.9	98	0.00
37	T,M	Cyclohexane	10.000	10.437	-4.4	96	0.00
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	-8.56#
39	T,M	1,1-Dichloropropene	10.000	10.270	-2.7	98	-0.02
40	T,M	Carbon tetrachloride	10.000	10.451	-4.5	95	0.00
41	T,M	tert-Amyl methyl ether (TAM	10.000	10.813	-8.1	99	-0.02
42	S	1,2-Dichloroethane-d4	10.000	11.918	-19.2	99	-0.02
43	T,M	1,2-Dichloroethane	10.000	11.207	-12.1	100	0.00
44	T,M	Benzene	10.000	11.207	-12.1	100	0.00
45	T,M	Trichloroethene	10.000	11.160	-11.6	101	0.00
46	T,M	Methylcyclohexane	10.000	10.125	-1.3	100	-0.02
47	C,T,M	1,2-Dichloropropane	10.000	10.984	-9.8	102	0.00
48	T,M	1,4-Dioxane	200.000	183.699	8.2	96	0.00
49	T,M	Bromodichloromethane	10.000	10.599	-6.0	99	0.00
50	T,M	Dibromomethane	10.000	10.528	-5.3	98	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D Vial: 14
Acq On : 19 Oct 2024 9:15 pm Operator: DHguye
Sample : IVO06J191 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	10.502	-5.0	102	0.00
52	T,M	4-Methyl-2-pentanone	50.000	56.571	-13.1	99	0.00
53	T,M	cis-1,3-Dichloropropene	10.000	11.145	-11.4	98	0.00
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	107	0.00
55	S	Toluene-d8	10.000	11.859	-18.6	98	0.00
56	C,T,M	Toluene	10.000	11.090	-10.9	100	0.00
57	T,M	Ethyl methacrylate	10.000	11.115	-11.2	98	0.00
58	T,M	trans-1,3-Dichloropropene	10.000	11.268	-12.7	98	-0.02
59	T,M	1,1,2-Trichloroethane	10.000	10.978	-9.8	98	-0.02
60	T,M	2-Hexanone	50.000	55.363	-10.7	98	0.00
61	T,M	1,3-Dichloropropane	10.000	11.178	-11.8	98	0.00
62	T,M	Tetrachloroethene	10.000	10.579	-5.8	95	-0.02
63	T,M	Dibromochloromethane	10.000	10.743	-7.4	97	0.00
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	11.338	-13.4	98	0.00
66	T,M	1-Chlorohexane	10.000	9.963	0.4	94	0.00
67	P,T,M	Chlorobenzene	10.000	11.313	-13.1	98	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	10.000	10.923	-9.2	97	0.00
69	C,T,M	Ethylbenzene	10.000	10.820	-8.2	96	0.00
70	T,M	m-Xylene & p-Xylene	20.000	21.444	-7.2	97	-0.01
71	T,M	o-Xylene	10.000	10.811	-8.1	98	0.00
72	T,M	Styrene	10.000	11.245	-12.4	97	-0.01
73	T,M	Isopropylbenzene	10.000	10.665	-6.6	96	-0.01
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	102	0.00
75	P,T,M	Bromoform	10.000	10.911	-9.1	96	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	11.399	-14.0	95	0.00
77	S	4-Bromofluorobenzene	10.000	11.690	-16.9	97	-0.01
78	T,M	1,2,3-Trichloropropane	10.000	11.051	-10.5	99	0.00
79	T,M	trans-1,4-Dichloro-2-butene	10.000	10.772	-7.7	94	0.00
80	T,M	n-Propylbenzene	10.000	11.283	-12.8	96	0.00
81	T,M	Bromobenzene	10.000	11.378	-13.8	94	0.00
82	T,M	1,3,5-Trimethylbenzene	10.000	11.166	-11.7	93	0.00
83	T,M	2-Chlorotoluene	10.000	11.033	-10.3	97	0.00
84	T,M	4-Chlorotoluene	10.000	11.601	-16.0	92	0.00
85	T,M	tert-Butylbenzene	10.000	11.054	-10.5	92	-0.01
86	T,M	1,2,4-Trimethylbenzene	10.000	11.077	-10.8	93	-0.01
87	T,M	sec-Butylbenzene	10.000	10.516	-5.2	89	0.00
88	T,M	p-Isopropyltoluene	10.000	10.772	-7.7	90	-0.01
89	T,M	1,3-Dichlorobenzene	10.000	11.219	-12.2	92	0.00
90	T,M	1,2,3-Trimethylbenzene	10.000	10.988	-9.9	92	0.00
91	T,M	1,4-Dichlorobenzene	10.000	11.426	-14.3	93	-0.01
92	T,M	n-Butylbenzene	10.000	10.359	-3.6	89	0.00
93	T,M	1,2-Dichlorobenzene	10.000	11.131	-11.3	92	0.00
94	T,M	1,2-Dibromo-3-chloropropane	10.000	8.964	10.4	89	0.00
95	T,M	1,2,4-Trichlorobenzene	10.000	10.334	-3.3	90	-0.01
96	T,M	Hexachlorobutadiene	10.000	10.897	-9.0	91	-0.01
97	T,M	Naphthalene	10.000	10.401	-4.0	91	0.00
98	T,M	1,2,3-Trichlorobenzene	10.000	10.652	-6.5	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

RIW371.D VO06J19.M Fri Nov 15 10:43:01 2024 SA 11/15/24

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D Vial: 14
Acq On : 19 Oct 2024 9:15 pm Operator: DHguye
Sample : IVO06J191 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	109	0.00
2	T,M	Dichlorodifluoromethane	0.356	0.356	0.0	91	0.01
3	P,T,M	Chloromethane	0.346	0.402	-16.2	102	0.00
4	C,T,M	Vinyl chloride	0.277	0.333	-20.2#	100	0.00
5	T,M	Bromomethane	0.252	0.296	-17.5	107	0.00
6	T,M	Chloroethane	0.191	0.221	-15.7	103	0.00
7	T,M	Dichlorofluoromethane	0.468	0.511	-9.2	100	0.01
8	T,M	Trichlorofluoromethane	0.371	0.390	-5.1	94	0.00
9	T,M	Acrolein	0.010	0.010	0.0	96	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.204	4.2	85	-0.02
11	T,M	Acetone	0.031	0.030	3.2	98	-0.02
12	C,T,M	1,1-Dichloroethene	0.453	0.472	-4.2	95	-0.02
13	T,M	tert-Butyl alcohol	0.009	0.008	11.1	95	-0.02
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.020	4.8	106	0.00
16	T,M	Iodomethane	0.464	0.512	-10.3	100	0.00
17	T,M	Allyl chloride	0.181	0.192	-6.1	98	0.00
18	T,M	Methylene chloride	0.332	0.360	-8.4	101	0.00
19	T,M	Carbon disulfide	0.567	0.617	-8.8	94	-0.02
20	T,M	Acrylonitrile	0.041	0.044	-7.3	100	0.00
21	T,M	tert-Butyl methyl ether (MT	0.482	0.527	-9.3	99	0.00
22	T,M	trans-1,2-Dichloroethene	0.339	0.363	-7.1	101	0.00
23	T,M	Isopropyl ether (DIPE)	0.895	1.001	-11.8	100	-0.02
24	T,M	Vinyl acetate	0.311	0.334	-7.4	96	-0.02
25	P,T,M	1,1-Dichloroethane	0.504	0.549	-8.9	101	0.00
26	T,M	2-Butanol	0.009	0.009	0.0	104	-0.02
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.700	-5.7	100	0.00
28	T,M	2-Butanone	0.052	0.054	-3.8	96	-0.02
29	T,M	2,2-Dichloropropane	0.302	0.321	-6.3	93	-0.02
30	T,M	cis-1,2-Dichloroethene	0.327	0.355	-8.6	101	-0.02
31	C,T,M	Chloroform	0.503	0.527	-4.8	100	-0.02
32	T,M	Bromochloromethane	0.139	0.156	-12.2	102	0.00
33	T,M	Tetrahydrofuran	0.030	0.029	3.3	109	0.00
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	-0.02
35	S	Dibromofluoromethane	0.245	0.294	-20.0	102	0.00
36	T,M	1,1,1-Trichloroethane	0.402	0.425	-5.7	98	0.00
37	T,M	Cyclohexane	0.502	0.524	-4.4	96	0.00
38	T,M	2,2,4-Trimethylpentane	0.000	0.000	0.0	0#	-8.56#
39	T,M	1,1-Dichloropropene	0.148	0.152	-2.7	98	-0.02
40	T,M	Carbon tetrachloride	0.327	0.342	-4.6	95	0.00
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.606	-8.2	99	-0.02
42	S	1,2-Dichloroethane-d4	0.170	0.202	-18.8	99	-0.02
43	T,M	1,2-Dichloroethane	0.204	0.228	-11.8	100	0.00
44	T,M	Benzene	1.159	1.299	-12.1	100	0.00
45	T,M	Trichloroethene	0.306	0.342	-11.8	101	0.00
46	T,M	Methylcyclohexane	0.624	0.632	-1.3	100	-0.02
47	C,T,M	1,2-Dichloropropane	0.252	0.277	-9.9	102	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	96	0.00
49	T,M	Bromodichloromethane	0.326	0.346	-6.1	99	0.00
50	T,M	Dibromomethane	0.122	0.128	-4.9	98	0.00

(#) = Out of Range

RIW371.D VO06J19.M Fri Nov 15 10:45:40 2024 SA 11/15/24 Page 1

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D Vial: 14
Acq On : 19 Oct 2024 9:15 pm Operator: DHguye
Sample : IVO06J191 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.083	0.087	-4.8	102	0.00
52	T,M	4-Methyl-2-pentanone	0.139	0.157	-12.9	99	0.00
53	T,M	cis-1,3-Dichloropropene	0.391	0.435	-11.3	98	0.00
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	107	0.00
55	S	Toluene-d8	1.382	1.639	-18.6	98	0.00
56	C,T,M	Toluene	1.660	1.841	-10.9	100	0.00
57	T,M	Ethyl methacrylate	0.269	0.299	-11.2	98	0.00
58	T,M	trans-1,3-Dichloropropene	0.390	0.440	-12.8	98	-0.02
59	T,M	1,1,2-Trichloroethane	0.209	0.229	-9.6	98	-0.02
60	T,M	2-Hexanone	0.118	0.131	-11.0	98	0.00
61	T,M	1,3-Dichloropropane	0.372	0.416	-11.8	98	0.00
62	T,M	Tetrachloroethene	0.352	0.373	-6.0	95	-0.02
63	T,M	Dibromochloromethane	0.258	0.277	-7.4	97	0.00
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.216	-13.1	98	0.00
66	T,M	1-Chlorohexane	0.676	0.674	0.3	94	0.00
67	P,T,M	Chlorobenzene	0.907	1.026	-13.1	98	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.335	-9.5	97	0.00
69	C,T,M	Ethylbenzene	1.791	1.938	-8.2	96	0.00
70	T,M	m-Xylene & p-Xylene	1.341	1.438	-7.2	97	-0.01
71	T,M	o-Xylene	1.351	1.461	-8.1	98	0.00
72	T,M	Styrene	0.966	1.086	-12.4	97	-0.01
73	T,M	Isopropylbenzene	1.752	1.868	-6.6	96	-0.01
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	102	0.00
75	P,T,M	Bromoform	0.312	0.341	-9.3	96	0.00
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.620	-14.0	95	0.00
77	S	4-Bromofluorobenzene	1.116	1.305	-16.9	97	-0.01
78	T,M	1,2,3-Trichloropropane	0.139	0.154	-10.8	99	0.00
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.139	-7.8	94	0.00
80	T,M	n-Propylbenzene	5.578	6.294	-12.8	96	0.00
81	T,M	Bromobenzene	0.891	1.013	-13.7	94	0.00
82	T,M	1,3,5-Trimethylbenzene	3.477	3.882	-11.6	93	0.00
83	T,M	2-Chlorotoluene	3.364	3.712	-10.3	97	0.00
84	T,M	4-Chlorotoluene	2.888	3.351	-16.0	92	0.00
85	T,M	tert-Butylbenzene	0.774	0.855	-10.5	92	-0.01
86	T,M	1,2,4-Trimethylbenzene	3.400	3.766	-10.8	93	-0.01
87	T,M	sec-Butylbenzene	4.841	5.091	-5.2	89	0.00
88	T,M	p-Isopropyltoluene	3.830	4.125	-7.7	90	-0.01
89	T,M	1,3-Dichlorobenzene	1.733	1.944	-12.2	92	0.00
90	T,M	1,2,3-Trimethylbenzene	3.005	3.302	-9.9	92	0.00
91	T,M	1,4-Dichlorobenzene	1.673	1.911	-14.2	93	-0.01
92	T,M	n-Butylbenzene	3.769	3.904	-3.6	89	0.00
93	T,M	1,2-Dichlorobenzene	1.413	1.573	-11.3	92	0.00
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.076	10.6	89	0.00
95	T,M	1,2,4-Trichlorobenzene	0.820	0.847	-3.3	90	-0.01
96	T,M	Hexachlorobutadiene	0.489	0.531	-8.6	91	-0.01
97	T,M	Naphthalene	1.149	1.195	-4.0	91	0.00
98	T,M	1,2,3-Trichlorobenzene	0.618	0.658	-6.5	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

RIW371.D VO06J19.M Fri Nov 15 10:45:43 2024

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D Vial: 14
Acq On : 19 Oct 2024 9:15 pm Operator: DHguye
Sample : IVO06J191 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	4162272	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.34	117	3018237	10.00	ug/l	0.00
74) 1,2-DICHLOROBENZENE-D4	19.28	152	1111743	10.00	ug/l	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	1223430	12.00	ug/l	0.00
Spiked Amount 10.000			Recovery = 120.00%			
42) 1,2-Dichloroethane-d4	8.94	65	841219	11.92	ug/l	-0.02
Spiked Amount 10.000			Recovery = 119.20%			
55) Toluene-d8	12.69	98	4946713	11.86	ug/l	0.00
Spiked Amount 10.000			Recovery = 118.60%			
77) 4-Bromofluorobenzene	17.36	95	1450999	11.69	ug/l	-0.01
Spiked Amount 10.000			Recovery = 116.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.58	85	1482386	10.02	ug/l	98
3) Chloromethane	1.79	50	1674934	11.64	ug/l	100
4) Vinyl chloride	1.89	62	1385719	12.01	ug/l	99
5) Bromomethane	2.33	94	1231998	11.74	ug/l	97
6) Chloroethane	2.41	64	918929	11.57	ug/l	98
7) Dichlorofluoromethane	2.47	67	2127547	10.93	ug/l	99
8) Trichlorofluoromethane	2.68	101	1621305	10.49	ug/l	98
9) Acrolein	3.19	56	213086	49.45	ug/l	97
10) 1,1,2-Trichloro-1,2,2-trif	3.24	151	850149	9.60	ug/l	100
11) Acetone	3.28	43	625827	48.58	ug/l	100
12) 1,1-Dichloroethene	3.42	61	1964938	10.43	ug/l	99
13) tert-Butyl alcohol	3.57	59	862347	242.20	ug/l	100
15) Methyl acetate	3.97	74	84986	9.71	ug/l	93
16) Iodomethane	3.87	142	2132130	11.04	ug/l	100
17) Allyl chloride	3.99	76	797865	10.58	ug/l	97
18) Methylene chloride	4.16	49	1498306	10.84	ug/l	99
19) Carbon disulfide	4.12	76	2568453	10.89	ug/l	99
20) Acrylonitrile	4.39	53	920676	53.57	ug/l	99
21) tert-Butyl methyl ether (M	4.43	73	2194529	10.93	ug/l	100
22) trans-1,2-Dichloroethene	4.66	96	1510803	10.71	ug/l	99
23) Isopropyl ether (DIPE)	5.31	45	4166807	11.18	ug/l	99
24) Vinyl acetate	5.54	43	1390779	10.76	ug/l	100
25) 1,1-Dichloroethane	5.48	63	2283914	10.89	ug/l	100
26) 2-Butanol	6.03	45	909216	254.66	ug/l	98
27) tert-Butyl ethyl ether (ET	6.21	59	2912787	10.58	ug/l	100
28) 2-Butanone	6.49	43	1126406	51.86	ug/l	98
29) 2,2-Dichloropropane	6.74	77	1335971	10.63	ug/l	100
30) cis-1,2-Dichloroethene	6.86	96	1476730	10.84	ug/l	99
31) Chloroform	7.26	83	2192925	10.47	ug/l	99
32) Bromochloromethane	7.66	130	648018	11.17	ug/l	98
33) Tetrahydrofuran	7.77	42	120486	9.68	ug/l	96
36) 1,1,1-Trichloroethane	8.21	97	1771028	10.59	ug/l	99
37) Cyclohexane	8.19	84	2180112	10.44	ug/l	99
39) 1,1-Dichloropropene	8.56	110	632607	10.27	ug/l	100
40) Carbon tetrachloride	8.75	119	1424683	10.45	ug/l	100
41) tert-Amyl methyl ether (TA	8.92	73	2520660	10.81	ug/l	99

(#) = qualifier out of range (m) = manual integration
RIW371.D VO06J19.M Fri Nov 15 10:39:28 2024 SG 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D Vial: 14
Acq On : 19 Oct 2024 9:15 pm Operator: DHguye
Sample : IVO06J191 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	950929	11.21	ug/l	97
44)	Benzene	9.13	78	5405418	11.21	ug/l	99
45)	Trichloroethene	10.43	130	1421894	11.16	ug/l	99
46)	Methylcyclohexane	10.49	83	2631829	10.13	ug/l	100
47)	1,2-Dichloropropane	10.79	63	1152775	10.98	ug/l	98
48)	1,4-Dioxane	11.33	88	69947	183.70	ug/l	89
49)	Bromodichloromethane	11.23	83	1438541	10.60	ug/l	99
50)	Dibromomethane	11.31	93	534221	10.53	ug/l	99
51)	2-Chloroethyl vinyl ether	11.94	63	360758	10.50	ug/l	95
52)	4-Methyl-2-pentanone	11.98	43	3276564	56.57	ug/l	99
53)	cis-1,3-Dichloropropene	12.30	75	1812567	11.14	ug/l	99
56)	Toluene	12.84	91	5555774	11.09	ug/l	99
57)	Ethyl methacrylate	13.28	69	903052	11.11	ug/l	100
58)	trans-1,3-Dichloropropene	13.22	75	1327325	11.27	ug/l	98
59)	1,1,2-Trichloroethane	13.47	97	691555	10.98	ug/l	98
60)	2-Hexanone	13.55	43	1975833	55.36	ug/l	100
61)	1,3-Dichloropropane	13.93	76	1254401	11.18	ug/l	98
62)	Tetrachloroethene	13.97	164	1125068	10.58	ug/l	98
63)	Dibromochloromethane	14.33	129	836868	10.74	ug/l	99
65)	1,2-Dibromoethane	14.67	107	652205	11.34	ug/l	100
66)	1-Chlorohexane	15.02	91	2033826	9.96	ug/l	97
67)	Chlorobenzene	15.39	112	3097495	11.31	ug/l	100
68)	1,1,1,2-Tetrachloroethane	15.49	131	1009857	10.92	ug/l	100
69)	Ethylbenzene	15.51	91	5848074	10.82	ug/l	100
70)	m-Xylene & p-Xylene	15.64	91	8677728	21.44	ug/l	100
71)	o-Xylene	16.36	91	4408402	10.81	ug/l	98
72)	Styrene	16.43	104	3277729	11.25	ug/l	100
73)	Isopropylbenzene	16.97	105	5638140	10.66	ug/l	100
75)	Bromoform	16.97	173	378667	10.91	ug/l	99
76)	1,1,2,2-Tetrachloroethane	17.27	83	689074	11.40	ug/l	99
78)	1,2,3-Trichloropropane	17.49	110	171032	11.05	ug/l	91
79)	trans-1,4-Dichloro-2-buten	17.60	53	154413	10.77	ug/l	96
80)	n-Propylbenzene	17.60	91	6997014	11.28	ug/l	99
81)	Bromobenzene	17.64	156	1126592	11.38	ug/l	98
82)	1,3,5-Trimethylbenzene	17.82	105	4315957	11.17	ug/l	99
83)	2-Chlorotoluene	17.83	91	4126516	11.03	ug/l	96
84)	4-Chlorotoluene	17.90	91	3725365	11.60	ug/l	95
85)	tert-Butylbenzene	18.27	134	950635	11.05	ug/l	99
86)	1,2,4-Trimethylbenzene	18.31	105	4187243	11.08	ug/l	99
87)	sec-Butylbenzene	18.53	105	5660075	10.52	ug/l	100
88)	p-Isopropyltoluene	18.69	119	4586332	10.77	ug/l	100
89)	1,3-Dichlorobenzene	18.79	146	2161614	11.22	ug/l	100
90)	1,2,3-Trimethylbenzene	18.87	105	3670620	10.99	ug/l	100
91)	1,4-Dichlorobenzene	18.91	146	2124602	11.43	ug/l	99
92)	n-Butylbenzene	19.14	91	4339989	10.36	ug/l	99
93)	1,2-Dichlorobenzene	19.31	146	1748399	11.13	ug/l	100
94)	1,2-Dibromo-3-chloropropan	20.08	157	84657	8.96	ug/l	96
95)	1,2,4-Trichlorobenzene	20.89	180	941613	10.33	ug/l	98
96)	Hexachlorobutadiene	21.02	225	589859	10.90	ug/l	96
97)	Naphthalene	21.17	128	1328412	10.40	ug/l	100

(#) = qualifier out of range (m) = manual integration

SG 11/15/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D Vial: 14
Acq On : 19 Oct 2024 9:15 pm Operator: DHguye
Sample : IVO06J191 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	1,2,3-Trichlorobenzene	21.41	180	731559	10.65	ug/l	100

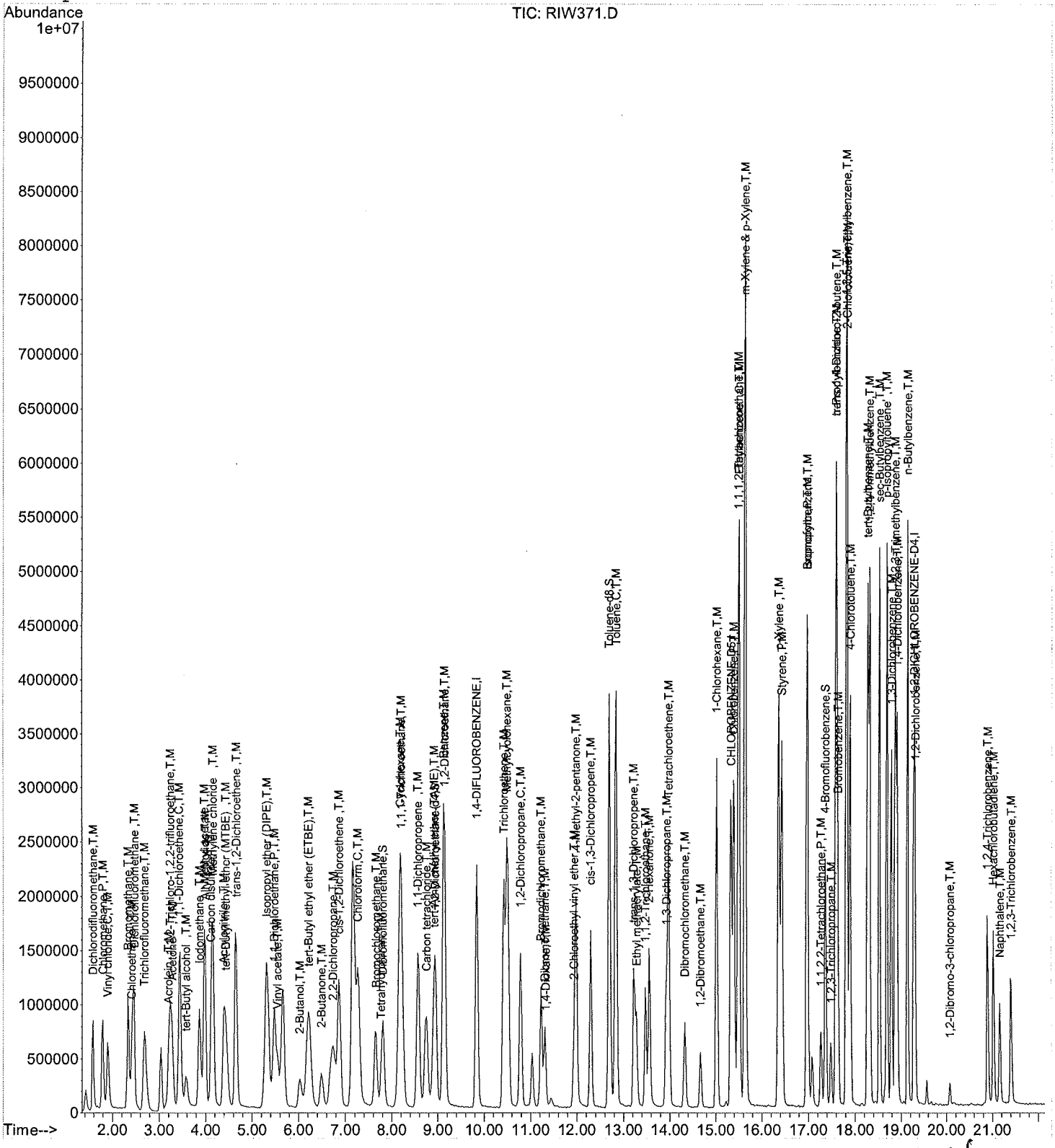
SA 11/15/24

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J19\RIW371.D Vial: 14
Acq On : 19 Oct 2024 9:15 pm Operator: DHguye
Sample : IVO06J191 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 14 16:57 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



INITIAL CALIBRATIONS

FORM 5

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : ICAL

Lab Code : EMAX SDG No : ICAL

Lab File ID: RJV296 BFB Injection Date: 10/12/24

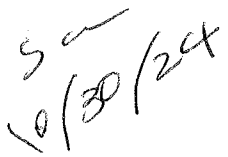
Instrument ID: 01 BFB Injection Time: 12:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	20.245
75	30 - 60% of mass 95	42.693
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	6.659
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	68.470
175	5 - 9% of mass 174	3.843(5.61)1
176	95 - 101% % of mass 174	66.756(97.5)1
177	5 - 9% % of mass 176	3.550(5.32)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following Calibration Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	VO01J121	RJV297	10/12/24	13:38
2	VSTD0.5	VO01J122	RJV298	10/12/24	14:08
3	VSTD1	VO01J123	RJV299	10/12/24	14:39
4	VSTD2	VO01J124	RJV300	10/12/24	15:09
5	VSTD5	VO01J125	RJV301	10/12/24	15:39
6	VSTD10	VO01J126	RJV302	10/12/24	16:08
7	VSTD20	VO01J127	RJV303	10/12/24	16:38
8	VSTD50	VO01J128	RJV304	10/12/24	17:08
9	VSTD30	VO01J129	RJV305	10/12/24	17:38
10	VSTD100	VO01J1210	RJV306	10/12/24	18:07
11	VSTD10	IVO01J1201	RJV309	10/12/24	19:36



Instrument ID :01
Beginning DateTime :10/12/24 13:38
Spike Units :PPB
IC File :RJV302

Column Spec :RXI-624SILMS ID :0.25MM
Ending DateTime :10/12/24 18:07
HPChem Method :VO01J12

M	IDX	Parameters	.3 13:38 RJV297	.5 14:08 RJV298	1 14:39 RJV299	2 15:09 RJV300	5 15:39 RJV301	10 16:08 RJV302	20 16:38 RJV303	30 17:38 RJV305	50 17:08 RJV304	100 18:07 RJV306	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	8.5435
	2	Chlorotrifluoroethylene	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	3	Dichlorodifluoromethane	0.346	0.383	0.455	0.425	0.471	0.456	0.437	0.412	0.371	0.351	0.411	11.08	2.2475
	4	2-Chloro-1,1,1-trifluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	5	Chloromethane	0.224	0.310	0.353	0.332	0.358	0.341	0.319	0.319	0.276	0.268	0.310	13.65	2.5594
	6	Vinyl chloride	0.195	0.242	0.294	0.299	0.315	0.296	0.287	0.295	0.251	0.261	0.273	13.19	2.6904
	7	Bromomethane	0.204	0.201	0.223	0.195	0.207	0.188	0.198	0.207	0.173	0.177	0.197	7.64	3.2326
	8	Chloroethane	------	0.175	0.213	0.211	0.221	0.216	0.212	0.232	0.192	0.193	0.207	8.38	3.2364
	9	Dichlorofluoromethane	0.332	0.484	0.387	0.387	0.395	0.310	0.363	0.366	0.439	0.334	0.380	13.68	3.3585
	10	Trichlorofluoromethane	------	0.422	0.472	0.475	0.495	0.479	0.459	0.444	0.391	0.366	0.445	9.80	3.6280
5	11	Acrolein	------	------	0.007	0.007	0.008	0.008	0.007	0.009	0.008	0.008	0.008	7.80	4.0240
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	0.154	0.180	0.195	0.199	0.198	0.177	0.190	0.199	0.173	0.168	0.183	8.51	4.1478
5	13	Acetone	------	------	------	0.039	0.039	0.038	0.035	0.036	0.034	------	0.037	6.03	4.0946
	14	1,1-Dichloroethene	0.433	0.475	0.520	0.515	0.497	0.442	0.464	0.482	0.425	0.413	0.467	8.08	4.2485
25	15	tert-Butyl alcohol	------	0.008	0.009	0.010	0.009	0.010	0.010	0.009	0.009	0.009	0.009	7.42	4.3734
	16	Iodomethane	0.342	0.364	0.437	0.434	0.425	0.373	0.404	0.427	0.377	0.381	0.396	8.42	4.6617
	17	Methyl acetate	------	------	------	0.112	0.089	0.099	0.083	0.094	------	------	0.095	11.58	4.6795
	18	Methylene chloride	0.311	0.350	0.385	0.369	0.353	0.312	0.327	0.345	0.303	0.308	0.336	8.38	4.8808
	19	Carbon disulfide	------	0.762	0.944	0.967	1.024	1.015	1.018	1.102	------	------	0.976	10.91	4.8974
5	20	Acrylonitrile	------	0.026	0.032	0.037	0.037	0.037	0.034	0.038	0.035	0.035	0.035	10.80	5.0579
	21	tert-Butyl methyl ether (MTBE)	0.351	0.414	0.498	0.521	0.510	0.475	0.478	0.489	0.449	0.436	0.462	11.13	5.0793
	22	trans-1,2-Dichloroethene	0.409	0.442	0.503	0.489	0.483	0.420	0.458	0.469	0.409	0.399	0.448	8.41	5.2644
	23	Isopropyl ether (DIPE)	0.827	0.913	1.055	1.025	1.016	0.885	0.932	0.998	0.887	0.845	0.938	8.58	5.6820
	24	Vinyl acetate	0.190	0.302	0.330	0.309	0.316	0.349	0.309	0.334	0.287	0.277	0.300	14.72	5.8464
	25	1,1-Dichloroethane	0.471	0.514	0.605	0.568	0.566	0.493	0.531	0.555	0.483	0.469	0.525	8.95	5.8360
25	26	2-Butanol	------	------	------	0.006	0.008	0.008	0.008	0.009	------	------	0.008	12.15	6.1781
	27	tert-Butyl ethyl ether (ETBE)	0.576	0.614	0.766	0.774	0.763	0.668	0.686	0.720	0.639	0.616	0.682	10.48	6.2477
5	28	2-Butanone	0.052	0.054	0.067	0.056	0.056	0.060	0.055	0.058	0.054	0.054	0.057	7.33	6.4417
	29	2,2-Dichloropropane	0.428	0.445	0.518	0.507	0.476	0.427	0.453	0.456	0.403	0.381	0.449	9.59	6.6297
	30	cis-1,2-Dichloroethene	0.285	0.311	0.360	0.344	0.344	0.303	0.327	0.344	0.302	0.297	0.322	7.93	6.6920
	31	Chloroform	0.555	0.551	0.631	0.590	0.566	0.490	0.523	0.526	0.478	0.445	0.535	10.32	6.9096
	32	Bromochloromethane	0.182	0.174	0.228	0.223	0.214	0.196	0.199	0.206	0.186	0.183	0.199	9.24	7.1510
	33	Tetrahydrofuran	------	------	0.031	0.032	0.039	0.031	0.029	0.031	0.030	0.029	0.031	10.36	7.2079
	34	Dibromofluoromethane	------	------	0.261	0.250	0.264	0.257	0.269	0.266	------	------	0.261	2.58	7.2265
	35	1,1,1-Trichloroethane	0.415	0.463	0.548	0.535	0.527	0.462	0.503	0.491	0.446	0.420	0.481	9.83	7.4946
	36	Cyclohexane	0.447	0.452	0.500	0.513	0.529	0.503	0.496	0.528	------	------	0.496	6.28	7.5172
	37	2,2,4-Trimethylpentane	------	------	------	0.023	0.025	0.024	0.023	0.025	------	------	0.024	5.03	7.5139
	38	1,1-Dichloropropene	0.125	0.137	0.158	0.152	0.157	0.139	0.151	0.160	0.140	0.137	0.146	7.96	7.7167
	39	Carbon tetrachloride	0.298	0.349	0.403	0.395	0.400	0.356	0.392	0.379	0.345	0.323	0.364	9.79	7.8722
	40	tert-Amyl methyl ether (TAME)	0.462	0.516	0.601	0.589	0.558	0.506	0.525	0.527	0.488	0.469	0.524	8.94	7.8914
	41	1,2-Dichloroethane-d4	------	------	0.227	0.227	0.235	0.237	0.236	0.219	------	------	0.230	3.01	7.9669
	42	Benzene	1.147	1.180	1.311	1.243	1.225	1.064	1.148	1.177	1.031	0.924	1.145	9.85	8.1239
	43	1,2-Dichloroethane	0.190	0.229	0.291	0.283	0.291	0.271	0.271	0.258	0.243	0.225	0.255	12.95	8.1002
	44	Trichloroethene	0.280	0.313	0.333	0.325	0.314	0.282	0.311	0.316	0.281	0.273	0.303	7.09	9.0632
	45	Methylcyclohexane	0.632	0.561	0.557	0.600	0.602	0.569	0.581	0.593	------	------	0.587	4.28	9.1484
	46	1,2-Dichloropropane	0.251	0.235	0.285	0.275	0.274	0.244	0.262	0.271	0.243	0.236	0.258	7.03	9.3431
	47	Bromodichloromethane	0.332	0.335	0.394	0.377	0.379	0.342	0.367	0.356	0.330	0.313	0.353	7.42	9.7148
20	48	1,4-Dioxane	------	------	------	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	14.16	9.7571
	49	Dibromomethane	0.091	0.103	0.131	0.125	0.121	0.113	0.115	0.113	0.106	0.101	0.112	10.72	9.8066
	50	2-Chloroethyl vinyl ether	------	------	0.005	0.010	0.014	0.017	0.019	0.022	0.022	------	0.016	39.29	10.2225
5	51	4-Methyl-2-pentanone	------	0.093	0.120	0.131	0.140	0.145	0.132	0.135	0.126	0.117	0.127	12.23	10.2611
	52	cis-1,3-Dichloropropene	0.295	0.356	0.420	0.404	0.415	0.385	0.422	0.419	0.384	0.363	0.386	10.37	10.6063
	53	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	13.6939
	54	Toluene-d8	------	------	1.423	1.446	1.443	1.342	1.199	1.399	------	------	1.375	6.87	11.0131
	55	Toluene	1.599	1.679	1.880	1.804	1.739	1.508	1.383	1.663	1.363	1.230	1.585	13.23	11.1483
	56	Ethyl methacrylate	------	0.158	0.214	0.240	0.251	0.254	0.213	0.258	0.229	0.228	0.227	13.58	11.4475
	57	trans-1,3-Dichloropropene	0.262	0.309	0.370	0.408	0.409	0.384	0.336	0.402	0.357	0.352	0.359	13.11	11.4682
	58	1,1,2-Trichloroethane	0.147	0.191	0.227	0.220	0.215	0.203	0.172	0.208	0.183	0.184	0.195	12.51	11.7318
5	59	2-Hexanone	------	------	0.078	0.104	0.113	0.119	0.094	0.115	0.105	0.101	0.104	12.75	11.7455
	60	1,3-Dichloropropane	0.286	0.335	0.407	0.421	0.396	0.373	0.374	0.390	0.356	0.339	0.368	10.91	12.1745
	61	Tetrachloroethene	0.356	0.356	0.377	0.376	0.362	0.315	0.338	0.347	0.306	0.292	0.343	8.52	12.2767
	62	Dibromochloromethane	0.201	0.226	0.230	0.245	0.246	0.238	0.238	0.247	0.230	0.223	0.232	6.04	12.6470
	63	1,2-Dibromoethane	0.135	0.168	0.193	0.197	0.204	0.193	0.195	0.200	0.187	0.177	0.185	11.07	13.0127
	64	1-Chlorohexane	0.748	0.745	0.830	0.804	0.791	0.687	0.745	0.767	0.675	0.612	0.740	8.90	13.2837
	65	Chlorobenzene	0.895	0.943	1.048	1.058	1.014	0.891	0.962	0.988	0.881	0.808	0.949	8.50	13.7620
	66	1,1,1,2-Tetrachloroethane	0.219	0.262	0.321	0.317	0.320	0.280	0.303	0.312	0.289	0.275	0.290	11.11	13.8435
	67	Ethylbenzene	1.926	1.945	2.180	2.149	2.060	1.793	1.884	1.875	1.616	1.325	1.875	13.61	13.8598
2	68	m-Xylene & p-Xylene	1.529	1.446	1.644	1.621	1.553	1.311	1.375	1.370	------	------	1.481	8.36	13.9964
	69	o-Xylene	1.422	1.449	1.670	1.651	1.728	1.561	1.405	1.424	1.241	1.076	1.463	13.73	14.8164
	70	Styrene	0.947	0.981	1.179	1.161	1.246	1.176	1.078	1.082	0.970	0.879	1.070	11.33	14.8860
	71	Isopropylbenzene	1.835	1.857	2.162	2.165	2.450	2.076	1.863	1.887	1.578	------	1.986	12.81	15.4951
	72	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	18.6667
	73	Bromoform	0.135	0.188	0.226	0.217	0.257	0.270	0.279	0.300	0.285	0.300	0.246	21.91	15.5361
	74	trans-1,4-Dichloro-2-butene	------	------	0.117	0.127	0.151	0.167	0.164	0.174	0.160	0.172	0.154	13.73	15.6087
	75	1,1,2,2-Tetrachloroethane	0.384	0.490	0.571	0.509	0.563	0.579	0.560	0.567	0.529	0.526	0.528	11.05	15.8353
	76	4-Bromofluorobenzene	------	------	1.235	1.019	1.171	1.172	1.265	1.242	------	------	1.184	7.58	15.9814
	77	1,2,3-Trichloropropane	------	0.112	0.147	0.141	0.153	0.160	0.156	0.160	0.152	0.153	0.148	10.16	16.1270
	78	n-Propylbenzene	6.302	6.289	6.963	5.873	6.565	5.625	6.079	6.091	5.063	4.364	5.921	12.69	16.2751
	79	Bromobenzene	0.806	0.845	0.914	0.805	0.914	0.812	0.887	0.917	0.827	0.850	0.858	5.43	16.3610
	80	1,3,5-Trimethylbenzene	3.764	3.860	4.238	3.518	3.941	3.444	3.764	3.815	3.287	3.001	3.663	9.71	16.5816
	81	2-Chlorotoluene	3.673	3.763	4.232	3.543	3.897	3.357	3.637	3.731	3.160	2.991	3.598	10.00	16.6157
	82	4-Chlorotoluene	3.572	3.435	3.477	3.079	3.313	2.992	3.286	3.256	2.943	2.756	3.211	8.13	16.7060
	83	tert-Butylbenzene	0.801	0.787	0.899	0.790	0.890	0.791	0.847	0.877	0.790	0.785	0.826	5.73	17.2643
	84	1,2,4-Trimethylbenzene	3.709	3.588	4.109	3.600	3.957	3.412	3.681	3.689	3.196	2.887	3.583	9.83	17.3339
	85	sec-Butylbenzene	5.868	5.508	6.020	5.144	5.666	5.024	5.252	5.172	4.288	3.642	5.158	14.02	17.6375
	86	p-Isopropyltoluene	4.356	4.251	4.770	4.019	4.391	3.814	4.043	4.055	3.483	3.061	4.024	12.06	17.8596
	87	1,3-Dichlorobenzene	1.747	1.715	1.963	1.724	1.839	1.633	1.736	1.770	1.593	1.520	1.724	7.25	18.0077
	88	1,2,3-Trimethylbenzene	3.248	3.363	3.806	3.704	3.515	3.115	3.285	3.247	2.792	2.538	3.261	11.80	18.1143
	89	1,4-Dichlorobenzene	1.846	1.787	1.987	1.819	1.788	1.568	1.683	1.697	1.511	1.445	1.713	9.73	18.1706
	90	n-Butylbenzene	4.848	4.649	5.049	4.717	4.620	3.978	4.162	4.164	3.413	------	4.400	11.64	18.4716
	91	1,2-Dichlorobenzene	1.390	1.390	1.632	1.521	1.501	1.334	1.397	1.408	1.274	1.217	1.406	8.62	18.7037
	92	1,2-Dibromo-3-chloropropane	------	------	0.058	0.066	0.064	0.075	0.074	0.078	0.074	0.075	0.071	9.99	19.7015
	93	1,2,4-Trichlorobenzene	0.933	0.982	1.009	1.010	1.003	0.900	0.952	0.987	0.887	0.857	0.952	5.80	20.7917
	94	Hexachlorobutadiene	0.574	0.613	0.695	0.654	0.646	0.564	0.618	0.649	0.558	0.530	0.610	8.57	20.9561
	95	Naphthalene	1.256	1.003	1.258	1.213	1.162	1.231	1.160	1.257	1.107	1.074	1.172	7.49	21.1368
	96	1,2,3-Trichlorobenzene	0.595	0.651	0.782	0.742	0.730	0.685	0.701	0.733	0.648	0.636	0.690	8.36	21.4581

Spike Amount = Nominal Amount * M
Ave_%RSD : 10.1 Max_%RSD : 39.3

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
50	2-Chloroethyl vinyl ether	-0.00216	0.02145	0.9977
73	Bromoform	-0.00663	0.29386	0.9993

SM 12/30/24

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR(%REC)

Instrument ID :01
Beginning DateTime :10/12/24 13:38
Spike Units :PPB
IC File :RJV302

Column Spec :RXI-624SILMS ID :0.25MM
Ending DateTime :10/12/24 18:07
HPChem Method :VO01J12

M	IDX	Parameters	.3 13:38 RJV297	.5 14:08 RJV298	1 14:39 RJV299	2 15:09 RJV300	5 15:39 RJV301	10 16:08 RJV302	20 16:38 RJV303	30 17:38 RJV305	50 17:08 RJV304	100 18:07 RJV306	AvDRec	% RSD	Av Rt M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	8.5435
	2	Chlorotrifluoroethylene	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	3	Dichlorodifluoromethane	84	93	111	103	115	111	106	100	90	85	9.3	11.08	2.2475
	4	2-Chloro-1,1,1-trifluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	5	Chloromethane	72	100	114	107	115	110	103	103	89	86	10.5	13.65	2.5594
	6	Vinyl chloride	71	89	108	110	115	108	105	108	92	96	10.7	13.19	2.6904
	7	Bromomethane	104	102	113	99	105	95	101	105	88	90	5.7	7.64	3.2326
	8	Chloroethane	------	85	103	102	107	104	102	112	93	93	6.7	8.38	3.2364
	9	Dichlorofluoromethane	87	127	102	102	104	82	96	96	116	88	10.2	13.68	3.3585
	10	Trichlorofluoromethane	------	95	106	107	111	108	103	100	88	82	7.8	9.80	3.6280
5	11	Acrolein	------	------	87	87	100	100	87	112	100	100	6.3	7.80	4.0240
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	84	98	107	109	108	97	104	109	95	92	7	8.51	4.1478
5	13	Acetone	------	------	------	105	105	103	95	97	92	------	5	6.03	4.0946
	14	1,1-Dichloroethene	93	102	111	110	106	95	99	103	91	88	6.7	8.08	4.2485
25	15	tert-Butyl alcohol	------	89	100	111	100	111	111	100	100	100	4.9	7.42	4.3734
	16	Iodomethane	86	92	110	110	107	94	102	108	95	96	7.3	8.42	4.6617
	17	Methyl acetate	------	------	------	118	94	104	87	99	------	------	8.4	11.58	4.6795
	18	Methylene chloride	93	104	115	110	105	93	97	103	90	92	7.2	8.38	4.8808
	19	Carbon disulfide	------	78	97	99	105	104	104	113	------	------	7.5	10.91	4.8974
5	20	Acrylonitrile	------	74	91	106	106	106	97	109	100	100	7	10.80	5.0579
	21	tert-Butyl methyl ether (MTBE)	76	90	108	113	110	103	103	106	97	94	8.6	11.13	5.0793
	22	trans-1,2-Dichloroethene	91	99	112	109	108	94	102	105	91	89	7.2	8.41	5.2644
	23	Isopropyl ether (DIPE)	88	97	112	109	108	94	99	106	95	90	7.3	8.58	5.6820
	24	Vinyl acetate	63	101	110	103	105	116	103	111	96	92	9.8	14.72	5.8464
	25	1,1-Dichloroethane	90	98	115	108	108	94	101	106	92	89	7.5	8.95	5.8360
25	26	2-Butanol	------	------	------	75	100	100	100	112	------	------	7.5	12.15	6.1781
	27	tert-Butyl ethyl ether (ETBE)	84	90	112	113	112	98	101	106	94	90	8.7	10.48	6.2477
5	28	2-Butanone	91	95	118	98	98	105	96	102	95	95	5.6	7.33	6.4417
	29	2,2-Dichloropropane	95	99	115	113	106	95	101	102	90	85	7.3	9.59	6.6297
	30	cis-1,2-Dichloroethene	89	97	112	107	107	94	102	107	94	92	6.9	7.93	6.6920
	31	Chloroform	104	103	118	110	106	92	98	98	89	83	8.1	10.32	6.9096
	32	Bromochloromethane	91	87	115	112	108	98	100	104	93	92	7.5	9.24	7.1510
	33	Tetrahydrofuran	------	------	100	103	126	100	94	100	97	94	5.6	10.36	7.2079
	34	Dibromofluoromethane	------	------	100	96	101	98	103	102	------	------	2	2.58	7.2265
	35	1,1,1-Trichloroethane	86	96	114	111	110	96	105	102	93	87	8.3	9.83	7.4946
	36	Cyclohexane	90	91	101	103	107	101	100	106	------	------	4.7	6.28	7.5172
	37	2,2,4-Trimethylpentane	------	------	------	96	104	100	96	104	------	------	3.3	5.03	7.5139
	38	1,1-Dichloropropene	86	94	108	104	108	95	103	110	96	94	6.8	7.96	7.7167
	39	Carbon tetrachloride	82	96	111	109	110	98	108	104	95	89	8.2	9.79	7.8722
	40	tert-Amyl methyl ether (TAME)	88	98	115	112	106	97	100	101	93	90	6.9	8.94	7.8914
	41	1,2-Dichloroethane-d4	------	------	99	99	102	103	103	95	------	------	2.5	3.01	7.9669
	42	Benzene	100	103	114	109	107	93	100	103	90	81	7.3	9.85	8.1239
	43	1,2-Dichloroethane	75	90	114	111	114	106	106	101	95	88	10.5	12.95	8.1002
	44	Trichloroethene	92	103	110	107	104	93	103	104	93	90	6.3	7.09	9.0632
	45	Methylcyclohexane	108	96	95	102	103	97	99	101	------	------	3.4	4.28	9.1484
	46	1,2-Dichloropropane	97	91	110	107	106	95	102	105	94	91	6.1	7.03	9.3431
	47	Bromodichloromethane	94	95	112	107	107	97	104	101	93	89	6.3	7.42	9.7148
20	48	1,4-Dioxane	------	------	------	70	94	104	110	110	108	105	0	14.16	9.7571
	49	Dibromomethane	81	92	117	112	108	101	103	101	95	90	8.3	10.72	9.8066
	50	2-Chloroethyl vinyl ether	------	------	126	97	86	90	95	104	103	------	31.2	39.29	10.2225
5	51	4-Methyl-2-pentanone	------	73	94	103	110	114	104	106	99	92	8.7	12.23	10.2611
	52	cis-1,3-Dichloropropene	76	92	109	105	108	100	109	109	99	94	7.7	10.37	10.6063
	53	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	13.6939
	54	Toluene-d8	------	------	103	105	105	98	87	102	------	------	5.1	6.87	11.0131
	55	Toluene	101	106	119	114	110	95	87	105	86	78	10.8	13.23	11.1483
	56	Ethyl methacrylate	------	70	94	106	111	112	94	114	101	100	9.5	13.58	11.4475
	57	trans-1,3-Dichloropropene	73	86	103	114	114	107	94	112	99	98	9.9	13.11	11.4682
	58	1,1,2-Trichloroethane	75	98	116	113	110	104	88	107	94	94	10.1	12.51	11.7318
5	59	2-Hexanone	------	------	75	100	109	114	90	111	101	97	9	12.75	11.7455
	60	1,3-Dichloropropane	78	91	111	114	108	101	102	106	97	92	8.4	10.91	12.1745
	61	Tetrachloroethene	104	104	110	110	106	92	99	101	89	85	6.9	8.52	12.2767
	62	Dibromochloromethane	87	97	99	106	106	103	103	106	99	96	4.5	6.04	12.6470
	63	1,2-Dibromoethane	73	91	104	106	110	104	105	108	101	96	8.1	11.07	13.0127
	64	1-Chlorohexane	101	101	112	109	107	93	101	104	91	83	6.7	8.90	13.2837
	65	Chlorobenzene	94	99	110	111	107	94	101	104	93	85	6.9	8.50	13.7620
	66	1,1,1,2-Tetrachloroethane	76	90	111	109	110	97	104	108	100	95	8.6	11.11	13.8435
	67	Ethylbenzene	103	104	116	115	110	96	100	100	86	71	9.5	13.61	13.8598
2	68	m-Xylene & p-Xylene	103	98	111	109	105	89	93	93	------	------	7.1	8.36	13.9964
	69	o-Xylene	97	99	114	113	118	107	96	97	85	74	10.4	13.73	14.8164
	70	Styrene	89	92	110	109	116	110	101	101	91	82	9.4	11.33	14.8860
	71	Isopropylbenzene	92	94	109	109	123	105	94	95	79	------	10.2	12.81	15.4951
	72	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	18.6667
	73	Bromoform	120	110	99	85	92	94	96	103	98	102	17.6	21.91	15.5361
	74	trans-1,4-Dichloro-2-butene	------	------	76	82	98	108	106	113	104	112	10.9	13.73	15.6087
	75	1,1,2,2-Tetrachloroethane	73	93	108	96	107	110	106	107	100	100	7.7	11.05	15.8353
	76	4-Bromofluorobenzene	------	------	104	86	99	99	107	105	------	------	5.3	7.58	15.9814
	77	1,2,3-Trichloropropane	------	76	99	95	103	108	105	108	103	103	6.8	10.16	16.1270
	78	n-Propylbenzene	106	106	118	99	111	95	103	103	86	74	9.3	12.69	16.2751
	79	Bromobenzene	94	98	107	94	107	95	103	107	96	99	4.7	5.43	16.3610
	80	1,3,5-Trimethylbenzene	103	105	116	96	108	94	103	104	90	82	7.7	9.71	16.5816
	81	2-Chlorotoluene	102	105	118	98	108	93	101	104	88	83	7.5	10.00	16.6157
	82	4-Chlorotoluene	111	107	108	96	103	93	102	101	92	86	6.7	8.13	16.7060
	83	tert-Butylbenzene	97	95	109	96	108	96	103	106	96	95	5.1	5.73	17.2643
	84	1,2,4-Trimethylbenzene	104	100	115	100	110	95	103	103	89	81	7	9.83	17.3339
	85	sec-Butylbenzene	114	107	117	100	110	97	102	100	83	71	9.8	14.02	17.6375
	86	p-Isopropyltoluene	108	106	119	100	109	95	100	101	87	76	8.6	12.06	17.8596
	87	1,3-Dichlorobenzene	101	99	114	100	107	95	101	103	92	88	5	7.25	18.0077
	88	1,2,3-Trimethylbenzene	100	103	117	114	108	96	101	100	86	78	8.4	11.80	18.1143
	89	1,4-Dichlorobenzene	108	104	116	106	104	92	98	99	88	84	7.7	9.73	18.1706
	90	n-Butylbenzene	110	106	115	107	105	90	95	95	78	------	9.5	11.64	18.4716
	91	1,2-Dichlorobenzene	99	99	116	108	107	95	99	100	91	87	6.2	8.62	18.7037
	92	1,2-Dibromo-3-chloropropane	------	------	82	93	90	106	104	110	104	106	8.1	9.99	19.7015
	93	1,2,4-Trichlorobenzene	98	103	106	106	105	95	100	104	93	90	4.9	5.80	20.7917
	94	Hexachlorobutadiene	94	100	114	107	106	92	101	106	91	87	7	8.57	20.9561
	95	Naphthalene	107	86	107	103	99	105	99	107	94	92	6	7.49	21.1368
	96	1,2,3-Trichlorobenzene	86	94	113	108	106	99	102	106	94	92	6.9	8.36	21.4581

SC
10/30/24

Compound List Report 01

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
Total Cpnds : 96

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-DIFLUOROBENZENE	114	8.54	1.000	A	1	A	B
2	T	Chlorotrifluoroethylene	116	2.08	0.243	A	2	A	B
3	T	Dichlorodifluoromethane	85	2.26	0.264	A	1	A	B
4	T	2-Chloro-1,1,1-trifluoroethane	118	2.53	0.296	A	2	A	B
5	T	Chloromethane	50	2.57	0.301	A	1	A	B
6	T	Vinyl chloride	62	2.70	0.316	A	1	A	B
7	T	Bromomethane	94	3.24	0.380	A	1	A	B
8	T	Chloroethane	64	3.24	0.380	A	1	A	B
9	T	Dichlorofluoromethane	67	3.36	0.393	A	1	A	B
10	T	Trichlorofluoromethane	101	3.63	0.425	A	1	A	B
11	T	Acrolein	56	4.01	0.470	A	1	A	B
12	T	1,1,2-Trichloro-1,2,2-trifluor	151	4.15	0.485	A	1	A	B
13	T	Acetone	43	4.09	0.478	A	1	A	B
14	T	1,1-Dichloroethene	61	4.25	0.497	A	2	A	B
15	T	tert-Butyl alcohol	59	4.37	0.511	A	1	A	B
16	T	Iodomethane	142	4.67	0.546	A	1	A	B
17	T	Methyl acetate	43	4.68	0.548	A	1	A	B
18	T	Methylene chloride	49	4.89	0.572	A	2	A	B
19	T	Carbon disulfide	76	4.90	0.574	A	1	A	B
20	T	Acrylonitrile	53	5.05	0.591	A	2	A	B
21	T	tert-Butyl methyl ether (MTBE)	73	5.08	0.595	A	1	A	B
22	T	trans-1,2-Dichloroethene	61	5.27	0.617	A	2	A	B
23	T	Isopropyl ether (DIPE)	45	5.69	0.666	A	1	A	B
24	T	Vinyl acetate	43	5.85	0.685	A	1	A	B
25	T	1,1-Dichloroethane	63	5.84	0.683	A	2	A	B
26	T	2-Butanol	45	6.17	0.723	A	1	A	B
27	T	tert-Butyl ethyl ether (ETBE)	59	6.25	0.731	A	1	A	B
28	T	2-Butanone	43	6.43	0.752	A	1	A	B
29	T	2,2-Dichloropropane	77	6.63	0.777	A	2	A	B
30	T	cis-1,2-Dichloroethene	96	6.69	0.783	A	2	A	B
31	T	Chloroform	83	6.92	0.809	A	2	A	B
32	T	Bromochloromethane	49	7.15	0.837	A	2	A	B
33	T	Tetrahydrofuran	42	7.21	0.844	A	2	A	B
34	S	Dibromofluoromethane	111	7.23	0.846	A	2	A	B
35	T	1,1,1-Trichloroethane	97	7.49	0.877	A	2	A	B
36	T	Cyclohexane	84	7.52	0.880	A	1	A	B
37	T	2,2,4-Trimethylpentane	57	7.52	0.880	A	1	A	B
38	T	1,1-Dichloropropene	110	7.72	0.903	A	1	A	B
39	T	Carbon tetrachloride	119	7.88	0.922	A	1	A	B
40	T	tert-Amyl methyl ether (TAME)	73	7.89	0.924	A	1	A	B
41	S	1,2-Dichloroethane-d4	65	7.97	0.932	A	1	A	B
42	T	Benzene	78	8.13	0.952	A	2	A	B
43	T	1,2-Dichloroethane	62	8.10	0.948	A	1	A	B
44	T	Trichloroethene	130	9.06	1.061	A	3	A	B
45	T	Methylcyclohexane	83	9.15	1.071	A	2	A	B
46	T	1,2-Dichloropropane	63	9.34	1.094	A	1	A	B
47	T	Bromodichloromethane	83	9.71	1.137	A	1	A	B
48	T	1,4-Dioxane	88	9.76	1.142	A	1	A	B
49	T	Dibromomethane	93	9.80	1.147	A	2	A	B
50	T	2-Chloroethyl vinyl ether	63	10.22	1.196	L	2	A	B
51	T	4-Methyl-2-pentanone	43	10.25	1.199	A	3	A	B
52	T	cis-1,3-Dichloropropene	75	10.60	1.241	A	1	A	B

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53	I	CHLOROBENZENE-D5	117	13.70	1.000	A	2	A	B
54	S	Toluene-d8	98	11.02	0.804	A	1	A	B
55	T	Toluene	91	11.15	0.814	A	1	A	B
56	T	Ethyl methacrylate	69	11.43	0.835	A	1	A	B
57	T	trans-1,3-Dichloropropene	75	11.46	0.837	A	1	A	B
58	T	1,1,2-Trichloroethane	97	11.73	0.856	A	2	A	B
59	T	2-Hexanone	43	11.74	0.857	A	1	A	B
60	T	1,3-Dichloropropane	76	12.17	0.889	A	1	A	B
61	T	Tetrachloroethene	164	12.28	0.896	A	3	A	B
62	T	Dibromochloromethane	129	12.65	0.923	A	1	A	B
63	T	1,2-Dibromoethane	107	13.02	0.950	A	1	A	B
64	T	1-Chlorohexane	91	13.28	0.970	A	1	A	B
65	P,M	Chlorobenzene	112	13.77	1.005	A	1	A	B
66	T	1,1,1,2-Tetrachloroethane	131	13.85	1.011	A	1	A	B
67	T	Ethylbenzene	91	13.86	1.012	A	1	A	B
68	T	m-Xylene & p-Xylene	91	13.99	1.022	A	1	A	B
69	T	o-Xylene	91	14.82	1.082	A	1	A	B
70	T	Styrene	104	14.88	1.086	A	2	A	B
71	T	Isopropylbenzene	105	15.50	1.132	A	3	A	B
72	I	1,2-DICHLOROBENZENE-D4	152	18.67	1.000	A	1	A	B
73	T	Bromoform	173	15.53	0.832	L	1	A	B
74	T	trans-1,4-Dichloro-2-butene	53	15.61	0.836	A	1	A	B
75	T	1,1,2,2-Tetrachloroethane	83	15.85	0.849	A	1	A	B
76	S	4-Bromofluorobenzene	95	15.98	0.856	A	2	A	B
77	T	1,2,3-Trichloropropane	110	16.13	0.864	A	1	A	B
78	T	n-Propylbenzene	91	16.27	0.872	A	2	A	B
79	T	Bromobenzene	156	16.36	0.876	A	1	A	B
80	T	1,3,5-Trimethylbenzene	105	16.59	0.888	A	2	A	B
81	T	2-Chlorotoluene	91	16.62	0.890	A	1	A	B
82	T	4-Chlorotoluene	91	16.70	0.895	A	1	A	B
83	T	tert-Butylbenzene	134	17.27	0.925	A	1	A	B
84	T	1,2,4-Trimethylbenzene	105	17.34	0.929	A	1	A	B
85	T	sec-Butylbenzene	105	17.64	0.944	A	1	A	B
86	T	p-Isopropyltoluene	119	17.86	0.956	A	2	A	B
87	T	1,3-Dichlorobenzene	146	18.01	0.964	A	2	A	B
88	T	1,2,3-Trimethylbenzene	105	18.11	0.970	A	2	A	B
89	T	1,4-Dichlorobenzene	146	18.17	0.973	A	2	A	B
90	T	n-Butylbenzene	91	18.48	0.990	A	2	A	B
91	T	1,2-Dichlorobenzene	146	18.70	1.002	A	1	A	B
92	T	1,2-Dibromo-3-chloropropane	157	19.71	1.056	A	1	A	B
93	T	1,2,4-Trichlorobenzene	180	20.79	1.113	A	2	A	B
94	T	Hexachlorobutadiene	225	20.95	1.122	A	1	A	B
95	T	Naphthalene	128	21.13	1.132	A	1	A	B
96	T	1,2,3-Trichlorobenzene	180	21.46	1.149	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

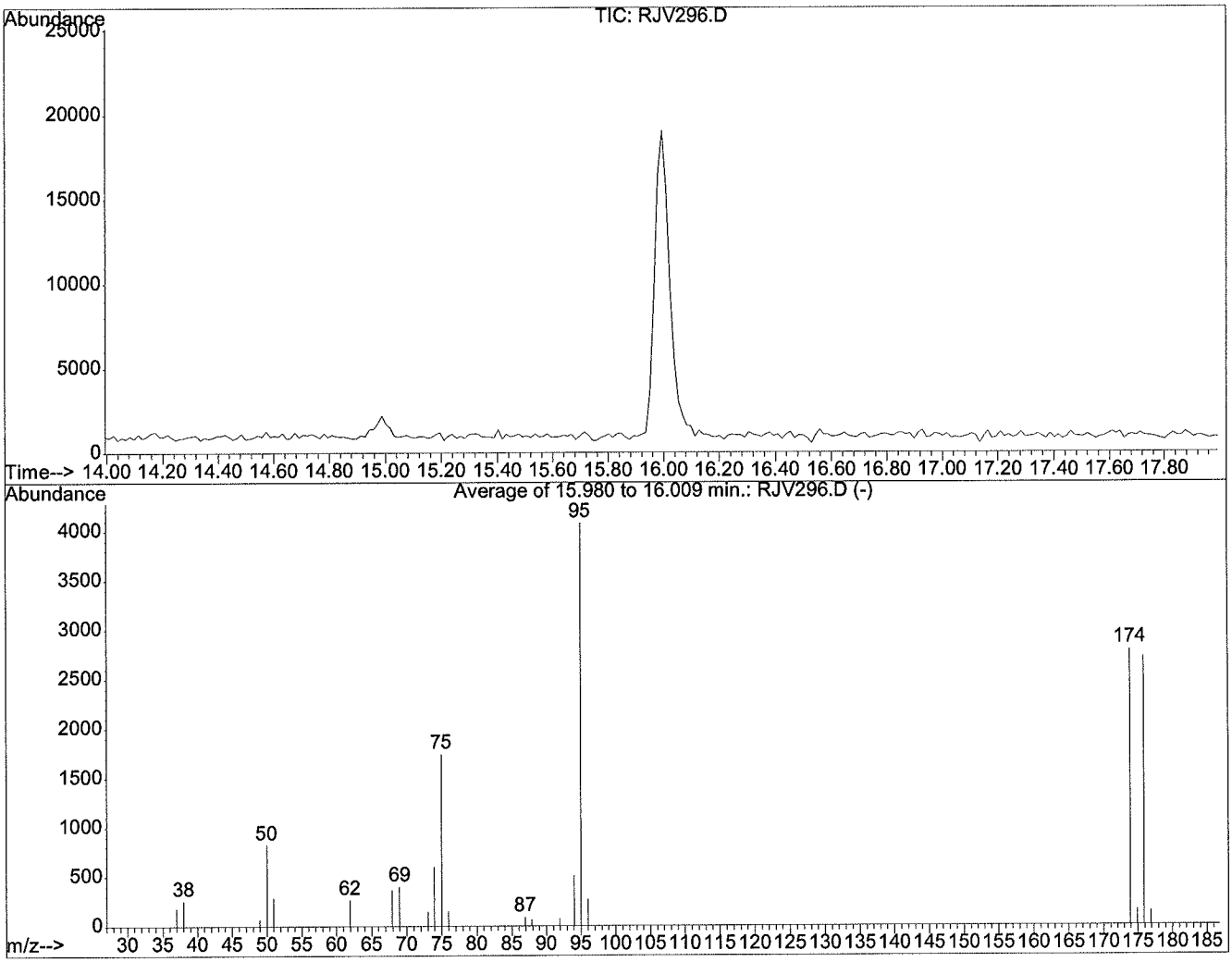
VO01J12.M Thu Oct 24 09:08:04 2024

SU 10/30/24

BFB

Data File : D:\HPCHEM\1\DATA\24J12\RJV296.D
Acq On : 12 Oct 2024 12:56 pm
Sample : BFB01J13
Misc : T/CHK
MS Integration Params: RTE.P
Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls

Vial: 1
Operator: DNguye
Inst : 01
Multiplr: 1.00



AutoFind: Scans 949, 950, 951; Background Corrected with Scan 943

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.2	827	PASS
75	95	30	60	42.7	1744	PASS
95	95	100	100	100.0	4085	PASS
96	95	5	9	6.7	272	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	68.5	2797	PASS
175	174	5	9	5.6	157	PASS
176	174	95	101	97.5	2727	PASS
177	176	5	9	5.3	145	PASS

RJV296.D VO01J12.M Thu Oct 24 09:04:34 2024 SV 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV297.D Vial: 2
Acq On : 12 Oct 2024 1:38 pm Operator: DNguye
Sample : VO01J121 0.03/0.15 Inst : 01
Misc : 0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.53	114	846934	10.00	ug/l		-0.01
53) CHLOROBENZENE-D5	13.68	117	644827	10.00	ug/l		-0.01
72) 1,2-DICHLOROBENZENE-D4	18.66	152	249254	10.00	ug/l		-0.01
System Monitoring Compounds							
34) Dibromofluoromethane	7.23	111	4440	0.20	ug/l		0.00
Spiked Amount 10.000			Recovery =	2.00%			
41) 1,2-Dichloroethane-d4	7.95	65	3668	0.19	ug/l		-0.01
Spiked Amount 10.000			Recovery =	1.90%			
54) Toluene-d8	11.02	98	22073	0.25	ug/l		0.00
Spiked Amount 10.000			Recovery =	2.50%			
76) 4-Bromofluorobenzene	15.99	95	7505	0.25	ug/l		0.02
Spiked Amount 10.000			Recovery =	2.50%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	2.23	85	8790	0.25	ug/l		71
5) Chloromethane	2.56	50	5693	0.22	ug/l		71
6) Vinyl chloride	2.69	62	4962	0.21	ug/l		59
7) Bromomethane	3.21	94	5188	0.31	ug/l	#	56
8) Chloroethane	3.23	64	2877	0.16	ug/l	#	40
9) Dichlorofluoromethane	3.35	67	8444	0.26	ug/l		89
10) Trichlorofluoromethane	3.60	101	5514	0.15	ug/l		99
12) 1,1,2-Trichloro-1,2,2-trif	4.13	151	3901	0.25	ug/l		62
13) Acetone	4.07	43	30027	9.60	ug/l		90
14) 1,1-Dichloroethene	4.24	61	10999	0.28	ug/l		91
15) tert-Butyl alcohol	4.37	59	3214	4.11	ug/l		83
16) Iodomethane	4.65	142	8686	0.26	ug/l		90
17) Methyl acetate	4.66	43	2257	0.28	ug/l	#	58
18) Methylene chloride	4.87	49	7895	0.28	ug/l	#	31
19) Carbon disulfide	4.87	76	17610	0.21	ug/l	#	74
20) Acrylonitrile	5.08	53	2060	0.70	ug/l	#	30
21) tert-Butyl methyl ether (M	5.08	73	8913	0.23	ug/l		91
22) trans-1,2-Dichloroethene	5.26	61	10380	0.27	ug/l		99
23) Isopropyl ether (DIPE)	5.67	45	21004	0.26	ug/l		89
24) Vinyl acetate	5.86	43	4836	0.19	ug/l	#	75
25) 1,1-Dichloroethane	5.82	63	11955	0.27	ug/l		89
27) tert-Butyl ethyl ether (ET	6.25	59	14628	0.25	ug/l		93
28) 2-Butanone	6.50	43	6566	1.37	ug/l	#	58
29) 2,2-Dichloropropane	6.62	77	10877	0.29	ug/l		90
30) cis-1,2-Dichloroethene	6.68	96	7232	0.27	ug/l		97
31) Chloroform	6.90	83	14103	0.31	ug/l		93
32) Bromochloromethane	7.14	49	4623	0.27	ug/l		86

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV297.D Vial: 2
Acq On : 12 Oct 2024 1:38 pm Operator: DNguye
Sample : VO01J121 0.03/0.15 Inst : 01
Misc : 0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
35)	1,1,1-Trichloroethane	7.49	97	10535	0.26	ug/l		97
36)	Cyclohexane	7.52	84	11360	0.27	ug/l		96
38)	1,1-Dichloropropene	7.72	110	3175	0.26	ug/l		94
39)	Carbon tetrachloride	7.86	119	7579	0.25	ug/l		91
40)	tert-Amyl methyl ether (TA	7.88	73	11744	0.26	ug/l		87
42)	Benzene	8.12	78	29150	0.30	ug/l		96
43)	1,2-Dichloroethane	8.10	62	4840	0.22	ug/l		96
44)	Trichloroethene	9.06	130	7111	0.28	ug/l		99
45)	Methylcyclohexane	9.14	83	16060	0.32	ug/l		99
46)	1,2-Dichloropropane	9.34	63	6380	0.29	ug/l		83
47)	Bromodichloromethane	9.71	83	8435	0.28	ug/l		96
49)	Dibromomethane	9.82	93	2317	0.24	ug/l	#	70
51)	4-Methyl-2-pentanone	10.37	43	9490	0.88	ug/l	#	77
52)	cis-1,3-Dichloropropene	10.62	75	7489	0.23	ug/l		91
55)	Toluene	11.15	91	30923	0.30	ug/l		99
56)	Ethyl methacrylate	11.52	69	2684	0.18	ug/l		76
57)	trans-1,3-Dichloropropene	11.49	75	5067	0.22	ug/l		79
58)	1,1,2-Trichloroethane	11.74	97	2850	0.23	ug/l		96
59)	2-Hexanone	11.92	43	3083	0.46	ug/l	#	29
60)	1,3-Dichloropropane	12.17	76	5524	0.23	ug/l		95
61)	Tetrachloroethene	12.28	164	6881	0.31	ug/l		92
62)	Dibromochloromethane	12.65	129	3881	0.26	ug/l		95
63)	1,2-Dibromoethane	13.03	107	2616	0.22	ug/l		91
64)	1-Chlorohexane	13.28	91	14462	0.30	ug/l		95
65)	Chlorobenzene	13.76	112	17322	0.28	ug/l		90
66)	1,1,1,2-Tetrachloroethane	13.83	131	4237	0.23	ug/l		87
67)	Ethylbenzene	13.86	91	37251	0.31	ug/l		100
68)	m-Xylene & p-Xylene	14.01	91	59146	0.62	ug/l		97
69)	o-Xylene	14.82	91	27516	0.29	ug/l		93
70)	Styrene	14.90	104	18326	0.27	ug/l		98
71)	Isopropylbenzene	15.50	105	35505	0.28	ug/l		96
73)	Bromoform	15.55	173	1009	0.36	ug/l	#	29
75)	1,1,2,2-Tetrachloroethane	15.85	83	2875	0.22	ug/l		95
78)	n-Propylbenzene	16.27	91	47121	0.32	ug/l		98
79)	Bromobenzene	16.36	156	6024	0.28	ug/l		97
80)	1,3,5-Trimethylbenzene	16.59	105	28148	0.31	ug/l		98
81)	2-Chlorotoluene	16.62	91	27464	0.31	ug/l		95
82)	4-Chlorotoluene	16.72	91	26713	0.33	ug/l		92
83)	tert-Butylbenzene	17.25	134	5990	0.29	ug/l		85
84)	1,2,4-Trimethylbenzene	17.34	105	27737	0.31	ug/l		100
85)	sec-Butylbenzene	17.64	105	43875	0.34	ug/l		98

(#) = qualifier out of range (m) = manual integration

SH 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV297.D Vial: 2
Acq On : 12 Oct 2024 1:38 pm Operator: DNguye
Sample : VO01J121 0.03/0.15 Inst : 01
Misc : 0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
86)	p-Isopropyltoluene	17.86	119	32571	0.32	ug/l	98
87)	1,3-Dichlorobenzene	18.01	146	13067	0.30	ug/l	96
88)	1,2,3-Trimethylbenzene	18.11	105	24287	0.30	ug/l	97
89)	1,4-Dichlorobenzene	18.17	146	13805	0.32	ug/l	91
90)	n-Butylbenzene	18.48	91	36253	0.33	ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	10393	0.30	ug/l	93
93)	1,2,4-Trichlorobenzene	20.79	180	6976	0.29	ug/l	88
94)	Hexachlorobutadiene	20.95	225	4289	0.28	ug/l	90
95)	Naphthalene	21.15	128	9391	0.32	ug/l	89
96)	1,2,3-Trichlorobenzene	21.46	180	4448	0.26	ug/l	88

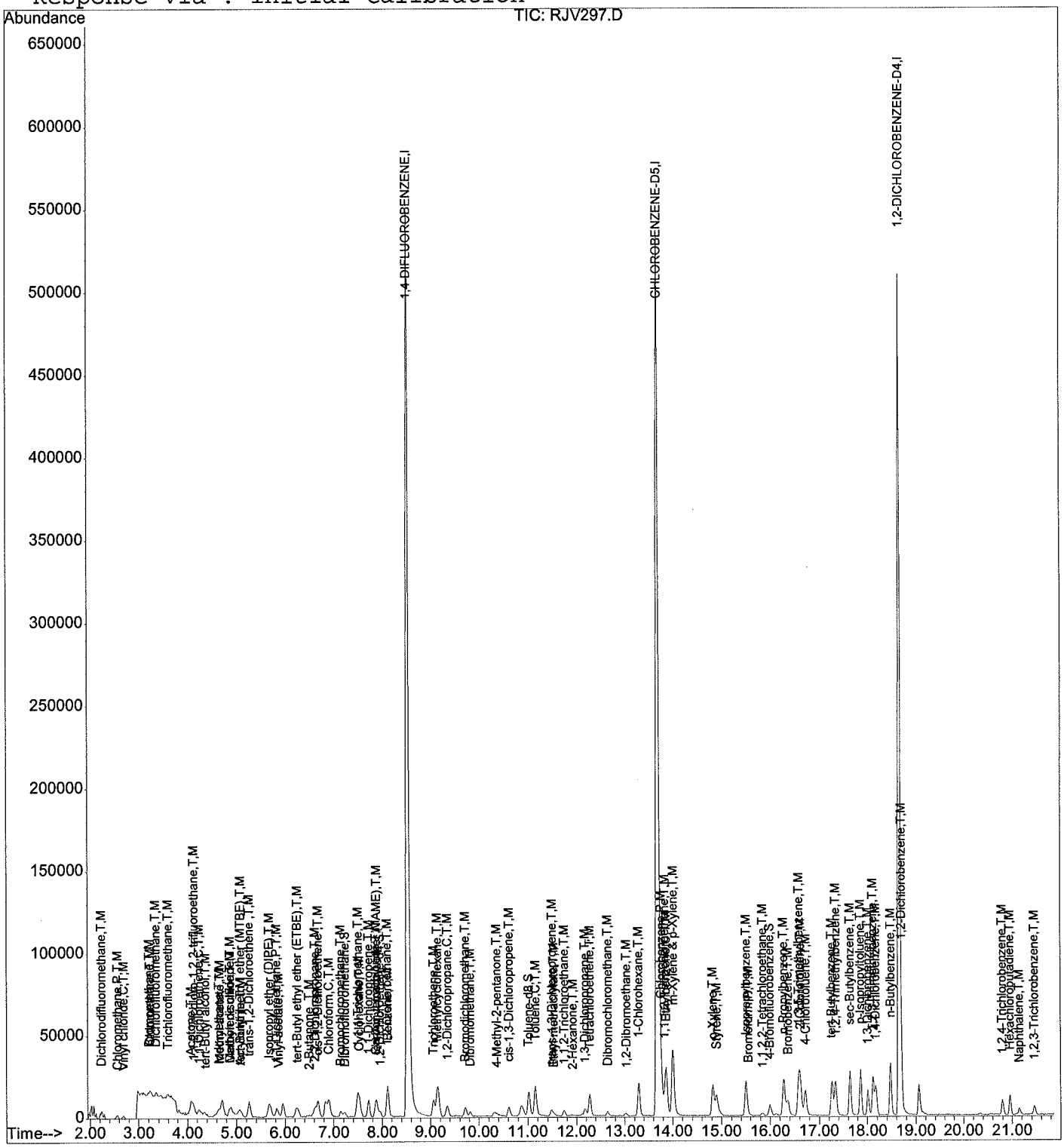
SU 10/30/24

(#) = qualifier out of range (m) = manual integration
RJV297.D VO01J12.M Thu Oct 24 09:04:47 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV297.D Vial: 2
Acq On : 12 Oct 2024 1:38 pm Operator: DNguye
Sample : VO01J121 0.03/0.15 Inst : 01
Misc : 0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV298.D Vial: 3
Acq On : 12 Oct 2024 2:08 pm Operator: DNguye
Sample : VO01J122 0.05/0.25 Inst : 01
Misc : 0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.55	114	1024916	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.68	117	790592	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	18.66	152	300897	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	7030	0.26	ug/l	0.00
Spiked Amount 10.000			Recovery = 2.60%			
41) 1,2-Dichloroethane-d4	7.95	65	5946	0.25	ug/l	-0.01
Spiked Amount 10.000			Recovery = 2.50%			
54) Toluene-d8	11.02	98	33721	0.31	ug/l	0.00
Spiked Amount 10.000			Recovery = 3.10%			
76) 4-Bromofluorobenzene	15.99	95	10661	0.30	ug/l	0.02
Spiked Amount 10.000			Recovery = 3.00%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.25	85	19641	0.47	ug/l	93
5) Chloromethane	2.56	50	15865	0.50	ug/l	85
6) Vinyl chloride	2.69	62	12377	0.44	ug/l	83
7) Bromomethane	3.23	94	10276	0.51	ug/l	73
8) Chloroethane	3.21	64	8972	0.42	ug/l	74
9) Dichlorofluoromethane	3.35	67	24786	0.64	ug/l	81
10) Trichlorofluoromethane	3.63	101	21607	0.47	ug/l	97
11) Acrolein	4.01	56	625	0.80	ug/l #	53
12) 1,1,2-Trichloro-1,2,2-trif	4.15	151	9222	0.49	ug/l	97
13) Acetone	4.10	43	14391	3.80	ug/l	85
14) 1,1-Dichloroethene	4.24	61	24332	0.51	ug/l	92
15) tert-Butyl alcohol	4.38	59	9963	10.52	ug/l	89
16) Iodomethane	4.68	142	18672	0.46	ug/l	95
17) Methyl acetate	4.68	43	11883	1.22	ug/l #	58
18) Methylene chloride	4.89	49	17946	0.52	ug/l	92
19) Carbon disulfide	4.89	76	39068	0.39	ug/l	95
20) Acrylonitrile	5.08	53	6650	1.87	ug/l	86
21) tert-Butyl methyl ether (M	5.08	73	21192	0.45	ug/l	93
22) trans-1,2-Dichloroethene	5.27	61	22645	0.49	ug/l	99
23) Isopropyl ether (DIPE)	5.69	45	46767	0.49	ug/l	97
24) Vinyl acetate	5.86	43	15474	0.50	ug/l #	75
25) 1,1-Dichloroethane	5.84	63	26323	0.49	ug/l	94
26) 2-Butanol	6.34	45	690	0.87	ug/l #	1
27) tert-Butyl ethyl ether (ET	6.25	59	31457	0.45	ug/l	98
28) 2-Butanone	6.47	43	13929	2.40	ug/l	73
29) 2,2-Dichloropropane	6.63	77	22807	0.50	ug/l	97
30) cis-1,2-Dichloroethene	6.69	96	15912	0.48	ug/l	95

(#) = qualifier out of range (m) = manual integration

SU 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV298.D Vial: 3
Acq On : 12 Oct 2024 2:08 pm Operator: DNguye
Sample : VO01J122 0.05/0.25 Inst : 01
Misc : 0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Chloroform	6.90	83	28262	0.51 ug/l		98
32)	Bromochloromethane	7.15	49	8892	0.44 ug/l		97
35)	1,1,1-Trichloroethane	7.49	97	23731	0.48 ug/l		95
36)	Cyclohexane	7.51	84	23171	0.46 ug/l		98
38)	1,1-Dichloropropene	7.72	110	7004	0.47 ug/l		98
39)	Carbon tetrachloride	7.86	119	17909	0.48 ug/l		90
40)	tert-Amyl methyl ether (TA	7.89	73	26461	0.49 ug/l		90
42)	Benzene	8.12	78	60474	0.52 ug/l		97
43)	1,2-Dichloroethane	8.10	62	11722	0.45 ug/l		96
44)	Trichloroethene	9.06	130	16015	0.52 ug/l		92
45)	Methylcyclohexane	9.15	83	28732	0.48 ug/l		97
46)	1,2-Dichloropropane	9.34	63	12037	0.46 ug/l		98
47)	Bromodichloromethane	9.72	83	17160	0.47 ug/l		95
49)	Dibromomethane	9.82	93	5267	0.46 ug/l		87
51)	4-Methyl-2-pentanone	10.31	43	23736	1.83 ug/l		87
52)	cis-1,3-Dichloropropene	10.62	75	18260	0.46 ug/l		96
55)	Toluene	11.15	91	66356	0.53 ug/l		100
56)	Ethyl methacrylate	11.52	69	6230	0.35 ug/l	#	65
57)	trans-1,3-Dichloropropene	11.48	75	12223	0.43 ug/l		91
58)	1,1,2-Trichloroethane	11.74	97	7563	0.49 ug/l		92
59)	2-Hexanone	11.85	43	9326	1.14 ug/l		100
60)	1,3-Dichloropropane	12.19	76	13243	0.46 ug/l		97
61)	Tetrachloroethene	12.28	164	14058	0.52 ug/l		94
62)	Dibromochloromethane	12.65	129	8921	0.49 ug/l		90
63)	1,2-Dibromoethane	13.02	107	6660	0.46 ug/l		96
64)	1-Chlorohexane	13.28	91	29446	0.50 ug/l		94
65)	Chlorobenzene	13.76	112	37257	0.50 ug/l		98
66)	1,1,1,2-Tetrachloroethane	13.85	131	10367	0.45 ug/l		97
67)	Ethylbenzene	13.86	91	76866	0.52 ug/l		98
68)	m-Xylene & p-Xylene	13.99	91	114294	0.98 ug/l		99
69)	o-Xylene	14.82	91	57288	0.50 ug/l		98
70)	Styrene	14.90	104	38771	0.46 ug/l		97
71)	Isopropylbenzene	15.49	105	73409	0.47 ug/l		99
73)	Bromoform	15.53	173	2835	0.55 ug/l		57
74)	trans-1,4-Dichloro-2-buten	15.62	53	1480	0.32 ug/l		95
75)	1,1,2,2-Tetrachloroethane	15.85	83	7374	0.46 ug/l		91
77)	1,2,3-Trichloropropane	16.13	110	1678	0.38 ug/l		99
78)	n-Propylbenzene	16.28	91	94614	0.53 ug/l		97
79)	Bromobenzene	16.36	156	12715	0.49 ug/l		100
80)	1,3,5-Trimethylbenzene	16.59	105	58068	0.53 ug/l		98
81)	2-Chlorotoluene	16.62	91	56608	0.52 ug/l		98

(#) = qualifier out of range (m) = manual integration

SV 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV298.D Vial: 3
Acq On : 12 Oct 2024 2:08 pm Operator: DNguye
Sample : VO01J122 0.05/0.25 Inst : 01
Misc : 0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	4-Chlorotoluene	16.70	91	51681	0.53	ug/l	100
83)	tert-Butylbenzene	17.27	134	11839	0.48	ug/l	94
84)	1,2,4-Trimethylbenzene	17.34	105	53985	0.50	ug/l	98
85)	sec-Butylbenzene	17.64	105	82867	0.53	ug/l	99
86)	p-Isopropyltoluene	17.86	119	63955	0.53	ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	25802	0.50	ug/l	99
88)	1,2,3-Trimethylbenzene	18.11	105	50600	0.52	ug/l	95
89)	1,4-Dichlorobenzene	18.17	146	26890	0.52	ug/l	94
90)	n-Butylbenzene	18.47	91	69951	0.53	ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	20913	0.49	ug/l	100
93)	1,2,4-Trichlorobenzene	20.79	180	14779	0.52	ug/l	91
94)	Hexachlorobutadiene	20.95	225	9230	0.50	ug/l	96
95)	Naphthalene	21.15	128	15091	0.43	ug/l	98
96)	1,2,3-Trichlorobenzene	21.46	180	9790	0.47	ug/l	98

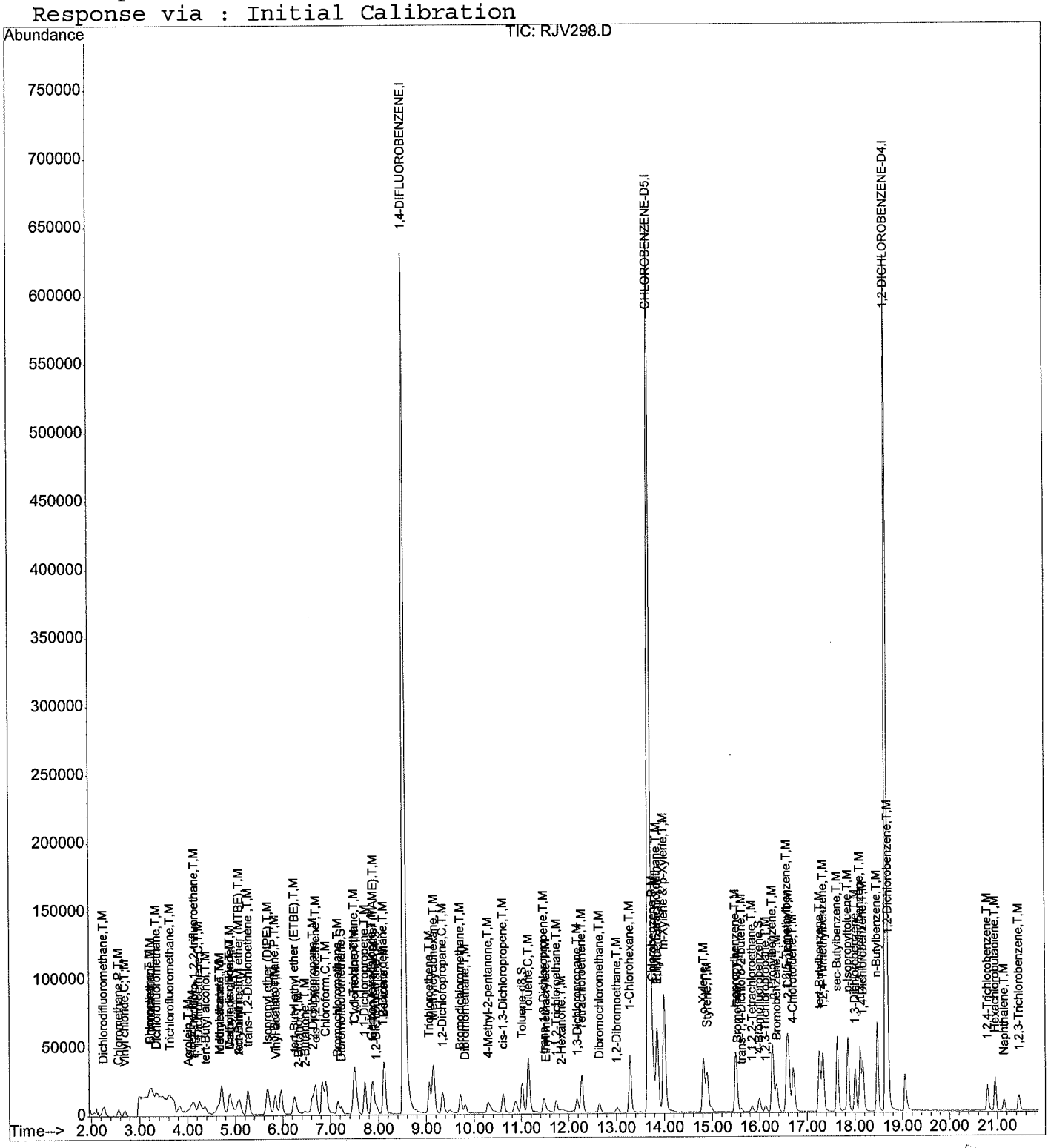
SV

(#) = qualifier out of range (m) = manual integration
RJV298.D VO01J12.M Thu Oct 24 09:05:14 2024 10/30/24 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV298.D Vial: 3
Acq On : 12 Oct 2024 2:08 pm Operator: DNguye
Sample : VO01J122 0.05/0.25 Inst : 01
Misc : 0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV299.D Vial: 4
Acq On : 12 Oct 2024 2:39 pm Operator: DNguye
Sample : VO01J123 0.1/0.5 Inst : 01
Misc : 1ppb 8260/5ppb KET-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.55	114	863069	10.00	ug/l		0.00
53) CHLOROBENZENE-D5	13.68	117	665582	10.00	ug/l		-0.01
72) 1,2-DICHLOROBENZENE-D4	18.66	152	264976	10.00	ug/l		-0.01
System Monitoring Compounds							
34) Dibromofluoromethane	7.23	111	22505	1.00	ug/l		0.00
Spiked Amount 10.000			Recovery =	10.00%			
41) 1,2-Dichloroethane-d4	7.97	65	19601	0.99	ug/l		0.00
Spiked Amount 10.000			Recovery =	9.90%			
54) Toluene-d8	11.02	98	94707	1.03	ug/l		0.00
Spiked Amount 10.000			Recovery =	10.30%			
76) 4-Bromofluorobenzene	15.99	95	32723	1.04	ug/l		0.02
Spiked Amount 10.000			Recovery =	10.40%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	2.26	85	39243	1.11	ug/l		92
5) Chloromethane	2.57	50	30460	1.14	ug/l		95
6) Vinyl chloride	2.70	62	25359	1.07	ug/l		99
7) Bromomethane	3.23	94	19265	1.13	ug/l		81
8) Chloroethane	3.23	64	18347	1.03	ug/l		81
9) Dichlorofluoromethane	3.35	67	33367	1.02	ug/l		97
10) Trichlorofluoromethane	3.63	101	40766	1.06	ug/l		95
11) Acrolein	4.01	56	2895	4.39	ug/l		96
12) 1,1,2-Trichloro-1,2,2-trif	4.13	151	16799	1.06	ug/l		91
13) Acetone	4.09	43	23140	7.26	ug/l		90
14) 1,1-Dichloroethene	4.23	61	44907	1.12	ug/l		98
15) tert-Butyl alcohol	4.38	59	18846	23.64	ug/l		77
16) Iodomethane	4.65	142	37685	1.10	ug/l		99
17) Methyl acetate	4.68	43	10690	1.30	ug/l	#	58
18) Methylene chloride	4.87	49	33196	1.14	ug/l		96
19) Carbon disulfide	4.89	76	81448	0.97	ug/l		99
20) Acrylonitrile	5.08	53	13914	4.65	ug/l		93
21) tert-Butyl methyl ether (M	5.08	73	42990	1.08	ug/l		93
22) trans-1,2-Dichloroethene	5.26	61	43417	1.12	ug/l		98
23) Isopropyl ether (DIPE)	5.67	45	91090	1.12	ug/l		99
24) Vinyl acetate	5.85	43	28463	1.10	ug/l		86
25) 1,1-Dichloroethane	5.83	63	52190	1.15	ug/l		94
26) 2-Butanol	6.26	45	8708	13.03	ug/l	#	1
27) tert-Butyl ethyl ether (ET	6.23	59	66134	1.12	ug/l		98
28) 2-Butanone	6.46	43	28761	5.89	ug/l		81
29) 2,2-Dichloropropane	6.62	77	44732	1.15	ug/l		96
30) cis-1,2-Dichloroethene	6.69	96	31078	1.12	ug/l		97

(#) = qualifier out of range (m) = manual integration

10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV299.D Vial: 4
Acq On : 12 Oct 2024 2:39 pm Operator: DNguye
Sample : VO01J123 0.1/0.5 Inst : 01
Misc : 1ppb 8260/5ppb KET-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.90	83	54449	1.18	ug/l		96
32)	Bromochloromethane	7.15	49	19689	1.15	ug/l		92
33)	Tetrahydrofuran	7.23	42	2685	0.99	ug/l	#	40
35)	1,1,1-Trichloroethane	7.49	97	47315	1.14	ug/l		96
36)	Cyclohexane	7.51	84	43185	1.01	ug/l		98
37)	2,2,4-Trimethylpentane	7.52	57	1092	0.53	ug/l	#	100
38)	1,1-Dichloropropene	7.70	110	13671	1.09	ug/l		95
39)	Carbon tetrachloride	7.86	119	34771	1.11	ug/l		96
40)	tert-Amyl methyl ether (TA	7.89	73	51861	1.15	ug/l		94
42)	Benzene	8.11	78	113163	1.15	ug/l		98
43)	1,2-Dichloroethane	8.10	62	25132	1.14	ug/l		97
44)	Trichloroethene	9.06	130	28726	1.10	ug/l		97
45)	Methylcyclohexane	9.15	83	48077	0.95	ug/l		97
46)	1,2-Dichloropropane	9.34	63	24616	1.11	ug/l		98
47)	Bromodichloromethane	9.71	83	34032	1.12	ug/l		98
48)	1,4-Dioxane	9.82	88	195	2.29	ug/l	#	20
49)	Dibromomethane	9.80	93	11313	1.17	ug/l		91
50)	2-Chloroethyl vinyl ether	10.23	63	468	1.26	ug/l	#	43
51)	4-Methyl-2-pentanone	10.28	43	51833	4.74	ug/l		97
52)	cis-1,3-Dichloropropene	10.60	75	36206	1.09	ug/l		96
55)	Toluene	11.15	91	125121	1.19	ug/l		100
56)	Ethyl methacrylate	11.46	69	14246	0.94	ug/l		86
57)	trans-1,3-Dichloropropene	11.48	75	24650	1.03	ug/l		97
58)	1,1,2-Trichloroethane	11.73	97	15119	1.16	ug/l		94
59)	2-Hexanone	11.79	43	25932	3.76	ug/l		99
60)	1,3-Dichloropropane	12.17	76	27065	1.11	ug/l		100
61)	Tetrachloroethene	12.28	164	25118	1.10	ug/l		97
62)	Dibromochloromethane	12.65	129	15336	0.99	ug/l		100
63)	1,2-Dibromoethane	13.02	107	12861	1.05	ug/l		93
64)	1-Chlorohexane	13.28	91	55243	1.12	ug/l		99
65)	Chlorobenzene	13.76	112	69767	1.10	ug/l		98
66)	1,1,1,2-Tetrachloroethane	13.85	131	21346	1.11	ug/l		96
67)	Ethylbenzene	13.86	91	145077	1.16	ug/l		99
68)	m-Xylene & p-Xylene	13.99	91	218861	2.22	ug/l		100
69)	o-Xylene	14.81	91	111172	1.14	ug/l		97
70)	Styrene	14.88	104	78488	1.10	ug/l		99
71)	Isopropylbenzene	15.49	105	143880	1.09	ug/l		99
73)	Bromoform	15.53	173	5978	0.99	ug/l		93
74)	trans-1,4-Dichloro-2-buten	15.61	53	3098	0.76	ug/l		90
75)	1,1,2,2-Tetrachloroethane	15.83	83	15127	1.08	ug/l		94
77)	1,2,3-Trichloropropane	16.13	110	3888	0.99	ug/l		91

(#) = qualifier out of range (m) = manual integration

SM 10/29/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV299.D Vial: 4
Acq On : 12 Oct 2024 2:39 pm Operator: DNguye
Sample : VO01J123 0.1/0.5 Inst : 01
Misc : 1ppb 8260/5ppb KET-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.28	91	184504	1.18	ug/l	98
79)	Bromobenzene	16.36	156	24218	1.07	ug/l	99
80)	1,3,5-Trimethylbenzene	16.57	105	112287	1.16	ug/l	99
81)	2-Chlorotoluene	16.62	91	112150	1.18	ug/l	97
82)	4-Chlorotoluene	16.70	91	92137	1.08	ug/l	97
83)	tert-Butylbenzene	17.25	134	23828	1.09	ug/l	94
84)	1,2,4-Trimethylbenzene	17.33	105	108887	1.15	ug/l	100
85)	sec-Butylbenzene	17.64	105	159519	1.17	ug/l	98
86)	p-Isopropyltoluene	17.86	119	126401	1.19	ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	52027	1.14	ug/l	98
88)	1,2,3-Trimethylbenzene	18.11	105	100861	1.17	ug/l	98
89)	1,4-Dichlorobenzene	18.17	146	52646	1.16	ug/l	97
90)	n-Butylbenzene	18.47	91	133788	1.15	ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	43235	1.16	ug/l	98
92)	1,2-Dibromo-3-chloropropan	19.71	157	1531	0.82	ug/l	97
93)	1,2,4-Trichlorobenzene	20.79	180	26731	1.06	ug/l	94
94)	Hexachlorobutadiene	20.95	225	18415	1.14	ug/l	98
95)	Naphthalene	21.13	128	33323	1.07	ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	20718	1.13	ug/l	96

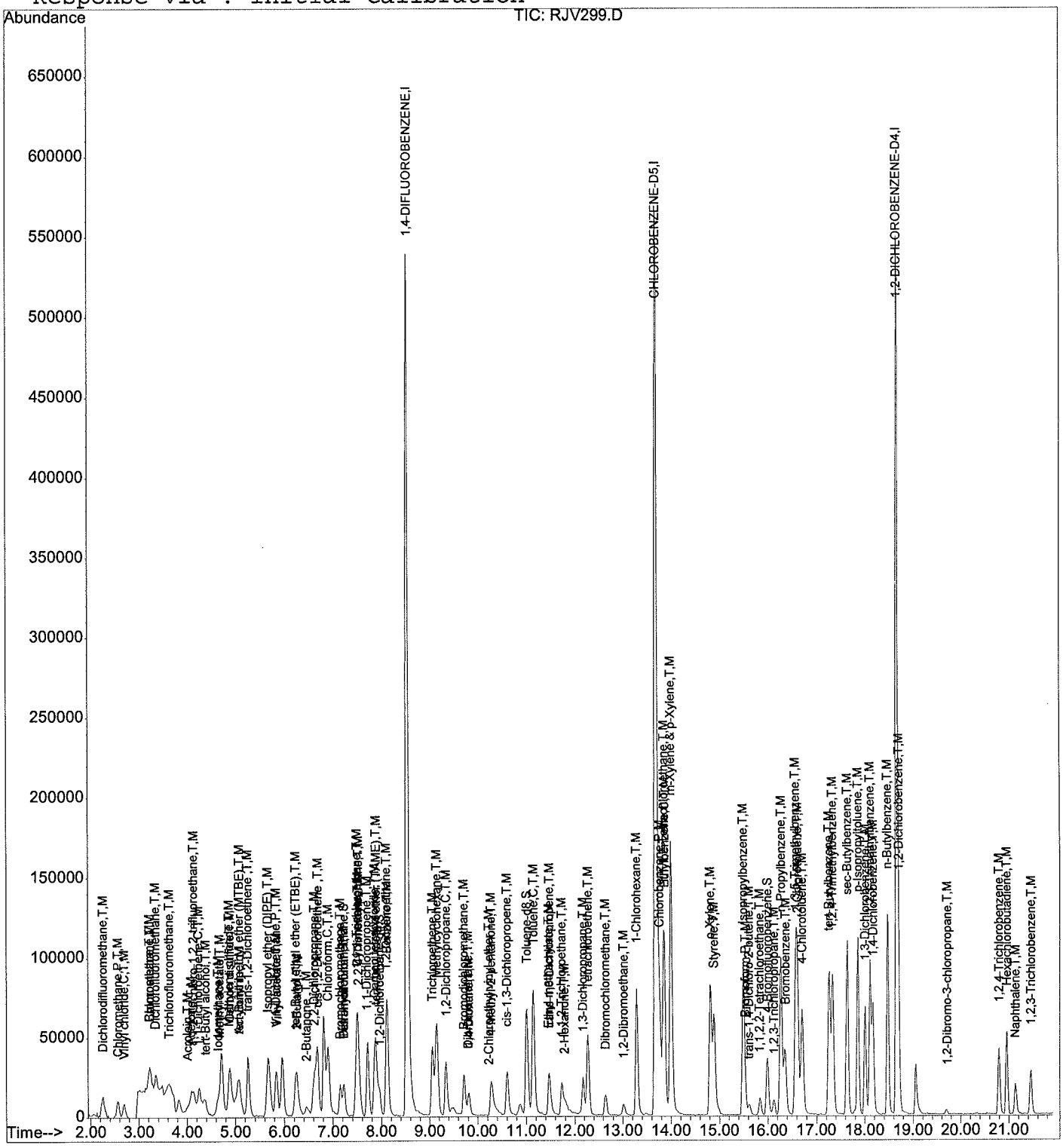
SA
10/30/24

(#) = qualifier out of range (m) = manual integration
RJV299.D VO01J12.M Thu Oct 24 09:05:24 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV299.D Vial: 4
Acq On : 12 Oct 2024 2:39 pm Operator: DNguye
Sample : VO01J123 0.1/0.5 Inst : 01
Misc : 1ppb 8260/5ppb KET-AA/25ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



SV 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV300.D Vial: 5
Acq On : 12 Oct 2024 3:09 pm Operator: DNguye
Sample : VO01J124 0.2/1.0 Inst : 01
Misc : 2ppb 8260/10ppb KET-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.55	114	922777	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	696403	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.66	152	324601	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	46204	1.92	ug/l	0.00
Spiked Amount 10.000			Recovery =	19.20%		
41) 1,2-Dichloroethane-d4	7.97	65	41927	1.97	ug/l	0.00
Spiked Amount 10.000			Recovery =	19.70%		
54) Toluene-d8	11.02	98	201374	2.10	ug/l	0.00
Spiked Amount 10.000			Recovery =	21.00%		
76) 4-Bromofluorobenzene	15.98	95	66131	1.72	ug/l	0.00
Spiked Amount 10.000			Recovery =	17.20%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.23	85	78454	2.07	ug/l	98
5) Chloromethane	2.55	50	61196	2.14	ug/l	98
6) Vinyl chloride	2.68	62	55170	2.19	ug/l	94
7) Bromomethane	3.23	94	35944	1.98	ug/l	90
8) Chloroethane	3.23	64	38883	2.03	ug/l	99
9) Dichlorofluoromethane	3.36	67	71331	2.04	ug/l	98
10) Trichlorofluoromethane	3.63	101	87666	2.14	ug/l	97
11) Acrolein	4.03	56	6522	9.24	ug/l	97
12) 1,1,2-Trichloro-1,2,2-trif	4.15	151	36789	2.18	ug/l	99
13) Acetone	4.09	43	36289	10.65	ug/l	98
14) 1,1-Dichloroethene	4.25	61	95082	2.21	ug/l	98
15) tert-Butyl alcohol	4.37	59	46964	55.09	ug/l	96
16) Iodomethane	4.65	142	80156	2.19	ug/l	100
17) Methyl acetate	4.68	43	20673	2.35	ug/l	77
18) Methylene chloride	4.87	49	68046	2.19	ug/l	97
19) Carbon disulfide	4.90	76	178502	1.98	ug/l	100
20) Acrylonitrile	5.06	53	34579	10.80	ug/l	96
21) tert-Butyl methyl ether (M	5.08	73	96114	2.25	ug/l	100
22) trans-1,2-Dichloroethene	5.26	61	90285	2.18	ug/l	100
23) Isopropyl ether (DIPE)	5.67	45	189169	2.19	ug/l	100
24) Vinyl acetate	5.85	43	56943	2.06	ug/l	95
25) 1,1-Dichloroethane	5.83	63	104879	2.16	ug/l	98
26) 2-Butanol	6.22	45	28686	40.16	ug/l #	19
27) tert-Butyl ethyl ether (ET	6.25	59	142799	2.27	ug/l	98
28) 2-Butanone	6.44	43	51680	9.89	ug/l	96
29) 2,2-Dichloropropane	6.62	77	93585	2.26	ug/l	98
30) cis-1,2-Dichloroethene	6.69	96	63558	2.14	ug/l	96

(#) = qualifier out of range (m) = manual integration

BU 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV300.D Vial: 5
Acq On : 12 Oct 2024 3:09 pm Operator: DNguye
Sample : VO01J124 0.2/1.0 Inst : 01
Misc : 2ppb 8260/10ppb KET-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.90	83	108957	2.20	ug/l		99
32)	Bromochloromethane	7.15	49	41177	2.24	ug/l		97
33)	Tetrahydrofuran	7.21	42	5857	2.02	ug/l	#	50
35)	1,1,1-Trichloroethane	7.49	97	98660	2.22	ug/l		98
36)	Cyclohexane	7.51	84	94760	2.07	ug/l		98
37)	2,2,4-Trimethylpentane	7.51	57	4158	1.88	ug/l	#	100
38)	1,1-Dichloropropene	7.71	110	28088	2.09	ug/l		97
39)	Carbon tetrachloride	7.86	119	72812	2.17	ug/l		99
40)	tert-Amyl methyl ether (TA	7.89	73	108752	2.25	ug/l		96
42)	Benzene	8.11	78	229449	2.17	ug/l		99
43)	1,2-Dichloroethane	8.10	62	52248	2.22	ug/l		97
44)	Trichloroethene	9.06	130	60002	2.15	ug/l		98
45)	Methylcyclohexane	9.14	83	110767	2.05	ug/l		98
46)	1,2-Dichloropropane	9.35	63	50785	2.14	ug/l		97
47)	Bromodichloromethane	9.72	83	69590	2.14	ug/l		100
48)	1,4-Dioxane	9.79	88	2561	28.17	ug/l		85
49)	Dibromomethane	9.80	93	23149	2.24	ug/l		95
50)	2-Chloroethyl vinyl ether	10.25	63	1840	1.93	ug/l	#	43
51)	4-Methyl-2-pentanone	10.26	43	121251	10.38	ug/l		99
52)	cis-1,3-Dichloropropene	10.60	75	74630	2.09	ug/l		99
55)	Toluene	11.14	91	251316	2.28	ug/l		100
56)	Ethyl methacrylate	11.45	69	33411	2.11	ug/l		89
57)	trans-1,3-Dichloropropene	11.46	75	56806	2.27	ug/l		99
58)	1,1,2-Trichloroethane	11.73	97	30611	2.25	ug/l		97
59)	2-Hexanone	11.76	43	72312	10.01	ug/l		96
60)	1,3-Dichloropropane	12.17	76	58578	2.29	ug/l		99
61)	Tetrachloroethene	12.28	164	52314	2.19	ug/l		99
62)	Dibromochloromethane	12.65	129	34147	2.11	ug/l		99
63)	1,2-Dibromoethane	13.00	107	27441	2.13	ug/l		99
64)	1-Chlorohexane	13.28	91	112011	2.17	ug/l		98
65)	Chlorobenzene	13.76	112	147419	2.23	ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.83	131	44132	2.19	ug/l		99
67)	Ethylbenzene	13.86	91	299342	2.29	ug/l		100
68)	m-Xylene & p-Xylene	14.00	91	451623	4.38	ug/l		99
69)	o-Xylene	14.81	91	229928	2.26	ug/l		97
70)	Styrene	14.88	104	161668	2.17	ug/l		99
71)	Isopropylbenzene	15.49	105	301594	2.18	ug/l		99
73)	Bromoform	15.54	173	14102	1.70	ug/l		98
74)	trans-1,4-Dichloro-2-buten	15.62	53	8221	1.65	ug/l		98
75)	1,1,2,2-Tetrachloroethane	15.83	83	33039	1.93	ug/l		97
77)	1,2,3-Trichloropropane	16.13	110	9132	1.90	ug/l		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV300.D Vial: 5
Acq On : 12 Oct 2024 3:09 pm Operator: DNguye
Sample : VO01J124 0.2/1.0 Inst : 01
Misc : 2ppb 8260/10ppb KET-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.28	91	381302	1.98	ug/l	99
79)	Bromobenzene	16.36	156	52263	1.88	ug/l	100
80)	1,3,5-Trimethylbenzene	16.57	105	228391	1.92	ug/l	100
81)	2-Chlorotoluene	16.62	91	230020	1.97	ug/l	97
82)	4-Chlorotoluene	16.71	91	199913	1.92	ug/l	99
83)	tert-Butylbenzene	17.27	134	51264	1.91	ug/l	95
84)	1,2,4-Trimethylbenzene	17.33	105	233727	2.01	ug/l	98
85)	sec-Butylbenzene	17.64	105	333974	1.99	ug/l	100
86)	p-Isopropyltoluene	17.86	119	260889	2.00	ug/l	98
87)	1,3-Dichlorobenzene	18.01	146	111892	2.00	ug/l	99
88)	1,2,3-Trimethylbenzene	18.11	105	240443	2.27	ug/l	98
89)	1,4-Dichlorobenzene	18.17	146	118112	2.12	ug/l	99
90)	n-Butylbenzene	18.47	91	306208	2.14	ug/l	99
91)	1,2-Dichlorobenzene	18.70	146	98743	2.16	ug/l	100
92)	1,2-Dibromo-3-chloropropan	19.70	157	4290	1.87	ug/l	98
93)	1,2,4-Trichlorobenzene	20.79	180	65545	2.12	ug/l	99
94)	Hexachlorobutadiene	20.96	225	42489	2.15	ug/l	97
95)	Naphthalene	21.13	128	78739	2.07	ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	48152	2.15	ug/l	97

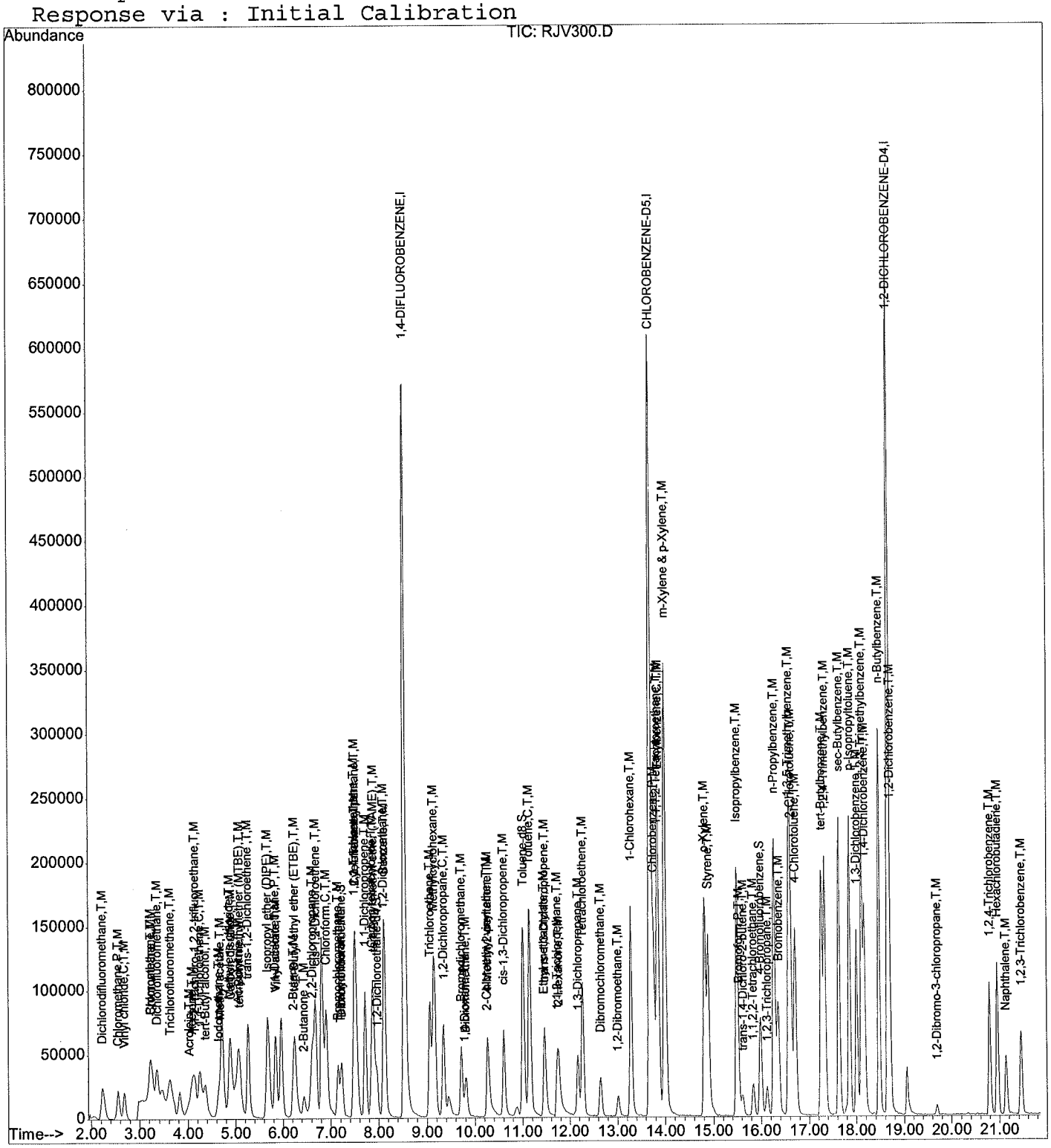
SU

(#) = qualifier out of range (m) = manual integration
RJV300.D VO01J12.M Thu Oct 24 09:05:33 2024 10/30/24 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV300.D Vial: 5
Acq On : 12 Oct 2024 3:09 pm Operator: DNguye
Sample : VO01J124 0.2/1.0 Inst : 01
Misc : 2ppb 8260/10ppb KET-AA/50ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



REPORT ID: 24J169

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV301.D Vial: 6
Acq On : 12 Oct 2024 3:39 pm Operator: DNguye
Sample : VO01J125 0.5/2.5 Inst : 01
Misc : 5ppb 8260/25ppb KET-AA/125ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.55	114	905492	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	699495	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.66	152	330138	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	119430	5.05	ug/l	0.00
Spiked Amount 10.000			Recovery =	50.50%		
41) 1,2-Dichloroethane-d4	7.97	65	106266	5.10	ug/l	0.00
Spiked Amount 10.000			Recovery =	51.00%		
54) Toluene-d8	11.00	98	504573	5.25	ug/l	-0.01
Spiked Amount 10.000			Recovery =	52.50%		
76) 4-Bromofluorobenzene	15.98	95	193283	4.94	ug/l	0.00
Spiked Amount 10.000			Recovery =	49.40%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.26	85	213384	5.74	ug/l	99
5) Chloromethane	2.57	50	162276	5.78	ug/l	98
6) Vinyl chloride	2.70	62	142672	5.76	ug/l	98
7) Bromomethane	3.24	94	93620	5.24	ug/l	96
8) Chloroethane	3.24	64	100076	5.33	ug/l	96
9) Dichlorofluoromethane	3.36	67	178929	5.21	ug/l	100
10) Trichlorofluoromethane	3.63	101	224076	5.56	ug/l	97
11) Acrolein	4.04	56	17932	25.90	ug/l	60
12) 1,1,2-Trichloro-1,2,2-trif	4.16	151	89590	5.40	ug/l	99
13) Acetone	4.10	43	88863	26.58	ug/l	99
14) 1,1-Dichloroethene	4.26	61	224878	5.32	ug/l	81
15) tert-Butyl alcohol	4.38	59	106937	127.83	ug/l	97
16) Iodomethane	4.68	142	192217	5.36	ug/l	100
17) Methyl acetate	4.68	43	40457	4.69	ug/l	100
18) Methylene chloride	4.89	49	159889	5.25	ug/l	98
19) Carbon disulfide	4.90	76	463404	5.24	ug/l	99
20) Acrylonitrile	5.06	53	84026	26.75	ug/l	99
21) tert-Butyl methyl ether (M	5.08	73	230852	5.52	ug/l	95
22) trans-1,2-Dichloroethene	5.27	61	218546	5.39	ug/l	99
23) Isopropyl ether (DIPE)	5.69	45	460212	5.42	ug/l	99
24) Vinyl acetate	5.85	43	142845	5.25	ug/l	99
25) 1,1-Dichloroethane	5.83	63	256471	5.39	ug/l	98
26) 2-Butanol	6.19	45	85215	121.57	ug/l #	63
27) tert-Butyl ethyl ether (ET	6.25	59	345462	5.59	ug/l	97
28) 2-Butanone	6.44	43	126587	24.69	ug/l	98
29) 2,2-Dichloropropane	6.63	77	215587	5.30	ug/l	99
30) cis-1,2-Dichloroethene	6.69	96	155893	5.35	ug/l	99

(#) = qualifier out of range (m) = manual integration
RJV301.D VO01J12.M Thu Oct 24 09:05:42 2024 Page 1

SM 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV301.D Vial: 6
Acq On : 12 Oct 2024 3:39 pm Operator: DNguye
Sample : VO01J125 0.5/2.5 Inst : 01
Misc : 5ppb 8260/25ppb KET-AA/125ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.92	83	256128	5.28	ug/l		99
32)	Bromochloromethane	7.15	49	96770	5.37	ug/l		98
33)	Tetrahydrofuran	7.21	42	17760	6.23	ug/l		77
35)	1,1,1-Trichloroethane	7.49	97	238395	5.48	ug/l		100
36)	Cyclohexane	7.52	84	239701	5.34	ug/l		99
37)	2,2,4-Trimethylpentane	7.52	57	11305	5.20	ug/l	#	100
38)	1,1-Dichloropropene	7.73	110	70975	5.38	ug/l		98
39)	Carbon tetrachloride	7.88	119	181220	5.50	ug/l		100
40)	tert-Amyl methyl ether (TA	7.89	73	252534	5.32	ug/l		98
42)	Benzene	8.13	78	554695	5.35	ug/l		99
43)	1,2-Dichloroethane	8.10	62	131745	5.70	ug/l		100
44)	Trichloroethene	9.06	130	142278	5.19	ug/l		99
45)	Methylcyclohexane	9.15	83	272565	5.13	ug/l		99
46)	1,2-Dichloropropane	9.35	63	123974	5.31	ug/l		99
47)	Bromodichloromethane	9.72	83	171758	5.38	ug/l		99
48)	1,4-Dioxane	9.76	88	8371	93.85	ug/l		100
49)	Dibromomethane	9.80	93	54675	5.39	ug/l		95
50)	2-Chloroethyl vinyl ether	10.22	63	6431	4.32	ug/l		98
51)	4-Methyl-2-pentanone	10.26	43	316434	27.60	ug/l		99
52)	cis-1,3-Dichloropropene	10.60	75	188039	5.37	ug/l		99
55)	Toluene	11.14	91	608350	5.49	ug/l		99
56)	Ethyl methacrylate	11.43	69	87665	5.52	ug/l		100
57)	trans-1,3-Dichloropropene	11.46	75	143059	5.70	ug/l		98
58)	1,1,2-Trichloroethane	11.73	97	75365	5.52	ug/l		98
59)	2-Hexanone	11.74	43	197588	27.24	ug/l		99
60)	1,3-Dichloropropane	12.17	76	138369	5.38	ug/l		98
61)	Tetrachloroethene	12.28	164	126542	5.28	ug/l		99
62)	Dibromochloromethane	12.65	129	86037	5.29	ug/l		99
63)	1,2-Dibromoethane	13.02	107	71225	5.51	ug/l		98
64)	1-Chlorohexane	13.28	91	276816	5.34	ug/l		97
65)	Chlorobenzene	13.76	112	354661	5.34	ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	111893	5.52	ug/l		99
67)	Ethylbenzene	13.85	91	720555	5.49	ug/l		100
68)	m-Xylene & p-Xylene	14.00	91	1086309	10.49	ug/l		99
69)	o-Xylene	14.81	91	604282	5.91	ug/l		98
70)	Styrene	14.88	104	435855	5.82	ug/l		99
71)	Isopropylbenzene	15.49	105	857009	6.17	ug/l		100
73)	Bromoform	15.54	173	42420	4.60	ug/l		99
74)	trans-1,4-Dichloro-2-buten	15.61	53	24990	4.92	ug/l		98
75)	1,1,2,2-Tetrachloroethane	15.83	83	92945	5.33	ug/l		99
77)	1,2,3-Trichloropropane	16.13	110	25335	5.18	ug/l		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV301.D Vial: 6
Acq On : 12 Oct 2024 3:39 pm Operator: DNguye
Sample : VO01J125 0.5/2.5 Inst : 01
Misc : 5ppb 8260/25ppb KET-AA/125ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78)	n-Propylbenzene	16.28	91	1083682	5.54 ug/l	100
79)	Bromobenzene	16.35	156	150955	5.33 ug/l	100
80)	1,3,5-Trimethylbenzene	16.57	105	650534	5.38 ug/l	100
81)	2-Chlorotoluene	16.62	91	643209	5.41 ug/l	99
82)	4-Chlorotoluene	16.71	91	546854	5.16 ug/l	100
83)	tert-Butylbenzene	17.27	134	146871	5.39 ug/l	97
84)	1,2,4-Trimethylbenzene	17.33	105	653100	5.52 ug/l	98
85)	sec-Butylbenzene	17.64	105	935209	5.49 ug/l	99
86)	p-Isopropyltoluene	17.86	119	724832	5.46 ug/l	99
87)	1,3-Dichlorobenzene	18.01	146	303628	5.33 ug/l	99
88)	1,2,3-Trimethylbenzene	18.11	105	580259	5.39 ug/l	99
89)	1,4-Dichlorobenzene	18.17	146	295141	5.22 ug/l	98
90)	n-Butylbenzene	18.47	91	762602	5.25 ug/l	99
91)	1,2-Dichlorobenzene	18.70	146	247763	5.34 ug/l	99
92)	1,2-Dibromo-3-chloropropan	19.70	157	10567	4.54 ug/l	91
93)	1,2,4-Trichlorobenzene	20.79	180	165568	5.27 ug/l	99
94)	Hexachlorobutadiene	20.96	225	106705	5.30 ug/l	100
95)	Naphthalene	21.13	128	191738	4.96 ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	120418	5.29 ug/l	98

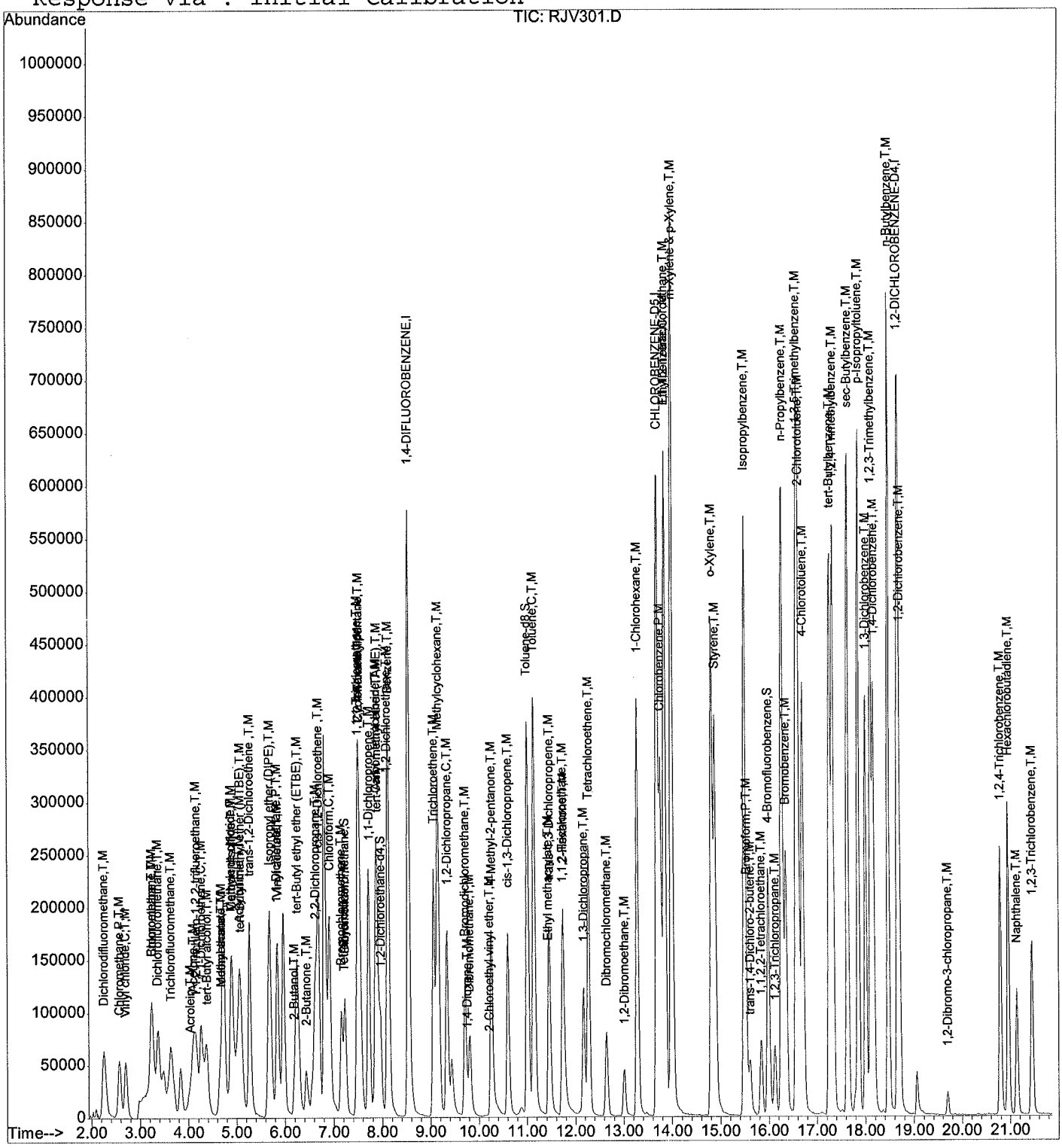
SW
10/30/24

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV301.D Vial: 6
Acq On : 12 Oct 2024 3:39 pm Operator: DNguye
Sample : VO01J125 0.5/2.5 Inst : 01
Misc : 5ppb 8260/25ppb KET-AA/125ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:12 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



SW 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV302.D Vial: 7
Acq On : 12 Oct 2024 4:08 pm Operator: DNguye
Sample : VO01J126 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	878286	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	685675	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	317109	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	225931	9.85	ug/l	0.00
Spiked Amount 10.000			Recovery = 98.50%			
41) 1,2-Dichloroethane-d4	7.97	65	207946	10.29	ug/l	0.00
Spiked Amount 10.000			Recovery = 102.90%			
54) Toluene-d8	11.02	98	920008	9.76	ug/l	0.00
Spiked Amount 10.000			Recovery = 97.60%			
76) 4-Bromofluorobenzene	15.98	95	371599	9.90	ug/l	0.00
Spiked Amount 10.000			Recovery = 99.00%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.26	85	400860	11.11	ug/l	100
5) Chloromethane	2.57	50	299576	11.00	ug/l	100
6) Vinyl chloride	2.70	62	259844	10.82	ug/l	100
7) Bromomethane	3.24	94	164820	9.52	ug/l	100
8) Chloroethane	3.24	64	189547	10.41	ug/l	100
9) Dichlorofluoromethane	3.36	67	272135	8.16	ug/l	100
10) Trichlorofluoromethane	3.63	101	420520	10.77	ug/l	100
11) Acrolein	4.01	56	34583	51.50	ug/l	100
12) 1,1,2-Trichloro-1,2,2-trif	4.15	151	155070	9.64	ug/l	100
13) Acetone	4.09	43	166904	51.46	ug/l	100
14) 1,1-Dichloroethene	4.25	61	388399	9.48	ug/l	100
15) tert-Butyl alcohol	4.37	59	213894	263.61	ug/l	100
16) Iodomethane	4.67	142	327169	9.40	ug/l	100
17) Methyl acetate	4.68	43	86534	10.34	ug/l	100
18) Methylene chloride	4.89	49	274216	9.28	ug/l	100
19) Carbon disulfide	4.90	76	891332	10.40	ug/l	100
20) Acrylonitrile	5.05	53	161190	52.91	ug/l	100
21) tert-Butyl methyl ether (M	5.08	73	417171	10.28	ug/l	100
22) trans-1,2-Dichloroethene	5.27	61	368657	9.37	ug/l	100
23) Isopropyl ether (DIPE)	5.69	45	777113	9.43	ug/l	100
24) Vinyl acetate	5.85	43	306706	11.63	ug/l	100
25) 1,1-Dichloroethane	5.84	63	432835	9.38	ug/l	100
26) 2-Butanol	6.18	45	183544	269.96	ug/l	100
27) tert-Butyl ethyl ether (ET	6.25	59	586616	9.79	ug/l	100
28) 2-Butanone	6.43	43	261298	52.54	ug/l	100
29) 2,2-Dichloropropane	6.63	77	374874	9.50	ug/l	100
30) cis-1,2-Dichloroethene	6.69	96	266459	9.43	ug/l	100

(#) = qualifier out of range (m) = manual integration

SV 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV302.D Vial: 7
Acq On : 12 Oct 2024 4:08 pm Operator: DNguye
Sample : VO01J126 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.92	83	430064	9.14	ug/l		100
32)	Bromochloromethane	7.15	49	172327	9.85	ug/l		100
33)	Tetrahydrofuran	7.21	42	26836	9.71	ug/l		100
35)	1,1,1-Trichloroethane	7.49	97	405643	9.60	ug/l		100
36)	Cyclohexane	7.52	84	441965	10.14	ug/l		100
37)	2,2,4-Trimethylpentane	7.52	57	20929	9.93	ug/l	#	100
38)	1,1-Dichloropropene	7.72	110	122103	9.55	ug/l		100
39)	Carbon tetrachloride	7.88	119	312543	9.77	ug/l		100
40)	tert-Amyl methyl ether (TA	7.89	73	444716	9.66	ug/l		100
42)	Benzene	8.13	78	934186	9.29	ug/l		100
43)	1,2-Dichloroethane	8.10	62	238130	10.62	ug/l		100
44)	Trichloroethene	9.06	130	248092	9.33	ug/l		100
45)	Methylcyclohexane	9.15	83	499588	9.69	ug/l		100
46)	1,2-Dichloropropane	9.34	63	214042	9.46	ug/l		100
47)	Bromodichloromethane	9.71	83	300542	9.70	ug/l		100
48)	1,4-Dioxane	9.76	88	17915	207.07	ug/l		100
49)	Dibromomethane	9.80	93	99337	10.11	ug/l		100
50)	2-Chloroethyl vinyl ether	10.22	63	14973	8.95	ug/l		100
51)	4-Methyl-2-pentanone	10.25	43	636189	57.21	ug/l		100
52)	cis-1,3-Dichloropropene	10.60	75	337726	9.95	ug/l		100
55)	Toluene	11.15	91	1034098	9.52	ug/l		100
56)	Ethyl methacrylate	11.43	69	173966	11.18	ug/l		100
57)	trans-1,3-Dichloropropene	11.46	75	263040	10.69	ug/l		100
58)	1,1,2-Trichloroethane	11.73	97	139249	10.41	ug/l		100
59)	2-Hexanone	11.74	43	408405	57.44	ug/l		100
60)	1,3-Dichloropropane	12.17	76	255886	10.15	ug/l		100
61)	Tetrachloroethene	12.28	164	216228	9.21	ug/l		100
62)	Dibromochloromethane	12.65	129	163288	10.25	ug/l		100
63)	1,2-Dibromoethane	13.02	107	132676	10.47	ug/l		100
64)	1-Chlorohexane	13.28	91	471248	9.28	ug/l		100
65)	Chlorobenzene	13.77	112	610921	9.39	ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	191791	9.65	ug/l		100
67)	Ethylbenzene	13.86	91	1229610	9.56	ug/l		100
68)	m-Xylene & p-Xylene	13.99	91	1797737	17.70	ug/l		100
69)	o-Xylene	14.82	91	1070018	10.67	ug/l		100
70)	Styrene	14.88	104	806452	10.99	ug/l		100
71)	Isopropylbenzene	15.50	105	1423196	10.45	ug/l		100
73)	Bromoform	15.53	173	85568	9.41	ug/l		100
74)	trans-1,4-Dichloro-2-buten	15.61	53	52892	10.84	ug/l		100
75)	1,1,2,2-Tetrachloroethane	15.85	83	183539	10.97	ug/l		100
77)	1,2,3-Trichloropropane	16.13	110	50777	10.81	ug/l		98

(#) = qualifier out of range (m) = manual integration

SM 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV302.D Vial: 7
Acq On : 12 Oct 2024 4:08 pm Operator: DNguye
Sample : VO01J126 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

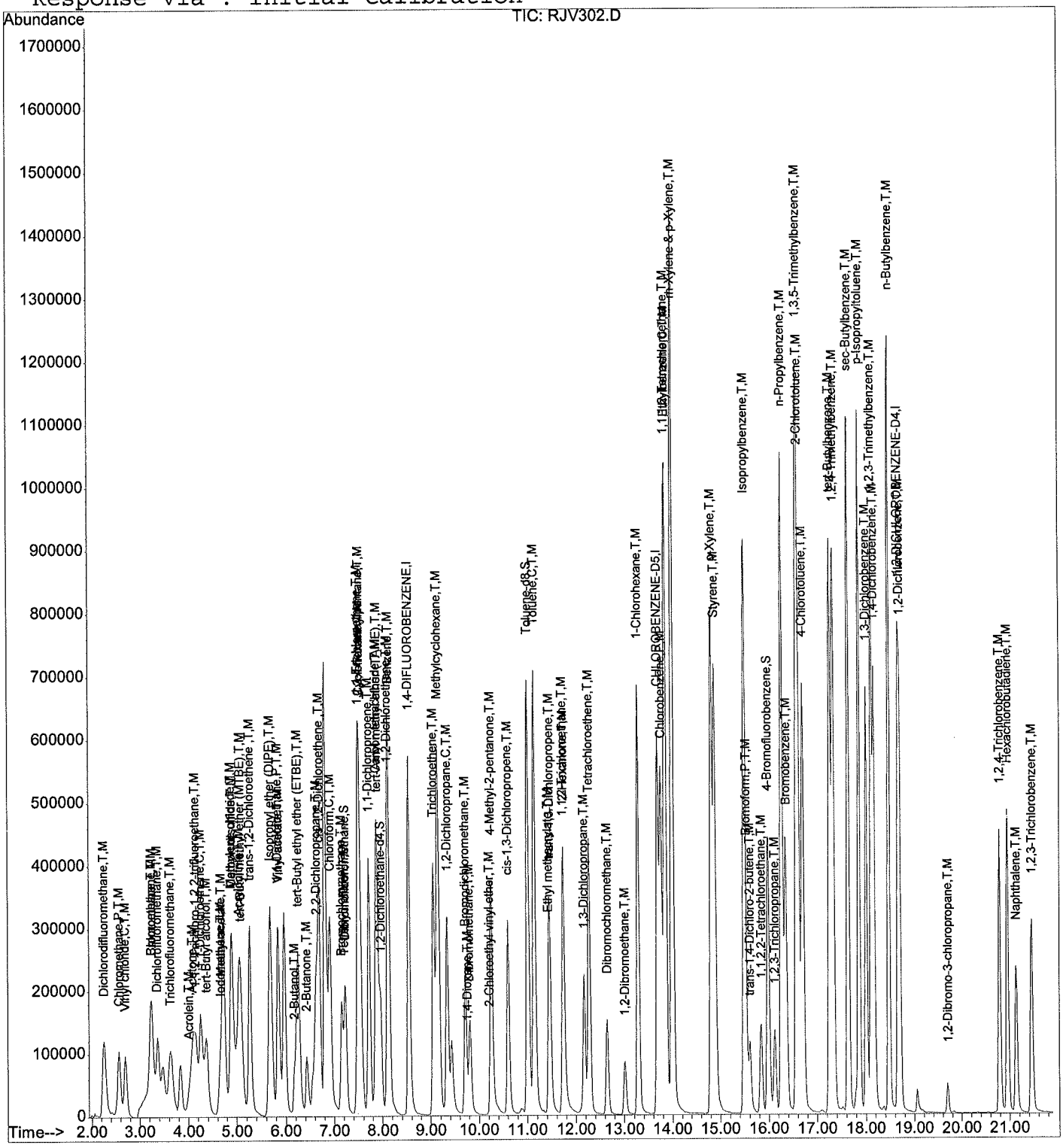
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.27	91	1783846	9.50	ug/l	100
79)	Bromobenzene	16.36	156	257371	9.46	ug/l	100
80)	1,3,5-Trimethylbenzene	16.59	105	1092014	9.40	ug/l	100
81)	2-Chlorotoluene	16.62	91	1064525	9.33	ug/l	100
82)	4-Chlorotoluene	16.70	91	948743	9.32	ug/l	100
83)	tert-Butylbenzene	17.27	134	250692	9.57	ug/l	100
84)	1,2,4-Trimethylbenzene	17.34	105	1081823	9.52	ug/l	100
85)	sec-Butylbenzene	17.64	105	1593114	9.74	ug/l	100
86)	p-Isopropyltoluene	17.86	119	1209457	9.48	ug/l	100
87)	1,3-Dichlorobenzene	18.01	146	517967	9.47	ug/l	100
88)	1,2,3-Trimethylbenzene	18.11	105	987688	9.55	ug/l	100
89)	1,4-Dichlorobenzene	18.17	146	497192	9.15	ug/l	100
90)	n-Butylbenzene	18.48	91	1261592	9.04	ug/l	100
91)	1,2-Dichlorobenzene	18.70	146	422900	9.48	ug/l	100
92)	1,2-Dibromo-3-chloropropan	19.71	157	23865	10.67	ug/l	100
93)	1,2,4-Trichlorobenzene	20.79	180	285523	9.46	ug/l	100
94)	Hexachlorobutadiene	20.95	225	178714	9.24	ug/l	100
95)	Naphthalene	21.13	128	390436	10.51	ug/l	100
96)	1,2,3-Trichlorobenzene	21.46	180	217064	9.92	ug/l	100

(#) = qualifier out of range (m) = manual integration
RJV302.D VO01J12.M Thu Oct 24 09:06:45 2024 SM 10/30/24 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV302.D Vial: 7
Acq On : 12 Oct 2024 4:08 pm Operator: DNguye
Sample : VO01J126 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV303.D Vial: 8
Acq On : 12 Oct 2024 4:38 pm Operator: DNguye
Sample : VO01J127 2.0/10 Inst : 01
Misc : 20ppb 8260/100ppb KET-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	941724	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	874060	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	333207	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	507059	20.61	ug/l	0.00
Spiked Amount 10.000			Recovery = 206.10%			
41) 1,2-Dichloroethane-d4	7.97	65	444140	20.50	ug/l	0.00
Spiked Amount 10.000			Recovery = 205.00%			
54) Toluene-d8	11.02	98	2095606	17.43	ug/l	0.00
Spiked Amount 10.000			Recovery = 174.30%			
76) 4-Bromofluorobenzene	15.98	95	843064	21.37	ug/l	0.00
Spiked Amount 10.000			Recovery = 213.70%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.26	85	822542	21.27	ug/l	98
5) Chloromethane	2.57	50	601404	20.60	ug/l	98
6) Vinyl chloride	2.70	62	539734	20.97	ug/l	99
7) Bromomethane	3.24	94	373501	20.12	ug/l	95
8) Chloroethane	3.24	64	400183	20.51	ug/l	100
9) Dichlorofluoromethane	3.38	67	684137	19.14	ug/l	100
10) Trichlorofluoromethane	3.63	101	864677	20.64	ug/l	97
11) Acrolein	4.03	56	69638	96.72	ug/l	84
12) 1,1,2-Trichloro-1,2,2-trif	4.15	151	357185	20.71	ug/l	99
13) Acetone	4.10	43	330845	95.14	ug/l	100
14) 1,1-Dichloroethene	4.26	61	873755	19.89	ug/l	81
15) tert-Butyl alcohol	4.37	59	447918	514.85	ug/l	100
16) Iodomethane	4.66	142	761822	20.41	ug/l	100
17) Methyl acetate	4.68	43	155750	17.36	ug/l	96
18) Methylene chloride	4.89	49	615681	19.44	ug/l	99
19) Carbon disulfide	4.90	76	1916562	20.86	ug/l	100
20) Acrylonitrile	5.05	53	324088	99.21	ug/l	100
21) tert-Butyl methyl ether (M	5.08	73	900113	20.69	ug/l	100
22) trans-1,2-Dichloroethene	5.27	61	862488	20.44	ug/l	99
23) Isopropyl ether (DIPE)	5.69	45	1754960	19.86	ug/l	98
24) Vinyl acetate	5.83	43	581400	20.56	ug/l	97
25) 1,1-Dichloroethane	5.85	63	1000118	20.21	ug/l	99
26) 2-Butanol	6.16	45	377355	517.63	ug/l	88
27) tert-Butyl ethyl ether (ET	6.25	59	1292881	20.13	ug/l	99
28) 2-Butanone	6.43	43	518724	97.28	ug/l	99
29) 2,2-Dichloropropane	6.63	77	854045	20.18	ug/l	100
30) cis-1,2-Dichloroethene	6.69	96	615689	20.32	ug/l	100

(#) = qualifier out of range (m) = manual integration
RJV303.D VO01J12.M Thu Oct 24 09:06:54 2024 10/30/24 Page 1

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV303.D Vial: 8
Acq On : 12 Oct 2024 4:38 pm Operator: DNguye
Sample : VO01J127 2.0/10 Inst : 01
Misc : 20ppb 8260/100ppb KET-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.92	83	984862	19.53	ug/l		100
32)	Bromochloromethane	7.15	49	375021	20.00	ug/l		97
33)	Tetrahydrofuran	7.21	42	54884	18.52	ug/l		98
35)	1,1,1-Trichloroethane	7.49	97	947462	20.92	ug/l		100
36)	Cyclohexane	7.52	84	934014	19.99	ug/l		100
37)	2,2,4-Trimethylpentane	7.51	57	43780	19.37	ug/l	#	100
38)	1,1-Dichloropropene	7.73	110	284731	20.76	ug/l		99
39)	Carbon tetrachloride	7.88	119	739054	21.55	ug/l		99
40)	tert-Amyl methyl ether (TA	7.89	73	988508	20.02	ug/l		99
42)	Benzene	8.13	78	2161734	20.05	ug/l		99
43)	1,2-Dichloroethane	8.10	62	510429	21.24	ug/l		100
44)	Trichloroethene	9.06	130	586311	20.56	ug/l		98
45)	Methylcyclohexane	9.15	83	1094474	19.80	ug/l		99
46)	1,2-Dichloropropane	9.34	63	494110	20.36	ug/l		99
47)	Bromodichloromethane	9.71	83	691258	20.81	ug/l		99
48)	1,4-Dioxane	9.76	88	40827	440.10	ug/l		98
49)	Dibromomethane	9.80	93	216065	20.50	ug/l		98
50)	2-Chloroethyl vinyl ether	10.22	63	36226	18.94	ug/l		98
51)	4-Methyl-2-pentanone	10.25	43	1246578	104.55	ug/l		100
52)	cis-1,3-Dichloropropene	10.60	75	795595	21.87	ug/l		99
55)	Toluene	11.15	91	2417898	17.45	ug/l		98
56)	Ethyl methacrylate	11.43	69	371503	18.72	ug/l		98
57)	trans-1,3-Dichloropropene	11.46	75	587731	18.73	ug/l		100
58)	1,1,2-Trichloroethane	11.73	97	301375	17.67	ug/l		100
59)	2-Hexanone	11.74	43	821756	90.66	ug/l		98
60)	1,3-Dichloropropane	12.17	76	654033	20.36	ug/l		98
61)	Tetrachloroethene	12.28	164	590775	19.73	ug/l		99
62)	Dibromochloromethane	12.65	129	416614	20.51	ug/l		99
63)	1,2-Dibromoethane	13.02	107	340577	21.08	ug/l		99
64)	1-Chlorohexane	13.28	91	1303212	20.14	ug/l		100
65)	Chlorobenzene	13.76	112	1680926	20.27	ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	529315	20.90	ug/l		99
67)	Ethylbenzene	13.86	91	3293978	20.10	ug/l		98
68)	m-Xylene & p-Xylene	13.99	91	4807410	37.13	ug/l		96
69)	o-Xylene	14.81	91	2456831	19.22	ug/l		99
70)	Styrene	14.88	104	1884749	20.15	ug/l		100
71)	Isopropylbenzene	15.49	105	3256050	18.76	ug/l		99
73)	Bromoform	15.53	173	186129	19.23	ug/l		99
74)	trans-1,4-Dichloro-2-buten	15.61	53	108996	21.26	ug/l		95
75)	1,1,2,2-Tetrachloroethane	15.83	83	373375	21.23	ug/l		98
77)	1,2,3-Trichloropropane	16.13	110	103730	21.01	ug/l		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV303.D Vial: 8
Acq On : 12 Oct 2024 4:38 pm Operator: DNguye
Sample : VO01J127 2.0/10 Inst : 01
Misc : 20ppb 8260/100ppb KET-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

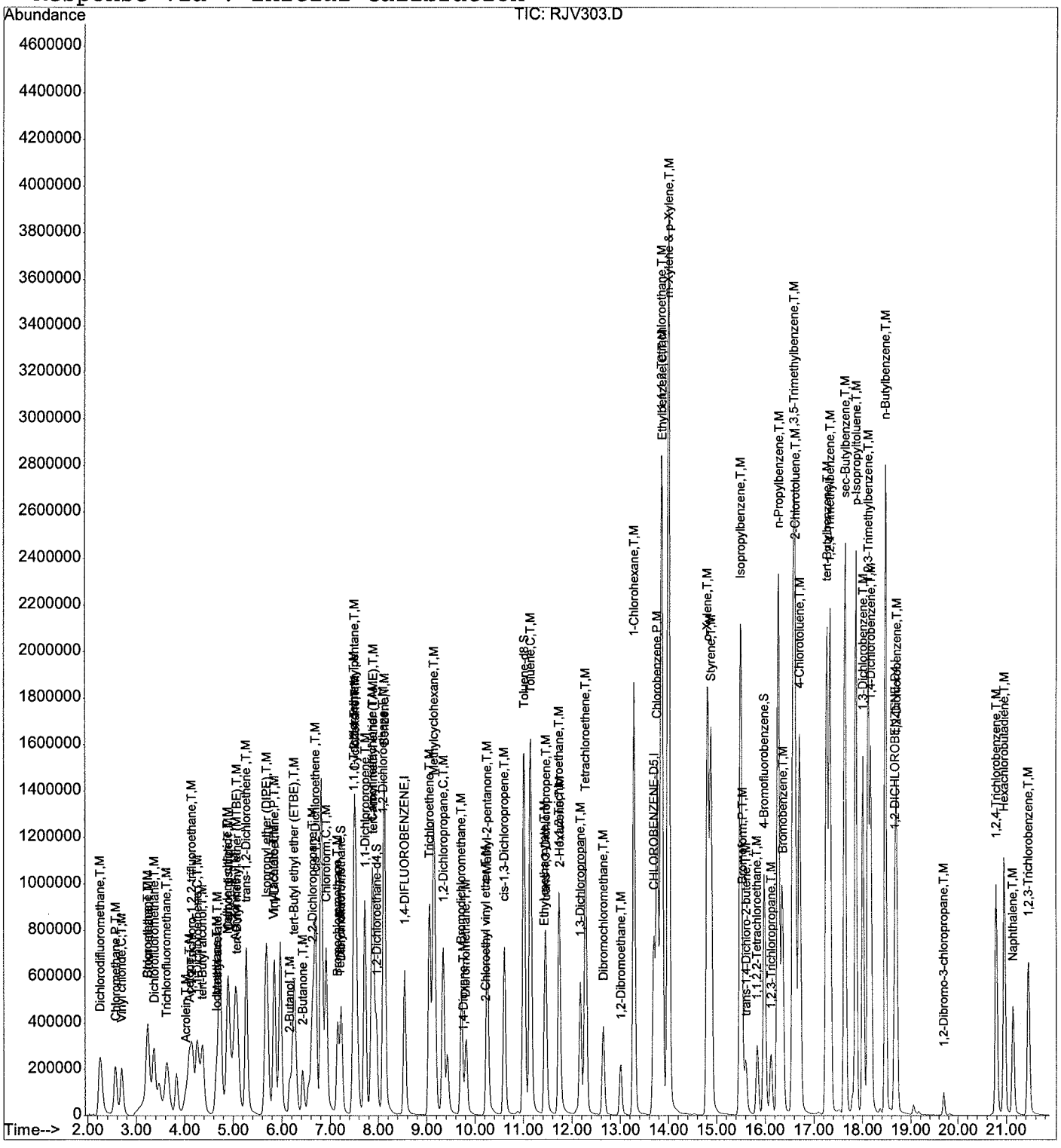
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78) n-Propylbenzene	16.27	91	4051078	20.53 ug/l	99
79) Bromobenzene	16.36	156	591001	20.68 ug/l	99
80) 1,3,5-Trimethylbenzene	16.59	105	2508116	20.55 ug/l	99
81) 2-Chlorotoluene	16.62	91	2423790	20.21 ug/l	98
82) 4-Chlorotoluene	16.70	91	2189904	20.47 ug/l	98
83) tert-Butylbenzene	17.27	134	564243	20.51 ug/l	98
84) 1,2,4-Trimethylbenzene	17.33	105	2452758	20.55 ug/l	99
85) sec-Butylbenzene	17.64	105	3500283	20.36 ug/l	100
86) p-Isopropyltoluene	17.86	119	2694193	20.09 ug/l	100
87) 1,3-Dichlorobenzene	18.01	146	1156917	20.14 ug/l	99
88) 1,2,3-Trimethylbenzene	18.11	105	2189305	20.15 ug/l	99
89) 1,4-Dichlorobenzene	18.17	146	1121854	19.65 ug/l	99
90) n-Butylbenzene	18.47	91	2773404	18.90 ug/l	98
91) 1,2-Dichlorobenzene	18.70	146	930982	19.87 ug/l	99
92) 1,2-Dibromo-3-chloropropan	19.70	157	49261	20.96 ug/l	98
93) 1,2,4-Trichlorobenzene	20.79	180	634426	20.00 ug/l	99
94) Hexachlorobutadiene	20.95	225	411911	20.26 ug/l	99
95) Naphthalene	21.13	128	772927	19.79 ug/l	99
96) 1,2,3-Trichlorobenzene	21.46	180	466925	20.31 ug/l	98

(#) = qualifier out of range (m) = manual integration
RJV303.D VO01J12.M Thu Oct 24 09:06:55 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV303.D Vial: 8
Acq On : 12 Oct 2024 4:38 pm Operator: DNguye
Sample : VO01J127 2.0/10 Inst : 01
Misc : 20ppb 8260/100ppb KET-AA/500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV305.D Vial: 10
Acq On : 12 Oct 2024 5:38 pm Operator: DNguye
Sample : VO01J129 3.0/15 Inst : 01
Misc : 30ppb 8260/150ppb KET-AA/750ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	1021374	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	786601	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	302051	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	814773	30.54	ug/l	0.00
Spiked Amount 10.000			Recovery =	305.40%		
41) 1,2-Dichloroethane-d4	7.97	65	670901	28.55	ug/l	0.00
Spiked Amount 10.000			Recovery =	285.50%		
54) Toluene-d8	11.00	98	3301949	30.52	ug/l	-0.01
Spiked Amount 10.000			Recovery =	305.20%		
76) 4-Bromofluorobenzene	15.98	95	1125863	31.48	ug/l	0.00
Spiked Amount 10.000			Recovery =	314.80%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.26	85	1261118	30.06	ug/l	99
5) Chloromethane	2.56	50	977696	30.88	ug/l	97
6) Vinyl chloride	2.70	62	902459	32.32	ug/l	99
7) Bromomethane	3.24	94	633167	31.45	ug/l	96
8) Chloroethane	3.24	64	711028	33.59	ug/l	98
9) Dichlorofluoromethane	3.36	67	1121013	28.91	ug/l	100
10) Trichlorofluoromethane	3.63	101	1360811	29.96	ug/l	98
11) Acrolein	4.03	56	132817	170.09	ug/l	73
12) 1,1,2-Trichloro-1,2,2-trif	4.16	151	610042	32.62	ug/l	99
13) Acetone	4.10	43	546473	144.89	ug/l	95
14) 1,1-Dichloroethene	4.25	61	1475892	30.97	ug/l	78
15) tert-Butyl alcohol	4.37	59	714928	757.67	ug/l	96
16) Iodomethane	4.67	142	1307949	32.31	ug/l	96
17) Methyl acetate	4.68	43	286881	29.49	ug/l	97
18) Methylene chloride	4.89	49	1057583	30.79	ug/l	98
19) Carbon disulfide	4.90	76	3375469	33.87	ug/l	99
20) Acrylonitrile	5.05	53	584198	164.90	ug/l	98
21) tert-Butyl methyl ether (M	5.08	73	1499354	31.77	ug/l	97
22) trans-1,2-Dichloroethene	5.27	61	1437975	31.42	ug/l	98
23) Isopropyl ether (DIPE)	5.69	45	3057961	31.91	ug/l	98
24) Vinyl acetate	5.83	43	1023550	33.38	ug/l	97
25) 1,1-Dichloroethane	5.85	63	1700771	31.69	ug/l	100
26) 2-Butanol	6.15	45	657760	831.91	ug/l	90
27) tert-Butyl ethyl ether (ET	6.25	59	2204742	31.65	ug/l	99
28) 2-Butanone	6.43	43	893838	154.55	ug/l	97
29) 2,2-Dichloropropane	6.63	77	1398152	30.46	ug/l	99
30) cis-1,2-Dichloroethene	6.69	96	1055115	32.10	ug/l	97

(#) = qualifier out of range (m) = manual integration

9/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV305.D Vial: 10
Acq On : 12 Oct 2024 5:38 pm Operator: DNguye
Sample : VO01J129 3.0/15 Inst : 01
Misc : 30ppb 8260/150ppb KET-AA/750ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
31)	Chloroform	6.92	83	1611480	29.46	ug/l	99
32)	Bromochloromethane	7.15	49	630812	31.02	ug/l	97
33)	Tetrahydrofuran	7.20	42	94472	29.39	ug/l	98
35)	1,1,1-Trichloroethane	7.49	97	1504023	30.62	ug/l	99
36)	Cyclohexane	7.52	84	1616527	31.90	ug/l	100
37)	2,2,4-Trimethylpentane	7.51	57	78012	31.82	ug/l	100
38)	1,1-Dichloropropene	7.72	110	489047	32.88	ug/l	99
39)	Carbon tetrachloride	7.88	119	1162519	31.26	ug/l	98
40)	tert-Amyl methyl ether (TA	7.89	73	1615224	30.16	ug/l	99
42)	Benzene	8.13	78	3606911	30.84	ug/l	99
43)	1,2-Dichloroethane	8.10	62	790866	30.34	ug/l	99
44)	Trichloroethene	9.06	130	966876	31.26	ug/l	98
45)	Methylcyclohexane	9.15	83	1816116	30.30	ug/l	99
46)	1,2-Dichloropropane	9.34	63	830627	31.56	ug/l	97
47)	Bromodichloromethane	9.71	83	1090983	30.29	ug/l	98
48)	1,4-Dioxane	9.74	88	66336	659.32	ug/l	100
49)	Dibromomethane	9.80	93	344804	30.16	ug/l	99
50)	2-Chloroethyl vinyl ether	10.22	63	66447	31.33	ug/l	95
51)	4-Methyl-2-pentanone	10.25	43	2064842	159.67	ug/l	99
52)	cis-1,3-Dichloropropene	10.60	75	1282910	32.51	ug/l	98
55)	Toluene	11.15	91	3924304	31.48	ug/l	96
56)	Ethyl methacrylate	11.43	69	608849	34.10	ug/l	98
57)	trans-1,3-Dichloropropene	11.46	75	948517	33.59	ug/l	98
58)	1,1,2-Trichloroethane	11.73	97	490176	31.94	ug/l	99
59)	2-Hexanone	11.73	43	1360892	166.83	ug/l	97
60)	1,3-Dichloropropane	12.17	76	920355	31.84	ug/l	99
61)	Tetrachloroethene	12.28	164	819741	30.43	ug/l	99
62)	Dibromochloromethane	12.65	129	582093	31.84	ug/l	98
63)	1,2-Dibromoethane	13.00	107	471196	32.40	ug/l	99
64)	1-Chlorohexane	13.28	91	1809697	31.07	ug/l	99
65)	Chlorobenzene	13.76	112	2332282	31.25	ug/l	99
66)	1,1,1,2-Tetrachloroethane	13.85	131	735329	32.27	ug/l	98
67)	Ethylbenzene	13.86	91	4423489	29.99	ug/l	96
68)	m-Xylene & p-Xylene	13.99	91	6467044	55.51	ug/l	94
69)	o-Xylene	14.81	91	3360390	29.20	ug/l	99
70)	Styrene	14.88	104	2553659	30.34	ug/l	100
71)	Isopropylbenzene	15.49	105	4451782	28.50	ug/l	99
73)	Bromoform	15.53	173	272196	30.89	ug/l	98
74)	trans-1,4-Dichloro-2-buten	15.61	53	157412	33.87	ug/l	91
75)	1,1,2,2-Tetrachloroethane	15.83	83	513818	32.23	ug/l	100
77)	1,2,3-Trichloropropane	16.13	110	145089	32.42	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV305.D Vial: 10
Acq On : 12 Oct 2024 5:38 pm Operator: DNguye
Sample : VO01J129 3.0/15 Inst : 01
Misc : 30ppb 8260/150ppb KET-AA/750ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.27	91	5519227	30.86	ug/l	98
79)	Bromobenzene	16.35	156	830978	32.08	ug/l	100
80)	1,3,5-Trimethylbenzene	16.59	105	3457404	31.25	ug/l	98
81)	2-Chlorotoluene	16.62	91	3380958	31.11	ug/l	98
82)	4-Chlorotoluene	16.70	91	2950311	30.42	ug/l	97
83)	tert-Butylbenzene	17.27	134	794954	31.88	ug/l	100
84)	1,2,4-Trimethylbenzene	17.33	105	3342934	30.89	ug/l	97
85)	sec-Butylbenzene	17.64	105	4686851	30.08	ug/l	98
86)	p-Isopropyltoluene	17.86	119	3674486	30.23	ug/l	99
87)	1,3-Dichlorobenzene	18.01	146	1603674	30.80	ug/l	99
88)	1,2,3-Trimethylbenzene	18.11	105	2942061	29.87	ug/l	98
89)	1,4-Dichlorobenzene	18.17	146	1538182	29.72	ug/l	98
90)	n-Butylbenzene	18.47	91	3773228	28.37	ug/l	97
91)	1,2-Dichlorobenzene	18.70	146	1275864	30.04	ug/l	99
92)	1,2-Dibromo-3-chloropropan	19.70	157	70688	33.18	ug/l	97
93)	1,2,4-Trichlorobenzene	20.79	180	893999	31.09	ug/l	98
94)	Hexachlorobutadiene	20.95	225	588209	31.91	ug/l	99
95)	Naphthalene	21.13	128	1138915	32.17	ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	664030	31.86	ug/l	99

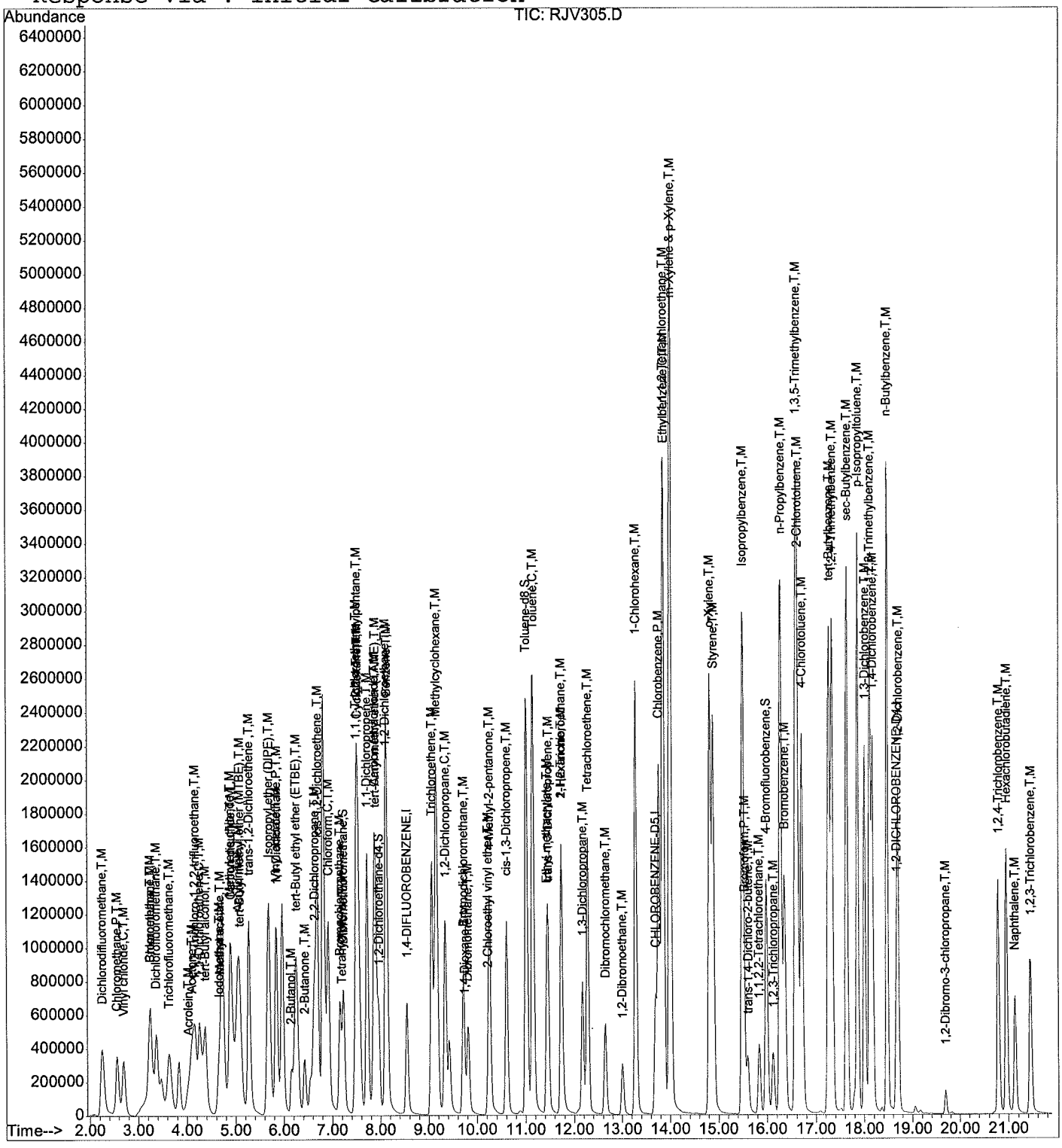
(#) = qualifier out of range (m) = manual integration
RJV305.D VO01J12.M Wed Oct 30 15:25:38 2024 Page 3

SU 10/30/24

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV305.D Vial: 10
Acq On : 12 Oct 2024 5:38 pm Operator: DNguye
Sample : VO01J129 3.0/15 Inst : 01
Misc : 30ppb 8260/150ppb KET-AA/750ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:13 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV304.D Vial: 9
Acq On : 12 Oct 2024 5:08 pm Operator: DNguye
Sample : VO01J128 5.0/25 Inst : 01
Misc : 50ppb 8260/250ppb KET-AA/1250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 16:52 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	1069388	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	873212	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	329603	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	1200	0.04	ug/l	0.00
Spiked Amount 10.000			Recovery =	0.40%		
41) 1,2-Dichloroethane-d4	7.95	65	1540	0.06	ug/l	-0.01
Spiked Amount 10.000			Recovery =	0.60%		
54) Toluene-d8	11.02	98	12224	0.10	ug/l	0.00
Spiked Amount 10.000			Recovery =	1.00%		
76) 4-Bromofluorobenzene	15.98	95	15713	0.40	ug/l	0.00
Spiked Amount 10.000			Recovery =	4.00%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.24	85	1983615	45.16	ug/l	100
5) Chloromethane	2.54	50	1476864	44.55	ug/l	99
6) Vinyl chloride	2.68	62	1343437	45.95	ug/l	99
7) Bromomethane	3.23	94	923532	43.81	ug/l	94
8) Chloroethane	3.24	64	1025607	46.28	ug/l	98
9) Dichlorofluoromethane	3.36	67	2345378	57.77	ug/l	84
10) Trichlorofluoromethane	3.63	101	2090394	43.95	ug/l	97
11) Acrolein	4.01	56	205533	251.39	ug/l	79
12) 1,1,2-Trichloro-1,2,2-trif	4.15	151	925005	47.24	ug/l	97
13) Acetone	4.09	43	913476	231.33	ug/l	98
14) 1,1-Dichloroethene	4.25	61	2271263	45.52	ug/l	94
15) tert-Butyl alcohol	4.37	59	1260896	1276.28	ug/l	97
16) Iodomethane	4.65	142	2016319	47.57	ug/l	98
18) Methylene chloride	4.87	49	1622404	45.11	ug/l	97
20) Acrylonitrile	5.04	53	935996	252.33	ug/l	99
21) tert-Butyl methyl ether (M	5.08	73	2402533	48.63	ug/l	98
22) trans-1,2-Dichloroethene	5.26	61	2189562	45.70	ug/l	99
23) Isopropyl ether (DIPE)	5.69	45	4741217	47.26	ug/l	97
24) Vinyl acetate	5.83	43	1535132	47.82	ug/l	98
25) 1,1-Dichloroethane	5.83	63	2580978	45.93	ug/l	99
26) 2-Butanol	6.25	45	65407	79.01	ug/l #	1
27) tert-Butyl ethyl ether (ET	6.25	59	3414479	46.81	ug/l	97
28) 2-Butanone	6.41	43	1456715	240.57	ug/l	99
29) 2,2-Dichloropropane	6.63	77	2152292	44.78	ug/l	98
30) cis-1,2-Dichloroethene	6.69	96	1614492	46.92	ug/l	98
31) Chloroform	6.92	83	2554994	44.62	ug/l	99
32) Bromochloromethane	7.15	49	996291	46.79	ug/l	97

(#) = qualifier out of range (m) = manual integration
RJV304.D VO01J12.M Wed Oct 30 16:52:40 2024 10/30/24 Page 1

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV304.D Vial: 9
Acq On : 12 Oct 2024 5:08 pm Operator: DNguye
Sample : VO01J128 5.0/25 Inst : 01
Misc : 50ppb 8260/250ppb KET-AA/1250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 16:52 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
33) Tetrahydrofuran	7.20	42	159009	47.25	ug/l	97
35) 1,1,1-Trichloroethane	7.49	97	2383782	46.36	ug/l	99
38) 1,1-Dichloropropene	7.72	110	748202	48.05	ug/l	98
39) Carbon tetrachloride	7.88	119	1844292	47.37	ug/l	98
40) tert-Amyl methyl ether (TA	7.89	73	2611545	46.58	ug/l	99
42) Benzene	8.13	78	5514913	45.04	ug/l	99
43) 1,2-Dichloroethane	8.10	62	1296995	47.52	ug/l	100
44) Trichloroethene	9.06	130	1503523	46.43	ug/l	97
46) 1,2-Dichloropropane	9.34	63	1300340	47.19	ug/l	100
47) Bromodichloromethane	9.71	83	1766637	46.85	ug/l	97
48) 1,4-Dioxane	9.74	88	113529	1077.71	ug/l	98
49) Dibromomethane	9.80	93	569273	47.56	ug/l	98
50) 2-Chloroethyl vinyl ether	10.20	63	115297	51.27	ug/l	94
51) 4-Methyl-2-pentanone	10.25	43	3381753	249.77	ug/l	98
52) cis-1,3-Dichloropropene	10.60	75	2054932	49.74	ug/l	97
55) Toluene	11.15	91	5952773	43.01	ug/l	95
56) Ethyl methacrylate	11.43	69	999333	50.41	ug/l	98
57) trans-1,3-Dichloropropene	11.46	75	1559444	49.75	ug/l	98
58) 1,1,2-Trichloroethane	11.73	97	797655	46.82	ug/l	100
59) 2-Hexanone	11.73	43	2290452	252.94	ug/l	97
60) 1,3-Dichloropropane	12.17	76	1552719	48.38	ug/l	99
61) Tetrachloroethene	12.28	164	1338133	44.74	ug/l	99
62) Dibromochloromethane	12.65	129	1005360	49.53	ug/l	99
63) 1,2-Dibromoethane	13.00	107	815107	50.49	ug/l	100
64) 1-Chlorohexane	13.28	91	2945719	45.56	ug/l	99
65) Chlorobenzene	13.77	112	3847034	46.43	ug/l	99
66) 1,1,1,2-Tetrachloroethane	13.85	131	1262185	49.89	ug/l	99
67) Ethylbenzene	13.86	91	7054644	43.08	ug/l	94
68) m-Xylene & p-Xylene	14.01	91	9607180	74.28	ug/l	89
69) o-Xylene	14.82	91	5418309	42.42	ug/l	97
70) Styrene	14.88	104	4235619	45.34	ug/l	99
71) Isopropylbenzene	15.50	105	6888107	39.72	ug/l	96
73) Bromoform	15.53	173	469968	48.75	ug/l	98
74) trans-1,4-Dichloro-2-buten	15.61	53	264045	52.07	ug/l	87
75) 1,1,2,2-Tetrachloroethane	15.83	83	871766	50.11	ug/l	100
77) 1,2,3-Trichloropropane	16.13	110	250075	51.21	ug/l	99
78) n-Propylbenzene	16.27	91	8344255	42.75	ug/l	95
79) Bromobenzene	16.36	156	1363616	48.24	ug/l	98
80) 1,3,5-Trimethylbenzene	16.59	105	5416703	44.86	ug/l	97
81) 2-Chlorotoluene	16.61	91	5207858	43.91	ug/l	92
82) 4-Chlorotoluene	16.70	91	4850851	45.83	ug/l	99

(#) = qualifier out of range (m) = manual integration

SC 10/30/24

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV304.D Vial: 9
Acq On : 12 Oct 2024 5:08 pm Operator: DNguye
Sample : VO01J128 5.0/25 Inst : 01
Misc : 50ppb 8260/250ppb KET-AA/1250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 16:52 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
83)	tert-Butylbenzene	17.27	134	1302135	47.85 ug/l	94
84)	1,2,4-Trimethylbenzene	17.34	105	5267008	44.60 ug/l	94
85)	sec-Butylbenzene	17.64	105	7067157	41.57 ug/l	95
86)	p-Isopropyltoluene	17.86	119	5740265	43.28 ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	2625097	46.20 ug/l	99
88)	1,2,3-Trimethylbenzene	18.13	105	4601696	42.81 ug/l	96
89)	1,4-Dichlorobenzene	18.17	146	2490236	44.10 ug/l	98
90)	n-Butylbenzene	18.48	91	5624029	38.75 ug/l	94
91)	1,2-Dichlorobenzene	18.70	146	2098868	45.28 ug/l	98
92)	1,2-Dibromo-3-chloropropan	19.71	157	121943	52.46 ug/l	99
93)	1,2,4-Trichlorobenzene	20.79	180	1462322	46.60 ug/l	99
94)	Hexachlorobutadiene	20.97	225	920046	45.74 ug/l	98
95)	Naphthalene	21.15	128	1824885	47.24 ug/l	100
96)	1,2,3-Trichlorobenzene	21.46	180	1068289	46.97 ug/l	99

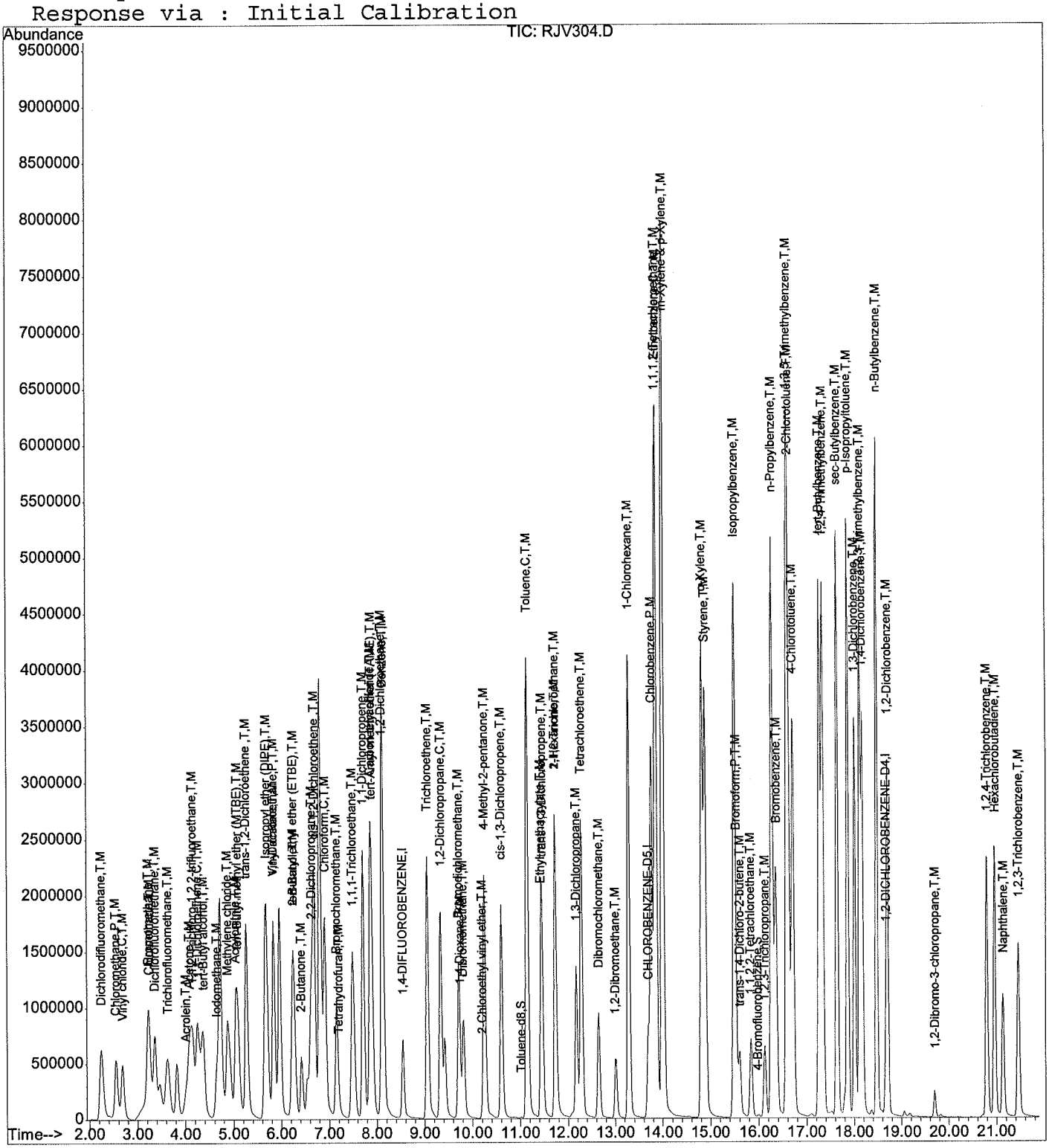
SM 10/30/24

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV304.D Vial: 9
Acq On : 12 Oct 2024 5:08 pm Operator: DNguye
Sample : VO01J128 5.0/25 Inst : 01
Misc : 50ppb 8260/250ppb KET-AA/1250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 16:52 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV306.D Vial: 11
Acq On : 12 Oct 2024 6:07 pm Operator: DNguye
Sample : VO01J1210 10/50 Inst : 01
Misc : 100ppb 8260/500ppb KET-AA/2500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 16:53 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.55	114	1124028	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	870044	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	301750	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	666	0.02	ug/l	0.00
Spiked Amount 10.000			Recovery = 0.20%			
41) 1,2-Dichloroethane-d4	8.10	65	78218	3.02	ug/l	0.13
Spiked Amount 10.000			Recovery = 30.20%			
54) Toluene-d8	11.40	98	291	0.00	ug/l	0.39
Spiked Amount 10.000			Recovery = 0.00%			
76) 4-Bromofluorobenzene	15.98	95	10390	0.29	ug/l	0.00
Spiked Amount 10.000			Recovery = 2.90%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.25	85	3949323	85.54	ug/l	98
5) Chloromethane	2.55	50	3008051	86.33	ug/l	98
6) Vinyl chloride	2.67	62	2932061	95.42	ug/l	99
7) Bromomethane	3.23	94	1985042	89.58	ug/l	96
8) Chloroethane	3.24	64	2174452	93.36	ug/l	100
9) Dichlorofluoromethane	3.36	67	3757606	88.06	ug/l	100
10) Trichlorofluoromethane	3.63	101	4112956	82.27	ug/l	99
11) Acrolein	4.03	56	440466	512.56	ug/l	81
12) 1,1,2-Trichloro-1,2,2-trif	4.16	151	1882973	91.48	ug/l	97
13) Acetone	4.10	43	1874696	451.67	ug/l	97
14) 1,1-Dichloroethene	4.25	61	4642682	88.53	ug/l	76
15) tert-Butyl alcohol	4.37	59	2525792	2432.33	ug/l	96
16) Iodomethane	4.66	142	4281206	96.10	ug/l	96
18) Methylene chloride	4.89	49	3462623	91.60	ug/l	98
20) Acrylonitrile	5.05	53	1974498	506.42	ug/l	98
21) tert-Butyl methyl ether (M	5.08	73	4895297	94.26	ug/l	97
22) trans-1,2-Dichloroethene	5.26	61	4483486	89.02	ug/l	95
23) Isopropyl ether (DIPE)	5.69	45	9494226	90.03	ug/l	95
24) Vinyl acetate	5.83	43	3114327	92.29	ug/l	96
25) 1,1-Dichloroethane	5.83	63	5273737	89.29	ug/l	98
26) 2-Butanol	6.25	45	137473	157.99	ug/l #	1
27) tert-Butyl ethyl ether (ET	6.25	59	6919432	90.25	ug/l	95
28) 2-Butanone	6.41	43	3046674	478.68	ug/l	97
29) 2,2-Dichloropropane	6.63	77	4280495	84.73	ug/l	97
30) cis-1,2-Dichloroethene	6.69	96	3343221	92.43	ug/l	95
31) Chloroform	6.91	83	5003360	83.12	ug/l	97
32) Bromochloromethane	7.15	49	2060437	92.06	ug/l	97

(#) = qualifier out of range (m) = manual integration

SG 10/30/24

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV306.D Vial: 11
Acq On : 12 Oct 2024 6:07 pm Operator: DNguye
Sample : VO01J1210 10/50 Inst : 01
Misc : 100ppb 8260/500ppb KET-AA/2500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 16:53 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
33)	Tetrahydrofuran	7.20	42	330422	93.42	ug/l	97
35)	1,1,1-Trichloroethane	7.51	97	4719432	87.32	ug/l	99
38)	1,1-Dichloropropene	7.71	110	1544057	94.34	ug/l	98
39)	Carbon tetrachloride	7.88	119	3631396	88.73	ug/l	97
40)	tert-Amyl methyl ether (TA	7.89	73	5276582	89.54	ug/l	100
42)	Benzene	8.13	78	10383102	80.67	ug/l	96
43)	1,2-Dichloroethane	8.10	62	2527929	88.12	ug/l	99
44)	Trichloroethene	9.06	130	3069728	90.19	ug/l	96
46)	1,2-Dichloropropane	9.33	63	2656105	91.70	ug/l	98
47)	Bromodichloromethane	9.72	83	3520681	88.82	ug/l	96
48)	1,4-Dioxane	9.75	88	231424	2090.07	ug/l	99
49)	Dibromomethane	9.80	93	1137284	90.40	ug/l	98
50)	2-Chloroethyl vinyl ether	10.20	63	283831	118.72	ug/l	94
51)	4-Methyl-2-pentanone	10.25	43	6579123	462.29	ug/l	96
52)	cis-1,3-Dichloropropene	10.60	75	4084042	94.04	ug/l	96
55)	Toluene	11.15	91	10701456	77.61	ug/l	87
56)	Ethyl methacrylate	11.43	69	1981693	100.34	ug/l	97
57)	trans-1,3-Dichloropropene	11.46	75	3063604	98.10	ug/l	97
58)	1,1,2-Trichloroethane	11.73	97	1601272	94.33	ug/l	99
59)	2-Hexanone	11.73	43	4414025	489.22	ug/l	95
60)	1,3-Dichloropropane	12.17	76	2947857	92.19	ug/l	98
61)	Tetrachloroethene	12.28	164	2539505	85.22	ug/l	100
62)	Dibromochloromethane	12.65	129	1940270	95.95	ug/l	99
63)	1,2-Dibromoethane	13.00	107	1535828	95.48	ug/l	99
64)	1-Chlorohexane	13.28	91	5327143	82.69	ug/l	96
65)	Chlorobenzene	13.77	112	7029821	85.15	ug/l	95
66)	1,1,1,2-Tetrachloroethane	13.85	131	2394720	95.00	ug/l	99
67)	Ethylbenzene	13.86	91	11529226	70.67	ug/l	85
68)	m-Xylene & p-Xylene	14.01	91	14448640	112.12	ug/l	76
69)	o-Xylene	14.82	91	9365835	73.59	ug/l	91
70)	Styrene	14.88	104	7643565	82.11	ug/l	97
71)	Isopropylbenzene	15.51	105	11409295	66.04	ug/l	91
73)	Bromoform	15.54	173	905209	102.31	ug/l	97
74)	trans-1,4-Dichloro-2-buten	15.59	53	517849	111.54	ug/l	91
75)	1,1,2,2-Tetrachloroethane	15.83	83	1586143	99.59	ug/l	99
77)	1,2,3-Trichloropropane	16.13	110	463181	103.59	ug/l	99
78)	n-Propylbenzene	16.28	91	13168393	73.70	ug/l	87
79)	Bromobenzene	16.36	156	2564147	99.07	ug/l	97
80)	1,3,5-Trimethylbenzene	16.59	105	9055447	81.92	ug/l	91
81)	2-Chlorotoluene	16.62	91	9025752	83.12	ug/l	87
82)	4-Chlorotoluene	16.71	91	8315064	85.82	ug/l	97

(#) = qualifier out of range (m) = manual integration

SM 10/30/24

Data File : D:\HPCHEM\1\DATA\24J12\RJV306.D Vial: 11
Acq On : 12 Oct 2024 6:07 pm Operator: DNguye
Sample : VO01J1210 10/50 Inst : 01
Misc : 100ppb 8260/500ppb KET-AA/2500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 16:53 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83)	tert-Butylbenzene	17.27	134	2370142	95.13	ug/l	98
84)	1,2,4-Trimethylbenzene	17.34	105	8711231	80.58	ug/l	87
85)	sec-Butylbenzene	17.64	105	10990866	70.61	ug/l	87
86)	p-Isopropyltoluene	17.86	119	9235748	76.06	ug/l	91
87)	1,3-Dichlorobenzene	18.01	146	4585379	88.14	ug/l	96
88)	1,2,3-Trimethylbenzene	18.13	105	7658860	77.82	ug/l	90
89)	1,4-Dichlorobenzene	18.17	146	4360861	84.35	ug/l	97
90)	n-Butylbenzene	18.48	91	8610114	64.80	ug/l	88
91)	1,2-Dichlorobenzene	18.70	146	3673166	86.56	ug/l	96
92)	1,2-Dibromo-3-chloropropan	19.70	157	226710	106.53	ug/l	99
93)	1,2,4-Trichlorobenzene	20.79	180	2586527	90.04	ug/l	98
94)	Hexachlorobutadiene	20.96	225	1600329	86.91	ug/l	98
95)	Naphthalene	21.13	128	3240066	91.62	ug/l	100
96)	1,2,3-Trichlorobenzene	21.46	180	1918099	92.12	ug/l	99

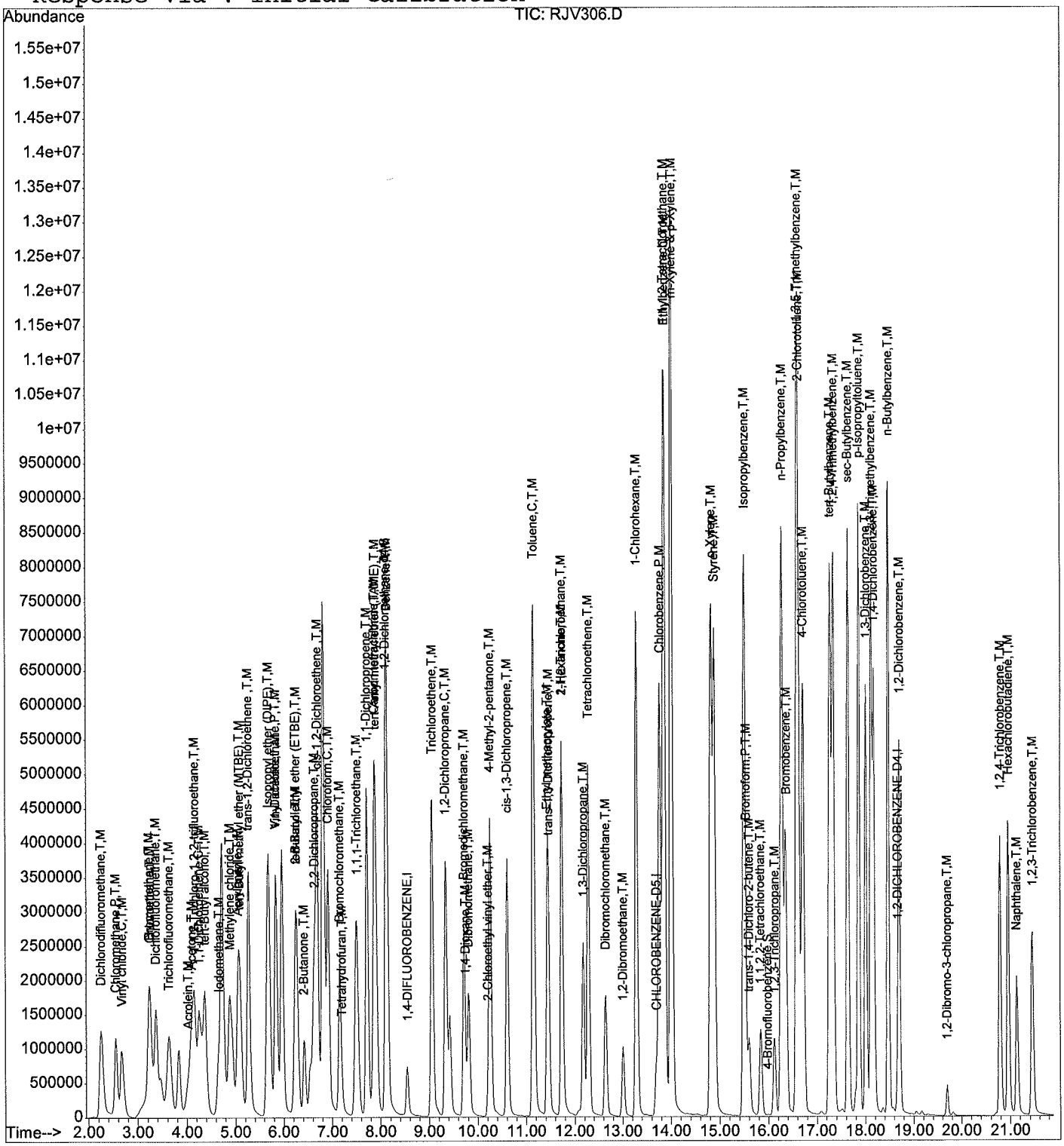
SCM 10/30/24

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV306.D Vial: 11
Acq On : 12 Oct 2024 6:07 pm Operator: DNguye
Sample : VO01J1210 10/50 Inst : 01
Misc : 100ppb 8260/500ppb KET-AA/2500ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 16:53 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :01
IC_Beginning DateTime :10/12/24 13:38
Spike Amount :10 PPB
CC/CV File :RJV309
IC File :RJV302

Column Spec :RXI-624SILMS ID :0.25MM
IC_Ending DateTime :10/12/24 18:07
HPChem Method :VO01J12
Date_Time :10/12/24 19:36

M	IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,4-DIFLUOROBENZENE	10.000	0	1068034	1	1	8.545	8.543	0				
	2	Chlorotrifluoroethylene												
	3	Dichlorodifluoromethane	9.045	-9.5	396817	0.372	0.411	2.247	2.247	11.08				
	4	2-Chloro-1,1,1-trifluoroethane												
	5	Chloromethane	11.560	15.6	382728	0.358	0.310	2.560	2.559	13.65				
	6	Vinyl chloride	11.451	14.5	334350	0.313	0.273	2.702	2.690	13.19				
	7	Bromomethane	10.636	6.4	223947	0.210	0.197	3.243	3.233	7.64				
	8	Chloroethane	11.296	13.0	250004	0.234	0.207	3.243	3.236	8.38				
	9	Dichlorofluoromethane	9.273	-7.3	375995	0.352	0.380	3.362	3.359	13.68				
	10	Trichlorofluoromethane	9.160	-8.4	435121	0.407	0.445	3.628	3.628	9.80				
5	11	Acrolein	58.363	16.7	47656	0.009	0.008	4.028	4.024	7.80				
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	9.639	-3.6	188528	0.177	0.183	4.147	4.148	8.51				
5	13	Acetone	51.858	3.7	204520	0.038	0.037	4.102	4.095	6.03				
	14	1,1-Dichloroethene	9.782	-2.2	487444	0.456	0.467	4.250	4.248	8.08				
25	15	tert-Butyl alcohol	251.012	0.4	247673	0.009	0.009	4.369	4.373	7.42				
	16	Iodomethane	10.700	7.0	452955	0.424	0.396	4.665	4.662	8.42				
	17	Methyl acetate	10.248	2.5	104248	0.098	0.095	4.680	4.680	11.58				
	18	Methylene chloride	10.565	5.6	379499	0.355	0.336	4.887	4.881	8.38				
	19	Carbon disulfide	11.140	11.4	1161131	1.087	0.976	4.902	4.897	10.91				
5	20	Acrylonitrile	57.404	14.8	212664	0.040	0.035	5.050	5.058	10.80				
	21	tert-Butyl methyl ether (MTBE)	10.823	8.2	534080	0.500	0.462	5.079	5.079	11.13				
	22	trans-1,2-Dichloroethene	10.337	3.4	494700	0.463	0.448	5.272	5.264	8.41				
	23	Isopropyl ether (DIPE)	10.730	7.3	1075243	1.007	0.938	5.687	5.682	8.58				
	24	Vinyl acetate	11.035	10.3	353866	0.331	0.300	5.850	5.846	14.72				
	25	1,1-Dichloroethane	10.631	6.3	596611	0.559	0.525	5.850	5.836	8.95				
25	26	2-Butanol	261.905	4.8	216540	0.008	0.008	6.175	6.178	12.15				
	27	tert-Butyl ethyl ether (ETBE)	10.623	6.2	773868	0.725	0.682	6.249	6.248	10.48				
5	28	2-Butanone	52.036	4.1	314700	0.059	0.057	6.427	6.442	7.33				
	29	2,2-Dichloropropane	9.529	-4.7	457430	0.428	0.449	6.634	6.630	9.59				
	30	cis-1,2-Dichloroethene	10.363	3.6	356177	0.333	0.322	6.694	6.692	7.93				
	31	Chloroform	9.844	-1.6	563062	0.527	0.535	6.916	6.910	10.32				
	32	Bromochloromethane	10.587	5.9	225161	0.211	0.199	7.153	7.151	9.24				
	33	Tetrahydrofuran	11.394	13.9	38294	0.036	0.031	7.212	7.208	10.36				
	34	Dibromofluoromethane	10.445	4.4	291419	0.273	0.261	7.227	7.227	2.58				
	35	1,1,1-Trichloroethane	9.542	-4.6	490060	0.459	0.481	7.493	7.495	9.83				
	36	Cyclohexane	9.755	-2.4	516950	0.484	0.496	7.523	7.517	6.28				
	37	2,2,4-Trimethylpentane	10.330	3.3	26488	0.025	0.024	7.508	7.514	5.03				
	38	1,1-Dichloropropene	10.006	0.1	155616	0.146	0.146	7.715	7.717	7.96				
	39	Carbon tetrachloride	9.441	-5.6	367156	0.344	0.364	7.878	7.872	9.79				
	40	tert-Amyl methyl ether (TAME)	10.208	2.1	571608	0.535	0.524	7.893	7.891	8.94				
	41	1,2-Dichloroethane-d4	9.840	-1.6	241828	0.226	0.230	7.967	7.967	3.01				
	42	Benzene	10.239	2.4	1252194	1.172	1.145	8.130	8.124	9.85				
	43	1,2-Dichloroethane	10.114	1.1	275712	0.258	0.255	8.100	8.100	12.95				
	44	Trichloroethene	10.063	0.6	325468	0.305	0.303	9.063	9.063	7.09				
	45	Methylcyclohexane	9.296	-7.0	582682	0.546	0.587	9.152	9.148	4.28				
	46	1,2-Dichloropropane	10.410	4.1	286506	0.268	0.258	9.344	9.343	7.03				
	47	Bromodichloromethane	10.077	0.8	379560	0.355	0.353	9.714	9.715	7.42				
20	48	1,4-Dioxane	191.902	-4.0	20190	0.001	0.001	9.759	9.757	14.16				
	49	Dibromomethane	9.983	-0.2	119339	0.112	0.112	9.803	9.807	10.72				
	50	2-Chloroethyl vinyl ether	9.980	-0.2	20564	0.019	0.016	10.218	10.222	39.29	-0.0022	0.0214		0.9977
5	51	4-Methyl-2-pentanone	56.086	12.2	758438	0.142	0.127	10.248	10.261	12.23				
	52	cis-1,3-Dichloropropene	10.596	6.0	437236	0.409	0.386	10.603	10.606	10.37				
	53	CHLOROBENZENE-D5	10.000	0	813885	1	1	13.698	13.694	0				
	54	Toluene-d8	10.818	8.2	1210901	1.488	1.375	11.017	11.013	6.87				
	55	Toluene	10.583	5.8	1365083	1.677	1.585	11.151	11.148	13.23				
	56	Ethyl methacrylate	11.318	13.2	209124	0.257	0.227	11.432	11.448	13.58				
	57	trans-1,3-Dichloropropene	10.873	8.7	317657	0.390	0.359	11.462	11.468	13.11				
	58	1,1,2-Trichloroethane	10.903	9.0	173128	0.213	0.195	11.728	11.732	12.51				
5	59	2-Hexanone	57.060	14.1	481596	0.118	0.104	11.743	11.745	12.75				
	60	1,3-Dichloropropane	10.660	6.6	318885	0.392	0.368	12.173	12.175	10.91				
	61	Tetrachloroethene	9.664	-3.4	269419	0.331	0.343	12.276	12.277	8.52				
	62	Dibromochloromethane	10.500	5.0	198635	0.244	0.232	12.646	12.647	6.04				
	63	1,2-Dibromoethane	10.649	6.5	160251	0.197	0.185	13.017	13.013	11.07				
	64	1-Chlorohexane	9.738	-2.6	586912	0.721	0.740	13.283	13.284	8.90				
	65	Chlorobenzene	10.460	4.6	807857	0.993	0.949	13.757	13.762	8.50				
	66	1,1,1,2-Tetrachloroethane	10.475	4.8	247002	0.303	0.290	13.846	13.844	11.11				
	67	Ethylbenzene	10.276	2.8	1568373	1.927	1.875	13.861	13.860	13.61				
2	68	m-Xylene & p-Xylene	19.454	-2.7	2345217	1.441	1.481	13.994	13.996	8.36				
	69	o-Xylene	9.900	-1.0	1178660	1.448	1.463	14.809	14.816	13.73				
	70	Styrene	10.219	2.2	889936	1.093	1.070	14.883	14.886	11.33				
	71	Isopropylbenzene	9.644	-3.6	1558818	1.915	1.986	15.490	15.495	12.81				
	72	1,2-DICHLOROBENZENE-D4	10.000	0	318498	1	1	18.674	18.667	0				
	73	Bromoform	9.546	-4.5	87239	0.274	0.246	15.534	15.536	21.91	-0.0066	0.2939		0.9993
	74	trans-1,4-Dichloro-2-butene	10.050	0.5	49251	0.155	0.154	15.608	15.609	13.73				
	75	1,1,2,2-Tetrachloroethane	10.402	4.0	174869	0.549	0.528	15.830	15.835	11.05				
	76	4-Bromofluorobenzene	10.407	4.1	392450	1.232	1.184	15.979	15.981	7.58				
	77	1,2,3-Trichloropropane	10.111	1.1	47720	0.150	0.148	16.126	16.127	10.16				
	78	n-Propylbenzene	10.247	2.5	1932721	6.068	5.921	16.275	16.275	12.69				
	79	Bromobenzene	10.270	2.7	280561	0.881	0.858	16.349	16.361	5.43				
	80	1,3,5-Trimethylbenzene	10.161	1.6	1185583	3.722	3.663	16.571	16.582	9.71				
	81	2-Chlorotoluene	10.169	1.7	1165470	3.659	3.598	16.615	16.616	10.00				
	82	4-Chlorotoluene	9.800	-2.0	1002272	3.147	3.211	16.704	16.706	8.13				
	83	tert-Butylbenzene	9.974	-0.3	262292	0.824	0.826	17.267	17.264	5.73				
	84	1,2,4-Trimethylbenzene	10.316	3.2	1177231	3.696	3.583	17.326	17.334	9.83				
	85	sec-Butylbenzene	10.097	1.0	1658995	5.209	5.158	17.637	17.638	14.02				
	86	p-Isopropyltoluene	10.064	0.6	1289914	4.050	4.024	17.859	17.860	12.06				
	87	1,3-Dichlorobenzene	10.049	0.5	551841	1.733	1.724	18.007	18.008	7.25				
	88	1,2,3-Trimethylbenzene	10.220	2.2	1061628	3.333	3.261	18.111	18.114	11.80				
	89	1,4-Dichlorobenzene	9.666	-3.3	527463	1.656	1.713	18.170	18.171	9.73				
	90	n-Butylbenzene	9.373	-6.3	1314457	4.127	4.400	18.466	18.472	11.64				
	91	1,2-Dichlorobenzene	10.001	0.0	447963	1.406	1.406	18.703	18.704	8.62				
	92	1,2-Dibromo-3-chloropropane	9.942	-0.6	22332	0.070	0.071	19.695	19.701	9.99				
	93	1,2,4-Trichlorobenzene	9.723	-2.8	294827	0.926	0.952	20.791	20.792	5.80				
	94	Hexachlorobutadiene	9.984	-0.2	194057	0.609	0.610	20.954	20.956	8.57				
	95	Naphthalene	9.845	-1.5	367510	1.154	1.172	21.132	21.137	7.49				
	96	1,2,3-Trichlorobenzene	10.198	2.0	224150	0.704	0.690	21.458	21.458	8.36				

Spike Amount = Nominal Amount * M

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	122	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	9.046	9.5	99	0.00
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	11.560	-15.6	128	0.00
6	C,T,M	Vinyl chloride	10.000	11.451	-14.5	129	0.00
7	T,M	Bromomethane	10.000	10.636	-6.4	136	0.00
8	T,M	Chloroethane	10.000	11.296	-13.0	132	0.00
9	T,M	Dichlorofluoromethane	10.000	9.274	7.3	138	0.00
10	T,M	Trichlorofluoromethane	10.000	9.160	8.4	103	0.00
11	T,M	Acrolein	50.000	58.363	-16.7	138	0.02
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	9.640	3.6	122	0.00
13	T,M	Acetone	50.000	51.858	-3.7	123	0.02
14	C,T,M	1,1-Dichloroethene	10.000	9.782	2.2	126	0.00
15	T,M	tert-Butyl alcohol	250.000	251.013	-0.4	116	0.00
16	T,M	Iodomethane	10.000	10.700	-7.0	138	0.00
17	T,M	Methyl acetate	10.000	10.248	-2.5	120	0.00
18	T,M	Methylene chloride	10.000	10.565	-5.6	138	0.00
19	T,M	Carbon disulfide	10.000	11.141	-11.4	130	0.00
20	T,M	Acrylonitrile	50.000	57.404	-14.8	132	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	10.823	-8.2	128	0.00
22	T,M	trans-1,2-Dichloroethene	10.000	10.337	-3.4	134	0.00
23	T,M	Isopropyl ether (DIPE)	10.000	10.731	-7.3	138	0.00
24	T,M	Vinyl acetate	10.000	11.036	-10.4	115	0.00
25	P,T,M	1,1-Dichloroethane	10.000	10.631	-6.3	138	0.01
26	T,M	2-Butanol	250.000	261.906	-4.8	118	0.00
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.623	-6.2	132	0.00
28	T,M	2-Butanone	50.000	52.037	-4.1	120	0.00
29	T,M	2,2-Dichloropropane	10.000	9.529	4.7	122	0.00
30	T,M	cis-1,2-Dichloroethene	10.000	10.363	-3.6	134	0.00
31	C,T,M	Chloroform	10.000	9.845	1.5	131	0.00
32	T,M	Bromochloromethane	10.000	10.587	-5.9	131	0.00
33	T,M	Tetrahydrofuran	10.000	11.394	-13.9	143	0.00
34	S	Dibromofluoromethane	10.000	10.446	-4.5	129	0.00
35	T,M	1,1,1-Trichloroethane	10.000	9.542	4.6	121	0.00
36	T,M	Cyclohexane	10.000	9.756	2.4	117	0.00
37	T,M	2,2,4-Trimethylpentane	10.000	10.331	-3.3	127	-0.01
38	T,M	1,1-Dichloropropene	10.000	10.006	-0.1	127	0.00
39	T,M	Carbon tetrachloride	10.000	9.441	5.6	117	0.00
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.208	-2.1	129	0.00
41	S	1,2-Dichloroethane-d4	10.000	9.841	1.6	116	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.239	-2.4	134	0.00
43	T,M	1,2-Dichloroethane	10.000	10.115	-1.2	116	0.00
44	T,M	Trichloroethene	10.000	10.063	-0.6	131	0.00
45	T,M	Methylcyclohexane	10.000	9.297	7.0	117	0.00
46	C,T,M	1,2-Dichloropropane	10.000	10.410	-4.1	134	0.00
47	T,M	Bromodichloromethane	10.000	10.078	-0.8	126	0.00
48	T,M	1,4-Dioxane	200.000	191.902	4.0	113	0.00
49	T,M	Dibromomethane	10.000	9.983	0.2	120	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	9.981	0.2	137	0.00
51	T,M	4-Methyl-2-pentanone	50.000	56.087	-12.2	119	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	10.596	-6.0	129	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	119	0.00
54	S	Toluene-d8	10.000	10.819	-8.2	132	0.00
55	C,T,M	Toluene	10.000	10.583	-5.8	132	0.00
56	T,M	Ethyl methacrylate	10.000	11.319	-13.2	120	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	10.873	-8.7	121	0.00
58	T,M	1,1,2-Trichloroethane	10.000	10.903	-9.0	124	0.00
59	T,M	2-Hexanone	50.000	57.060	-14.1	118	0.00
60	T,M	1,3-Dichloropropane	10.000	10.661	-6.6	125	0.00
61	T,M	Tetrachloroethene	10.000	9.665	3.4	125	0.00
62	T,M	Dibromochloromethane	10.000	10.500	-5.0	122	0.00
63	T,M	1,2-Dibromoethane	10.000	10.650	-6.5	121	0.00
64	T,M	1-Chlorohexane	10.000	9.739	2.6	125	0.00
65	P,M	Chlorobenzene	10.000	10.461	-4.6	132	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	10.000	10.475	-4.7	129	0.00
67	C,T,M	Ethylbenzene	10.000	10.276	-2.8	128	0.00
68	T,M	m-Xylene & p-Xylene	20.000	19.455	2.7	130	0.00
69	T,M	o-Xylene	10.000	9.900	1.0	110	-0.01
70	T,M	Styrene	10.000	10.220	-2.2	110	0.00
71	T,M	Isopropylbenzene	10.000	9.645	3.6	110	-0.01
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	100	0.00
73	P,T,M	Bromoform	10.000	9.547	4.5	102	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	10.051	-0.5	93	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	10.402	-4.0	95	-0.01
76	S	4-Bromofluorobenzene	10.000	10.407	-4.1	106	0.00
77	T,M	1,2,3-Trichloropropane	10.000	10.112	-1.1	94	0.00
78	T,M	n-Propylbenzene	10.000	10.248	-2.5	108	0.00
79	T,M	Bromobenzene	10.000	10.270	-2.7	109	-0.01
80	T,M	1,3,5-Trimethylbenzene	10.000	10.162	-1.6	109	-0.01

(#) = Out of Range

SM 10/30/24

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	10.169	-1.7	109	0.00
82	T,M	4-Chlorotoluene	10.000	9.800	2.0	106	0.00
83	T,M	tert-Butylbenzene	10.000	9.974	0.3	105	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	10.317	-3.2	109	-0.01
85	T,M	sec-Butylbenzene	10.000	10.098	-1.0	104	0.00
86	T,M	p-Isopropyltoluene	10.000	10.064	-0.6	107	0.00
87	T,M	1,3-Dichlorobenzene	10.000	10.050	-0.5	107	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.220	-2.2	107	0.00
89	T,M	1,4-Dichlorobenzene	10.000	9.666	3.3	106	0.00
90	T,M	n-Butylbenzene	10.000	9.373	6.3	104	-0.01
91	T,M	1,2-Dichlorobenzene	10.000	10.001	-0.0	106	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	9.942	0.6	94	-0.01
93	T,M	1,2,4-Trichlorobenzene	10.000	9.723	2.8	103	0.00
94	T,M	Hexachlorobutadiene	10.000	9.984	0.2	109	0.00
95	T,M	Naphthalene	10.000	9.845	1.5	94	0.00
96	T,M	1,2,3-Trichlorobenzene	10.000	10.199	-2.0	103	0.00

SY 10/30/24

(#) = Out of Range SPCC's out = 0 CCC's out = 0
RJV309.D VO01J12.M Thu Oct 24 09:07:52 2024 Page 3

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	122	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.372	9.5	99	0.00
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.358	-15.5	128	0.00
6	C,T,M	Vinyl chloride	0.273	0.313	-14.7	129	0.00
7	T,M	Bromomethane	0.197	0.210	-6.6	136	0.00
8	T,M	Chloroethane	0.207	0.234	-13.0	132	0.00
9	T,M	Dichlorofluoromethane	0.380	0.352	7.4	138	0.00
10	T,M	Trichlorofluoromethane	0.445	0.407	8.5	103	0.00
11	T,M	Acrolein	0.008	0.009	-12.5	138	0.02
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.177	3.3	122	0.00
13	T,M	Acetone	0.037	0.038	-2.7	123	0.02
14	C,T,M	1,1-Dichloroethene	0.467	0.456	2.4	126	0.00
15	T,M	tert-Butyl alcohol	0.009	0.009	0.0	116	0.00
16	T,M	Iodomethane	0.396	0.424	-7.1	138	0.00
17	T,M	Methyl acetate	0.095	0.098	-3.2	120	0.00
18	T,M	Methylene chloride	0.336	0.355	-5.7	138	0.00
19	T,M	Carbon disulfide	0.976	1.087	-11.4	130	0.00
20	T,M	Acrylonitrile	0.035	0.040	-14.3	132	0.00
21	T,M	tert-Butyl methyl ether (MT	0.462	0.500	-8.2	128	0.00
22	T,M	trans-1,2-Dichloroethene	0.448	0.463	-3.3	134	0.00
23	T,M	Isopropyl ether (DIPE)	0.938	1.007	-7.4	138	0.00
24	T,M	Vinyl acetate	0.300	0.331	-10.3	115	0.00
25	P,T,M	1,1-Dichloroethane	0.525	0.559	-6.5	138	0.01
26	T,M	2-Butanol	0.008	0.008	0.0	118	0.00
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.725	-6.3	132	0.00
28	T,M	2-Butanone	0.057	0.059	-3.5	120	0.00
29	T,M	2,2-Dichloropropane	0.449	0.428	4.7	122	0.00
30	T,M	cis-1,2-Dichloroethene	0.322	0.333	-3.4	134	0.00
31	C,T,M	Chloroform	0.535	0.527	1.5	131	0.00
32	T,M	Bromochloromethane	0.199	0.211	-6.0	131	0.00
33	T,M	Tetrahydrofuran	0.031	0.036	-16.1	143	0.00
34	S	Dibromofluoromethane	0.261	0.273	-4.6	129	0.00
35	T,M	1,1,1-Trichloroethane	0.481	0.459	4.6	121	0.00
36	T,M	Cyclohexane	0.496	0.484	2.4	117	0.00
37	T,M	2,2,4-Trimethylpentane	0.024	0.025	-4.2	127	-0.01
38	T,M	1,1-Dichloropropene	0.146	0.146	0.0	127	0.00
39	T,M	Carbon tetrachloride	0.364	0.344	5.5	117	0.00
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.535	-2.1	129	0.00
41	S	1,2-Dichloroethane-d4	0.230	0.226	1.7	116	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.172	-2.4	134	0.00
43	T,M	1,2-Dichloroethane	0.255	0.258	-1.2	116	0.00
44	T,M	Trichloroethene	0.303	0.305	-0.7	131	0.00
45	T,M	Methylcyclohexane	0.587	0.546	7.0	117	0.00
46	C,T,M	1,2-Dichloropropane	0.258	0.268	-3.9	134	0.00
47	T,M	Bromodichloromethane	0.353	0.355	-0.6	126	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	113	0.00
49	T,M	Dibromomethane	0.112	0.112	0.0	120	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.019	-18.7	137	0.00
51	T,M	4-Methyl-2-pentanone	0.127	0.142	-11.8	119	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.409	-6.0	129	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	119	0.00
54	S	Toluene-d8	1.375	1.488	-8.2	132	0.00
55	C,T,M	Toluene	1.585	1.677	-5.8	132	0.00
56	T,M	Ethyl methacrylate	0.227	0.257	-13.2	120	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.390	-8.6	121	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.213	-9.2	124	0.00
59	T,M	2-Hexanone	0.104	0.118	-13.5	118	0.00
60	T,M	1,3-Dichloropropane	0.368	0.392	-6.5	125	0.00
61	T,M	Tetrachloroethene	0.343	0.331	3.5	125	0.00
62	T,M	Dibromochloromethane	0.232	0.244	-5.2	122	0.00
63	T,M	1,2-Dibromoethane	0.185	0.197	-6.5	121	0.00
64	T,M	1-Chlorohexane	0.740	0.721	2.6	125	0.00
65	P,M	Chlorobenzene	0.949	0.993	-4.6	132	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.303	-4.5	129	0.00
67	C,T,M	Ethylbenzene	1.875	1.927	-2.8	128	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.441	2.7	130	0.00
69	T,M	o-Xylene	1.463	1.448	1.0	110	-0.01
70	T,M	Styrene	1.070	1.093	-2.1	110	0.00
71	T,M	Isopropylbenzene	1.986	1.915	3.6	110	-0.01
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	100	0.00
73	P,T,M	Bromoform	0.246	0.274	-11.4	102	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.155	-0.6	93	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.549	-4.0	95	-0.01
76	S	4-Bromofluorobenzene	1.184	1.232	-4.1	106	0.00
77	T,M	1,2,3-Trichloropropane	0.148	0.150	-1.4	94	0.00
78	T,M	n-Propylbenzene	5.921	6.068	-2.5	108	0.00
79	T,M	Bromobenzene	0.858	0.881	-2.7	109	-0.01
80	T,M	1,3,5-Trimethylbenzene	3.663	3.722	-1.6	109	-0.01

(#) = Out of Range

SM 10/30/24

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.659	-1.7	109	0.00
82	T,M	4-Chlorotoluene	3.211	3.147	2.0	106	0.00
83	T,M	tert-Butylbenzene	0.826	0.824	0.2	105	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.696	-3.2	109	-0.01
85	T,M	sec-Butylbenzene	5.158	5.209	-1.0	104	0.00
86	T,M	p-Isopropyltoluene	4.024	4.050	-0.6	107	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.733	-0.5	107	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.333	-2.2	107	0.00
89	T,M	1,4-Dichlorobenzene	1.713	1.656	3.3	106	0.00
90	T,M	n-Butylbenzene	4.403	4.127	6.3	104	-0.01
91	T,M	1,2-Dichlorobenzene	1.406	1.406	0.0	106	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.070	1.4	94	-0.01
93	T,M	1,2,4-Trichlorobenzene	0.952	0.926	2.7	103	0.00
94	T,M	Hexachlorobutadiene	0.610	0.609	0.2	109	0.00
95	T,M	Naphthalene	1.172	1.154	1.5	94	0.00
96	T,M	1,2,3-Trichlorobenzene	0.690	0.704	-2.0	103	0.00

Su 10/30/24

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:14 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	1068034	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	813885	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	318498	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	291419	10.45	ug/l	0.00
Spiked Amount 10.000			Recovery = 104.50%			
41) 1,2-Dichloroethane-d4	7.97	65	241828	9.84	ug/l	0.00
Spiked Amount 10.000			Recovery = 98.40%			
54) Toluene-d8	11.02	98	1210901	10.82	ug/l	0.00
Spiked Amount 10.000			Recovery = 108.20%			
76) 4-Bromofluorobenzene	15.98	95	392450	10.41	ug/l	0.00
Spiked Amount 10.000			Recovery = 104.10%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.25	85	396817	9.05	ug/l	99
5) Chloromethane	2.56	50	382728	11.56	ug/l	99
6) Vinyl chloride	2.70	62	334350	11.45	ug/l	99
7) Bromomethane	3.24	94	223947	10.64	ug/l	96
8) Chloroethane	3.24	64	250004	11.30	ug/l	98
9) Dichlorofluoromethane	3.36	67	375995	9.27	ug/l	95
10) Trichlorofluoromethane	3.63	101	435121	9.16	ug/l	96
11) Acrolein	4.03	56	47656	58.36	ug/l	90
12) 1,1,2-Trichloro-1,2,2-trif	4.15	151	188528	9.64	ug/l	99
13) Acetone	4.10	43	204520	51.86	ug/l	95
14) 1,1-Dichloroethene	4.25	61	487444	9.78	ug/l	97
15) tert-Butyl alcohol	4.37	59	247673	251.01	ug/l	99
16) Iodomethane	4.66	142	452955	10.70	ug/l	94
17) Methyl acetate	4.68	43	104248	10.25	ug/l	99
18) Methylene chloride	4.89	49	379499	10.57	ug/l	98
19) Carbon disulfide	4.90	76	1161131	11.14	ug/l	100
20) Acrylonitrile	5.05	53	212664	57.40	ug/l	99
21) tert-Butyl methyl ether (M	5.08	73	534080	10.82	ug/l	97
22) trans-1,2-Dichloroethene	5.27	61	494700	10.34	ug/l	98
23) Isopropyl ether (DIPE)	5.69	45	1075243	10.73	ug/l	99
24) Vinyl acetate	5.85	43	353866	11.04	ug/l	98
25) 1,1-Dichloroethane	5.85	63	596611	10.63	ug/l	100
26) 2-Butanol	6.18	45	216540	261.91	ug/l #	83
27) tert-Butyl ethyl ether (ET	6.25	59	773868	10.62	ug/l	100
28) 2-Butanone	6.43	43	314700	52.04	ug/l	96
29) 2,2-Dichloropropane	6.63	77	457430	9.53	ug/l	99
30) cis-1,2-Dichloroethene	6.69	96	356177	10.36	ug/l	99

(#) = qualifier out of range (m) = manual integration
RJV309.D VO01J12.M Thu Oct 24 09:07:40 2024 Page 1

SG 10/30/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:14 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	Chloroform	6.92	83	563062	9.84 ug/l		99
32)	Bromochloromethane	7.15	49	225161	10.59 ug/l		99
33)	Tetrahydrofuran	7.21	42	38294	11.39 ug/l		92
35)	1,1,1-Trichloroethane	7.49	97	490060	9.54 ug/l		100
36)	Cyclohexane	7.52	84	516950	9.76 ug/l		99
37)	2,2,4-Trimethylpentane	7.51	57	26488	10.33 ug/l	#	100
38)	1,1-Dichloropropene	7.72	110	155616	10.01 ug/l		99
39)	Carbon tetrachloride	7.88	119	367156	9.44 ug/l		98
40)	tert-Amyl methyl ether (TA	7.89	73	571608	10.21 ug/l		98
42)	Benzene	8.13	78	1252194	10.24 ug/l		99
43)	1,2-Dichloroethane	8.10	62	275712	10.11 ug/l		99
44)	Trichloroethene	9.06	130	325468	10.06 ug/l		98
45)	Methylcyclohexane	9.15	83	582682	9.30 ug/l		100
46)	1,2-Dichloropropane	9.34	63	286506	10.41 ug/l		95
47)	Bromodichloromethane	9.71	83	379560	10.08 ug/l		100
48)	1,4-Dioxane	9.76	88	20190	191.90 ug/l		98
49)	Dibromomethane	9.80	93	119339	9.98 ug/l		98
50)	2-Chloroethyl vinyl ether	10.22	63	20564	9.98 ug/l		99
51)	4-Methyl-2-pentanone	10.25	43	758438	56.09 ug/l		99
52)	cis-1,3-Dichloropropene	10.60	75	437236	10.60 ug/l		99
55)	Toluene	11.15	91	1365083	10.58 ug/l		99
56)	Ethyl methacrylate	11.43	69	209124	11.32 ug/l		99
57)	trans-1,3-Dichloropropene	11.46	75	317657	10.87 ug/l		98
58)	1,1,2-Trichloroethane	11.73	97	173128	10.90 ug/l		100
59)	2-Hexanone	11.74	43	481596	57.06 ug/l		99
60)	1,3-Dichloropropane	12.17	76	318885	10.66 ug/l		100
61)	Tetrachloroethene	12.28	164	269419	9.66 ug/l		100
62)	Dibromochloromethane	12.65	129	198635	10.50 ug/l		100
63)	1,2-Dibromoethane	13.02	107	160251	10.65 ug/l		100
64)	1-Chlorohexane	13.28	91	586912	9.74 ug/l		100
65)	Chlorobenzene	13.76	112	807857	10.46 ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	247002	10.48 ug/l		99
67)	Ethylbenzene	13.86	91	1568373	10.28 ug/l		98
68)	m-Xylene & p-Xylene	13.99	91	2345217	19.45 ug/l		98
69)	o-Xylene	14.81	91	1178660	9.90 ug/l		100
70)	Styrene	14.88	104	889936	10.22 ug/l		100
71)	Isopropylbenzene	15.49	105	1558818	9.64 ug/l		100
73)	Bromoform	15.53	173	87239	9.55 ug/l		100
74)	trans-1,4-Dichloro-2-buten	15.61	53	49251	10.05 ug/l		92
75)	1,1,2,2-Tetrachloroethane	15.83	83	174869	10.40 ug/l		99
77)	1,2,3-Trichloropropane	16.13	110	47720	10.11 ug/l		99

(#) = qualifier out of range (m) = manual integration

SCA 10/28/24

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:14 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.27	91	1932721	10.25	ug/l	100
79)	Bromobenzene	16.35	156	280561	10.27	ug/l	100
80)	1,3,5-Trimethylbenzene	16.57	105	1185583	10.16	ug/l	100
81)	2-Chlorotoluene	16.62	91	1165470	10.17	ug/l	100
82)	4-Chlorotoluene	16.70	91	1002272	9.80	ug/l	99
83)	tert-Butylbenzene	17.27	134	262292	9.97	ug/l	98
84)	1,2,4-Trimethylbenzene	17.33	105	1177231	10.32	ug/l	99
85)	sec-Butylbenzene	17.64	105	1658995	10.10	ug/l	99
86)	p-Isopropyltoluene	17.86	119	1289914	10.06	ug/l	99
87)	1,3-Dichlorobenzene	18.01	146	551841	10.05	ug/l	100
88)	1,2,3-Trimethylbenzene	18.11	105	1061628	10.22	ug/l	100
89)	1,4-Dichlorobenzene	18.17	146	527463	9.67	ug/l	99
90)	n-Butylbenzene	18.47	91	1314457	9.37	ug/l	100
91)	1,2-Dichlorobenzene	18.70	146	447963	10.00	ug/l	99
92)	1,2-Dibromo-3-chloropropan	19.70	157	22332	9.94	ug/l	95
93)	1,2,4-Trichlorobenzene	20.79	180	294827	9.72	ug/l	98
94)	Hexachlorobutadiene	20.95	225	194057	9.98	ug/l	100
95)	Naphthalene	21.13	128	367510	9.85	ug/l	100
96)	1,2,3-Trichlorobenzene	21.46	180	224150	10.20	ug/l	98

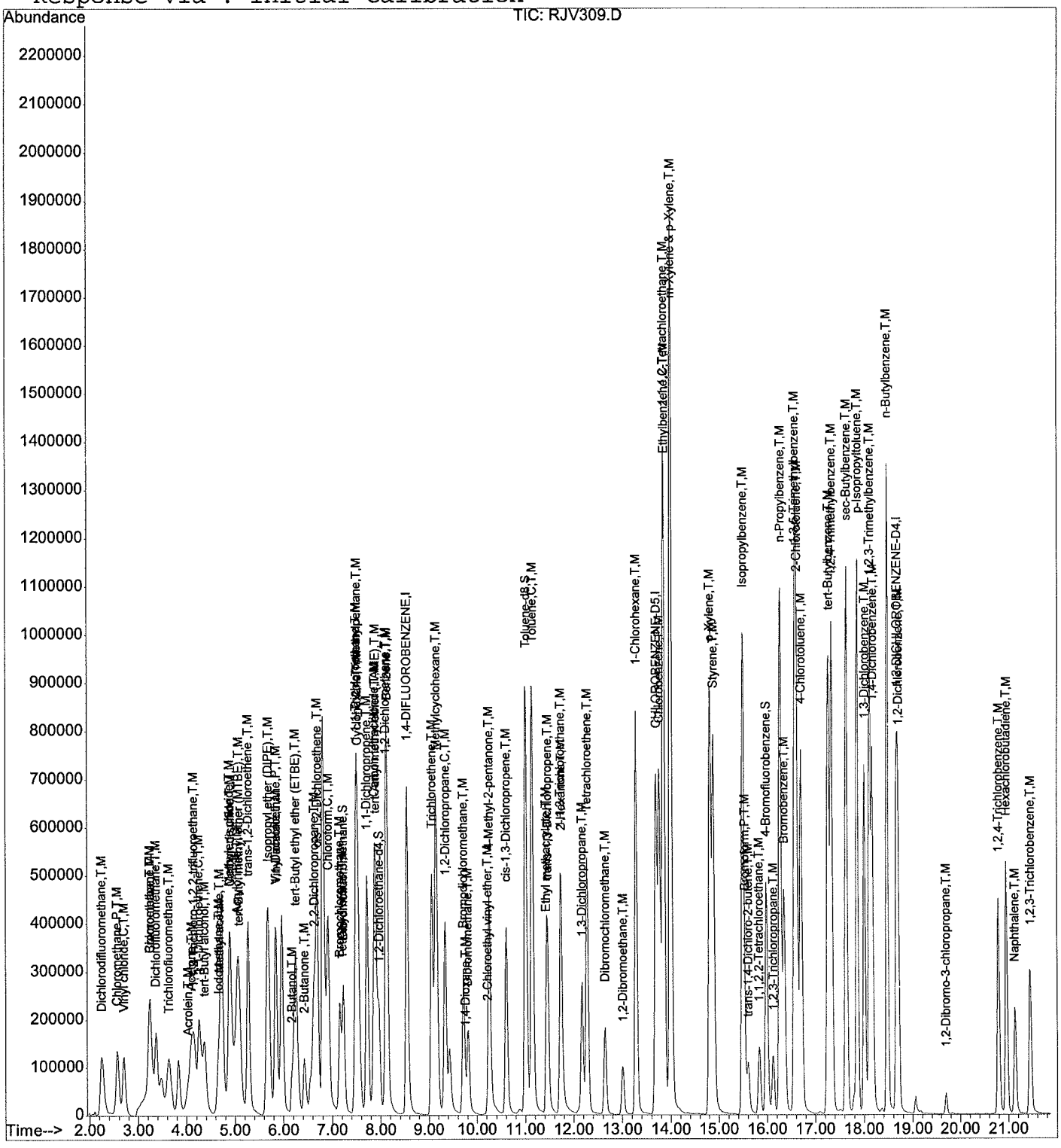
SA 10/30/24

(#) = qualifier out of range (m) = manual integration
RJV309.D VO01J12.M Thu Oct 24 09:07:41 2024 Page 3

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J12\RJV309.D Vial: 14
Acq On : 12 Oct 2024 7:36 pm Operator: DNguye
Sample : IVO01J1201 1.0/5.0 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 23 17:14 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



DAILY CALIBRATIONS

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : TITAN 1-A
Lab Code : EMAX SDG No : 24J169
Lab File ID: RIW541 BFB Injection Date: 10/30/24
Instrument ID: 06 BFB Injection Time: 09:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	18.968
75	30 - 60% of mass 95	44.599
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	5.044
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	62.987
175	5 - 9% of mass 174	3.671(5.83)1
176	95 - 101% % of mass 174	62.817(99.73)1
177	5 - 9% % of mass 176	3.238(5.15)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, Lab QCs and Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD10	CV006J199	RIW542	10/30/24	09:56
2	LCS1W	V006J26L	RIW543	10/30/24	10:23
3	LCD1W	V006J26C	RIW544	10/30/24	10:49
4	MBLK1W	V006J26B	RIW546	10/30/24	11:54
5	T1AMF-TB002_OCT24	24J169-01	RIW562	10/30/24	18:54
6	T1AMF-MW063_OCT24	24J169-02	RIW563	10/30/24	19:21
7	T1AMF-MW064_OCT24	24J169-03	RIW564	10/30/24	19:47
8	T1AMF-MW055_OCT24	24J169-04	RIW565	10/30/24	20:13
9	VSTD10	EV006J199	RIW569	10/30/24	21:59

Revised Report

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: EMAX Laboratories, Inc.
Lab Code: EMAX
Lab File ID: RIW364
Instrument ID: 06

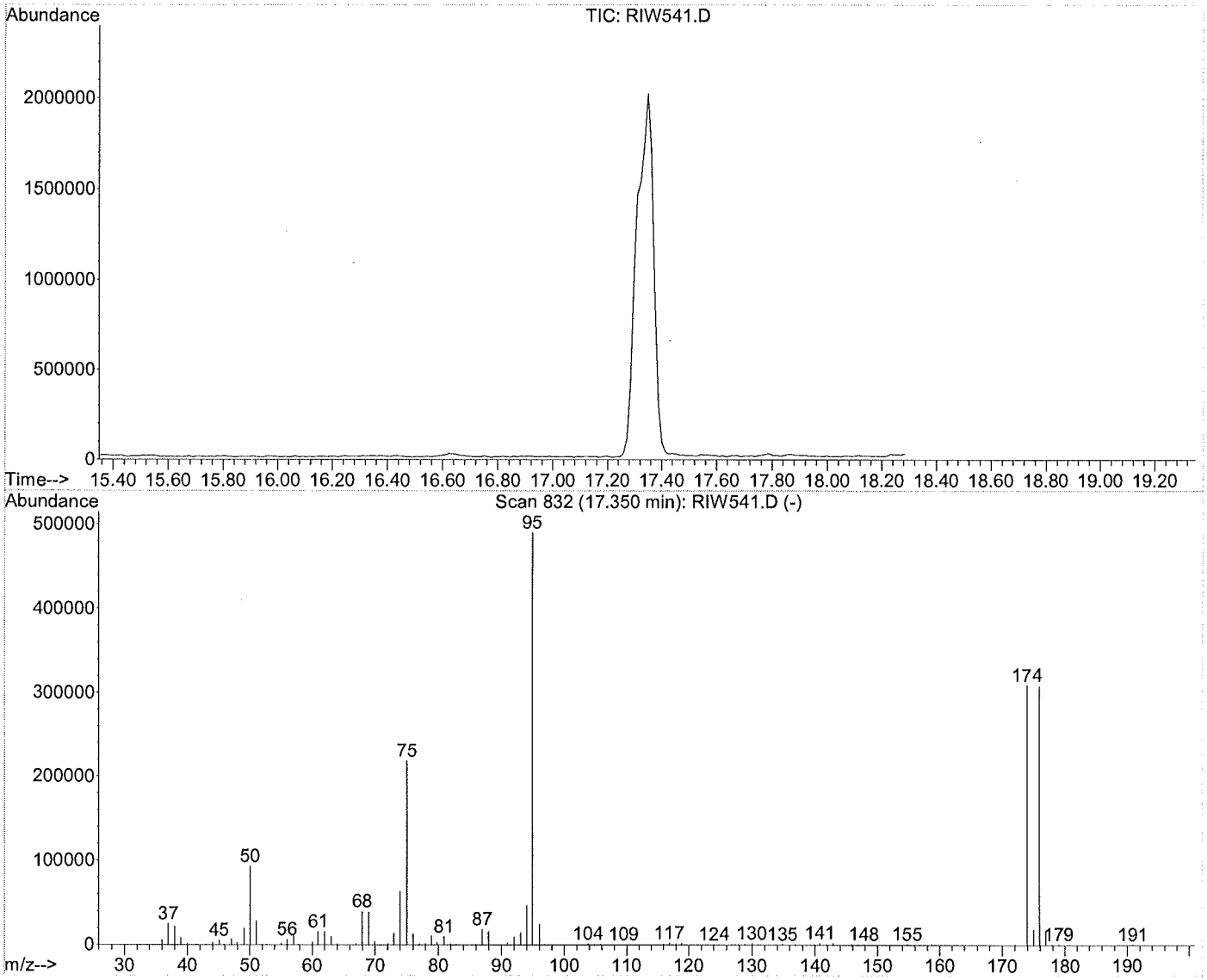
Project: TITAN 1-A
SDG No: 24J169
Date Analyzed: 10/19/24
Time Analyzed: 18:11

	INTERNAL STANDARD (IS)	1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5		1,2-DICHLOROBENZENE-D4	
		Area #	RT #	Area #	RT #	Area #	RT #
	12 HOUR STD	3831558	9.84	2808641	15.34	1084745	19.28
	UPPER LIMIT	7663116	10.0	5617282	15.51	2169490	19.45
	LOWER LIMIT	1915779	9.67	1404321	15.17	542373	19.11
		Area #	RT #	Area #	RT #	Area #	RT #
1	VSTD10	2380191	9.84	1676534	15.33	641931	19.27
2	LCS1W	3982730	9.84	3087360	15.33	1050725	19.27
3	LCD1W	3377723	9.84	2482469	15.32	861465	19.27
4	MBLK1W	4174173	9.84	3136989	15.33	1135377	19.27
5	T1AMF-TB002_OCT24	2574170	9.84	1982552	15.33	691363	19.27
6	T1AMF-MW063_OCT24	2556287	9.84	2022155	15.32	721961	19.27
7	T1AMF-MW064_OCT24	2406180	9.84	1897068	15.33	694192	19.27
8	T1AMF-MW055_OCT24	2395009	9.84	1855830	15.33	652256	19.27
9	VSTD10	2538635	9.84	2032606	15.33	772653	19.27

Area Upper Limit = +100% of ICAL Midpoint IS Area
Area Lower Limit = -50% of ICAL Midpoint IS Area
Retention Time(RT) Upper Limit = +10 seconds of ICAL Midpoint IS RT
Retention Time(RT) Lower Limit = -10 seconds of ICAL Midpoint IS RT

Revised Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW541.D Vial: 1
Acq On : 30 Oct 2024 9:13 am Operator: PMai
Sample : BFB06J26 Inst : 06
Misc : T/CHK Multiplr: 1.00
MS Integration Params: RTE.P
Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260



Spectrum Information: Scan 832

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	92952	PASS
75	95	30	60	44.6	218560	PASS
95	95	100	100	100.0	490055	PASS
96	95	5	9	5.0	24720	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	63.0	308672	PASS
175	174	5	9	5.8	17992	PASS
176	174	95	101	99.7	307840	PASS
177	176	5	9	5.2	15866	PASS

RIW541.D VO06J19.M Wed Oct 30 09:34:03 2024

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW542.D Vial: 2
Acq On : 30 Oct 2024 9:56 am Operator: PMai
Sample : CVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	62	0.00
2	T,M	Dichlorodifluoromethane	10.000	10.633	-6.3	55	0.00
3	P,T,M	Chloromethane	10.000	10.907	-9.1	55	-0.02
4	C,T,M	Vinyl chloride	10.000	10.675	-6.8	51	0.00
5	T,M	Bromomethane	10.000	8.921	10.8	46	0.00
6	T,M	Chloroethane	10.000	9.018	9.8	46	-0.02
7	T,M	Dichlorofluoromethane	10.000	11.071	-10.7	58	0.00
8	T,M	Trichlorofluoromethane	10.000	9.931	0.7	51	0.00
9	T,M	Acrolein	50.000	113.125	-126.3#	125	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	8.334	16.7	42	-0.02
11	T,M	Acetone	50.000	65.987	-32.0#	76	-0.02
12	C,T,M	1,1-Dichloroethene	10.000	11.185	-11.9	58	-0.02
13	T,M	tert-Butyl alcohol	250.000	216.486	13.4	48	-0.02
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	9.605	3.9	60	-0.02
16	T,M	Iodomethane	10.000	8.532	14.7	44	0.00
17	T,M	Allyl chloride	10.000	9.186	8.1	49	0.00
18	T,M	Methylene chloride	10.000	13.787	-37.9#	73	0.00
19	T,M	Carbon disulfide	10.000	7.167	28.3#	35	-0.02
20	T,M	Acrylonitrile	50.000	69.550	-39.1#	74	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	9.829	1.7	51	0.00
22	T,M	trans-1,2-Dichloroethene	10.000	9.322	6.8	50	-0.02
23	T,M	Isopropyl ether (DIPE)	10.000	12.952	-29.5#	66	-0.02
24	T,M	Vinyl acetate	10.000	9.325	6.8	48	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.880	-8.8	58	0.00
26	T,M	2-Butanol	250.000	298.548	-19.4	70	-0.02
27	T,M	tert-Butyl ethyl ether (ETB	10.000	11.208	-12.1	60	0.00
28	T,M	2-Butanone	50.000	63.676	-27.4#	68	-0.02
29	T,M	2,2-Dichloropropane	10.000	14.573	-45.7#	73	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	9.502	5.0	51	-0.02
31	C,T,M	Chloroform	10.000	9.899	1.0	54	-0.02
32	T,M	Bromochloromethane	10.000	8.097	19.0	42	-0.02
33	T,M	Tetrahydrofuran	10.000	8.449	15.5	54	0.00
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	-0.04
35	S	Dibromofluoromethane	10.000	9.821	1.8	48	0.00
36	T,M	1,1,1-Trichloroethane	10.000	11.249	-12.5	60	0.00
37	T,M	Cyclohexane	10.000	15.151	-51.5#	80	0.00
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	0.06
39	T,M	1,1-Dichloropropene	10.000	7.856	21.4#	43	-0.02
40	T,M	Carbon tetrachloride	10.000	10.363	-3.6	54	0.00
41	T,M	tert-Amyl methyl ether (TAM	10.000	9.499	5.0	50	-0.02
42	S	1,2-Dichloroethane-d4	10.000	11.511	-15.1	55	-0.02
43	T,M	1,2-Dichloroethane	10.000	11.128	-11.3	57	0.00
44	T,M	Benzene	10.000	9.702	3.0	50	0.00
45	T,M	Trichloroethene	10.000	7.929	20.7#	41	-0.02
46	T,M	Methylcyclohexane	10.000	14.278	-42.8#	80	-0.02
47	C,T,M	1,2-Dichloropropane	10.000	9.655	3.5	51	0.00
48	T,M	1,4-Dioxane	200.000	112.546	43.7#	34	0.00
49	T,M	Bromodichloromethane	10.000	9.056	9.4	48	0.00
50	T,M	Dibromomethane	10.000	8.462	15.4	45	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW542.D Vial: 2
Acq On : 30 Oct 2024 9:56 am Operator: PMai
Sample : CVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	5.728	42.7#	32	0.00
52	T,M	4-Methyl-2-pentanone	50.000	73.521	-47.0#	74	0.00
53	T,M	cis-1,3-Dichloropropene	10.000	8.674	13.3	44	0.00
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	60	-0.01
55	S	Toluene-d8	10.000	9.565	4.4	44	0.00
56	C,T,M	Toluene	10.000	9.450	5.5	47	0.00
57	T,M	Ethyl methacrylate	10.000	7.308	26.9#	36	0.00
58	T,M	trans-1,3-Dichloropropene	10.000	8.077	19.2	39	-0.03
59	T,M	1,1,2-Trichloroethane	10.000	7.614	23.9#	38	-0.03
60	T,M	2-Hexanone	50.000	66.632	-33.3#	66	0.00
61	T,M	1,3-Dichloropropane	10.000	7.833	21.7#	38	-0.03
62	T,M	Tetrachloroethene	10.000	7.124	28.8#	35	-0.03
63	T,M	Dibromochloromethane	10.000	7.073	29.3#	35	0.00
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	7.193	28.1#	35	0.00
66	T,M	1-Chlorohexane	10.000	8.970	10.3	47	0.00
67	P,T,M	Chlorobenzene	10.000	8.639	13.6	42	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	10.000	9.690	3.1	48	-0.01
69	C,T,M	Ethylbenzene	10.000	9.285	7.1	46	-0.01
70	T,M	m-Xylene & p-Xylene	20.000	18.696	6.5	47	-0.03
71	T,M	o-Xylene	10.000	10.299	-3.0	52	-0.01
72	T,M	Styrene	10.000	8.453	15.5	41	-0.03
73	T,M	Isopropylbenzene	10.000	10.550	-5.5	53	-0.01
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	59	-0.02
75	P,T,M	Bromoform	10.000	5.827	41.7#	30	-0.01
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	9.139	8.6	44	-0.01
77	S	4-Bromofluorobenzene	10.000	8.518	14.8	41	-0.01
78	T,M	1,2,3-Trichloropropane	10.000	7.793	22.1#	40	-0.01
79	T,M	trans-1,4-Dichloro-2-butene	10.000	8.515	14.8	43	0.00
80	T,M	n-Propylbenzene	10.000	10.104	-1.0	50	-0.01
81	T,M	Bromobenzene	10.000	6.818	31.8#	33	-0.01
82	T,M	1,3,5-Trimethylbenzene	10.000	10.584	-5.8	51	-0.01
83	T,M	2-Chlorotoluene	10.000	10.811	-8.1	55	-0.01
84	T,M	4-Chlorotoluene	10.000	9.154	8.5	42	-0.01
85	T,M	tert-Butylbenzene	10.000	9.850	1.5	47	-0.01
86	T,M	1,2,4-Trimethylbenzene	10.000	10.616	-6.2	51	-0.01
87	T,M	sec-Butylbenzene	10.000	11.058	-10.6	54	-0.01
88	T,M	p-Isopropyltoluene	10.000	10.396	-4.0	50	-0.01
89	T,M	1,3-Dichlorobenzene	10.000	8.167	18.3	39	-0.01
90	T,M	1,2,3-Trimethylbenzene	10.000	11.036	-10.4	53	0.00
91	T,M	1,4-Dichlorobenzene	10.000	7.953	20.5#	37	-0.02
92	T,M	n-Butylbenzene	10.000	11.116	-11.2	55	-0.02
93	T,M	1,2-Dichlorobenzene	10.000	8.594	14.1	41	-0.02
94	T,M	1,2-Dibromo-3-chloropropane	10.000	7.560	24.4#	43	0.00
95	T,M	1,2,4-Trichlorobenzene	10.000	10.315	-3.1	52	-0.02
96	T,M	Hexachlorobutadiene	10.000	10.065	-0.6	48	-0.02
97	T,M	Naphthalene	10.000	9.923	0.8	50	-0.02
98	T,M	1,2,3-Trichlorobenzene	10.000	9.773	2.3	49	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW542.D Vial: 2
Acq On : 30 Oct 2024 9:56 am Operator: PMai
Sample : CVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	62	0.00
2	T,M	Dichlorodifluoromethane	0.356	0.378	-6.2	55	0.00
3	P,T,M	Chloromethane	0.346	0.377	-9.0	55	-0.02
4	C,T,M	Vinyl chloride	0.277	0.296	-6.9	51	0.00
5	T,M	Bromomethane	0.252	0.225	10.7	46#	0.00
6	T,M	Chloroethane	0.191	0.172	9.9	46#	-0.02
7	T,M	Dichlorofluoromethane	0.468	0.518	-10.7	58	0.00
8	T,M	Trichlorofluoromethane	0.371	0.369	0.5	51	0.00
9	T,M	Acrolein	0.010	0.023	-130.0#	125	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.177	16.9	42#	-0.02
11	T,M	Acetone	0.031	0.041	-32.3#	76	-0.02
12	C,T,M	1,1-Dichloroethene	0.453	0.506	-11.7	58	-0.02
13	T,M	tert-Butyl alcohol	0.009	0.007	22.2#	48#	-0.02
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.020	4.8	60	-0.02
16	T,M	Iodomethane	0.464	0.396	14.7	44#	0.00
17	T,M	Allyl chloride	0.181	0.166	8.3	49#	0.00
18	T,M	Methylene chloride	0.332	0.458	-38.0#	73	0.00
19	T,M	Carbon disulfide	0.567	0.406	28.4#	35#	-0.02
20	T,M	Acrylonitrile	0.041	0.057	-39.0#	74	0.00
21	T,M	tert-Butyl methyl ether (MT	0.482	0.474	1.7	51	0.00
22	T,M	trans-1,2-Dichloroethene	0.339	0.316	6.8	50	-0.02
23	T,M	Isopropyl ether (DIPE)	0.895	1.159	-29.5#	66	-0.02
24	T,M	Vinyl acetate	0.311	0.290	6.8	48#	-0.02
25	P,T,M	1,1-Dichloroethane	0.504	0.548	-8.7	58	0.00
26	T,M	2-Butanol	0.009	0.010	-11.1	70	-0.02
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.741	-11.9	60	0.00
28	T,M	2-Butanone	0.052	0.066	-26.9#	68	-0.02
29	T,M	2,2-Dichloropropane	0.302	0.440	-45.7#	73	-0.02
30	T,M	cis-1,2-Dichloroethene	0.327	0.311	4.9	51	-0.02
31	C,T,M	Chloroform	0.503	0.498	1.0	54	-0.02
32	T,M	Bromochloromethane	0.139	0.113	18.7	42#	-0.02
33	T,M	Tetrahydrofuran	0.030	0.025	16.7	54	0.00
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	-0.04
35	S	Dibromofluoromethane	0.245	0.241	1.6	48#	0.00
36	T,M	1,1,1-Trichloroethane	0.402	0.452	-12.4	60	0.00
37	T,M	Cyclohexane	0.502	0.760	-51.4#	80	0.00
38	T,M	2,2,4-Trimethylpentane	0.000	0.000	0.0	0#	0.06
39	T,M	1,1-Dichloropropene	0.148	0.116	21.6#	43#	-0.02
40	T,M	Carbon tetrachloride	0.327	0.339	-3.7	54	0.00
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.532	5.0	50#	-0.02
42	S	1,2-Dichloroethane-d4	0.170	0.195	-14.7	55	-0.02
43	T,M	1,2-Dichloroethane	0.204	0.227	-11.3	57	0.00
44	T,M	Benzene	1.159	1.124	3.0	50#	0.00
45	T,M	Trichloroethene	0.306	0.243	20.6#	41#	-0.02
46	T,M	Methylcyclohexane	0.624	0.892	-42.9#	80	-0.02
47	C,T,M	1,2-Dichloropropane	0.252	0.243	3.6	51	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	34#	0.00
49	T,M	Bromodichloromethane	0.326	0.295	9.5	48#	0.00
50	T,M	Dibromomethane	0.122	0.103	15.6	45#	-0.02

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24J30\RIW542.D Vial: 2
Acq On : 30 Oct 2024 9:56 am Operator: PMai
Sample : CVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.083	0.047	43.4#	32#	0.00
52	T,M	4-Methyl-2-pentanone	0.139	0.205	-47.5#	74	0.00
53	T,M	cis-1,3-Dichloropropene	0.391	0.339	13.3	44#	0.00
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	60	-0.01
55	S	Toluene-d8	1.382	1.322	4.3	44#	0.00
56	C,T,M	Toluene	1.660	1.568	5.5	47#	0.00
57	T,M	Ethyl methacrylate	0.269	0.197	26.8#	36#	0.00
58	T,M	trans-1,3-Dichloropropene	0.390	0.315	19.2	39#	-0.03
59	T,M	1,1,2-Trichloroethane	0.209	0.159	23.9#	38#	-0.03
60	T,M	2-Hexanone	0.118	0.158	-33.9#	66	0.00
61	T,M	1,3-Dichloropropane	0.372	0.291	21.8#	38#	-0.03
62	T,M	Tetrachloroethene	0.352	0.251	28.7#	35#	-0.03
63	T,M	Dibromochloromethane	0.258	0.183	29.1#	35#	0.00
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.137	28.3#	35#	0.00
66	T,M	1-Chlorohexane	0.676	0.607	10.2	47#	0.00
67	P,T,M	Chlorobenzene	0.907	0.784	13.6	42#	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.297	2.9	48#	-0.01
69	C,T,M	Ethylbenzene	1.791	1.663	7.1	46#	-0.01
70	T,M	m-Xylene & p-Xylene	1.341	1.253	6.6	47#	-0.03
71	T,M	o-Xylene	1.351	1.391	-3.0	52	-0.01
72	T,M	Styrene	0.966	0.816	15.5	41#	-0.03
73	T,M	Isopropylbenzene	1.752	1.848	-5.5	53	-0.01
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	59	-0.02
75	P,T,M	Bromoform	0.312	0.182	41.7#	30#	-0.01
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.497	8.6	44#	-0.01
77	S	4-Bromofluorobenzene	1.116	0.951	14.8	41#	-0.01
78	T,M	1,2,3-Trichloropropane	0.139	0.108	22.3#	40#	-0.01
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.110	14.7	43#	0.00
80	T,M	n-Propylbenzene	5.578	5.636	-1.0	50#	-0.01
81	T,M	Bromobenzene	0.891	0.607	31.9#	33#	-0.01
82	T,M	1,3,5-Trimethylbenzene	3.477	3.680	-5.8	51	-0.01
83	T,M	2-Chlorotoluene	3.364	3.637	-8.1	55	-0.01
84	T,M	4-Chlorotoluene	2.888	2.644	8.4	42#	-0.01
85	T,M	tert-Butylbenzene	0.774	0.762	1.6	47#	-0.01
86	T,M	1,2,4-Trimethylbenzene	3.400	3.610	-6.2	51	-0.01
87	T,M	sec-Butylbenzene	4.841	5.353	-10.6	54	-0.01
88	T,M	p-Isopropyltoluene	3.830	3.981	-3.9	50	-0.01
89	T,M	1,3-Dichlorobenzene	1.733	1.415	18.3	39#	-0.01
90	T,M	1,2,3-Trimethylbenzene	3.005	3.316	-10.3	53	0.00
91	T,M	1,4-Dichlorobenzene	1.673	1.330	20.5#	37#	-0.02
92	T,M	n-Butylbenzene	3.769	4.189	-11.1	55	-0.02
93	T,M	1,2-Dichlorobenzene	1.413	1.214	14.1	41#	-0.02
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.064	24.7#	43#	0.00
95	T,M	1,2,4-Trichlorobenzene	0.820	0.845	-3.0	52	-0.02
96	T,M	Hexachlorobutadiene	0.489	0.492	-0.6	48#	-0.02
97	T,M	Naphthalene	1.149	1.140	0.8	50	-0.02
98	T,M	1,2,3-Trichlorobenzene	0.618	0.604	2.3	49#	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J30\RIW542.D Vial: 2
Acq On : 30 Oct 2024 9:56 am Operator: PMai
Sample : CVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Jan 28 15:29 2025 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	2380191	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.33	117	1676534	10.00	ug/l	-0.01
74) 1,2-DICHLOROBENZENE-D4	19.27	152	641931	10.00	ug/l	-0.02
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	572575	9.82	ug/l	0.00
Spiked Amount 10.000			Recovery = 98.20%			
42) 1,2-Dichloroethane-d4	8.94	65	464619	11.51	ug/l	-0.02
Spiked Amount 10.000			Recovery = 115.10%			
55) Toluene-d8	12.69	98	2216306	9.57	ug/l	0.00
Spiked Amount 10.000			Recovery = 95.70%			
77) 4-Bromofluorobenzene	17.36	95	610522	8.52	ug/l	-0.01
Spiked Amount 10.000			Recovery = 85.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.57	85	899951	10.63	ug/l	97
3) Chloromethane	1.78	50	897442	10.91	ug/l	97
4) Vinyl chloride	1.90	62	704358	10.68	ug/l	94
5) Bromomethane	2.34	94	535450	8.92	ug/l	94
6) Chloroethane	2.39	64	409682	9.02	ug/l	90
7) Dichlorofluoromethane	2.45	67	1232533	11.07	ug/l	99
8) Trichlorofluoromethane	2.69	101	877599	9.93	ug/l	96
9) Acrolein	3.20	56	278738	113.13	ug/l	96
10) 1,1,2-Trichloro-1,2,2-trif	3.24	151	422264	8.33	ug/l	98
11) Acetone	3.28	43	486083	65.99	ug/l	91
12) 1,1-Dichloroethene	3.43	61	1205113	11.18	ug/l	91
13) tert-Butyl alcohol	3.57	59	440779	216.49	ug/l	98
15) Methyl acetate	3.95	74	48082	9.61	ug/l	100
16) Iodomethane	3.87	142	942350	8.53	ug/l	89
17) Allyl chloride	3.99	76	396222	9.19	ug/l	99
18) Methylene chloride	4.16	49	1089587	13.79	ug/l	80
19) Carbon disulfide	4.12	76	967001	7.17	ug/l	96
20) Acrylonitrile	4.39	53	683500	69.55	ug/l	98
21) tert-Butyl methyl ether (M	4.43	73	1128828	9.83	ug/l	95
22) trans-1,2-Dichloroethene	4.64	96	752182	9.32	ug/l	100
23) Isopropyl ether (DIPE)	5.31	45	2759484	12.95	ug/l	84
24) Vinyl acetate	5.54	43	689399	9.33	ug/l	95
25) 1,1-Dichloroethane	5.48	63	1305496	10.88	ug/l	96
26) 2-Butanol	6.02	45	609533	298.55	ug/l	89
27) tert-Butyl ethyl ether (ET	6.21	59	1764700	11.21	ug/l	84
28) 2-Butanone	6.49	43	790903	63.68	ug/l	88
29) 2,2-Dichloropropane	6.74	77	1047770	14.57	ug/l	94
30) cis-1,2-Dichloroethene	6.86	96	739903	9.50	ug/l	98
31) Chloroform	7.26	83	1186082	9.90	ug/l	95
32) Bromochloromethane	7.64	130	268607	8.10	ug/l	96
33) Tetrahydrofuran	7.76	42	60124	8.45	ug/l	80
36) 1,1,1-Trichloroethane	8.20	97	1075627	11.25	ug/l	95
37) Cyclohexane	8.18	84	1809853	15.15	ug/l	98
39) 1,1-Dichloropropene	8.56	110	276695	7.86	ug/l	96
40) Carbon tetrachloride	8.75	119	807784	10.36	ug/l	98
41) tert-Amyl methyl ether (TA	8.92	73	1266297	9.50	ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J30\RIW542.D Vial: 2
Acq On : 30 Oct 2024 9:56 am Operator: PMai
Sample : CVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Jan 28 15:29 2025 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	539981	11.13	ug/l	97
44)	Benzene	9.13	78	2676047	9.70	ug/l	98
45)	Trichloroethene	10.40	130	577667	7.93	ug/l	90
46)	Methylcyclohexane	10.49	83	2122320	14.28	ug/l	87
47)	1,2-Dichloropropane	10.78	63	579456	9.65	ug/l	96
48)	1,4-Dioxane	11.33	88	24506	112.55	ug/l	70
49)	Bromodichloromethane	11.22	83	702864	9.06	ug/l	97
50)	Dibromomethane	11.29	93	245550	8.46	ug/l	87
51)	2-Chloroethyl vinyl ether	11.93	63	112530	5.73	ug/l	95
52)	4-Methyl-2-pentanone	11.98	43	2435120	73.52	ug/l	90
53)	cis-1,3-Dichloropropene	12.29	75	806735	8.67	ug/l	85
56)	Toluene	12.84	91	2629576	9.45	ug/l	98
57)	Ethyl methacrylate	13.28	69	329807	7.31	ug/l	72
58)	trans-1,3-Dichloropropene	13.21	75	528505	8.08	ug/l	72
59)	1,1,2-Trichloroethane	13.46	97	266424	7.61	ug/l	97
60)	2-Hexanone	13.55	43	1320912	66.63	ug/l	87
61)	1,3-Dichloropropane	13.91	76	488312	7.83	ug/l	97
62)	Tetrachloroethene	13.97	164	420863	7.12	ug/l	95
63)	Dibromochloromethane	14.32	129	306059	7.07	ug/l	98
65)	1,2-Dibromoethane	14.66	107	229825	7.19	ug/l	95
66)	1-Chlorohexane	15.02	91	1017134	8.97	ug/l	88
67)	Chlorobenzene	15.39	112	1313926	8.64	ug/l	95
68)	1,1,1,2-Tetrachloroethane	15.48	131	497618	9.69	ug/l	98
69)	Ethylbenzene	15.49	91	2787593	9.28	ug/l	96
70)	m-Xylene & p-Xylene	15.62	91	4202502	18.70	ug/l	93
71)	o-Xylene	16.35	91	2332829	10.30	ug/l	93
72)	Styrene	16.42	104	1368641	8.45	ug/l	96
73)	Isopropylbenzene	16.97	105	3098078	10.55	ug/l	96
75)	Bromoform	16.96	173	116767	5.83	ug/l	97
76)	1,1,2,2-Tetrachloroethane	17.26	83	318994	9.14	ug/l	93
78)	1,2,3-Trichloropropane	17.48	110	69635	7.79	ug/l	96
79)	trans-1,4-Dichloro-2-buten	17.60	53	70480	8.52	ug/l	82
80)	n-Propylbenzene	17.58	91	3618006	10.10	ug/l	94
81)	Bromobenzene	17.62	156	389794	6.82	ug/l	99
82)	1,3,5-Trimethylbenzene	17.80	105	2362188	10.58	ug/l	96
83)	2-Chlorotoluene	17.82	91	2334655	10.81	ug/l	86
84)	4-Chlorotoluene	17.88	91	1697252	9.15	ug/l	96
85)	tert-Butylbenzene	18.27	134	489119	9.85	ug/l	95
86)	1,2,4-Trimethylbenzene	18.31	105	2317109	10.62	ug/l	94
87)	sec-Butylbenzene	18.52	105	3436430	11.06	ug/l	94
88)	p-Isopropyltoluene	18.69	119	2555835	10.40	ug/l	94
89)	1,3-Dichlorobenzene	18.78	146	908563	8.17	ug/l	97
90)	1,2,3-Trimethylbenzene	18.87	105	2128838	11.04	ug/l	95
91)	1,4-Dichlorobenzene	18.91	146	853872	7.95	ug/l	96
92)	n-Butylbenzene	19.13	91	2689172	11.12	ug/l	96
93)	1,2-Dichlorobenzene	19.30	146	779428	8.59	ug/l	99
94)	1,2-Dibromo-3-chloropropan	20.07	157	41227	7.56	ug/l	84
95)	1,2,4-Trichlorobenzene	20.89	180	542670	10.31	ug/l	97
96)	Hexachlorobutadiene	21.02	225	315732	10.07	ug/l	96
97)	Naphthalene	21.15	128	731772	9.92	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J30\RIW542.D Vial: 2
Acq On : 30 Oct 2024 9:56 am Operator: PMai
Sample : CVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Jan 28 15:29 2025 Quant Results File: VO06J19.RES

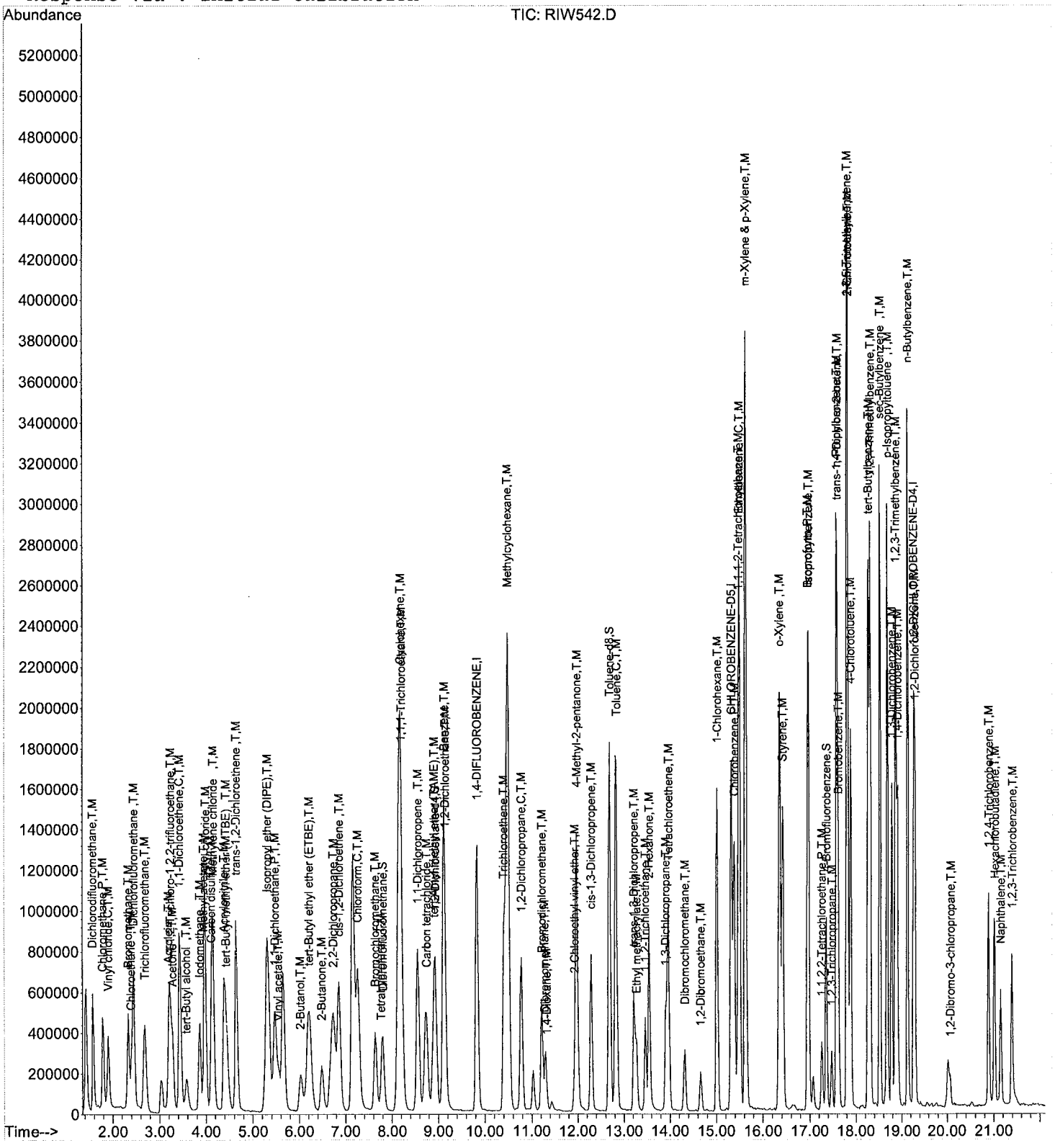
Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	1,2,3-Trichlorobenzene	21.40	180	387561	9.77	ug/l	97

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24J30\RIW542.D Vial: 2
Acq On : 30 Oct 2024 9:56 am Operator: PMai
Sample : CVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Jan 28 15:29 2025 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 14 16:47:13 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW569.D Vial: 29
Acq On : 30 Oct 2024 9:59 pm Operator: PMai
Sample : EVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Oct 24 19:13:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	66	0.00
2	T,M	Dichlorodifluoromethane	10.000	7.629	23.7#	42	0.00
3	P,T,M	Chloromethane	10.000	8.436	15.6	45	-0.02
4	C,T,M	Vinyl chloride	10.000	5.914	40.9#	30	0.00
5	T,M	Bromomethane	10.000	6.177	38.2#	34	0.00
6	T,M	Chloroethane	10.000	6.559	34.4#	35	0.00
7	T,M	Dichlorofluoromethane	10.000	7.858	21.4#	44	0.00
8	T,M	Trichlorofluoromethane	10.000	7.654	23.5#	42	0.00
9	T,M	Acrolein	50.000	81.702	-63.4#	96	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	5.269	47.3#	29	0.00
11	T,M	Acetone	50.000	60.740	-21.5#	75	-0.02
12	C,T,M	1,1-Dichloroethene	10.000	8.464	15.4	47	-0.02
13	T,M	tert-Butyl alcohol	250.000	164.114	34.4#	43	-0.02
14	T,M	Acetonitrile	-1.000	0.000	0.0	0	0.00
15	T,M	Methyl acetate	10.000	8.945	10.5	60	-0.02
16	T,M	Iodomethane	10.000	6.692	33.1#	37	0.00
17	T,M	Allyl chloride	10.000	7.381	26.2#	39	-0.02
18	T,M	Methylene chloride	10.000	11.990	-19.9	68	0.00
19	T,M	Carbon disulfide	10.000	7.167	28.3#	38	-0.02
20	T,M	Acrylonitrile	50.000	60.682	-21.4#	69	0.00
21	T,M	tert-Butyl methyl ether (MT	10.000	8.845	11.5	49	0.00
22	T,M	trans-1,2-Dichloroethene	10.000	7.385	26.2#	42	-0.02
23	T,M	Isopropyl ether (DIPE)	10.000	12.780	-27.8#	70	-0.02
24	T,M	Vinyl acetate	10.000	10.272	-2.7	56	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	9.797	2.0	55	-0.02
26	T,M	2-Butanol	250.000	310.895	-24.4#	76	-0.02
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.318	-3.2	59	0.00
28	T,M	2-Butanone	50.000	72.340	-44.7#	82	-0.02
29	T,M	2,2-Dichloropropane	10.000	8.054	19.5	43	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	8.071	19.3	46	-0.02
31	C,T,M	Chloroform	10.000	9.352	6.5	55	-0.02
32	T,M	Bromochloromethane	10.000	6.852	31.5#	39	-0.02
33	T,M	Tetrahydrofuran	10.000	9.411	5.9	65	0.00
34	T,M	tert-Amyl alcohol	50.000	0.000	100.0#	0	-0.04
35	S	Dibromofluoromethane	10.000	9.291	7.1	48	0.00
36	T,M	1,1,1-Trichloroethane	10.000	9.275	7.2	52	0.00
37	T,M	Cyclohexane	10.000	10.356	-3.6	58	0.00
38	T,M	2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	-8.56#
39	T,M	1,1-Dichloropropene	10.000	6.800	32.0#	40	-0.02
40	T,M	Carbon tetrachloride	10.000	8.517	14.8	47	-0.02
41	T,M	tert-Amyl methyl ether (TAM	10.000	9.184	8.2	52	-0.02
42	S	1,2-Dichloroethane-d4	10.000	12.269	-22.7#	62	-0.02
43	T,M	1,2-Dichloroethane	10.000	12.705	-27.1#	69	0.00
44	T,M	Benzene	10.000	9.438	5.6	51	0.00
45	T,M	Trichloroethene	10.000	7.805	22.0#	43	0.00
46	T,M	Methylcyclohexane	10.000	10.233	-2.3	61	-0.02
47	C,T,M	1,2-Dichloropropane	10.000	10.347	-3.5	58	0.00
48	T,M	1,4-Dioxane	200.000	142.725	28.6#	45	0.02
49	T,M	Bromodichloromethane	10.000	10.449	-4.5	59	0.00
50	T,M	Dibromomethane	10.000	8.878	11.2	51	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW569.D Vial: 29
Acq On : 30 Oct 2024 9:59 pm Operator: PMai
Sample : EVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Oct 24 19:13:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	10.000	8.391	16.1	51	0.00
52	T,M	4-Methyl-2-pentanone	50.000	87.258	-74.5#	93	0.00
53	T,M	cis-1,3-Dichloropropene	10.000	10.058	-0.6	54	0.00
54	I	CHLOROBENZENE-D5	10.000	10.000	0.0	72	-0.01
55	S	Toluene-d8	10.000	9.124	8.8	51	0.00
56	C,T,M	Toluene	10.000	8.744	12.6	53	0.00
57	T,M	Ethyl methacrylate	10.000	9.099	9.0	54	0.00
58	T,M	trans-1,3-Dichloropropene	10.000	9.518	4.8	56	-0.03
59	T,M	1,1,2-Trichloroethane	10.000	8.397	16.0	51	-0.03
60	T,M	2-Hexanone	50.000	79.874	-59.7#	95	0.00
61	T,M	1,3-Dichloropropane	10.000	9.408	5.9	56	0.00
62	T,M	Tetrachloroethene	10.000	6.298	37.0#	38	-0.03
63	T,M	Dibromochloromethane	10.000	8.125	18.8	49	0.00
64	T,M	2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
65	T,M	1,2-Dibromoethane	10.000	8.366	16.3	49	0.00
66	T,M	1-Chlorohexane	10.000	8.497	15.0	57	0.00
67	P,T,M	Chlorobenzene	10.000	8.875	11.3	52	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	10.000	8.392	16.1	50	-0.01
69	C,T,M	Ethylbenzene	10.000	9.082	9.2	54	-0.01
70	T,M	m-Xylene & p-Xylene	20.000	18.485	7.6	56	-0.01
71	T,M	o-Xylene	10.000	9.362	6.4	57	-0.01
72	T,M	Styrene	10.000	9.448	5.5	55	-0.01
73	T,M	Isopropylbenzene	10.000	8.848	11.5	53	-0.01
74	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	71	-0.01
75	P,T,M	Bromoform	10.000	7.178	28.2#	44	-0.01
76	P,T,M	1,1,2,2-Tetrachloroethane	10.000	8.563	14.4	54	-0.01
77	S	4-Bromofluorobenzene	10.000	9.887	1.1	54	-0.01
78	T,M	1,2,3-Trichloropropane	10.000	8.424	15.8	55	-0.01
79	T,M	trans-1,4-Dichloro-2-butene	10.000	9.692	3.1	59	0.00
80	T,M	n-Propylbenzene	10.000	9.363	6.4	55	-0.01
81	T,M	Bromobenzene	10.000	7.495	25.1#	43	-0.01
82	T,M	1,3,5-Trimethylbenzene	10.000	9.363	6.4	55	-0.01
83	T,M	2-Chlorotoluene	10.000	10.185	-1.9	62	-0.01
84	T,M	4-Chlorotoluene	10.000	9.688	3.1	54	-0.01
85	T,M	tert-Butylbenzene	10.000	8.198	18.0	48	-0.01
86	T,M	1,2,4-Trimethylbenzene	10.000	9.644	3.6	56	-0.01
87	T,M	sec-Butylbenzene	10.000	9.197	8.0	53	-0.01
88	T,M	p-Isopropyltoluene	10.000	8.758	12.4	51	-0.01
89	T,M	1,3-Dichlorobenzene	10.000	8.637	13.6	49	-0.01
90	T,M	1,2,3-Trimethylbenzene	10.000	9.942	0.6	58	0.00
91	T,M	1,4-Dichlorobenzene	10.000	8.637	13.6	49	-0.01
92	T,M	n-Butylbenzene	10.000	9.148	8.5	54	-0.01
93	T,M	1,2-Dichlorobenzene	10.000	8.762	12.4	51	-0.01
94	T,M	1,2-Dibromo-3-chloropropane	10.000	6.313	36.9#	44	0.00
95	T,M	1,2,4-Trichlorobenzene	10.000	7.650	23.5#	46	-0.01
96	T,M	Hexachlorobutadiene	10.000	8.687	13.1	43	-0.01
97	T,M	Naphthalene	10.000	8.067	19.3	49	0.00
98	T,M	1,2,3-Trichlorobenzene	10.000	7.178	28.2#	44	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW569.D Vial: 29
Acq On : 30 Oct 2024 9:59 pm Operator: PMai
Sample : EVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Oct 24 19:13:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	66	0.00
2	T,M	Dichlorodifluoromethane	0.356	0.271	23.9#	42#	0.00
3	P,T,M	Chloromethane	0.346	0.292	15.6	45#	-0.02
4	C,T,M	Vinyl chloride	0.275	0.163	40.7#	30#	0.00
5	T,M	Bromomethane	0.252	0.156	38.1#	34#	0.00
6	T,M	Chloroethane	0.191	0.125	34.6#	35#	0.00
7	T,M	Dichlorofluoromethane	0.468	0.368	21.4#	44#	0.00
8	T,M	Trichlorofluoromethane	0.371	0.284	23.5#	42#	0.00
9	T,M	Acrolein	0.010	0.017	-70.0#	96	0.00
10	T,M	1,1,2-Trichloro-1,2,2-trifl	0.213	0.112	47.4#	29#	0.00
11	T,M	Acetone	0.031	0.038	-22.6#	75	-0.02
12	C,T,M	1,1-Dichloroethene	0.453	0.383	15.5	47#	-0.02
13	T,M	tert-Butyl alcohol	0.008	0.006	25.0#	43#	-0.02
14	T,M	Acetonitrile	0.000	0.000	0.0	0#	0.00
15	T,M	Methyl acetate	0.021	0.019	9.5	60	-0.02
16	T,M	Iodomethane	0.464	0.310	33.2#	37#	0.00
17	T,M	Allyl chloride	0.568	0.419	26.2#	39#	-0.02
18	T,M	Methylene chloride	0.332	0.398	-19.9	68	0.00
19	T,M	Carbon disulfide	0.567	0.406	28.4#	38#	-0.02
20	T,M	Acrylonitrile	0.041	0.050	-22.0#	69	0.00
21	T,M	tert-Butyl methyl ether (MT	0.482	0.427	11.4	49#	0.00
22	T,M	trans-1,2-Dichloroethene	0.339	0.245	27.7#	42#	-0.02
23	T,M	Isopropyl ether (DIPE)	0.895	1.144	-27.8#	70	-0.02
24	T,M	Vinyl acetate	0.311	0.319	-2.6	56	-0.02
25	P,T,M	1,1-Dichloroethane	0.504	0.494	2.0	55	-0.02
26	T,M	2-Butanol	0.008	0.010	-25.0#	76	-0.02
27	T,M	tert-Butyl ethyl ether (ETB	0.662	0.683	-3.2	59	0.00
28	T,M	2-Butanone	0.052	0.075	-44.2#	82	-0.02
29	T,M	2,2-Dichloropropane	0.302	0.243	19.5	43#	-0.02
30	T,M	cis-1,2-Dichloroethene	0.327	0.264	19.3	46#	-0.02
31	C,T,M	Chloroform	0.503	0.471	6.4	55	-0.02
32	T,M	Bromochloromethane	0.139	0.097	30.2#	39#	-0.02
33	T,M	Tetrahydrofuran	0.030	0.028	6.7	65	0.00
34	T,M	tert-Amyl alcohol	0.000	0.001	0.0	0#	-0.04
35	S	Dibromofluoromethane	0.245	0.228	6.9	48#	0.00
36	T,M	1,1,1-Trichloroethane	0.402	0.373	7.2	52	0.00
37	T,M	Cyclohexane	0.502	0.520	-3.6	58	0.00
38	T,M	2,2,4-Trimethylpentane	0.000	0.000	0.0	0#	-8.56#
39	T,M	1,1-Dichloropropene	0.148	0.101	31.8#	40#	-0.02
40	T,M	Carbon tetrachloride	0.327	0.279	14.7	47#	-0.02
41	T,M	tert-Amyl methyl ether (TAM	0.560	0.521	7.0	52	-0.02
42	S	1,2-Dichloroethane-d4	0.170	0.208	-22.4#	62	-0.02
43	T,M	1,2-Dichloroethane	0.204	0.259	-27.0#	69	0.00
44	T,M	Benzene	1.159	1.094	5.6	51	0.00
45	T,M	Trichloroethene	0.306	0.239	21.9#	43#	0.00
46	T,M	Methylcyclohexane	0.624	0.639	-2.4	61	-0.02
47	C,T,M	1,2-Dichloropropane	0.252	0.261	-3.6	58	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	45#	0.02
49	T,M	Bromodichloromethane	0.326	0.341	-4.6	59	0.00
50	T,M	Dibromomethane	0.122	0.108	11.5	51	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW569.D Vial: 29
Acq On : 30 Oct 2024 9:59 pm Operator: PMai
Sample : EVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Oct 24 19:13:50 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
51	T,M	2-Chloroethyl vinyl ether	0.078	0.071	9.0	51	0.00
52	T,M	4-Methyl-2-pentanone	0.139	0.243	-74.8#	93	0.00
53	T,M	cis-1,3-Dichloropropene	0.391	0.393	-0.5	54	0.00
54	I	CHLOROBENZENE-D5	1.000	1.000	0.0	72	-0.01
55	S	Toluene-d8	1.382	1.261	8.8	51	0.00
56	C,T,M	Toluene	1.663	1.454	12.6	53	0.00
57	T,M	Ethyl methacrylate	0.269	0.245	8.9	54	0.00
58	T,M	trans-1,3-Dichloropropene	0.390	0.371	4.9	56	-0.03
59	T,M	1,1,2-Trichloroethane	0.209	0.175	16.3	51	-0.03
60	T,M	2-Hexanone	0.118	0.189	-60.2#	95	0.00
61	T,M	1,3-Dichloropropane	0.372	0.350	5.9	56	0.00
62	T,M	Tetrachloroethene	0.352	0.222	36.9#	38#	-0.03
63	T,M	Dibromochloromethane	0.258	0.210	18.6	49#	0.00
64	T,M	2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
65	T,M	1,2-Dibromoethane	0.191	0.159	16.8	49#	0.00
66	T,M	1-Chlorohexane	0.676	0.603	10.8	57	0.00
67	P,T,M	Chlorobenzene	0.907	0.805	11.2	52	-0.01
68	T,M	1,1,1,2-Tetrachloroethane	0.306	0.257	16.0	50	-0.01
69	C,T,M	Ethylbenzene	1.781	1.617	9.2	54	-0.01
70	T,M	m-Xylene & p-Xylene	1.341	1.239	7.6	56	-0.01
71	T,M	o-Xylene	1.333	1.248	6.4	57	-0.01
72	T,M	Styrene	0.966	0.912	5.6	55	-0.01
73	T,M	Isopropylbenzene	1.752	1.550	11.5	53	-0.01
74	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	71	-0.01
75	P,T,M	Bromoform	0.312	0.224	28.2#	44#	-0.01
76	P,T,M	1,1,2,2-Tetrachloroethane	0.544	0.501	7.9	54	-0.01
77	S	4-Bromofluorobenzene	1.067	1.055	1.1	54	-0.01
78	T,M	1,2,3-Trichloropropane	0.139	0.123	11.5	55	-0.01
79	T,M	trans-1,4-Dichloro-2-butene	0.129	0.125	3.1	59	0.00
80	T,M	n-Propylbenzene	5.564	5.209	6.4	55	-0.01
81	T,M	Bromobenzene	0.891	0.668	25.0#	43#	-0.01
82	T,M	1,3,5-Trimethylbenzene	3.492	3.269	6.4	55	-0.01
83	T,M	2-Chlorotoluene	3.364	3.426	-1.8	62	-0.01
84	T,M	4-Chlorotoluene	2.888	2.798	3.1	54	-0.01
85	T,M	tert-Butylbenzene	0.774	0.634	18.1	48#	-0.01
86	T,M	1,2,4-Trimethylbenzene	3.399	3.278	3.6	56	-0.01
87	T,M	sec-Butylbenzene	4.791	4.406	8.0	53	-0.01
88	T,M	p-Isopropyltoluene	3.830	3.354	12.4	51	-0.01
89	T,M	1,3-Dichlorobenzene	1.673	1.445	13.6	49#	-0.01
90	T,M	1,2,3-Trimethylbenzene	3.005	2.988	0.6	58	0.00
91	T,M	1,4-Dichlorobenzene	1.673	1.445	13.6	49#	-0.01
92	T,M	n-Butylbenzene	3.769	3.447	8.5	54	-0.01
93	T,M	1,2-Dichlorobenzene	1.413	1.238	12.4	51	-0.01
94	T,M	1,2-Dibromo-3-chloropropane	0.085	0.054	36.5#	44#	0.00
95	T,M	1,2,4-Trichlorobenzene	0.820	0.627	23.5#	46#	-0.01
96	T,M	Hexachlorobutadiene	0.498	0.361	27.5#	43#	-0.01
97	T,M	Naphthalene	1.149	0.927	19.3	49#	0.00
98	T,M	1,2,3-Trichlorobenzene	0.618	0.443	28.3#	44#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J30\RIW569.D Vial: 29
Acq On : 30 Oct 2024 9:59 pm Operator: PMai
Sample : EVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 22:21 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Oct 24 19:13:50 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.84	114	2538635	10.00	ug/l	0.00
54) CHLOROBENZENE-D5	15.33	117	2032606	10.00	ug/l	-0.01
74) 1,2-DICHLOROBENZENE-D4	19.27	152	772653	10.00	ug/l	-0.01
System Monitoring Compounds						
35) Dibromofluoromethane	7.81	111	577703	9.29	ug/l	0.00
Spiked Amount 10.000			Recovery = 92.90%			
42) 1,2-Dichloroethane-d4	8.94	65	528176	12.27	ug/l	-0.02
Spiked Amount 10.000			Recovery = 122.70%			
55) Toluene-d8	12.69	98	2563036	9.12	ug/l	0.00
Spiked Amount 10.000			Recovery = 91.20%			
77) 4-Bromofluorobenzene	17.36	95	814919	9.89	ug/l	-0.01
Spiked Amount 10.000			Recovery = 98.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.57	85	688710	7.63	ug/l	97
3) Chloromethane	1.78	50	740361	8.44	ug/l	97
4) Vinyl chloride	1.90	62	413604	5.91	ug/l	98
5) Bromomethane	2.34	94	395437	6.18	ug/l	95
6) Chloroethane	2.41	64	317809	6.56	ug/l	89
7) Dichlorofluoromethane	2.45	67	933156	7.86	ug/l	96
8) Trichlorofluoromethane	2.69	101	721445	7.65	ug/l	96
9) Acrolein	3.19	56	214712	81.70	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	3.26	151	284761	5.27	ug/l	99
11) Acetone	3.28	43	477214	60.74	ug/l	84
12) 1,1-Dichloroethene	3.43	61	972638	8.46	ug/l	87
13) tert-Butyl alcohol	3.57	59	390425	164.11	ug/l	96
15) Methyl acetate	3.95	74	47759	8.95	ug/l	90
16) Iodomethane	3.87	142	788246	6.69	ug/l	88
17) Allyl chloride	4.12	76	1064299	7.38	ug/l	97
18) Methylene chloride	4.16	49	1010628	11.99	ug/l	77
19) Carbon disulfide	4.12	76	1031459	7.17	ug/l	96
20) Acrylonitrile	4.39	53	636047	60.68	ug/l	94
21) tert-Butyl methyl ether (M	4.43	73	1083423	8.85	ug/l	96
22) trans-1,2-Dichloroethene	4.64	96	622080	7.39	ug/l	98
23) Isopropyl ether (DIPE)	5.31	45	2904026	12.78	ug/l	83
24) Vinyl acetate	5.54	43	809941	10.27	ug/l	92
25) 1,1-Dichloroethane	5.46	63	1253768	9.80	ug/l	96
26) 2-Butanol	6.02	45	660696	310.89	ug/l	90
27) tert-Butyl ethyl ether (ET	6.21	59	1732860	10.32	ug/l	87
28) 2-Butanone	6.49	43	958328	72.34	ug/l	85
29) 2,2-Dichloropropane	6.74	77	617640	8.05	ug/l	95
30) cis-1,2-Dichloroethene	6.86	96	670348	8.07	ug/l	98
31) Chloroform	7.26	83	1195212	9.35	ug/l	95
32) Bromochloromethane	7.64	130	245206	6.85	ug/l	100
33) Tetrahydrofuran	7.76	42	71428	9.41	ug/l	79
36) 1,1,1-Trichloroethane	8.20	97	945879	9.28	ug/l	94
37) Cyclohexane	8.18	84	1319414	10.36	ug/l	100
39) 1,1-Dichloropropene	8.56	110	255464	6.80	ug/l	100
40) Carbon tetrachloride	8.73	119	708073	8.52	ug/l	99
41) tert-Amyl methyl ether (TA	8.92	73	1322563	9.18	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J30\RIW569.D Vial: 29
Acq On : 30 Oct 2024 9:59 pm Operator: PMai
Sample : EVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 22:21 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Oct 24 19:13:50 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloroethane	9.15	62	657548	12.71	ug/l	94
44)	Benzene	9.13	78	2776475	9.44	ug/l	97
45)	Trichloroethene	10.43	130	606505	7.81	ug/l	90
46)	Methylcyclohexane	10.49	83	1622325	10.23	ug/l	87
47)	1,2-Dichloropropane	10.78	63	662320	10.35	ug/l	99
48)	1,4-Dioxane	11.35	88	33146	142.72	ug/l	99
49)	Bromodichloromethane	11.22	83	864901	10.45	ug/l	92
50)	Dibromomethane	11.31	93	274752	8.88	ug/l	89
51)	2-Chloroethyl vinyl ether	11.93	63	180529	8.39	ug/l	100
52)	4-Methyl-2-pentanone	11.98	43	3082464	87.26	ug/l	88
53)	cis-1,3-Dichloropropene	12.29	75	997705	10.06	ug/l	81
56)	Toluene	12.84	91	2955628	8.74	ug/l	99
57)	Ethyl methacrylate	13.28	69	497840	9.10	ug/l	70
58)	trans-1,3-Dichloropropene	13.21	75	755061	9.52	ug/l	63
59)	1,1,2-Trichloroethane	13.46	97	356232	8.40	ug/l	96
60)	2-Hexanone	13.55	43	1919737	79.87	ug/l	85
61)	1,3-Dichloropropane	13.93	76	710995	9.41	ug/l	97
62)	Tetrachloroethene	13.97	164	451073	6.30	ug/l	93
63)	Dibromochloromethane	14.32	129	426266	8.13	ug/l	99
65)	1,2-Dibromoethane	14.66	107	324066	8.37	ug/l	98
66)	1-Chlorohexane	15.02	91	1226652	8.50	ug/l	85
67)	Chlorobenzene	15.39	112	1636461	8.88	ug/l	97
68)	1,1,1,2-Tetrachloroethane	15.48	131	522524	8.39	ug/l	98
69)	Ethylbenzene	15.50	91	3286947	9.08	ug/l	95
70)	m-Xylene & p-Xylene	15.64	91	5037486	18.48	ug/l	93
71)	o-Xylene	16.35	91	2535778	9.36	ug/l	93
72)	Styrene	16.43	104	1854559	9.45	ug/l	97
73)	Isopropylbenzene	16.97	105	3150312	8.85	ug/l	96
75)	Bromoform	16.96	173	173128	7.18	ug/l	95
76)	1,1,2,2-Tetrachloroethane	17.26	83	387181	8.56	ug/l	97
78)	1,2,3-Trichloropropane	17.48	110	95295	8.42	ug/l	87
79)	trans-1,4-Dichloro-2-buten	17.60	53	96556	9.69	ug/l	79
80)	n-Propylbenzene	17.58	91	4025085	9.36	ug/l	94
81)	Bromobenzene	17.62	156	515762	7.50	ug/l	93
82)	1,3,5-Trimethylbenzene	17.80	105	2526110	9.36	ug/l	93
83)	2-Chlorotoluene	17.82	91	2647252	10.18	ug/l	86
84)	4-Chlorotoluene	17.88	91	2162136	9.69	ug/l	98
85)	tert-Butylbenzene	18.27	134	489972	8.20	ug/l	86
86)	1,2,4-Trimethylbenzene	18.31	105	2533004	9.64	ug/l	90
87)	sec-Butylbenzene	18.52	105	3404486	9.20	ug/l	94
88)	p-Isopropyltoluene	18.69	119	2591592	8.76	ug/l	96
89)	1,3-Dichlorobenzene	18.91	146	1116206	8.64	ug/l	97
90)	1,2,3-Trimethylbenzene	18.87	105	2308383	9.94	ug/l	95
91)	1,4-Dichlorobenzene	18.91	146	1116206	8.64	ug/l	97
92)	n-Butylbenzene	19.13	91	2663704	9.15	ug/l	96
93)	1,2-Dichlorobenzene	19.30	146	956493	8.76	ug/l	98
94)	1,2-Dibromo-3-chloropropan	20.08	157	41435	6.31	ug/l	98
95)	1,2,4-Trichlorobenzene	20.89	180	484443	7.65	ug/l	98
96)	Hexachlorobutadiene	21.02	225	278994	8.69	ug/l	99
97)	Naphthalene	21.17	128	716026	8.07	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24J30\RIW569.D Vial: 29
Acq On : 30 Oct 2024 9:59 pm Operator: PMai
Sample : EVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 22:21 2024 Quant Results File: VO06J19.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Oct 24 19:13:50 2024
Response via : Initial Calibration
DataAcq Meth : VO06J19

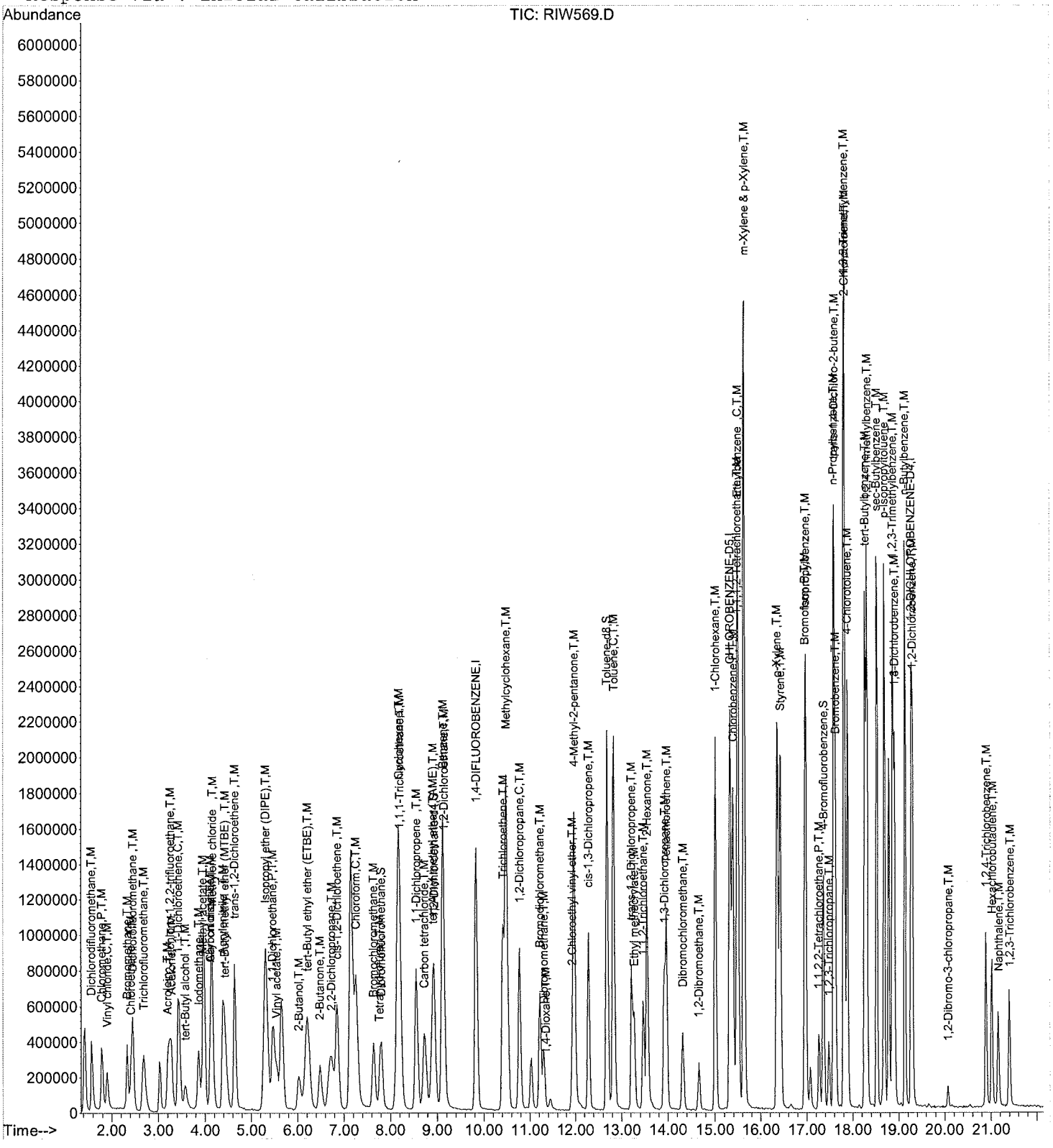
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
98)	1,2,3-Trichlorobenzene	21.41	180	342645	7.18	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24J30\RIW569.D Vial: 29
Acq On : 30 Oct 2024 9:59 pm Operator: PMai
Sample : EVO06J199 Inst : 06
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Oct 30 22:21 2024 Quant Results File: VO06J19.RES

Method : D:\HPCHEM\1\METHODS\VO06J19.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Oct 24 19:13:50 2024
Response via : Initial Calibration



FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : EMAX Laboratories, Inc. Project : TITAN 1-A
Lab Code : EMAX SDG No : 24J169
Lab File ID: RKV026 BFB Injection Date: 11/04/24
Instrument ID: 01 BFB Injection Time: 16:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15 - 40% of mass 95	19.152
75	30 - 60% of mass 95	53.469
95	Base Peak, 100% relative abundance	100.000
96	5 - 9% of mass 95	6.354
173	Less than 2% of mass 174	0.000(0)1
174	Greater than 50% of mass 95	72.497
175	5 - 9% of mass 174	5.540(7.64)1
176	95 - 101% % of mass 174	72.029(99.35)1
177	5 - 9% % of mass 176	4.924(6.84)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, Lab QCs and Standards:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD10	CVO01J1220	RKV027	11/04/24	17:28
2	LCS2W	VO01K02L	RKV028	11/04/24	17:58
3	LCD2W	VO01K02C	RKV029	11/04/24	18:27
4	MBLK2W	VO01K02B	RKV031	11/04/24	19:26
5	T1AMF-MW054_OCT24	24J169-05	RKV032	11/04/24	19:55
6	T1AMF-MW019_OCT24	24J169-06	RKV033	11/04/24	20:24
7	T1AMF-MW016_OCT24	24J169-07	RKV034	11/04/24	20:53
8	T1AMF-MW016_OCT24_FD	24J169-08	RKV035	11/04/24	21:22
9	T1AMF-MW011_OCT24	24J169-09	RKV036	11/04/24	21:51
10	T1AMF-MW052_OCT24	24J169-10	RKV037	11/04/24	22:20
11	VSTD10	EVO01J1220	RKV050	11/05/24	04:33
12	VSTD10	EVO01J12201	RKV051	11/05/24	05:03
13	VSTD10	EVO01J12202	RKV052	11/05/24	05:31

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: EMAX Laboratories, Inc.
Lab Code: EMAX
Lab File ID: RJV302
Instrument ID: 01

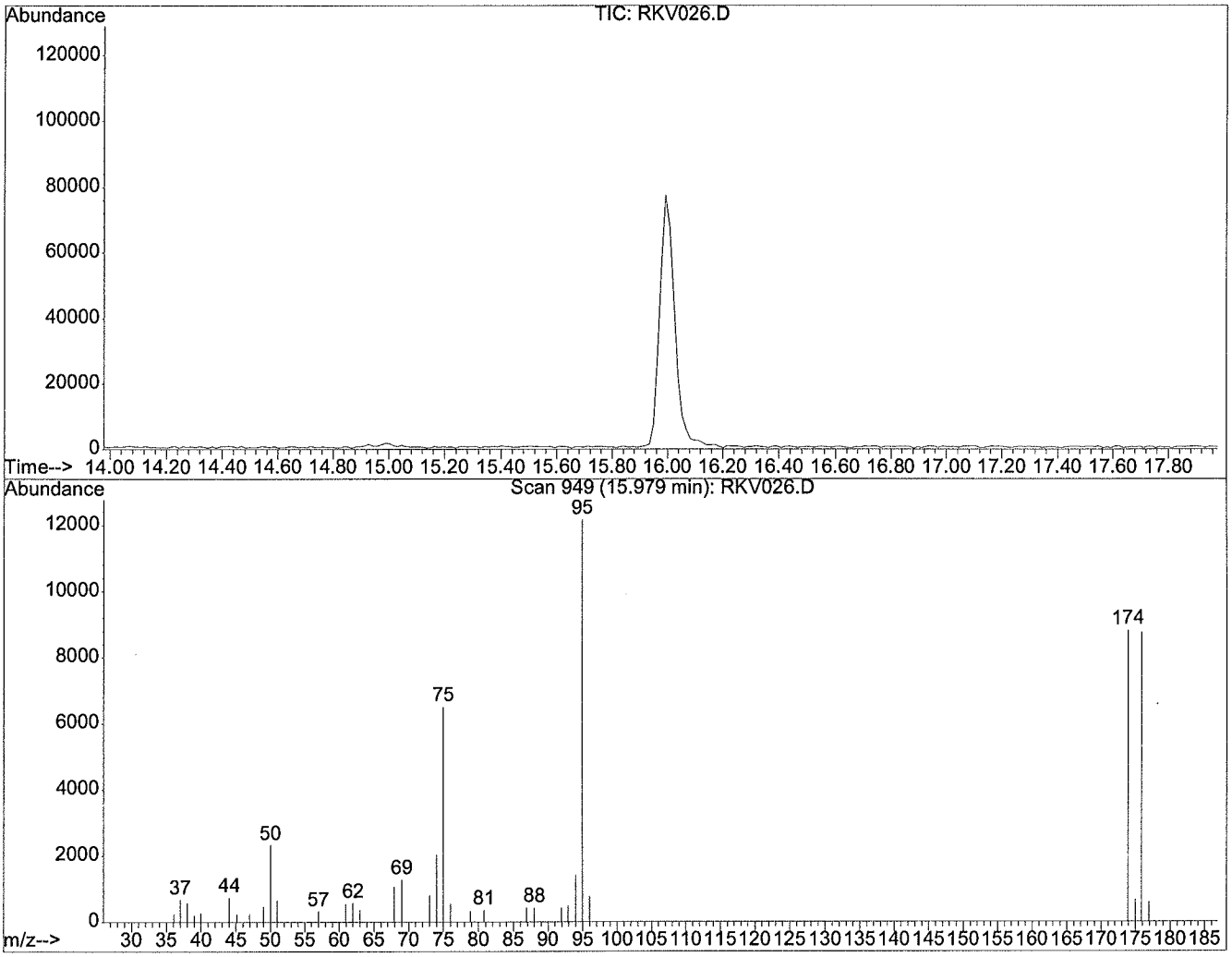
Project: TITAN 1-A
SDG No: 24J169
Date Analyzed: 10/12/24
Time Analyzed: 16:08

	INTERNAL STANDARD (IS)	1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5		1,2-DICHLOROBENZENE-D4	
		Area #	RT #	Area #	RT #	Area #	RT #
	12 HOUR STD	878286	8.54	685675	13.70	317109	18.67
	UPPER LIMIT	1756572	8.71	1371350	13.87	634218	18.84
	LOWER LIMIT	439143	8.37	342838	13.53	158555	18.50
		Area #	RT #	Area #	RT #	Area #	RT #
1	VSTD10	764276	8.53	592084	13.70	332956	18.67
2	LCS2W	947008	8.53	785265	13.68	362450	18.67
3	LCD2W	893647	8.54	696021	13.70	351155	18.67
4	MBLK2W	957179	8.54	709126	13.70	274730	18.67
5	T1AMF-MW054_OCT24	834831	8.53	623459	13.70	243520	18.67
6	T1AMF-MW019_OCT24	826496	8.53	601687	13.70	241469	18.67
7	T1AMF-MW016_OCT24	702259	8.53	526886	13.68	214116	18.66
8	T1AMF-MW016_OCT24_FD	756805	8.53	567358	13.68	227918	18.66
9	T1AMF-MW011_OCT24	729581	8.53	550585	13.70	224377	18.67
10	T1AMF-MW052_OCT24	752749	8.53	554536	13.68	224206	18.67
11	VSTD10	639576	8.55	494080	13.70	325146	18.67
12	VSTD10	686559	8.54	523389	13.70	326183	18.67
13	VSTD10	1095441	8.54	830324	13.70	340306	18.67

Area Upper Limit = +100% of ICAL Midpoint IS Area
Area Lower Limit = -50% of ICAL Midpoint IS Area
Retention Time(RT) Upper Limit = +10 seconds of ICAL Midpoint IS RT
Retention Time(RT) Lower Limit = -10 seconds of ICAL Midpoint IS RT

Data File : D:\HPCHEM\1\DATA\24K04\RKV026.D
Acq On : 4 Nov 2024 4:49 pm
Sample : BFB01K02
Misc : 25mL
MS Integration Params: RTE.P
Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls

Vial: 1
Operator: DNguye/CLi
Inst : 01
Multiplr: 1.00



Spectrum Information: Scan 949 -Scan 943 cc 11/5/24

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	2330	PASS
75	95	30	60	53.5	6505	PASS
95	95	100	100	100.0	12166	PASS
96	95	5	9	6.4	773	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	72.5	8820	PASS
175	174	5	9	7.6	674	PASS
176	174	95	101	99.4	8763	PASS
177	176	5	9	6.8	599	PASS

RKV026.D VO01J12.M Tue Nov 05 10:05:44 2024

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	87	-0.01
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	8.591	14.1	67	-0.08
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	8.508	14.9	67	-0.10
6	C,T,M	Vinyl chloride	10.000	9.916	0.8	80	-0.08
7	T,M	Bromomethane	10.000	11.969	-19.7	109	-0.09
8	T,M	Chloroethane	10.000	10.082	-0.8	84	-0.03
9	T,M	Dichlorofluoromethane	10.000	11.496	-15.0	123	-0.08
10	T,M	Trichlorofluoromethane	10.000	10.732	-7.3	87	-0.09
11	T,M	Acrolein	50.000	63.037	-26.1#	107	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	12.710	-27.1#	115	-0.06
13	T,M	Acetone	50.000	55.928	-11.9	95	-0.05
14	C,T,M	1,1-Dichloroethene	10.000	9.769	2.3	90	-0.05
15	T,M	tert-Butyl alcohol	250.000	268.568	-7.4	89	-0.05
16	T,M	Iodomethane	10.000	11.785	-17.9	109	-0.05
17	T,M	Methyl acetate	10.000	9.991	0.1	84	-0.03
18	T,M	Methylene chloride	10.000	10.202	-2.0	96	-0.05
19	T,M	Carbon disulfide	10.000	10.438	-4.4	87	-0.05
20	T,M	Acrylonitrile	50.000	57.667	-15.3	95	-0.03
21	T,M	tert-Butyl methyl ether (MT	10.000	11.258	-12.6	95	-0.05
22	T,M	trans-1,2-Dichloroethene	10.000	9.890	1.1	92	-0.05
23	T,M	Isopropyl ether (DIPE)	10.000	9.617	3.8	89	-0.05
24	T,M	Vinyl acetate	10.000	9.777	2.2	73	-0.03
25	P,T,M	1,1-Dichloroethane	10.000	10.517	-5.2	98	-0.03
26	T,M	2-Butanol	250.000	306.779	-22.7#	99	-0.05
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.331	-3.3	92	-0.03
28	T,M	2-Butanone	50.000	50.247	-0.5	83	-0.03
29	T,M	2,2-Dichloropropane	10.000	11.401	-14.0	104	-0.03
30	T,M	cis-1,2-Dichloroethene	10.000	10.768	-7.7	99	-0.03
31	C,T,M	Chloroform	10.000	10.711	-7.1	102	-0.03
32	T,M	Bromochloromethane	10.000	9.716	2.8	86	-0.02
33	T,M	Tetrahydrofuran	10.000	9.957	0.4	89	-0.03
34	S	Dibromofluoromethane	10.000	10.758	-7.6	95	-0.02
35	T,M	1,1,1-Trichloroethane	10.000	10.650	-6.5	96	-0.02
36	T,M	Cyclohexane	10.000	9.642	3.6	83	-0.03
37	T,M	2,2,4-Trimethylpentane	10.000	9.202	8.0	81	-0.03
38	T,M	1,1-Dichloropropene	10.000	10.256	-2.6	93	-0.02
39	T,M	Carbon tetrachloride	10.000	11.078	-10.8	99	-0.03
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.582	-5.8	95	-0.03
41	S	1,2-Dichloroethane-d4	10.000	9.813	1.9	83	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.563	-5.6	99	-0.03
43	T,M	1,2-Dichloroethane	10.000	10.754	-7.5	88	-0.02
44	T,M	Trichloroethene	10.000	10.961	-9.6	102	-0.01
45	T,M	Methylcyclohexane	10.000	9.444	5.6	85	-0.01
46	C,T,M	1,2-Dichloropropane	10.000	10.364	-3.6	95	-0.01
47	T,M	Bromodichloromethane	10.000	10.991	-9.9	99	-0.01
48	T,M	1,4-Dioxane	200.000	207.207	-3.6	87	0.02
49	T,M	Dibromomethane	10.000	10.675	-6.8	92	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	12.246	-22.5#	123	-0.01
51	T,M	4-Methyl-2-pentanone	50.000	51.796	-3.6	79	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	10.863	-8.6	95	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	86	0.00
54	S	Toluene-d8	10.000	10.283	-2.8	91	-0.01
55	C,T,M	Toluene	10.000	10.728	-7.3	97	-0.01
56	T,M	Ethyl methacrylate	10.000	11.383	-13.8	88	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	11.618	-16.2	94	0.00
58	T,M	1,1,2-Trichloroethane	10.000	11.625	-16.3	96	0.00
59	T,M	2-Hexanone	50.000	52.575	-5.2	79	0.00
60	T,M	1,3-Dichloropropane	10.000	11.221	-12.2	95	0.00
61	T,M	Tetrachloroethene	10.000	10.937	-9.4	103	0.00
62	T,M	Dibromochloromethane	10.000	11.793	-17.9	99	0.00
63	T,M	1,2-Dibromoethane	10.000	11.069	-10.7	91	-0.01
64	T,M	1-Chlorohexane	10.000	9.723	2.8	90	0.00
65	P,M	Chlorobenzene	10.000	10.913	-9.1	100	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	10.000	12.438	-24.4#	111	0.00
67	C,T,M	Ethylbenzene	10.000	10.672	-6.7	96	0.00
68	T,M	m-Xylene & p-Xylene	20.000	19.961	0.2	97	0.00
69	T,M	o-Xylene	10.000	13.617	-36.2#	110	-0.01
70	T,M	Styrene	10.000	14.470	-44.7#	114	0.00
71	T,M	Isopropylbenzene	10.000	13.374	-33.7#	110	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	105	0.00
73	P,T,M	Bromoform	10.000	10.603	-6.0	119	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	9.004	10.0	87	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	11.073	-10.7	106	-0.01
76	S	4-Bromofluorobenzene	10.000	9.676	3.2	103	0.00
77	T,M	1,2,3-Trichloropropane	10.000	10.762	-7.6	105	0.00
78	T,M	n-Propylbenzene	10.000	9.848	1.5	109	0.00
79	T,M	Bromobenzene	10.000	11.432	-14.3	127	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	9.668	3.3	108	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	9.717	2.8	109	0.00
82	T,M	4-Chlorotoluene	10.000	9.708	2.9	109	0.00
83	T,M	tert-Butylbenzene	10.000	10.789	-7.9	118	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	9.762	2.4	108	0.00
85	T,M	sec-Butylbenzene	10.000	9.662	3.4	104	0.00
86	T,M	p-Isopropyltoluene	10.000	9.797	2.0	109	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.061	-10.6	123	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	9.836	1.6	108	0.00
89	T,M	1,4-Dichlorobenzene	10.000	10.764	-7.6	124	0.00
90	T,M	n-Butylbenzene	10.000	8.849	11.5	103	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.002	-10.0	122	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	11.131	-11.3	110	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.850	-8.5	120	0.00
94	T,M	Hexachlorobutadiene	10.000	11.023	-10.2	125	0.02
95	T,M	Naphthalene	10.000	10.464	-4.6	105	0.02
96	T,M	1,2,3-Trichlorobenzene	10.000	11.183	-11.8	118	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	87	-0.01
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.353	14.1	67	-0.08
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.264	14.8	67	-0.10
6	C,T,M	Vinyl chloride	0.273	0.271	0.7	80	-0.08
7	T,M	Bromomethane	0.197	0.236	-19.8	109	-0.09
8	T,M	Chloroethane	0.207	0.209	-1.0	84	-0.03
9	T,M	Dichlorofluoromethane	0.380	0.436	-14.7	123	-0.08
10	T,M	Trichlorofluoromethane	0.445	0.477	-7.2	87	-0.09
11	T,M	Acrolein	0.008	0.010	-25.0#	107	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.233	-27.3#	115	-0.06
13	T,M	Acetone	0.037	0.041	-10.8	95	-0.05
14	C,T,M	1,1-Dichloroethene	0.467	0.456	2.4	90	-0.05
15	T,M	tert-Butyl alcohol	0.009	0.010	-11.1	89	-0.05
16	T,M	Iodomethane	0.396	0.467	-17.9	109	-0.05
17	T,M	Methyl acetate	0.095	0.095	0.0	84	-0.03
18	T,M	Methylene chloride	0.336	0.343	-2.1	96	-0.05
19	T,M	Carbon disulfide	0.976	1.019	-4.4	87	-0.05
20	T,M	Acrylonitrile	0.035	0.040	-14.3	95	-0.03
21	T,M	tert-Butyl methyl ether (MT	0.462	0.520	-12.6	95	-0.05
22	T,M	trans-1,2-Dichloroethene	0.448	0.443	1.1	92	-0.05
23	T,M	Isopropyl ether (DIPE)	0.938	0.902	3.8	89	-0.05
24	T,M	Vinyl acetate	0.300	0.294	2.0	73	-0.03
25	P,T,M	1,1-Dichloroethane	0.525	0.553	-5.3	98	-0.03
26	T,M	2-Butanol	0.008	0.009	-12.5	99	-0.05
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.705	-3.4	92	-0.03
28	T,M	2-Butanone	0.057	0.057	0.0	83	-0.03
29	T,M	2,2-Dichloropropane	0.449	0.512	-14.0	104	-0.03
30	T,M	cis-1,2-Dichloroethene	0.322	0.347	-7.8	99	-0.03
31	C,T,M	Chloroform	0.535	0.574	-7.3	102	-0.03
32	T,M	Bromochloromethane	0.199	0.193	3.0	86	-0.02
33	T,M	Tetrahydrofuran	0.031	0.031	0.0	89	-0.03
34	S	Dibromofluoromethane	0.261	0.281	-7.7	95	-0.02
35	T,M	1,1,1-Trichloroethane	0.481	0.512	-6.4	96	-0.02
36	T,M	Cyclohexane	0.496	0.478	3.6	83	-0.03
37	T,M	2,2,4-Trimethylpentane	0.024	0.022	8.3	81	-0.03
38	T,M	1,1-Dichloropropene	0.146	0.149	-2.1	93	-0.02
39	T,M	Carbon tetrachloride	0.364	0.403	-10.7	99	-0.03
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.555	-5.9	95	-0.03
41	S	1,2-Dichloroethane-d4	0.230	0.226	1.7	83	-0.02

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.210	-5.7	99	-0.03
43	T,M	1,2-Dichloroethane	0.255	0.274	-7.5	88	-0.02
44	T,M	Trichloroethene	0.303	0.332	-9.6	102	-0.01
45	T,M	Methylcyclohexane	0.587	0.554	5.6	85	-0.01
46	C,T,M	1,2-Dichloropropane	0.258	0.267	-3.5	95	-0.01
47	T,M	Bromodichloromethane	0.353	0.388	-9.9	99	-0.01
48	T,M	1,4-Dioxane	0.001	0.001	0.0	87	0.02
49	T,M	Dibromomethane	0.112	0.119	-6.2	92	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.024	-50.0#	123	-0.01
51	T,M	4-Methyl-2-pentanone	0.127	0.131	-3.1	79	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.420	-8.8	95	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	86	0.00
54	S	Toluene-d8	1.375	1.414	-2.8	91	-0.01
55	C,T,M	Toluene	1.585	1.700	-7.3	97	-0.01
56	T,M	Ethyl methacrylate	0.227	0.258	-13.7	88	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.417	-16.2	94	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.227	-16.4	96	0.00
59	T,M	2-Hexanone	0.104	0.109	-4.8	79	0.00
60	T,M	1,3-Dichloropropane	0.368	0.412	-12.0	95	0.00
61	T,M	Tetrachloroethene	0.343	0.375	-9.3	103	0.00
62	T,M	Dibromochloromethane	0.232	0.274	-18.1	99	0.00
63	T,M	1,2-Dibromoethane	0.185	0.205	-10.8	91	-0.01
64	T,M	1-Chlorohexane	0.740	0.720	2.7	90	0.00
65	P,M	Chlorobenzene	0.949	1.035	-9.1	100	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.360	-24.1#	111	0.00
67	C,T,M	Ethylbenzene	1.875	2.001	-6.7	96	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.478	0.2	97	0.00
69	T,M	o-Xylene	1.463	1.992	-36.2#	110	-0.01
70	T,M	Styrene	1.070	1.548	-44.7#	114	0.00
71	T,M	Isopropylbenzene	1.986	2.656	-33.7#	110	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	105	0.00
73	P,T,M	Bromoform	0.246	0.305	-24.0#	119	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.139	9.7	87	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.584	-10.6	106	-0.01
76	S	4-Bromofluorobenzene	1.184	1.146	3.2	103	0.00
77	T,M	1,2,3-Trichloropropane	0.148	0.159	-7.4	105	0.00
78	T,M	n-Propylbenzene	5.921	5.831	1.5	109	0.00
79	T,M	Bromobenzene	0.858	0.981	-14.3	127	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.541	3.3	108	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.496	2.8	109	0.00
82	T,M	4-Chlorotoluene	3.211	3.117	2.9	109	0.00
83	T,M	tert-Butylbenzene	0.826	0.891	-7.9	118	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.497	2.4	108	0.00
85	T,M	sec-Butylbenzene	5.158	4.984	3.4	104	0.00
86	T,M	p-Isopropyltoluene	4.024	3.943	2.0	109	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.907	-10.6	123	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.208	1.6	108	0.00
89	T,M	1,4-Dichlorobenzene	1.713	1.844	-7.6	124	0.00
90	T,M	n-Butylbenzene	4.403	3.896	11.5	103	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.547	-10.0	122	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.078	-9.9	110	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	1.033	-8.5	120	0.00
94	T,M	Hexachlorobutadiene	0.610	0.673	-10.3	125	0.02
95	T,M	Naphthalene	1.172	1.226	-4.6	105	0.02
96	T,M	1,2,3-Trichlorobenzene	0.690	0.772	-11.9	118	0.00

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 10:06 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.53	114	764276	10.00	ug/l	-0.01
53) CHLOROBENZENE-D5	13.70	117	592084	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	332956	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.21	111	214764	10.76	ug/l	-0.02
Spiked Amount 10.000			Recovery = 107.60%			
41) 1,2-Dichloroethane-d4	7.95	65	172568	9.81	ug/l	-0.02
Spiked Amount 10.000			Recovery = 98.10%			
54) Toluene-d8	11.00	98	837261	10.28	ug/l	-0.01
Spiked Amount 10.000			Recovery = 102.80%			
76) 4-Bromofluorobenzene	15.98	95	381454	9.68	ug/l	0.00
Spiked Amount 10.000			Recovery = 96.80%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.17	85	269676	8.59	ug/l	100
5) Chloromethane	2.47	50	201565	8.51	ug/l	99
6) Vinyl chloride	2.61	62	207175	9.92	ug/l	99
7) Bromomethane	3.15	94	180338m	11.97	ug/l	
8) Chloroethane	3.21	64	159669	10.08	ug/l	94
9) Dichlorofluoromethane	3.29	67	333544	11.50	ug/l	99
10) Trichlorofluoromethane	3.54	101	364808	10.73	ug/l	96
11) Acrolein	3.98	56	36833	63.04	ug/l	87
12) 1,1,2-Trichloro-1,2,2-trif	4.09	151	177880	12.71	ug/l	99
13) Acetone	4.04	43	157839	55.93	ug/l	94
14) 1,1-Dichloroethene	4.20	61	348323	9.77	ug/l	81
15) tert-Butyl alcohol	4.32	59	189628	268.57	ug/l	99
16) Iodomethane	4.62	142	356997	11.78	ug/l	93
17) Methyl acetate	4.65	43	72730	9.99	ug/l	92
18) Methylene chloride	4.84	49	262217	10.20	ug/l	91
19) Carbon disulfide	4.86	76	778463	10.44	ug/l	100
20) Acrylonitrile	5.02	53	152876	57.67	ug/l	98
21) tert-Butyl methyl ether (M	5.03	73	397535	11.26	ug/l	94
22) trans-1,2-Dichloroethene	5.23	61	338690	9.89	ug/l	94
23) Isopropyl ether (DIPE)	5.64	45	689600	9.62	ug/l	92
24) Vinyl acetate	5.82	43	224345	9.78	ug/l	93
25) 1,1-Dichloroethane	5.80	63	422328	10.52	ug/l	99
26) 2-Butanol	6.13	45	181503	306.78	ug/l	91
27) tert-Butyl ethyl ether (ET	6.22	59	538554	10.33	ug/l	94
28) 2-Butanone	6.40	43	217451	50.25	ug/l	92
29) 2,2-Dichloropropane	6.60	77	391637	11.40	ug/l	99
30) cis-1,2-Dichloroethene	6.66	96	264839	10.77	ug/l	94

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 10:06 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	Chloroform	6.88	83	438362	10.71	ug/l		97
32)	Bromochloromethane	7.14	49	147865	9.72	ug/l		82
33)	Tetrahydrofuran	7.18	42	23946	9.96	ug/l		95
35)	1,1,1-Trichloroethane	7.48	97	391377	10.65	ug/l		98
36)	Cyclohexane	7.49	84	365635	9.64	ug/l		99
37)	2,2,4-Trimethylpentane	7.49	57	16883	9.20	ug/l	#	100
38)	1,1-Dichloropropene	7.70	110	114135	10.26	ug/l		99
39)	Carbon tetrachloride	7.85	119	308273	11.08	ug/l		98
40)	tert-Amyl methyl ether (TA	7.86	73	423995	10.58	ug/l		99
42)	Benzene	8.10	78	924398	10.56	ug/l		97
43)	1,2-Dichloroethane	8.08	62	209760	10.75	ug/l		98
44)	Trichloroethene	9.05	130	253690	10.96	ug/l		94
45)	Methylcyclohexane	9.14	83	423581	9.44	ug/l		94
46)	1,2-Dichloropropane	9.33	63	204116	10.36	ug/l		98
47)	Bromodichloromethane	9.70	83	296228	10.99	ug/l		99
48)	1,4-Dioxane	9.77	88	15600	207.21	ug/l		93
49)	Dibromomethane	9.80	93	91314	10.67	ug/l		93
50)	2-Chloroethyl vinyl ether	10.20	63	18428	12.25	ug/l		91
51)	4-Methyl-2-pentanone	10.25	43	501210	51.80	ug/l		95
52)	cis-1,3-Dichloropropene	10.60	75	320756	10.86	ug/l		97
55)	Toluene	11.14	91	1006632	10.73	ug/l		99
56)	Ethyl methacrylate	11.43	69	152994	11.38	ug/l		89
57)	trans-1,3-Dichloropropene	11.46	75	246910	11.62	ug/l		98
58)	1,1,2-Trichloroethane	11.73	97	134282	11.62	ug/l		99
59)	2-Hexanone	11.74	43	322812	52.57	ug/l		92
60)	1,3-Dichloropropane	12.17	76	244169	11.22	ug/l		99
61)	Tetrachloroethene	12.28	164	221792	10.94	ug/l		96
62)	Dibromochloromethane	12.65	129	162291	11.79	ug/l		96
63)	1,2-Dibromoethane	13.00	107	121171	11.07	ug/l		98
64)	1-Chlorohexane	13.28	91	426263	9.72	ug/l		100
65)	Chlorobenzene	13.76	112	613099	10.91	ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	213365	12.44	ug/l		98
67)	Ethylbenzene	13.86	91	1184940	10.67	ug/l		99
68)	m-Xylene & p-Xylene	13.99	91	1750438	19.96	ug/l		100
69)	o-Xylene	14.81	91	1179394	13.62	ug/l		99
70)	Styrene	14.88	104	916643	14.47	ug/l		98
71)	Isopropylbenzene	15.51	105	1572454	13.37	ug/l		98
73)	Bromoform	15.53	173	101529	10.60	ug/l		100
74)	trans-1,4-Dichloro-2-buten	15.61	53	46125	9.00	ug/l		86
75)	1,1,2,2-Tetrachloroethane	15.83	83	194604	11.07	ug/l		100
77)	1,2,3-Trichloropropane	16.13	110	53094	10.76	ug/l		93

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLingl
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 10:06 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

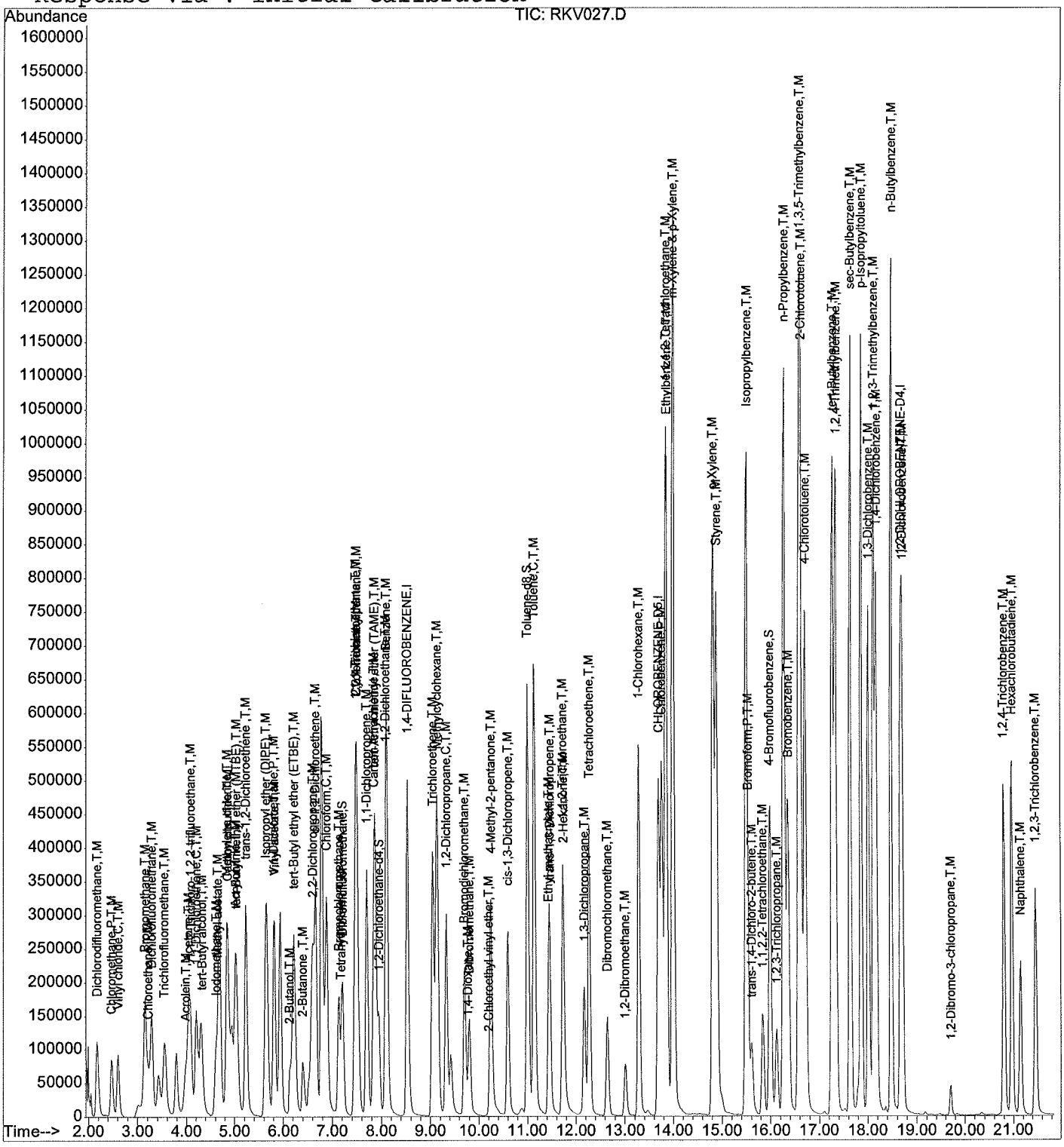
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	n-Propylbenzene	16.28	91	1941506	9.85	ug/l	97
79)	Bromobenzene	16.36	156	326480	11.43	ug/l	100
80)	1,3,5-Trimethylbenzene	16.59	105	1179114	9.67	ug/l	97
81)	2-Chlorotoluene	16.62	91	1164159	9.72	ug/l	95
82)	4-Chlorotoluene	16.70	91	1037898	9.71	ug/l	93
83)	tert-Butylbenzene	17.27	134	296606	10.79	ug/l	92
84)	1,2,4-Trimethylbenzene	17.34	105	1164492	9.76	ug/l	97
85)	sec-Butylbenzene	17.64	105	1659538	9.66	ug/l	97
86)	p-Isopropyltoluene	17.86	119	1312697	9.80	ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	634940	11.06	ug/l	97
88)	1,2,3-Trimethylbenzene	18.11	105	1068096	9.84	ug/l	97
89)	1,4-Dichlorobenzene	18.17	146	614041	10.76	ug/l	97
90)	n-Butylbenzene	18.48	91	1297322	8.85	ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	515151	11.00	ug/l	100
92)	1,2-Dibromo-3-chloropropan	19.71	157	26137	11.13	ug/l	95
93)	1,2,4-Trichlorobenzene	20.79	180	343911	10.85	ug/l	99
94)	Hexachlorobutadiene	20.97	225	223972	11.02	ug/l	98
95)	Naphthalene	21.15	128	408325	10.46	ug/l	98
96)	1,2,3-Trichlorobenzene	21.46	180	256934	11.18	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLing
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 10:06 2024 Quant Results File: VO01J12.RES

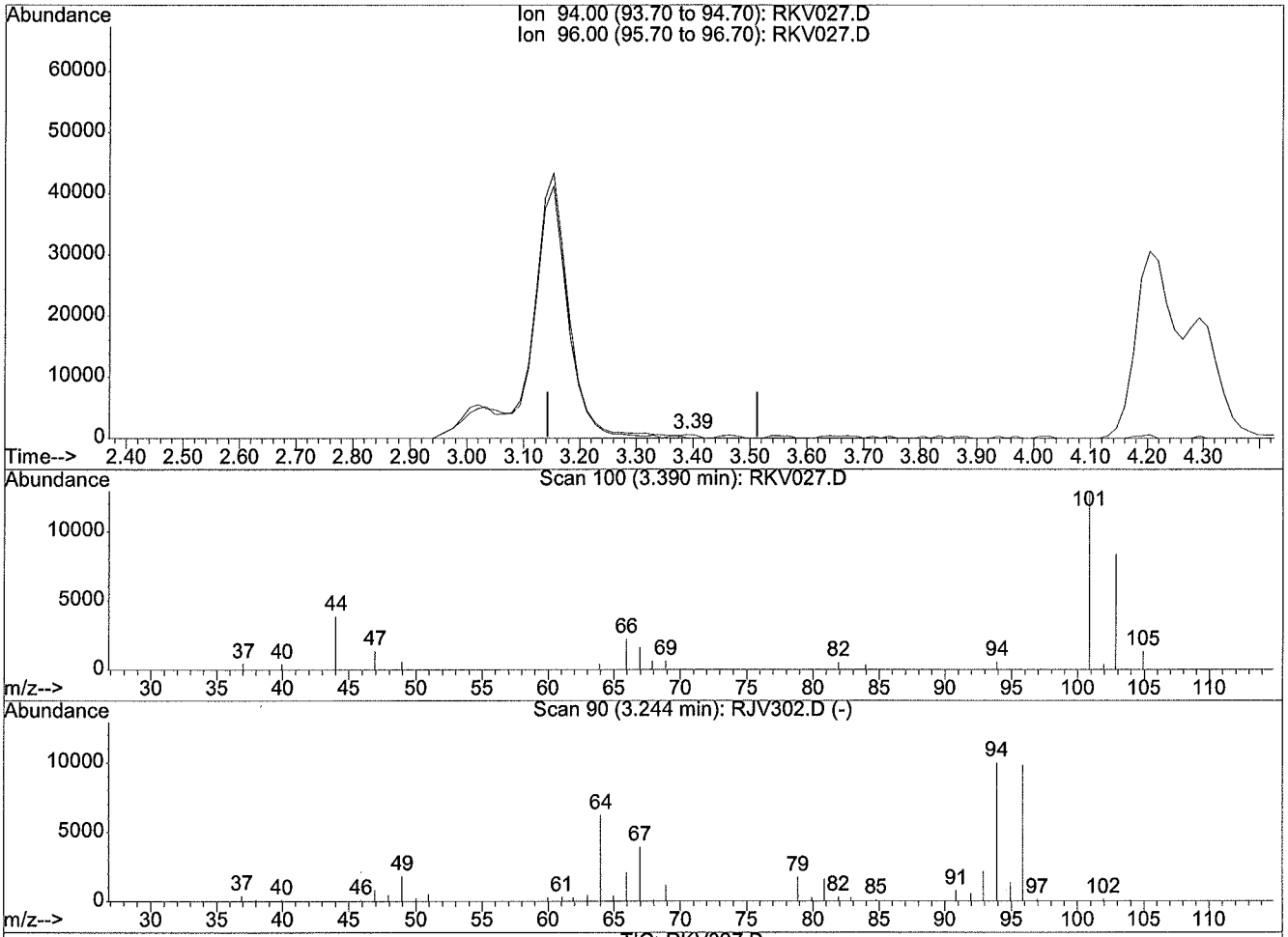
Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLi
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 10:05 2024 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:09:22 2024
Response via : Multiple Level Calibration



TIC: RKV027.D

(7) Bromomethane (T,M)

3.39min 0.06ug/l

response 913

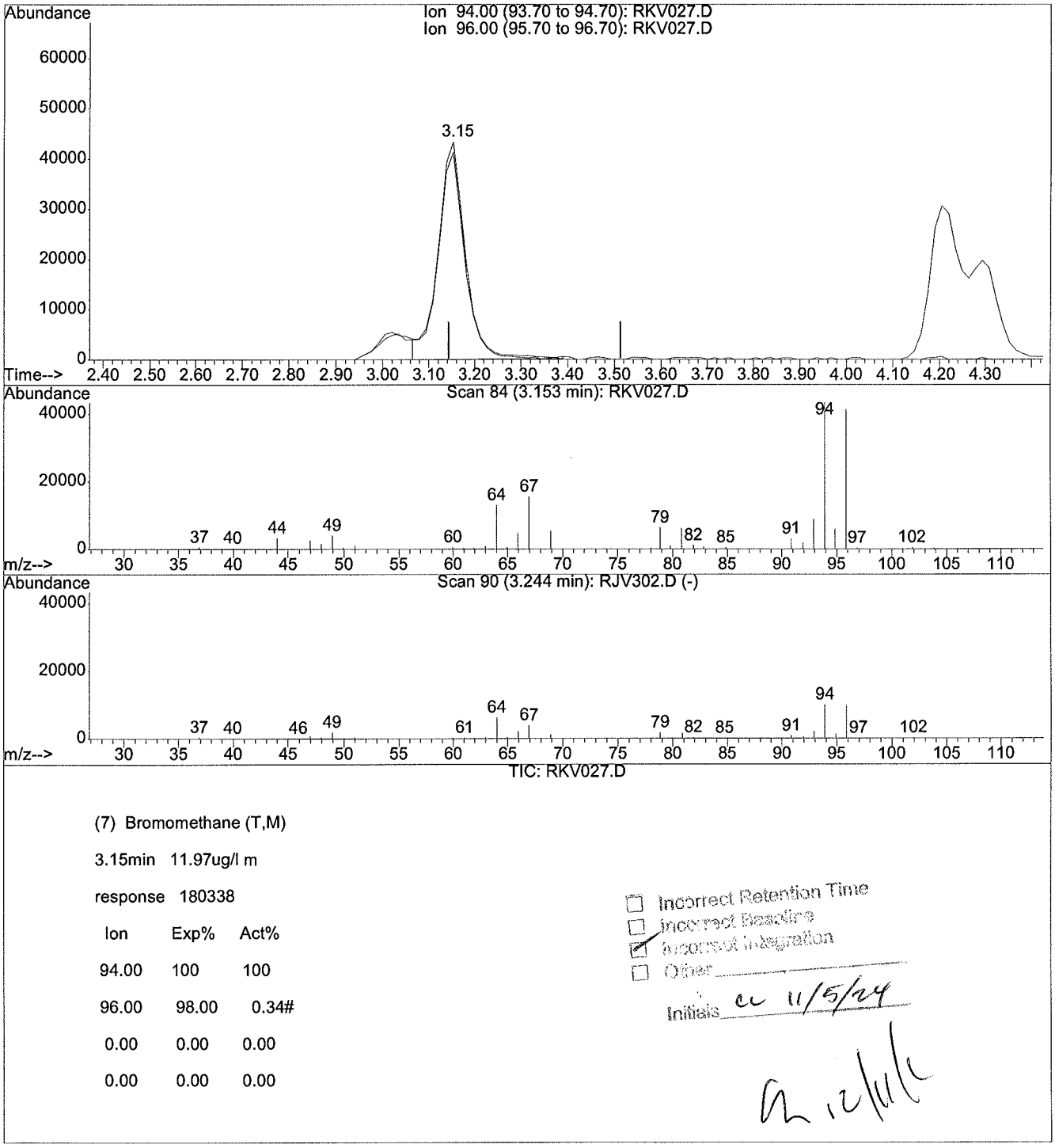
Ion	Exp%	Act%
94.00	100	100
96.00	98.00	66.70#
0.00	0.00	0.00
0.00	0.00	0.00

RKV027.D VO01J12.M Tue Nov 05 10:05:58 2024

Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\24K04\RKV027.D Vial: 2
Acq On : 4 Nov 2024 5:28 pm Operator: DNguye/CLi
Sample : CVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 10:06 2024 Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:09:22 2024
Response via : Multiple Level Calibration



TIC: RKV027.D

(7) Bromomethane (T,M)

3.15min 11.97ug/l m

response 180338

Ion	Exp%	Act%
94.00	100	100
96.00	98.00	0.34#
0.00	0.00	0.00
0.00	0.00	0.00

☐ Incorrect Retention Time
☐ Incorrect Baseline
☑ Incorrect Integration
☐ Other

Initials cc 11/5/24

RKV027.D VO01J12.M Tue Nov 05 10:06:06 2024

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	73	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	8.491	15.1	56	-0.06
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	8.769	12.3	58	-0.07
6	C,T,M	Vinyl chloride	10.000	9.402	6.0	63	-0.07
7	T,M	Bromomethane	10.000	0.065	99.4#	0	0.16#
8	T,M	Chloroethane	10.000	10.045	-0.4	70	-0.04
9	T,M	Dichlorofluoromethane	10.000	11.561	-15.6	103	-0.06
10	T,M	Trichlorofluoromethane	10.000	11.204	-12.0	76	-0.06
11	T,M	Acrolein	50.000	49.633	0.7	70	-0.02
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	12.182	-21.8#	92	-0.06
13	T,M	Acetone	50.000	53.465	-6.9	76	-0.02
14	C,T,M	1,1-Dichloroethene	10.000	10.106	-1.1	78	-0.03
15	T,M	tert-Butyl alcohol	250.000	251.327	-0.5	69	-0.03
16	T,M	Iodomethane	10.000	11.945	-19.5	93	-0.03
17	T,M	Methyl acetate	10.000	9.907	0.9	70	-0.02
18	T,M	Methylene chloride	10.000	10.529	-5.3	83	-0.03
19	T,M	Carbon disulfide	10.000	9.544	4.6	67	-0.03
20	T,M	Acrylonitrile	50.000	57.011	-14.0	78	-0.02
21	T,M	tert-Butyl methyl ether (MT	10.000	11.634	-16.3	82	-0.03
22	T,M	trans-1,2-Dichloroethene	10.000	10.302	-3.0	80	-0.03
23	T,M	Isopropyl ether (DIPE)	10.000	9.675	3.2	75	-0.03
24	T,M	Vinyl acetate	10.000	5.938	40.6#	37	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.867	-8.7	84	0.00
26	T,M	2-Butanol	250.000	287.602	-15.0	78	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.429	-4.3	78	-0.02
28	T,M	2-Butanone	50.000	49.563	0.9	69	-0.02
29	T,M	2,2-Dichloropropane	10.000	10.274	-2.7	79	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	11.168	-11.7	86	-0.02
31	C,T,M	Chloroform	10.000	12.050	-20.5#	96	-0.02
32	T,M	Bromochloromethane	10.000	10.210	-2.1	75	-0.02
33	T,M	Tetrahydrofuran	10.000	10.423	-4.2	78	-0.02
34	S	Dibromofluoromethane	10.000	11.039	-10.4	82	0.00
35	T,M	1,1,1-Trichloroethane	10.000	11.480	-14.8	87	0.00
36	T,M	Cyclohexane	10.000	8.729	12.7	63	-0.02
37	T,M	2,2,4-Trimethylpentane	10.000	7.451	25.5#	55	-0.02
38	T,M	1,1-Dichloropropene	10.000	10.492	-4.9	80	0.00
39	T,M	Carbon tetrachloride	10.000	11.812	-18.1	88	-0.02
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.569	-5.7	80	-0.02
41	S	1,2-Dichloroethane-d4	10.000	11.339	-13.4	80	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.863	-8.6	85	-0.02
43	T,M	1,2-Dichloroethane	10.000	12.282	-22.8#	84	0.00
44	T,M	Trichloroethene	10.000	11.243	-12.4	88	0.00
45	T,M	Methylcyclohexane	10.000	8.754	12.5	66	0.00
46	C,T,M	1,2-Dichloropropane	10.000	10.462	-4.6	81	-0.01
47	T,M	Bromodichloromethane	10.000	12.037	-20.4#	90	0.00
48	T,M	1,4-Dioxane	200.000	183.308	8.3	64	0.00
49	T,M	Dibromomethane	10.000	11.459	-14.6	83	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	12.058	-20.6#	101	0.00
51	T,M	4-Methyl-2-pentanone	50.000	53.343	-6.7	68	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	11.297	-13.0	83	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	72	0.00
54	S	Toluene-d8	10.000	10.561	-5.6	78	-0.01
55	C,T,M	Toluene	10.000	11.047	-10.5	84	0.00
56	T,M	Ethyl methacrylate	10.000	11.469	-14.7	74	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	12.184	-21.8#	82	0.00
58	T,M	1,1,2-Trichloroethane	10.000	12.085	-20.9#	84	0.00
59	T,M	2-Hexanone	50.000	52.361	-4.7	66	0.00
60	T,M	1,3-Dichloropropane	10.000	11.811	-18.1	84	0.00
61	T,M	Tetrachloroethene	10.000	11.084	-10.8	87	0.00
62	T,M	Dibromochloromethane	10.000	12.973	-29.7#	91	0.00
63	T,M	1,2-Dibromoethane	10.000	11.160	-11.6	77	0.00
64	T,M	1-Chlorohexane	10.000	9.186	8.1	71	0.00
65	P,M	Chlorobenzene	10.000	11.266	-12.7	86	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	10.000	13.226	-32.3#	99	0.00
67	C,T,M	Ethylbenzene	10.000	11.176	-11.8	84	0.00
68	T,M	m-Xylene & p-Xylene	20.000	20.511	-2.6	83	0.00
69	T,M	o-Xylene	10.000	16.274	-62.7#	110	0.00
70	T,M	Styrene	10.000	17.177	-71.8#	113	0.00
71	T,M	Isopropylbenzene	10.000	15.846	-58.5#	109	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	103	0.00
73	P,T,M	Bromoform	10.000	10.314	-3.1	113	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	8.536	14.6	81	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	11.113	-11.1	104	0.00
76	S	4-Bromofluorobenzene	10.000	9.427	5.7	98	0.02
77	T,M	1,2,3-Trichloropropane	10.000	10.431	-4.3	99	0.00
78	T,M	n-Propylbenzene	10.000	9.733	2.7	105	0.00
79	T,M	Bromobenzene	10.000	11.585	-15.9	126	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	10.028	-0.3	109	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	9.839	1.6	108	0.00
82	T,M	4-Chlorotoluene	10.000	10.049	-0.5	111	0.00
83	T,M	tert-Butylbenzene	10.000	10.863	-8.6	116	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	9.892	1.1	107	0.00
85	T,M	sec-Butylbenzene	10.000	9.655	3.5	102	0.00
86	T,M	p-Isopropyltoluene	10.000	9.720	2.8	105	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.103	-11.0	120	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.099	-1.0	108	0.00
89	T,M	1,4-Dichlorobenzene	10.000	10.697	-7.0	120	0.00
90	T,M	n-Butylbenzene	10.000	8.652	13.5	98	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.120	-11.2	120	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	10.530	-5.3	101	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.261	-2.6	111	0.00
94	T,M	Hexachlorobutadiene	10.000	10.308	-3.1	114	0.02
95	T,M	Naphthalene	10.000	9.893	1.1	97	0.00
96	T,M	1,2,3-Trichlorobenzene	10.000	10.813	-8.1	112	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
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Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	73	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.349	15.1	56	-0.06
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.272	12.3	58	-0.07
6	C,T,M	Vinyl chloride	0.273	0.257	5.9	63	-0.07
7	T,M	Bromomethane	0.197	0.001	99.5#	0#	0.16#
8	T,M	Chloroethane	0.207	0.208	-0.5	70	-0.04
9	T,M	Dichlorofluoromethane	0.380	0.439	-15.5	103	-0.06
10	T,M	Trichlorofluoromethane	0.445	0.498	-11.9	76	-0.06
11	T,M	Acrolein	0.008	0.008	0.0	70	-0.02
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.223	-21.9#	92	-0.06
13	T,M	Acetone	0.037	0.039	-5.4	76	-0.02
14	C,T,M	1,1-Dichloroethene	0.467	0.471	-0.9	78	-0.03
15	T,M	tert-Butyl alcohol	0.009	0.009	0.0	69	-0.03
16	T,M	Iodomethane	0.396	0.473	-19.4	93	-0.03
17	T,M	Methyl acetate	0.095	0.094	1.1	70	-0.02
18	T,M	Methylene chloride	0.336	0.354	-5.4	83	-0.03
19	T,M	Carbon disulfide	0.976	0.931	4.6	67	-0.03
20	T,M	Acrylonitrile	0.035	0.040	-14.3	78	-0.02
21	T,M	tert-Butyl methyl ether (MT	0.462	0.537	-16.2	82	-0.03
22	T,M	trans-1,2-Dichloroethene	0.448	0.462	-3.1	80	-0.03
23	T,M	Isopropyl ether (DIPE)	0.938	0.908	3.2	75	-0.03
24	T,M	Vinyl acetate	0.300	0.178	40.7#	37#	-0.02
25	P,T,M	1,1-Dichloroethane	0.525	0.571	-8.8	84	0.00
26	T,M	2-Butanol	0.008	0.009	-12.5	78	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.711	-4.3	78	-0.02
28	T,M	2-Butanone	0.057	0.056	1.8	69	-0.02
29	T,M	2,2-Dichloropropane	0.449	0.462	-2.9	79	-0.02
30	T,M	cis-1,2-Dichloroethene	0.322	0.359	-11.5	86	-0.02
31	C,T,M	Chloroform	0.535	0.645	-20.6#	96	-0.02
32	T,M	Bromochloromethane	0.199	0.203	-2.0	75	-0.02
33	T,M	Tetrahydrofuran	0.031	0.033	-6.5	78	-0.02
34	S	Dibromofluoromethane	0.261	0.288	-10.3	82	0.00
35	T,M	1,1,1-Trichloroethane	0.481	0.552	-14.8	87	0.00
36	T,M	Cyclohexane	0.496	0.433	12.7	63	-0.02
37	T,M	2,2,4-Trimethylpentane	0.024	0.018	25.0#	55	-0.02
38	T,M	1,1-Dichloropropene	0.146	0.153	-4.8	80	0.00
39	T,M	Carbon tetrachloride	0.364	0.430	-18.1	88	-0.02
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.554	-5.7	80	-0.02
41	S	1,2-Dichloroethane-d4	0.230	0.261	-13.5	80	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

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Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.244	-8.6	85	-0.02
43	T,M	1,2-Dichloroethane	0.255	0.313	-22.7#	84	0.00
44	T,M	Trichloroethene	0.303	0.340	-12.2	88	0.00
45	T,M	Methylcyclohexane	0.587	0.514	12.4	66	0.00
46	C,T,M	1,2-Dichloropropane	0.258	0.270	-4.7	81	-0.01
47	T,M	Bromodichloromethane	0.353	0.424	-20.1#	90	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	64	0.00
49	T,M	Dibromomethane	0.112	0.128	-14.3	83	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.024	-50.0#	101	0.00
51	T,M	4-Methyl-2-pentanone	0.127	0.135	-6.3	68	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.436	-13.0	83	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	72	0.00
54	S	Toluene-d8	1.375	1.452	-5.6	78	-0.01
55	C,T,M	Toluene	1.585	1.751	-10.5	84	0.00
56	T,M	Ethyl methacrylate	0.227	0.260	-14.5	74	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.437	-21.7#	82	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.236	-21.0#	84	0.00
59	T,M	2-Hexanone	0.104	0.109	-4.8	66	0.00
60	T,M	1,3-Dichloropropane	0.368	0.434	-17.9	84	0.00
61	T,M	Tetrachloroethene	0.343	0.380	-10.8	87	0.00
62	T,M	Dibromochloromethane	0.232	0.302	-30.2#	91	0.00
63	T,M	1,2-Dibromoethane	0.185	0.206	-11.4	77	0.00
64	T,M	1-Chlorohexane	0.740	0.680	8.1	71	0.00
65	P,M	Chlorobenzene	0.949	1.069	-12.6	86	-0.01
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.383	-32.1#	99	0.00
67	C,T,M	Ethylbenzene	1.875	2.096	-11.8	84	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.519	-2.6	83	0.00
69	T,M	o-Xylene	1.463	2.381	-62.7#	110	0.00
70	T,M	Styrene	1.070	1.838	-71.8#	113	0.00
71	T,M	Isopropylbenzene	1.986	3.147	-58.5#	109	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	103	0.00
73	P,T,M	Bromoform	0.246	0.296	-20.3#	113	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.131	14.9	81	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.587	-11.2	104	0.00
76	S	4-Bromofluorobenzene	1.184	1.116	5.7	98	0.02
77	T,M	1,2,3-Trichloropropane	0.148	0.155	-4.7	99	0.00
78	T,M	n-Propylbenzene	5.921	5.763	2.7	105	0.00
79	T,M	Bromobenzene	0.858	0.994	-15.9	126	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.673	-0.3	109	0.00

(#) = Out of Range

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Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
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Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
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Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.540	1.6	108	0.00
82	T,M	4-Chlorotoluene	3.211	3.227	-0.5	111	0.00
83	T,M	tert-Butylbenzene	0.826	0.897	-8.6	116	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.544	1.1	107	0.00
85	T,M	sec-Butylbenzene	5.158	4.980	3.5	102	0.00
86	T,M	p-Isopropyltoluene	4.024	3.912	2.8	105	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.914	-11.0	120	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.294	-1.0	108	0.00
89	T,M	1,4-Dichlorobenzene	1.713	1.833	-7.0	120	0.00
90	T,M	n-Butylbenzene	4.403	3.809	13.5	98	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.564	-11.2	120	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.074	-4.2	101	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	0.977	-2.6	111	0.00
94	T,M	Hexachlorobutadiene	0.610	0.629	-3.1	114	0.02
95	T,M	Naphthalene	1.172	1.159	1.1	97	0.00
96	T,M	1,2,3-Trichlorobenzene	0.690	0.746	-8.1	112	0.00

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 4:55 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.55	114	639576	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	494080	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	325146	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	184429	11.04	ug/l	0.00
Spiked Amount 10.000			Recovery = 110.40%			
41) 1,2-Dichloroethane-d4	7.95	65	166861	11.34	ug/l	-0.02
Spiked Amount 10.000			Recovery = 113.40%			
54) Toluene-d8	11.00	98	717564	10.56	ug/l	-0.01
Spiked Amount 10.000			Recovery = 105.60%			
76) 4-Bromofluorobenzene	15.99	95	362903	9.43	ug/l	0.02
Spiked Amount 10.000			Recovery = 94.30%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.20	85	223045	8.49	ug/l	99
5) Chloromethane	2.50	50	173854	8.77	ug/l	100
6) Vinyl chloride	2.63	62	164390	9.40	ug/l	98
8) Chloroethane	3.20	64	133125	10.04	ug/l	98
9) Dichlorofluoromethane	3.30	67	280689	11.56	ug/l	99
10) Trichlorofluoromethane	3.57	101	318699	11.20	ug/l	97
11) Acrolein	4.00	56	24269	49.63	ug/l	81
12) 1,1,2-Trichloro-1,2,2-trif	4.09	151	142667	12.18	ug/l	100
13) Acetone	4.07	43	126269	53.47	ug/l	95
14) 1,1-Dichloroethene	4.22	61	301547	10.11	ug/l	98
15) tert-Butyl alcohol	4.34	59	148501	251.33	ug/l	96
16) Iodomethane	4.63	142	302801	11.94	ug/l	98
17) Methyl acetate	4.66	43	60349	9.91	ug/l	92
18) Methylene chloride	4.86	49	226472	10.53	ug/l	92
19) Carbon disulfide	4.87	76	595653	9.54	ug/l	100
20) Acrylonitrile	5.03	53	126478	57.01	ug/l	97
21) tert-Butyl methyl ether (M	5.05	73	343772	11.63	ug/l	98
22) trans-1,2-Dichloroethene	5.24	61	295224	10.30	ug/l	98
23) Isopropyl ether (DIPE)	5.66	45	580574	9.68	ug/l	93
24) Vinyl acetate	5.83	43	114025	5.94	ug/l	93
25) 1,1-Dichloroethane	5.83	63	365201	10.87	ug/l	99
26) 2-Butanol	6.14	45	142394	287.60	ug/l	98
27) tert-Butyl ethyl ether (ET	6.23	59	454934	10.43	ug/l	95
28) 2-Butanone	6.41	43	179494	49.56	ug/l	91
29) 2,2-Dichloropropane	6.62	77	295341	10.27	ug/l	99
30) cis-1,2-Dichloroethene	6.68	96	229858	11.17	ug/l	97
31) Chloroform	6.90	83	412714	12.05	ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 4:55 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
32)	Bromochloromethane	7.14	49	130037	10.21 ug/l		84
33)	Tetrahydrofuran	7.20	42	20977	10.42 ug/l		91
35)	1,1,1-Trichloroethane	7.49	97	353051	11.48 ug/l		99
36)	Cyclohexane	7.51	84	277006	8.73 ug/l		98
37)	2,2,4-Trimethylpentane	7.51	57	11440	7.45 ug/l	#	100
38)	1,1-Dichloropropene	7.71	110	97715	10.49 ug/l		98
39)	Carbon tetrachloride	7.86	119	275064	11.81 ug/l		97
40)	tert-Amyl methyl ether (TA	7.88	73	354391	10.57 ug/l		98
42)	Benzene	8.11	78	795526	10.86 ug/l		98
43)	1,2-Dichloroethane	8.10	62	200480	12.28 ug/l		100
44)	Trichloroethene	9.06	130	217742	11.24 ug/l		95
45)	Methylcyclohexane	9.15	83	328562	8.75 ug/l		95
46)	1,2-Dichloropropane	9.33	63	172426	10.46 ug/l		90
47)	Bromodichloromethane	9.72	83	271489	12.04 ug/l		100
48)	1,4-Dioxane	9.76	88	11549	183.31 ug/l		93
49)	Dibromomethane	9.80	93	82027	11.46 ug/l		95
50)	2-Chloroethyl vinyl ether	10.22	63	15164	12.06 ug/l		92
51)	4-Methyl-2-pentanone	10.25	43	431959	53.34 ug/l		96
52)	cis-1,3-Dichloropropene	10.60	75	279146	11.30 ug/l		98
55)	Toluene	11.15	91	865058	11.05 ug/l		99
56)	Ethyl methacrylate	11.43	69	128638	11.47 ug/l		92
57)	trans-1,3-Dichloropropene	11.46	75	216086	12.18 ug/l		99
58)	1,1,2-Trichloroethane	11.73	97	116493	12.08 ug/l		98
59)	2-Hexanone	11.74	43	268283	52.36 ug/l		95
60)	1,3-Dichloropropane	12.17	76	214472	11.81 ug/l		99
61)	Tetrachloroethene	12.28	164	187579	11.08 ug/l		97
62)	Dibromochloromethane	12.65	129	148984	12.97 ug/l		100
63)	1,2-Dibromoethane	13.02	107	101946	11.16 ug/l		98
64)	1-Chlorohexane	13.28	91	336085	9.19 ug/l		99
65)	Chlorobenzene	13.76	112	528159	11.27 ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	189327	13.23 ug/l		99
67)	Ethylbenzene	13.86	91	1035462	11.18 ug/l		99
68)	m-Xylene & p-Xylene	14.00	91	1500969	20.51 ug/l		98
69)	o-Xylene	14.82	91	1176198	16.27 ug/l		99
70)	Styrene	14.88	104	908016	17.18 ug/l		99
71)	Isopropylbenzene	15.51	105	1554721	15.85 ug/l		99
73)	Bromoform	15.54	173	96389	10.31 ug/l		98
74)	trans-1,4-Dichloro-2-buten	15.61	53	42702	8.54 ug/l		86
75)	1,1,2,2-Tetrachloroethane	15.85	83	190727	11.11 ug/l		97
77)	1,2,3-Trichloropropane	16.13	110	50252	10.43 ug/l		97
78)	n-Propylbenzene	16.28	91	1873840	9.73 ug/l		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLingl
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 4:55 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

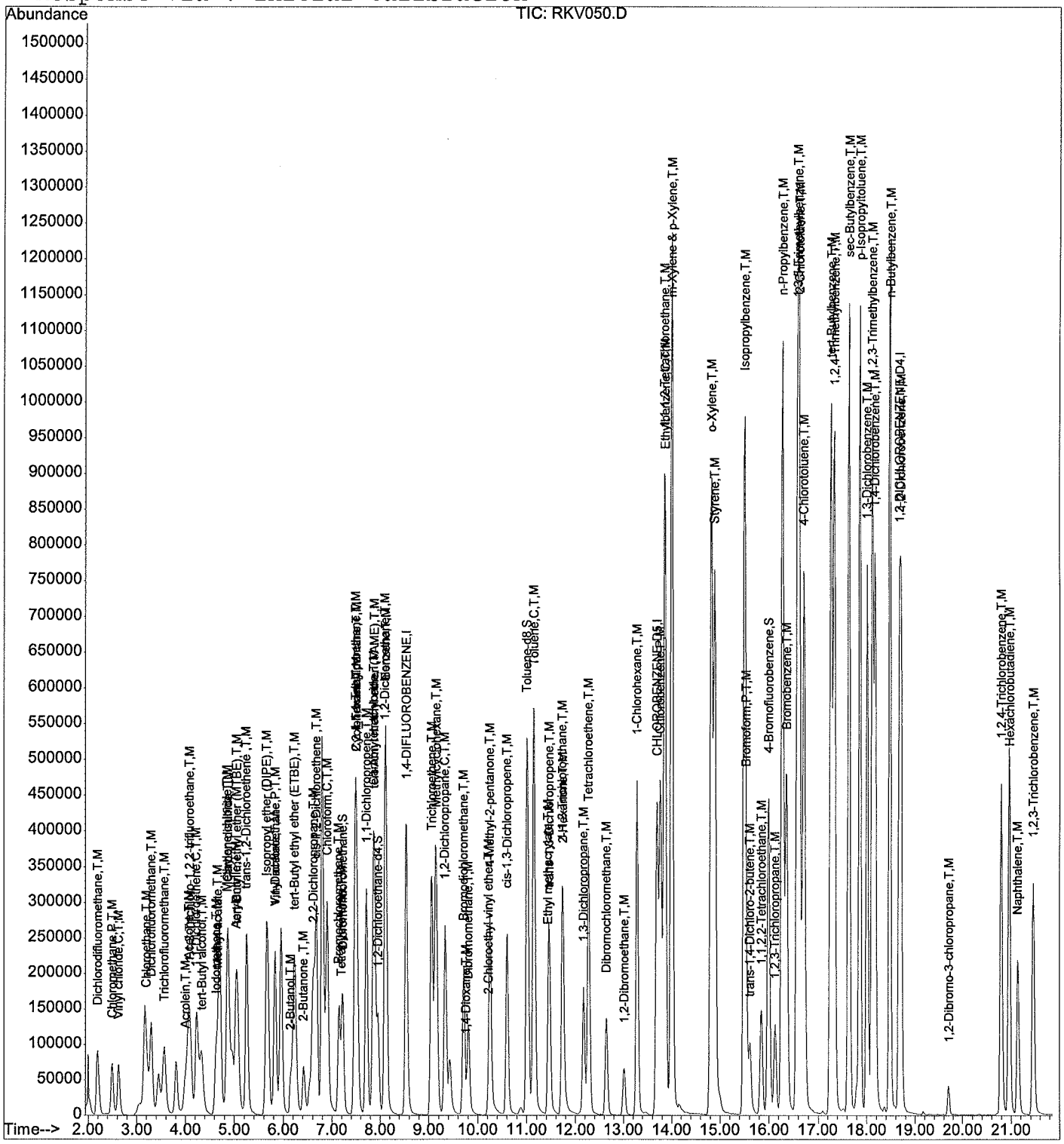
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79)	Bromobenzene	16.36	156	323073	11.58	ug/l	100
80)	1,3,5-Trimethylbenzene	16.59	105	1194421	10.03	ug/l	98
81)	2-Chlorotoluene	16.62	91	1151117	9.84	ug/l	94
82)	4-Chlorotoluene	16.71	91	1049181	10.05	ug/l	95
83)	tert-Butylbenzene	17.27	134	291637	10.86	ug/l	93
84)	1,2,4-Trimethylbenzene	17.34	105	1152310	9.89	ug/l	97
85)	sec-Butylbenzene	17.64	105	1619323	9.65	ug/l	96
86)	p-Isopropyltoluene	17.86	119	1271849	9.72	ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	622409	11.10	ug/l	97
88)	1,2,3-Trimethylbenzene	18.11	105	1070918	10.10	ug/l	98
89)	1,4-Dichlorobenzene	18.17	146	595890	10.70	ug/l	96
90)	n-Butylbenzene	18.48	91	1238592	8.65	ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	508458	11.12	ug/l	98
92)	1,2-Dibromo-3-chloropropan	19.71	157	24145	10.53	ug/l	99
93)	1,2,4-Trichlorobenzene	20.79	180	317625	10.26	ug/l	98
94)	Hexachlorobutadiene	20.97	225	204528	10.31	ug/l	97
95)	Naphthalene	21.13	128	376997	9.89	ug/l	100
96)	1,2,3-Trichlorobenzene	21.46	180	242619	10.81	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV050.D Vial: 25
Acq On : 5 Nov 2024 4:33 am Operator: DNguye/CLing
Sample : EVO01J1220 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 4:55 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	78	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	8.285	17.1	58	-0.07
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	8.872	11.3	63	-0.08
6	C,T,M	Vinyl chloride	10.000	9.339	6.6	67	-0.07
7	T,M	Bromomethane	10.000	0.000	100.0#	0	-3.24#
8	T,M	Chloroethane	10.000	9.971	0.3	75	-0.06
9	T,M	Dichlorofluoromethane	10.000	11.150	-11.5	107	-0.07
10	T,M	Trichlorofluoromethane	10.000	10.154	-1.5	74	-0.06
11	T,M	Acrolein	50.000	50.761	-1.5	77	-0.01
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	11.076	-10.8	90	-0.06
13	T,M	Acetone	50.000	50.910	-1.8	77	-0.01
14	C,T,M	1,1-Dichloroethene	10.000	9.854	1.5	81	-0.03
15	T,M	tert-Butyl alcohol	250.000	232.104	7.2	69	-0.03
16	T,M	Iodomethane	10.000	11.368	-13.7	95	-0.03
17	T,M	Methyl acetate	10.000	9.772	2.3	74	-0.02
18	T,M	Methylene chloride	10.000	10.210	-2.1	86	-0.03
19	T,M	Carbon disulfide	10.000	10.038	-0.4	75	-0.03
20	T,M	Acrylonitrile	50.000	55.800	-11.6	82	-0.02
21	T,M	tert-Butyl methyl ether (MT	10.000	11.000	-10.0	84	-0.03
22	T,M	trans-1,2-Dichloroethene	10.000	10.056	-0.6	84	-0.03
23	T,M	Isopropyl ether (DIPE)	10.000	9.778	2.2	81	-0.02
24	T,M	Vinyl acetate	10.000	5.304	47.0#	36	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.960	-9.6	91	0.00
26	T,M	2-Butanol	250.000	274.446	-9.8	79	-0.01
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.110	-1.1	81	-0.02
28	T,M	2-Butanone	50.000	49.258	1.5	73	0.00
29	T,M	2,2-Dichloropropane	10.000	10.193	-1.9	84	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	10.975	-9.7	91	-0.02
31	C,T,M	Chloroform	10.000	11.573	-15.7	99	-0.02
32	T,M	Bromochloromethane	10.000	9.687	3.1	77	-0.02
33	T,M	Tetrahydrofuran	10.000	9.377	6.2	75	-0.01
34	S	Dibromofluoromethane	10.000	10.700	-7.0	85	0.00
35	T,M	1,1,1-Trichloroethane	10.000	11.216	-12.2	91	0.00
36	T,M	Cyclohexane	10.000	8.790	12.1	68	-0.01
37	T,M	2,2,4-Trimethylpentane	10.000	7.912	20.9#	62	-0.03
38	T,M	1,1-Dichloropropene	10.000	9.997	0.0	82	0.00
39	T,M	Carbon tetrachloride	10.000	11.113	-11.1	89	-0.02
40	T,M	tert-Amyl methyl ether (TAM	10.000	9.987	0.1	81	-0.02
41	S	1,2-Dichloroethane-d4	10.000	10.717	-7.2	81	-0.01

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.757	-7.6	91	-0.02
43	T,M	1,2-Dichloroethane	10.000	11.923	-19.2	88	0.00
44	T,M	Trichloroethene	10.000	11.195	-12.0	94	0.00
45	T,M	Methylcyclohexane	10.000	8.264	17.4	67	0.00
46	C,T,M	1,2-Dichloropropane	10.000	10.513	-5.1	87	0.00
47	T,M	Bromodichloromethane	10.000	11.471	-14.7	92	0.00
48	T,M	1,4-Dioxane	200.000	171.947	14.0	65	0.00
49	T,M	Dibromomethane	10.000	10.954	-9.5	85	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	11.843	-18.4	107	0.00
51	T,M	4-Methyl-2-pentanone	50.000	51.720	-3.4	71	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	10.934	-9.3	86	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	76	0.00
54	S	Toluene-d8	10.000	10.546	-5.5	83	0.00
55	C,T,M	Toluene	10.000	10.963	-9.6	88	0.00
56	T,M	Ethyl methacrylate	10.000	11.731	-17.3	80	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	11.934	-19.3	85	0.00
58	T,M	1,1,2-Trichloroethane	10.000	11.824	-18.2	87	0.00
59	T,M	2-Hexanone	50.000	51.407	-2.8	68	0.00
60	T,M	1,3-Dichloropropane	10.000	11.552	-15.5	87	0.00
61	T,M	Tetrachloroethene	10.000	10.681	-6.8	89	0.00
62	T,M	Dibromochloromethane	10.000	12.471	-24.7#	93	0.00
63	T,M	1,2-Dibromoethane	10.000	11.119	-11.2	81	0.00
64	T,M	1-Chlorohexane	10.000	9.426	5.7	78	0.00
65	P,M	Chlorobenzene	10.000	11.288	-12.9	92	0.00
66	T,M	1,1,1,2-Tetrachloroethane	10.000	12.913	-29.1#	102	0.00
67	C,T,M	Ethylbenzene	10.000	11.180	-11.8	89	0.00
68	T,M	m-Xylene & p-Xylene	20.000	20.855	-4.3	90	0.00
69	T,M	o-Xylene	10.000	13.594	-35.9#	97	0.00
70	T,M	Styrene	10.000	14.048	-40.5#	98	0.00
71	T,M	Isopropylbenzene	10.000	12.975	-29.8#	95	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	103	0.00
73	P,T,M	Bromoform	10.000	8.789	12.1	96	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	7.541	24.6#	72	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	10.967	-9.7	103	0.00
76	S	4-Bromofluorobenzene	10.000	9.784	2.2	102	0.02
77	T,M	1,2,3-Trichloropropane	10.000	10.478	-4.8	100	0.00
78	T,M	n-Propylbenzene	10.000	9.791	2.1	106	0.00
79	T,M	Bromobenzene	10.000	11.545	-15.4	125	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	9.973	0.3	109	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	9.973	0.3	110	0.00
82	T,M	4-Chlorotoluene	10.000	10.164	-1.6	112	0.00
83	T,M	tert-Butylbenzene	10.000	10.959	-9.6	118	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	9.997	0.0	108	0.00
85	T,M	sec-Butylbenzene	10.000	9.990	0.1	106	0.00
86	T,M	p-Isopropyltoluene	10.000	9.865	1.3	107	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.283	-12.8	123	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.001	-0.0	108	0.00
89	T,M	1,4-Dichlorobenzene	10.000	10.593	-5.9	119	0.00
90	T,M	n-Butylbenzene	10.000	8.656	13.4	98	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.273	-12.7	122	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	10.477	-4.8	101	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.427	-4.3	113	0.00
94	T,M	Hexachlorobutadiene	10.000	10.817	-8.2	120	0.00
95	T,M	Naphthalene	10.000	10.403	-4.0	102	0.00
96	T,M	1,2,3-Trichlorobenzene	10.000	11.035	-10.4	114	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	78	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.340	17.3	58	-0.07
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.275	11.3	63	-0.08
6	C,T,M	Vinyl chloride	0.273	0.255	6.6	67	-0.07
7	T,M	Bromomethane	0.197	0.000	100.0#	0#	-3.24#
8	T,M	Chloroethane	0.207	0.207	0.0	75	-0.06
9	T,M	Dichlorofluoromethane	0.380	0.423	-11.3	107	-0.07
10	T,M	Trichlorofluoromethane	0.445	0.452	-1.6	74	-0.06
11	T,M	Acrolein	0.008	0.008	0.0	77	-0.01
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.203	-10.9	90	-0.06
13	T,M	Acetone	0.037	0.038	-2.7	77	-0.01
14	C,T,M	1,1-Dichloroethene	0.467	0.460	1.5	81	-0.03
15	T,M	tert-Butyl alcohol	0.009	0.009	0.0	69	-0.03
16	T,M	Iodomethane	0.396	0.451	-13.9	95	-0.03
17	T,M	Methyl acetate	0.095	0.093	2.1	74	-0.02
18	T,M	Methylene chloride	0.336	0.343	-2.1	86	-0.03
19	T,M	Carbon disulfide	0.976	0.980	-0.4	75	-0.03
20	T,M	Acrylonitrile	0.035	0.039	-11.4	82	-0.02
21	T,M	tert-Butyl methyl ether (MT	0.462	0.508	-10.0	84	-0.03
22	T,M	trans-1,2-Dichloroethene	0.448	0.451	-0.7	84	-0.03
23	T,M	Isopropyl ether (DIPE)	0.938	0.917	2.2	81	-0.02
24	T,M	Vinyl acetate	0.300	0.159	47.0#	36#	-0.02
25	P,T,M	1,1-Dichloroethane	0.525	0.576	-9.7	91	0.00
26	T,M	2-Butanol	0.008	0.008	0.0	79	-0.01
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.690	-1.2	81	-0.02
28	T,M	2-Butanone	0.057	0.056	1.8	73	0.00
29	T,M	2,2-Dichloropropane	0.449	0.458	-2.0	84	-0.02
30	T,M	cis-1,2-Dichloroethene	0.322	0.353	-9.6	91	-0.02
31	C,T,M	Chloroform	0.535	0.620	-15.9	99	-0.02
32	T,M	Bromochloromethane	0.199	0.193	3.0	77	-0.02
33	T,M	Tetrahydrofuran	0.031	0.030	3.2	75	-0.01
34	S	Dibromofluoromethane	0.261	0.279	-6.9	85	0.00
35	T,M	1,1,1-Trichloroethane	0.481	0.539	-12.1	91	0.00
36	T,M	Cyclohexane	0.496	0.436	12.1	68	-0.01
37	T,M	2,2,4-Trimethylpentane	0.024	0.019	20.8#	62	-0.03
38	T,M	1,1-Dichloropropene	0.146	0.146	0.0	82	0.00
39	T,M	Carbon tetrachloride	0.364	0.405	-11.3	89	-0.02
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.524	0.0	81	-0.02
41	S	1,2-Dichloroethane-d4	0.230	0.247	-7.4	81	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.232	-7.6	91	-0.02
43	T,M	1,2-Dichloroethane	0.255	0.304	-19.2	88	0.00
44	T,M	Trichloroethene	0.303	0.339	-11.9	94	0.00
45	T,M	Methylcyclohexane	0.587	0.485	17.4	67	0.00
46	C,T,M	1,2-Dichloropropane	0.258	0.271	-5.0	87	0.00
47	T,M	Bromodichloromethane	0.353	0.405	-14.7	92	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	65	0.00
49	T,M	Dibromomethane	0.112	0.123	-9.8	85	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.023	-43.7#	107	0.00
51	T,M	4-Methyl-2-pentanone	0.127	0.131	-3.1	71	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.422	-9.3	86	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	76	0.00
54	S	Toluene-d8	1.375	1.450	-5.5	83	0.00
55	C,T,M	Toluene	1.585	1.738	-9.7	88	0.00
56	T,M	Ethyl methacrylate	0.227	0.266	-17.2	80	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.428	-19.2	85	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.231	-18.5	87	0.00
59	T,M	2-Hexanone	0.104	0.107	-2.9	68	0.00
60	T,M	1,3-Dichloropropane	0.368	0.425	-15.5	87	0.00
61	T,M	Tetrachloroethene	0.343	0.366	-6.7	89	0.00
62	T,M	Dibromochloromethane	0.232	0.290	-25.0#	93	0.00
63	T,M	1,2-Dibromoethane	0.185	0.206	-11.4	81	0.00
64	T,M	1-Chlorohexane	0.740	0.698	5.7	78	0.00
65	P,M	Chlorobenzene	0.949	1.071	-12.9	92	0.00
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.374	-29.0#	102	0.00
67	C,T,M	Ethylbenzene	1.875	2.096	-11.8	89	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.544	-4.3	90	0.00
69	T,M	o-Xylene	1.463	1.989	-36.0#	97	0.00
70	T,M	Styrene	1.070	1.503	-40.5#	98	0.00
71	T,M	Isopropylbenzene	1.986	2.577	-29.8#	95	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	103	0.00
73	P,T,M	Bromoform	0.246	0.252	-2.4	96	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.116	24.7#	72	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.579	-9.7	103	0.00
76	S	4-Bromofluorobenzene	1.184	1.158	2.2	102	0.02
77	T,M	1,2,3-Trichloropropane	0.148	0.155	-4.7	100	0.00
78	T,M	n-Propylbenzene	5.921	5.797	2.1	106	0.00
79	T,M	Bromobenzene	0.858	0.990	-15.4	125	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.653	0.3	109	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.589	0.3	110	0.00
82	T,M	4-Chlorotoluene	3.211	3.263	-1.6	112	0.00
83	T,M	tert-Butylbenzene	0.826	0.905	-9.6	118	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.582	0.0	108	0.00
85	T,M	sec-Butylbenzene	5.158	5.153	0.1	106	0.00
86	T,M	p-Isopropyltoluene	4.024	3.970	1.3	107	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.945	-12.8	123	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.262	-0.0	108	0.00
89	T,M	1,4-Dichlorobenzene	1.713	1.815	-6.0	119	0.00
90	T,M	n-Butylbenzene	4.403	3.811	13.4	98	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.585	-12.7	122	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.074	-4.2	101	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	0.993	-4.3	113	0.00
94	T,M	Hexachlorobutadiene	0.610	0.660	-8.2	120	0.00
95	T,M	Naphthalene	1.172	1.219	-4.0	102	0.00
96	T,M	1,2,3-Trichlorobenzene	0.690	0.761	-10.3	114	0.00

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 5:24 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	686559	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	523389	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	326183	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.23	111	191892	10.70	ug/l	0.00
Spiked Amount 10.000			Recovery = 107.00%			
41) 1,2-Dichloroethane-d4	7.95	65	169297	10.72	ug/l	-0.01
Spiked Amount 10.000			Recovery = 107.20%			
54) Toluene-d8	11.02	98	759051	10.55	ug/l	0.00
Spiked Amount 10.000			Recovery = 105.50%			
76) 4-Bromofluorobenzene	15.99	95	377852	9.78	ug/l	0.02
Spiked Amount 10.000			Recovery = 97.80%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.18	85	233624	8.28	ug/l	99
5) Chloromethane	2.48	50	188816	8.87	ug/l	100
6) Vinyl chloride	2.63	62	175276	9.34	ug/l	100
8) Chloroethane	3.18	64	141859	9.97	ug/l	100
9) Dichlorofluoromethane	3.29	67	290603	11.15	ug/l	99
10) Trichlorofluoromethane	3.57	101	310060	10.15	ug/l	97
11) Acrolein	4.00	56	26644	50.76	ug/l	88
12) 1,1,2-Trichloro-1,2,2-trif	4.09	151	139253	11.08	ug/l	99
13) Acetone	4.07	43	129067	50.91	ug/l	95
14) 1,1-Dichloroethene	4.22	61	315638	9.85	ug/l	99
15) tert-Butyl alcohol	4.34	59	147217	232.10	ug/l	99
16) Iodomethane	4.64	142	309341	11.37	ug/l	98
17) Methyl acetate	4.66	43	63898	9.77	ug/l	96
18) Methylene chloride	4.86	49	235752	10.21	ug/l	93
19) Carbon disulfide	4.87	76	672524	10.04	ug/l	100
20) Acrylonitrile	5.03	53	132885	55.80	ug/l	97
21) tert-Butyl methyl ether (M	5.05	73	348936	11.00	ug/l	98
22) trans-1,2-Dichloroethene	5.24	61	309367	10.06	ug/l	99
23) Isopropyl ether (DIPE)	5.67	45	629819	9.78	ug/l	94
24) Vinyl acetate	5.83	43	109319	5.30	ug/l	94
25) 1,1-Dichloroethane	5.83	63	395362	10.96	ug/l	99
26) 2-Butanol	6.16	45	145862	274.45	ug/l	95
27) tert-Butyl ethyl ether (ET	6.23	59	473431	10.11	ug/l	95
28) 2-Butanone	6.43	43	191496	49.26	ug/l	93
29) 2,2-Dichloropropane	6.62	77	314528	10.19	ug/l	99
30) cis-1,2-Dichloroethene	6.68	96	242478	10.98	ug/l	98
31) Chloroform	6.90	83	425470	11.57	ug/l	97

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 5:24 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	Bromochloromethane	7.14	49	132435	9.69	ug/l		85
33)	Tetrahydrofuran	7.20	42	20258	9.38	ug/l		92
35)	1,1,1-Trichloroethane	7.49	97	370268	11.22	ug/l		100
36)	Cyclohexane	7.51	84	299434	8.79	ug/l		99
37)	2,2,4-Trimethylpentane	7.49	57	13041	7.91	ug/l	#	100
38)	1,1-Dichloropropene	7.72	110	99935	10.00	ug/l		98
39)	Carbon tetrachloride	7.86	119	277804	11.11	ug/l		99
40)	tert-Amyl methyl ether (TA	7.88	73	359473	9.99	ug/l		99
42)	Benzene	8.12	78	845668	10.76	ug/l		98
43)	1,2-Dichloroethane	8.10	62	208916	11.92	ug/l		98
44)	Trichloroethene	9.06	130	232753	11.20	ug/l		95
45)	Methylcyclohexane	9.15	83	332957	8.26	ug/l		97
46)	1,2-Dichloropropane	9.34	63	185997	10.51	ug/l		94
47)	Bromodichloromethane	9.71	83	277729	11.47	ug/l		98
48)	1,4-Dioxane	9.76	88	11629	171.95	ug/l		89
49)	Dibromomethane	9.80	93	84175	10.95	ug/l		98
50)	2-Chloroethyl vinyl ether	10.22	63	15961	11.84	ug/l		96
51)	4-Methyl-2-pentanone	10.25	43	449584	51.72	ug/l		96
52)	cis-1,3-Dichloropropene	10.60	75	290033	10.93	ug/l		98
55)	Toluene	11.15	91	909389	10.96	ug/l		99
56)	Ethyl methacrylate	11.43	69	139380	11.73	ug/l		88
57)	trans-1,3-Dichloropropene	11.46	75	224206	11.93	ug/l		99
58)	1,1,2-Trichloroethane	11.73	97	120740	11.82	ug/l		98
59)	2-Hexanone	11.74	43	279017	51.41	ug/l		95
60)	1,3-Dichloropropane	12.17	76	222202	11.55	ug/l		100
61)	Tetrachloroethene	12.28	164	191470	10.68	ug/l		99
62)	Dibromochloromethane	12.65	129	151710	12.47	ug/l		100
63)	1,2-Dibromoethane	13.02	107	107598	11.12	ug/l		96
64)	1-Chlorohexane	13.28	91	365314	9.43	ug/l		97
65)	Chlorobenzene	13.77	112	560580	11.29	ug/l		100
66)	1,1,1,2-Tetrachloroethane	13.85	131	195803	12.91	ug/l		99
67)	Ethylbenzene	13.86	91	1097273	11.18	ug/l		99
68)	m-Xylene & p-Xylene	13.99	91	1616699	20.86	ug/l		99
69)	o-Xylene	14.82	91	1040760	13.59	ug/l		100
70)	Styrene	14.88	104	786699	14.05	ug/l		98
71)	Isopropylbenzene	15.50	105	1348589	12.98	ug/l		99
73)	Bromoform	15.53	173	82079	8.79	ug/l		97
74)	trans-1,4-Dichloro-2-buten	15.61	53	37843	7.54	ug/l		87
75)	1,1,2,2-Tetrachloroethane	15.85	83	188811	10.97	ug/l		96
77)	1,2,3-Trichloropropane	16.13	110	50641	10.48	ug/l		92
78)	n-Propylbenzene	16.27	91	1891041	9.79	ug/l		98

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLingl
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 5:24 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

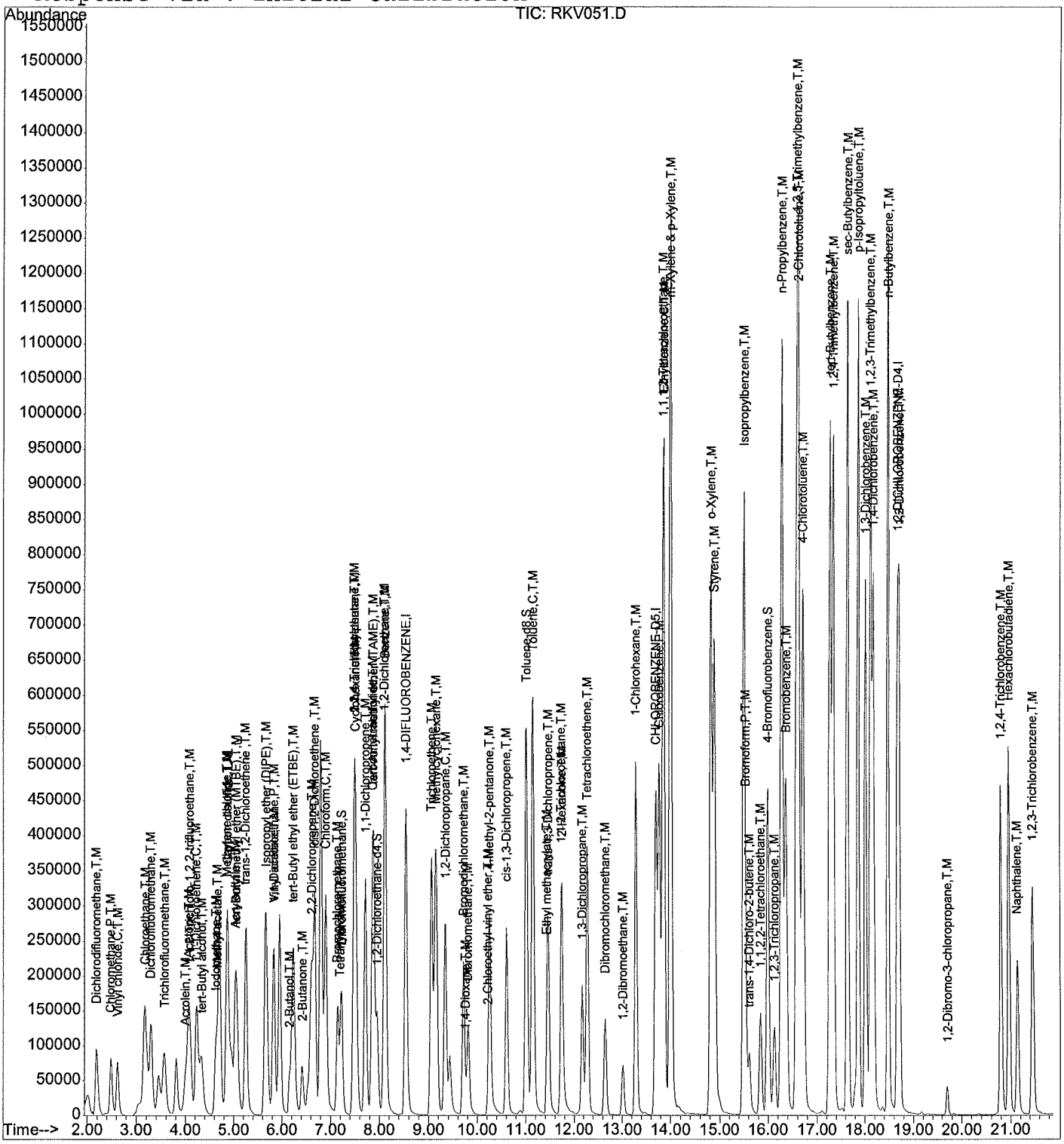
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79)	Bromobenzene	16.36	156	322988	11.54	ug/l	99
80)	1,3,5-Trimethylbenzene	16.59	105	1191645	9.97	ug/l	98
81)	2-Chlorotoluene	16.62	91	1170576	9.97	ug/l	95
82)	4-Chlorotoluene	16.70	91	1064496	10.16	ug/l	94
83)	tert-Butylbenzene	17.27	134	295144	10.96	ug/l	92
84)	1,2,4-Trimethylbenzene	17.34	105	1168311	10.00	ug/l	97
85)	sec-Butylbenzene	17.64	105	1680955	9.99	ug/l	96
86)	p-Isopropyltoluene	17.86	119	1294884	9.86	ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	634528	11.28	ug/l	97
88)	1,2,3-Trimethylbenzene	18.11	105	1063914	10.00	ug/l	97
89)	1,4-Dichlorobenzene	18.17	146	591970	10.59	ug/l	96
90)	n-Butylbenzene	18.48	91	1243190	8.66	ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	517121	11.27	ug/l	99
92)	1,2-Dibromo-3-chloropropan	19.71	157	24100	10.48	ug/l	97
93)	1,2,4-Trichlorobenzene	20.79	180	323793	10.43	ug/l	99
94)	Hexachlorobutadiene	20.95	225	215317	10.82	ug/l	100
95)	Naphthalene	21.13	128	397688	10.40	ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	248370	11.03	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV051.D Vial: 26
Acq On : 5 Nov 2024 5:03 am Operator: DNguye/CLing
Sample : EVO01J12201 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 5:24 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	125	0.00
2	T,M	Chlorotrifluoroethylene	-1.000	0.000	0.0	0	-2.08#
3	T,M	Dichlorodifluoromethane	10.000	6.995	30.0#	79	-0.08
4	T,M	2-Chloro-1,1,1-trifluoroeth	-1.000	0.000	0.0	0	-2.53#
5	P,T,M	Chloromethane	10.000	10.041	-0.4	114	-0.10
6	C,T,M	Vinyl chloride	10.000	10.121	-1.2	117	-0.08
7	T,M	Bromomethane	10.000	0.000	100.0#	0	-3.24#
8	T,M	Chloroethane	10.000	10.812	-8.1	129	-0.06
9	T,M	Dichlorofluoromethane	10.000	10.513	-5.1	161	-0.08
10	T,M	Trichlorofluoromethane	10.000	8.504	15.0	99	-0.07
11	T,M	Acrolein	50.000	55.298	-10.6	134	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	10.000	10.274	-2.7	133	-0.08
13	T,M	Acetone	50.000	48.690	2.6	118	-0.03
14	C,T,M	1,1-Dichloroethene	10.000	9.314	6.9	123	-0.03
15	T,M	tert-Butyl alcohol	250.000	237.416	5.0	112	-0.03
16	T,M	Iodomethane	10.000	11.294	-12.9	150	-0.03
17	T,M	Methyl acetate	10.000	10.711	-7.1	129	-0.03
18	T,M	Methylene chloride	10.000	10.625	-6.3	143	-0.03
19	T,M	Carbon disulfide	10.000	10.082	-0.8	121	-0.03
20	T,M	Acrylonitrile	50.000	62.300	-24.6#	147	-0.03
21	T,M	tert-Butyl methyl ether (MT	10.000	10.720	-7.2	130	-0.03
22	T,M	trans-1,2-Dichloroethene	10.000	9.856	1.4	131	-0.03
23	T,M	Isopropyl ether (DIPE)	10.000	10.448	-4.5	138	-0.03
24	T,M	Vinyl acetate	10.000	5.562	44.4#	60	-0.02
25	P,T,M	1,1-Dichloroethane	10.000	10.671	-6.7	142	-0.02
26	T,M	2-Butanol	250.000	294.110	-17.6	136	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	10.000	10.006	-0.1	127	-0.02
28	T,M	2-Butanone	50.000	52.463	-4.9	125	-0.02
29	T,M	2,2-Dichloropropane	10.000	8.755	12.4	115	-0.02
30	T,M	cis-1,2-Dichloroethene	10.000	11.171	-11.7	148	-0.02
31	C,T,M	Chloroform	10.000	10.552	-5.5	144	-0.02
32	T,M	Bromochloromethane	10.000	10.229	-2.3	129	-0.02
33	T,M	Tetrahydrofuran	10.000	10.435	-4.4	134	-0.02
34	S	Dibromofluoromethane	10.000	10.305	-3.0	131	-0.02
35	T,M	1,1,1-Trichloroethane	10.000	9.326	6.7	121	-0.02
36	T,M	Cyclohexane	10.000	8.308	16.9	102	-0.02
37	T,M	2,2,4-Trimethylpentane	10.000	7.915	20.8#	99	-0.03
38	T,M	1,1-Dichloropropene	10.000	10.075	-0.7	132	0.00
39	T,M	Carbon tetrachloride	10.000	9.300	7.0	119	-0.02
40	T,M	tert-Amyl methyl ether (TAM	10.000	10.044	-0.4	130	-0.02
41	S	1,2-Dichloroethane-d4	10.000	9.000	10.0	109	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T,M	Benzene	10.000	10.887	-8.9	146	-0.02
43	T,M	1,2-Dichloroethane	10.000	9.750	2.5	114	0.00
44	T,M	Trichloroethene	10.000	11.316	-13.2	151	0.00
45	T,M	Methylcyclohexane	10.000	8.119	18.8	104	-0.01
46	C,T,M	1,2-Dichloropropane	10.000	10.868	-8.7	143	-0.01
47	T,M	Bromodichloromethane	10.000	10.612	-6.1	136	0.00
48	T,M	1,4-Dioxane	200.000	202.762	-1.4	122	0.00
49	T,M	Dibromomethane	10.000	10.111	-1.1	125	0.00
50	T,M	2-Chloroethyl vinyl ether	10.000	12.783	-27.8#	185	0.00
51	T,M	4-Methyl-2-pentanone	50.000	52.617	-5.2	115	0.00
52	T,M	cis-1,3-Dichloropropene	10.000	10.585	-5.9	133	0.00
53	I	CHLOROBENZENE-D5	10.000	10.000	0.0	121	0.00
54	S	Toluene-d8	10.000	10.628	-6.3	132	-0.01
55	C,T,M	Toluene	10.000	10.864	-8.6	138	0.00
56	T,M	Ethyl methacrylate	10.000	11.450	-14.5	124	0.00
57	T,M	trans-1,3-Dichloropropene	10.000	10.834	-8.3	123	0.00
58	T,M	1,1,2-Trichloroethane	10.000	11.589	-15.9	135	0.00
59	T,M	2-Hexanone	50.000	50.457	-0.9	106	0.00
60	T,M	1,3-Dichloropropane	10.000	11.332	-13.3	135	0.00
61	T,M	Tetrachloroethene	10.000	10.177	-1.8	134	0.00
62	T,M	Dibromochloromethane	10.000	11.742	-17.4	139	0.00
63	T,M	1,2-Dibromoethane	10.000	10.910	-9.1	126	0.00
64	T,M	1-Chlorohexane	10.000	9.279	7.2	121	0.00
65	P,M	Chlorobenzene	10.000	10.957	-9.6	141	0.00
66	T,M	1,1,1,2-Tetrachloroethane	10.000	11.842	-18.4	149	0.00
67	C,T,M	Ethylbenzene	10.000	10.445	-4.5	132	0.00
68	T,M	m-Xylene & p-Xylene	20.000	19.188	4.1	131	0.00
69	T,M	o-Xylene	10.000	10.044	-0.4	114	0.00
70	T,M	Styrene	10.000	10.788	-7.9	119	0.00
71	T,M	Isopropylbenzene	10.000	9.861	1.4	114	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	107	0.00
73	P,T,M	Bromoform	10.000	10.457	-4.6	120	0.00
74	T,M	trans-1,4-Dichloro-2-butene	10.000	7.972	20.3#	79	0.00
75	T,M	1,1,2,2-Tetrachloroethane	10.000	10.904	-9.0	107	0.00
76	S	4-Bromofluorobenzene	10.000	9.792	2.1	106	0.02
77	T,M	1,2,3-Trichloropropane	10.000	10.668	-6.7	106	0.00
78	T,M	n-Propylbenzene	10.000	9.721	2.8	110	0.00
79	T,M	Bromobenzene	10.000	11.583	-15.8	131	0.00
80	T,M	1,3,5-Trimethylbenzene	10.000	9.970	0.3	114	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	10.000	9.735	2.7	112	0.00
82	T,M	4-Chlorotoluene	10.000	10.024	-0.2	115	0.01
83	T,M	tert-Butylbenzene	10.000	11.008	-10.1	123	0.00
84	T,M	1,2,4-Trimethylbenzene	10.000	10.006	-0.1	113	0.00
85	T,M	sec-Butylbenzene	10.000	9.704	3.0	107	0.00
86	T,M	p-Isopropyltoluene	10.000	9.711	2.9	110	0.00
87	T,M	1,3-Dichlorobenzene	10.000	11.090	-10.9	126	0.00
88	T,M	1,2,3-Trimethylbenzene	10.000	10.015	-0.2	113	0.01
89	T,M	1,4-Dichlorobenzene	10.000	10.846	-8.5	127	0.00
90	T,M	n-Butylbenzene	10.000	8.546	14.5	101	0.00
91	T,M	1,2-Dichlorobenzene	10.000	11.040	-10.4	125	0.00
92	T,M	1,2-Dibromo-3-chloropropane	10.000	10.721	-7.2	108	0.00
93	T,M	1,2,4-Trichlorobenzene	10.000	10.732	-7.3	122	0.00
94	T,M	Hexachlorobutadiene	10.000	10.637	-6.4	124	0.01
95	T,M	Naphthalene	10.000	10.688	-6.9	109	0.01
96	T,M	1,2,3-Trichlorobenzene	10.000	11.170	-11.7	121	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	125	0.00
2	T,M	Chlorotrifluoroethylene	0.000	0.000	0.0	0#	-2.08#
3	T,M	Dichlorodifluoromethane	0.411	0.287	30.2#	79	-0.08
4	T,M	2-Chloro-1,1,1-trifluoroeth	0.000	0.000	0.0	0#	-2.53#
5	P,T,M	Chloromethane	0.310	0.311	-0.3	114	-0.10
6	C,T,M	Vinyl chloride	0.273	0.277	-1.5	117	-0.08
7	T,M	Bromomethane	0.197	0.000	100.0#	0#	-3.24#
8	T,M	Chloroethane	0.207	0.224	-8.2	129	-0.06
9	T,M	Dichlorofluoromethane	0.380	0.399	-5.0	161	-0.08
10	T,M	Trichlorofluoromethane	0.445	0.378	15.1	99	-0.07
11	T,M	Acrolein	0.008	0.008	0.0	134	-0.03
12	T,M	1,1,2-Trichloro-1,2,2-trifl	0.183	0.188	-2.7	133	-0.08
13	T,M	Acetone	0.037	0.036	2.7	118	-0.03
14	C,T,M	1,1-Dichloroethene	0.467	0.435	6.9	123	-0.03
15	T,M	tert-Butyl alcohol	0.009	0.009	0.0	112	-0.03
16	T,M	Iodomethane	0.396	0.448	-13.1	150	-0.03
17	T,M	Methyl acetate	0.095	0.102	-7.4	129	-0.03
18	T,M	Methylene chloride	0.336	0.357	-6.2	143	-0.03
19	T,M	Carbon disulfide	0.976	0.984	-0.8	121	-0.03
20	T,M	Acrylonitrile	0.035	0.043	-22.9#	147	-0.03
21	T,M	tert-Butyl methyl ether (MT	0.462	0.495	-7.1	130	-0.03
22	T,M	trans-1,2-Dichloroethene	0.448	0.442	1.3	131	-0.03
23	T,M	Isopropyl ether (DIPE)	0.938	0.980	-4.5	138	-0.03
24	T,M	Vinyl acetate	0.300	0.167	44.3#	60	-0.02
25	P,T,M	1,1-Dichloroethane	0.525	0.561	-6.9	142	-0.02
26	T,M	2-Butanol	0.008	0.009	-12.5	136	-0.03
27	T,M	tert-Butyl ethyl ether (ETB	0.682	0.682	0.0	127	-0.02
28	T,M	2-Butanone	0.057	0.059	-3.5	125	-0.02
29	T,M	2,2-Dichloropropane	0.449	0.394	12.2	115	-0.02
30	T,M	cis-1,2-Dichloroethene	0.322	0.359	-11.5	148	-0.02
31	C,T,M	Chloroform	0.535	0.565	-5.6	144	-0.02
32	T,M	Bromochloromethane	0.199	0.204	-2.5	129	-0.02
33	T,M	Tetrahydrofuran	0.031	0.033	-6.5	134	-0.02
34	S	Dibromofluoromethane	0.261	0.269	-3.1	131	-0.02
35	T,M	1,1,1-Trichloroethane	0.481	0.448	6.9	121	-0.02
36	T,M	Cyclohexane	0.496	0.412	16.9	102	-0.02
37	T,M	2,2,4-Trimethylpentane	0.024	0.019	20.8#	99	-0.03
38	T,M	1,1-Dichloropropene	0.146	0.147	-0.7	132	0.00
39	T,M	Carbon tetrachloride	0.364	0.339	6.9	119	-0.02
40	T,M	tert-Amyl methyl ether (TAM	0.524	0.527	-0.6	130	-0.02
41	S	1,2-Dichloroethane-d4	0.230	0.207	10.0	109	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T,M	Benzene	1.145	1.247	-8.9	146	-0.02
43	T,M	1,2-Dichloroethane	0.255	0.249	2.4	114	0.00
44	T,M	Trichloroethene	0.303	0.343	-13.2	151	0.00
45	T,M	Methylcyclohexane	0.587	0.476	18.9	104	-0.01
46	C,T,M	1,2-Dichloropropane	0.258	0.280	-8.5	143	-0.01
47	T,M	Bromodichloromethane	0.353	0.374	-5.9	136	0.00
48	T,M	1,4-Dioxane	0.001	0.001	0.0	122	0.00
49	T,M	Dibromomethane	0.112	0.113	-0.9	125	0.00
50	T,M	2-Chloroethyl vinyl ether	0.016	0.025	-56.3#	185	0.00
51	T,M	4-Methyl-2-pentanone	0.127	0.133	-4.7	115	0.00
52	T,M	cis-1,3-Dichloropropene	0.386	0.409	-6.0	133	0.00
53	I	CHLOROBENZENE-D5	1.000	1.000	0.0	121	0.00
54	S	Toluene-d8	1.375	1.462	-6.3	132	-0.01
55	C,T,M	Toluene	1.585	1.722	-8.6	138	0.00
56	T,M	Ethyl methacrylate	0.227	0.260	-14.5	124	0.00
57	T,M	trans-1,3-Dichloropropene	0.359	0.389	-8.4	123	0.00
58	T,M	1,1,2-Trichloroethane	0.195	0.226	-15.9	135	0.00
59	T,M	2-Hexanone	0.104	0.105	-1.0	106	0.00
60	T,M	1,3-Dichloropropane	0.368	0.416	-13.0	135	0.00
61	T,M	Tetrachloroethene	0.343	0.349	-1.7	134	0.00
62	T,M	Dibromochloromethane	0.232	0.273	-17.7	139	0.00
63	T,M	1,2-Dibromoethane	0.185	0.202	-9.2	126	0.00
64	T,M	1-Chlorohexane	0.740	0.687	7.2	121	0.00
65	P,M	Chlorobenzene	0.949	1.040	-9.6	141	0.00
66	T,M	1,1,1,2-Tetrachloroethane	0.290	0.343	-18.3	149	0.00
67	C,T,M	Ethylbenzene	1.875	1.959	-4.5	132	0.00
68	T,M	m-Xylene & p-Xylene	1.481	1.421	4.1	131	0.00
69	T,M	o-Xylene	1.463	1.469	-0.4	114	0.00
70	T,M	Styrene	1.070	1.154	-7.9	119	0.00
71	T,M	Isopropylbenzene	1.986	1.958	1.4	114	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	107	0.00
73	P,T,M	Bromoform	0.246	0.301	-22.4#	120	0.00
74	T,M	trans-1,4-Dichloro-2-butene	0.154	0.123	20.1#	79	0.00
75	T,M	1,1,2,2-Tetrachloroethane	0.528	0.576	-9.1	107	0.00
76	S	4-Bromofluorobenzene	1.184	1.159	2.1	106	0.02
77	T,M	1,2,3-Trichloropropane	0.148	0.158	-6.8	106	0.00
78	T,M	n-Propylbenzene	5.921	5.756	2.8	110	0.00
79	T,M	Bromobenzene	0.858	0.993	-15.7	131	0.00
80	T,M	1,3,5-Trimethylbenzene	3.663	3.652	0.3	114	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.16min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T,M	2-Chlorotoluene	3.598	3.503	2.6	112	0.00
82	T,M	4-Chlorotoluene	3.211	3.219	-0.2	115	0.01
83	T,M	tert-Butylbenzene	0.826	0.909	-10.0	123	0.00
84	T,M	1,2,4-Trimethylbenzene	3.583	3.585	-0.1	113	0.00
85	T,M	sec-Butylbenzene	5.158	5.006	2.9	107	0.00
86	T,M	p-Isopropyltoluene	4.024	3.908	2.9	110	0.00
87	T,M	1,3-Dichlorobenzene	1.724	1.912	-10.9	126	0.00
88	T,M	1,2,3-Trimethylbenzene	3.261	3.266	-0.2	113	0.01
89	T,M	1,4-Dichlorobenzene	1.713	1.858	-8.5	127	0.00
90	T,M	n-Butylbenzene	4.403	3.763	14.5	101	0.00
91	T,M	1,2-Dichlorobenzene	1.406	1.553	-10.5	125	0.00
92	T,M	1,2-Dibromo-3-chloropropane	0.071	0.076	-7.0	108	0.00
93	T,M	1,2,4-Trichlorobenzene	0.952	1.022	-7.4	122	0.00
94	T,M	Hexachlorobutadiene	0.610	0.649	-6.4	124	0.01
95	T,M	Naphthalene	1.172	1.253	-6.9	109	0.01
96	T,M	1,2,3-Trichlorobenzene	0.690	0.771	-11.7	121	0.00

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 5:53 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.54	114	1095441	10.00	ug/l	0.00
53) CHLOROBENZENE-D5	13.70	117	830324	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.67	152	340306	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.21	111	294858	10.30	ug/l	-0.02
Spiked Amount 10.000			Recovery = 103.00%			
41) 1,2-Dichloroethane-d4	7.95	65	226835	9.00	ug/l	-0.02
Spiked Amount 10.000			Recovery = 90.00%			
54) Toluene-d8	11.00	98	1213547	10.63	ug/l	-0.01
Spiked Amount 10.000			Recovery = 106.30%			
76) 4-Bromofluorobenzene	15.99	95	394520	9.79	ug/l	0.02
Spiked Amount 10.000			Recovery = 97.90%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	2.17	85	314742	7.00	ug/l	100
5) Chloromethane	2.47	50	340981	10.04	ug/l	99
6) Vinyl chloride	2.61	62	303096	10.12	ug/l	98
8) Chloroethane	3.18	64	245436	10.81	ug/l	92
9) Dichlorofluoromethane	3.29	67	437178	10.51	ug/l	98
10) Trichlorofluoromethane	3.55	101	414301	8.50	ug/l	96
11) Acrolein	3.98	56	46312	55.30	ug/l	91
12) 1,1,2-Trichloro-1,2,2-trif	4.07	151	206091	10.27	ug/l	98
13) Acetone	4.06	43	196953	48.69	ug/l	82
14) 1,1-Dichloroethene	4.22	61	476016	9.31	ug/l	94
15) tert-Butyl alcohol	4.34	59	240268	237.42	ug/l	99
16) Iodomethane	4.63	142	490367	11.29	ug/l	91
17) Methyl acetate	4.65	43	111754	10.71	ug/l	96
18) Methylene chloride	4.86	49	391446	10.63	ug/l	91
19) Carbon disulfide	4.87	76	1077738	10.08	ug/l	100
20) Acrylonitrile	5.02	53	236723	62.30	ug/l	96
21) tert-Butyl methyl ether (M	5.05	73	542552	10.72	ug/l	91
22) trans-1,2-Dichloroethene	5.24	61	483756	9.86	ug/l	95
23) Isopropyl ether (DIPE)	5.66	45	1073832	10.45	ug/l	95
24) Vinyl acetate	5.83	43	182912	5.56	ug/l	93
25) 1,1-Dichloroethane	5.82	63	614232	10.67	ug/l	100
26) 2-Butanol	6.15	45	249406	294.11	ug/l	92
27) tert-Butyl ethyl ether (ET	6.23	59	747581	10.01	ug/l	96
28) 2-Butanone	6.41	43	325422	52.46	ug/l	93
29) 2,2-Dichloropropane	6.62	77	431081	8.76	ug/l	98
30) cis-1,2-Dichloroethene	6.68	96	393779	11.17	ug/l	93
31) Chloroform	6.90	83	618969	10.55	ug/l	96

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 5:53 2024 Quant Results File: VO01J12.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
32)	Bromochloromethane	7.14	49	223128	10.23	ug/l		87
33)	Tetrahydrofuran	7.20	42	35968	10.43	ug/l		94
35)	1,1,1-Trichloroethane	7.48	97	491267	9.33	ug/l		99
36)	Cyclohexane	7.51	84	451535	8.31	ug/l		99
37)	2,2,4-Trimethylpentane	7.49	57	20814	7.91	ug/l	#	100
38)	1,1-Dichloropropene	7.71	110	160698	10.07	ug/l		100
39)	Carbon tetrachloride	7.86	119	370933	9.30	ug/l		98
40)	tert-Amyl methyl ether (TA	7.88	73	576840	10.04	ug/l		98
42)	Benzene	8.11	78	1365671	10.89	ug/l		97
43)	1,2-Dichloroethane	8.10	62	272587	9.75	ug/l		99
44)	Trichloroethene	9.06	130	375379	11.32	ug/l		93
45)	Methylcyclohexane	9.14	83	521913	8.12	ug/l		96
46)	1,2-Dichloropropane	9.33	63	306767	10.87	ug/l		94
47)	Bromodichloromethane	9.71	83	409957	10.61	ug/l		100
48)	1,4-Dioxane	9.76	88	21880	202.76	ug/l		90
49)	Dibromomethane	9.80	93	123962	10.11	ug/l		90
50)	2-Chloroethyl vinyl ether	10.22	63	27676	12.78	ug/l		96
51)	4-Methyl-2-pentanone	10.25	43	729781	52.62	ug/l		94
52)	cis-1,3-Dichloropropene	10.60	75	447989	10.58	ug/l		97
55)	Toluene	11.15	91	1429591	10.86	ug/l		99
56)	Ethyl methacrylate	11.43	69	215820	11.45	ug/l		85
57)	trans-1,3-Dichloropropene	11.46	75	322884	10.83	ug/l		96
58)	1,1,2-Trichloroethane	11.73	97	187741	11.59	ug/l		100
59)	2-Hexanone	11.74	43	434466	50.46	ug/l		89
60)	1,3-Dichloropropane	12.17	76	345821	11.33	ug/l		98
61)	Tetrachloroethene	12.28	164	289440	10.18	ug/l		97
62)	Dibromochloromethane	12.65	129	226616	11.74	ug/l		98
63)	1,2-Dibromoethane	13.02	107	167475	10.91	ug/l		97
64)	1-Chlorohexane	13.28	91	570495	9.28	ug/l		98
65)	Chlorobenzene	13.77	112	863225	10.96	ug/l		99
66)	1,1,1,2-Tetrachloroethane	13.85	131	284864	11.84	ug/l		99
67)	Ethylbenzene	13.86	91	1626395	10.45	ug/l		97
68)	m-Xylene & p-Xylene	13.99	91	2359777	19.19	ug/l		96
69)	o-Xylene	14.82	91	1219958	10.04	ug/l		98
70)	Styrene	14.88	104	958410	10.79	ug/l		98
71)	Isopropylbenzene	15.50	105	1625893	9.86	ug/l		99
73)	Bromoform	15.53	173	102317	10.46	ug/l		99
74)	trans-1,4-Dichloro-2-buten	15.61	53	41742	7.97	ug/l		84
75)	1,1,2,2-Tetrachloroethane	15.85	83	195850	10.90	ug/l		99
77)	1,2,3-Trichloropropane	16.13	110	53794	10.67	ug/l		94
78)	n-Propylbenzene	16.27	91	1958942	9.72	ug/l		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLingl
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 5:53 2024 Quant Results File: VO01J12.RES

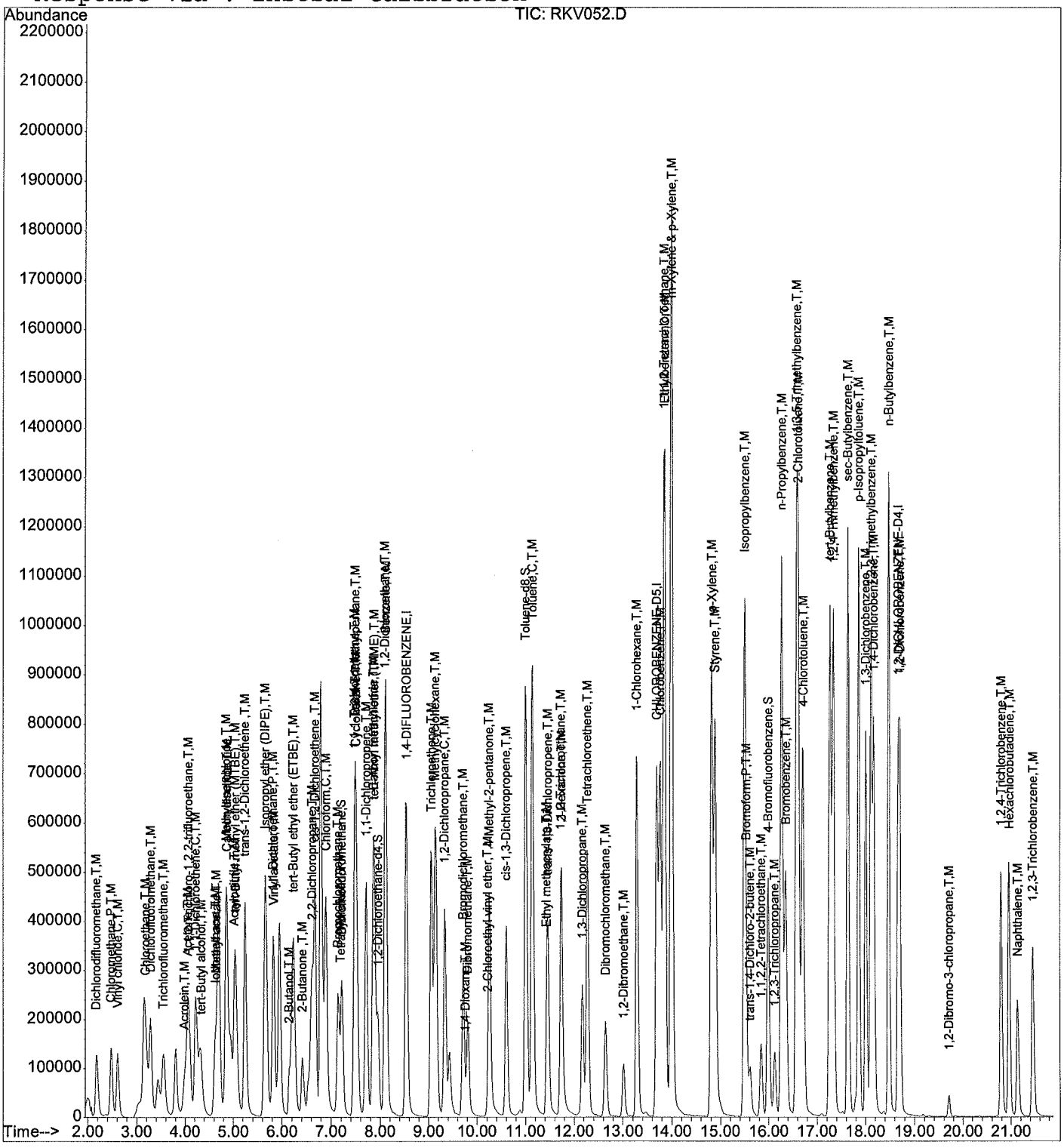
Quant Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration
DataAcq Meth : VO01J12

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79)	Bromobenzene	16.36	156	338077	11.58	ug/l	99
80)	1,3,5-Trimethylbenzene	16.59	105	1242826	9.97	ug/l	97
81)	2-Chlorotoluene	16.62	91	1192108	9.74	ug/l	89
82)	4-Chlorotoluene	16.72	91	1095296	10.02	ug/l	100
83)	tert-Butylbenzene	17.27	134	309304	11.01	ug/l	99
84)	1,2,4-Trimethylbenzene	17.34	105	1220016	10.01	ug/l	98
85)	sec-Butylbenzene	17.64	105	1703477	9.70	ug/l	97
86)	p-Isopropyltoluene	17.86	119	1329942	9.71	ug/l	97
87)	1,3-Dichlorobenzene	18.01	146	650676	11.09	ug/l	96
88)	1,2,3-Trimethylbenzene	18.13	105	1111577	10.02	ug/l	97
89)	1,4-Dichlorobenzene	18.17	146	632353	10.85	ug/l	97
90)	n-Butylbenzene	18.48	91	1280534	8.55	ug/l	98
91)	1,2-Dichlorobenzene	18.70	146	528352	11.04	ug/l	98
92)	1,2-Dibromo-3-chloropropan	19.71	157	25731	10.72	ug/l	100
93)	1,2,4-Trichlorobenzene	20.79	180	347690	10.73	ug/l	99
94)	Hexachlorobutadiene	20.97	225	220887	10.64	ug/l	99
95)	Naphthalene	21.15	128	426279	10.69	ug/l	99
96)	1,2,3-Trichlorobenzene	21.46	180	262305	11.17	ug/l	98

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\24K04\RKV052.D Vial: 27
Acq On : 5 Nov 2024 5:31 am Operator: DNguye/CLing
Sample : EVO01J12202 Inst : 01
Misc : 10ppb 8260/50ppb KET-AA/250ppb TBA Multiplr: 1.00
MS Integration Params: RTE.P
Quant Time: Nov 5 5:53 2024 Quant Results File: VO01J12.RES

Method : D:\HPCHEM\1\METHODS\VO01J12.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Wed Oct 23 17:10:41 2024
Response via : Initial Calibration



ANALYTICAL LOGS

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

K

VARIED AMOUNT

Book #:	A06-083
Instrument No.:	06
Analytical Sequence:	24J1a
Method File:	V006J1a
Analytical Batch:	V006J1a6

INITIAL CALIBRATION REFERENCE			
DATE	10/1a/24		
ICAL ID	V006J1a		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC CS2	SV1-45-24-03	K	250
DCC SA's	-37-01		
DCC HADD	-42-03		
DCC 8260 Set	-42-02 -40-03		
BFB	-42-01	1	50
IS/SURR.	-35-03 -36-01	1 K	250 250
ICV/LCS	-35-01	1	250
ICV/LCS	-31-03	1	250
ICV/LCS	-43-01	5	50
ICV/LCS	-26-03 -21-03	5 5	50 250
Data File Folder	24J1a		

	LOT #	Syringe Lot #
pH strip		MSV-03-04
Chlorine strip		-03-035
Methanol		-03-0323
$NaHSO_4$		-03-0224
Reagent Water	RW3-23-001	
Sand		

SOP #
☐ EMAX-8260 Rev. No. 10
☐ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1
PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☐ 25-mL Purge
SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☐ Water
☐ pH <2. Outliers indicated on analytical sequence.
☐ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐ pH <2 and Cl2 are not applicable.

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/T006	

Analyzed By: DM

Date: 10/19/24

Disposed By: DM

Date Disposed: 10/30/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24J19

Line	Vial	FileName	Multiplier	SampleName		Misc Info	Injected
1	1	RIW358.D	1.	BFB06J17		T/CHK	19 Oct 2024 15:14
2	2	RIW359.D	1.	VO06J191	0.03/0.15uL	0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA	19 Oct 2024 15:59
3	3	RIW360.D	1.	VO06J192	0.05/0.25uL	0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA	19 Oct 2024 16:26
4	4	RIW361.D	1.	VO06J193	0.10/0.50uL	1.0ppb 8260/5.0ppb KET-AA/25ppb TBA	19 Oct 2024 16:53
5	5	RIW362.D	1.	VO06J194	0.20/1.00uL	2.0ppb 8260/10ppb KET-AA/50ppb TBA	19 Oct 2024 17:19
6	6	RIW363.D	1.	VO06J195	0.50/2.50uL	5.0ppb 8260/25ppb KET-AA/125ppb TBA	19 Oct 2024 17:45
7	7	RIW364.D	1.	VO06J196	1.00/5.00uL	10ppb 8260/50ppb KET-AA/250ppb TBA	19 Oct 2024 18:11
8	8	RIW365.D	1.	VO06J197	2.00/10.0uL	20ppb 8260/100ppb KET-AA/500ppb TBA	19 Oct 2024 18:38
9	9	RIW366.D	1.	VO06J198	3.00/15.0uL	30ppb 8260/150ppb KET-AA/750ppb TBA	19 Oct 2024 19:04
10	10	RIW367.D	1.	VO06J199	5.00/25.0uL	50ppb 8260/250ppb KET-AA/1250ppb TBA	19 Oct 2024 19:30
11	11	RIW368.D	1	VO06J1910	10.0/50.0uL	100ppb 8260/500ppb KET-AA/2500ppb TBA	19 Oct 2024 19:57
12	12	RIW369.D	1.	RINSE			19 Oct 2024 20:23
13	13	RIW370.D	1.	RINSE			19 Oct 2024 20:49
14	14	RIW371.D	1.	IVO06J191		10ppb 8260/50ppb KET-AA/250ppb TBA	19 Oct 2024 21:15
15	15	RIW372.D	1.	RINSE			19 Oct 2024 21:41
16	16	RIW373.D	1.	LOD1 0.02/0.10		0.2ppb 8260/4.0ppb KET-AA/5.0ppb TBA	19 Oct 2024 22:07
17	17	RIW374.D	1.	LOD2 0.03/0.15		0.4ppb 8260/4.0ppb KET-AA/10ppb TBA	19 Oct 2024 22:34

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments: * Varied Amounts

Book #:	A01-077
Instrument No.:	01
Analytical Sequence:	24J12
Method File:	V001J12
Analytical Batch:	V001J126

INITIAL CALIBRATION REFERENCE			
DATE	10/12/24		
ICAL ID	V001J12		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC	SVI-45-36-03 -37-01	*	25 250
DCC	-32-02		250
DCC	-32-03		50
DCC	-40-02	↓	250
BFB	-41-03	1	50
IS/SURR.	SVI-45-37-02 -37-03	1 *	250 250
ICV/LCS	-35-01	1	250
ICV/LCS	-34-03	1	250
ICV/LCS	-26-03 -21-03	5 5	50 250
ICV/LCS	-43-01	5	50
Data File Folder	24J12		
	LOT #	Syringe Lot #	
pH strip	N/A	MSV-03-04-12-4	
Chlorine strip	↓	-6	
Methanol		-03-23	
$NaHSO_4$		-02-24	
Reagent Water	RW3-23-001		
Sand			

SOP #
☑ EMAX-8260 Rev. No. 10
☐ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1

PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☑ 25-mL Purge

SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☐ Water
☐ pH <2. Outliers indicated on analytical sequence.
☐ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☑ pH <2 and Cl2 are not applicable.

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO01	

Analyzed By: [signature]

Date: 10/12/24

Disposed By: [signature]

Date Disposed: 10/13/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24J12

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RJV296.D	1.	BFB01J13	T/CHK	12 Oct 2024 12:56
2	2	RJV297.D	1.	VO01J121 0.03/0.15	0.3ppb 8260/1.5ppb KET-AA/7.5ppb TBA	12 Oct 2024 13:38
3	3	RJV298.D	1.	VO01J122 0.05/0.25	0.5ppb 8260/2.5ppb KET-AA/12.5ppb TBA	12 Oct 2024 14:08
4	4	RJV299.D	1.	VO01J123 0.1/0.5	1ppb 8260/5ppb KET-AA/25ppb TBA	12 Oct 2024 14:39
5	5	RJV300.D	1.	VO01J124 0.2/1.0	2ppb 8260/10ppb KET-AA/50ppb TBA	12 Oct 2024 15:09
6	6	RJV301.D	1.	VO01J125 0.5/2.5	5ppb 8260/25ppb KET-AA/125ppb TBA	12 Oct 2024 15:39
7	7	RJV302.D	1.	VO01J126 1.0/5.0	10ppb 8260/50ppb KET-AA/250ppb TBA	12 Oct 2024 16:08
8	8	RJV303.D	1.	VO01J127 2.0/10	20ppb 8260/100ppb KET-AA/500ppb TBA	12 Oct 2024 16:38
9	9	RJV304.D	1.	VO01J128 5.0/25	50ppb 8260/250ppb KET-AA/1250ppb TBA	12 Oct 2024 17:08
10	10	RJV305.D	1.	VO01J129 3.0/15	30ppb 8260/150ppb KET-AA/750ppb TBA	12 Oct 2024 17:38
11	11	RJV306.D	1.	VO01J1210 10/50	100ppb 8260/500ppb KET-AA/2500ppb TBA	12 Oct 2024 18:07
12	12	RJV307.D	1.	RINSE		12 Oct 2024 18:37
13	13	RJV308.D	1.	RINSE		12 Oct 2024 19:07
14	14	RJV309.D	1.	IVO01J1201 1.0/5.0	10ppb 8260/50ppb KET-AA/250ppb TBA	12 Oct 2024 19:36
15	15	RJV310.D	1.	RINSE		12 Oct 2024 20:06
16	16	RJV311.D	1.	LOD1	0.2ppb 8260/4.0ppb KET-AA/5.0ppb TBA	12 Oct 2024 20:36
17	17	RJV312.D	1.	LOD2	0.3ppb 8260/4.0ppb KET-AA/5.0ppb TBA	12 Oct 2024 21:05

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
VOLATILES

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #: A06-083
Instrument No.: 06
Analytical Sequence: 24J10
Method File: CV006J19
Analytical Batch: CV006J199

INITIAL CALIBRATION REFERENCE			
DATE	10/19/2024		
ICAL ID	V006J19		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC CS2	SV1 45 24 03	1	250
DCC GAS	SV1 45 37 01	1	250
DCC 4A00	SV1 45 42 03	1	250
DCC 8260 KET	SV1 45 42 02 SV1 45 40 03	5 5	250 250
BFB	SV1 45 42 01	1	50
IS/SURR.	SV1 45 35 03 SV1 45 36 01	1 1	250 250
ICV/LCS	SV1 45 35 01	1	250
ICV/LCS	SV1 45 31 03	1	250
ICV/LCS	SV1 45 43 01	5	50
ICV/LCS	SV1 45 26 03 SV1 45 21 03	5 5	50 250
Data File Folder	24J19		
	LOT #	Syringe Lot #	
pH strip	HC439975	MSV 03 04 126	
Chlorine strip	213906 2333013	MSV 03 35 124	
Methanol		MSV 03 03 23	
$NaHSO_4$	RW3 23 001	MSV 03 02 24	
Reagent Water			
Sand			

SOP #
☒ EMAX-8260 Rev. No. 10
☐ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1
PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☒ 25-mL Purge
SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☒ Water
☒ pH <2. Outliers indicated on analytical sequence.
☒ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐ pH <2 and Cl2 are not applicable.

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/T006	

Analyzed By: MW/DM
Date: 10/30/24
Disposed By: MW
Date Disposed: 10/31/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24J30

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RIW541.D	1.	BFB06J26	T/CHK	30 Oct 2024 09:13
2	2	RIW542.D	1.	CVO06J199	10ppb 8260/50ppb KET-AA/250ppb TBA	30 Oct 2024 09:56
3	3	RIW543.D	1.	VO06J26L	10ppb 8260/50ppb KET-AA/250ppb TBA	30 Oct 2024 10:23
4	4	RIW544.D	1.	VO06J26C	10ppb 8260/50ppb KET-AA/250ppb TBA	30 Oct 2024 10:49
5	5	RIW545.D	1.	RINSE	10ppb 8260/50ppb KET-AA/250ppb TBA	30 Oct 2024 11:28
6	6	RIW546.D	1.	VO06J26B	25mL	30 Oct 2024 11:54
7	7	RIW547.D	1.	24J143-04	25mL	30 Oct 2024 12:21
8	8	RIW548.D	1.	24J143-05	25mL	30 Oct 2024 12:47
9	9	RIW549.D	1.	24J143-06	25mL	30 Oct 2024 13:13
10	10	RIW550.D	1.	24J143-07	25mL	30 Oct 2024 13:39
11	11	RIW551.D	1.	24J143-08	25mL	30 Oct 2024 14:06
12	12	RIW552.D	1.	24J143-09	25mL	30 Oct 2024 14:31
13	13	RIW553.D	1.	24J143-10	25mL	30 Oct 2024 14:58
14	14	RIW554.D	1.	24J143-11	25mL	30 Oct 2024 15:24
15	15	RIW555.D	1.	24J143-12	25mL	30 Oct 2024 15:51
16	16	RIW556.D	1.	24J143-13	25mL	30 Oct 2024 16:17
17	17	RIW557.D	1.	24J146-01	25mL	30 Oct 2024 16:43
18	18	RIW558.D	1.	24J146-02	25mL	30 Oct 2024 17:09
19	19	RIW559.D	1.	24J137-01	25mL	30 Oct 2024 17:36
20	20	RIW560.D	1.	24J137-02	25mL	30 Oct 2024 18:02
21	21	RIW561.D	1.	24J137-03	25mL	30 Oct 2024 18:28
22	22	RIW562.D	1.	24J169-01	25mL	30 Oct 2024 18:54
23	23	RIW563.D	1.	24J169-02	25mL	30 Oct 2024 19:21
24	24	RIW564.D	1.	24J169-03	25mL	30 Oct 2024 19:47
25	25	RIW565.D	1.	24J169-04	25mL	30 Oct 2024 20:13
26	26	RIW566.D	1.	24J143-05M	25mL	30 Oct 2024 20:40
27	27	RIW567.D	1.	24J143-05S	25mL	30 Oct 2024 21:06
28	28	RIW568.D	1.	RINSE	25mL	30 Oct 2024 21:32
29	29	RIW569.D	1.	EVO06J199	10ppb 8260/50ppb KET-AA/250ppb TBA	30 Oct 2024 21:59
30	30	RIW570.D	1.	EVO06J1991	10ppb 8260/50ppb KET-AA/250ppb TBA	30 Oct 2024 22:24
31	31	RIW571.D	1.	EVO06J1992	10ppb 8260/50ppb KET-AA/250ppb TBA	30 Oct 2024 22:51
32	32	RIW572.D	1.	RINSE	25mL	30 Oct 2024 23:17

Revised Report

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #:	A01-077
Instrument No.:	01
Analytical Sequence:	24K04
Method File:	V001J12
Analytical Batch:	CV001J1220

INITIAL CALIBRATION REFERENCE			
DATE	10/12/24		
ICAL ID	V001J12		
STANDARDS			
NAME	ID	Amount (µl)	Conc. (mg/L)
DCC	SV1-45-36-03	1	
DCC	-37-01	1	
DCC	~~-26-03~~ -32-02	1 5	
DCC	-32-03 -40-03	5	
BFB	-41-03	1	50/250
IS/SURR.	-29-03	5	
ICV/LCS	-35-01	1	
ICV/LCS	-34-03	1	
ICV/LCS	-26-03 -21-03	5 5	
ICV/LCS	✓ -43-01	5	
Data File Folder	24K04		
	LOT #	Syringe Lot #	
pH strip	HC443 849-75	MSV-03-09-12-4	
Chlorine strip	301902	↓ 6	
Methanol			
$NaHSO_4$			
Reagent Water	RW3-23-01		
Sand			

SOP #
☐ EMAX-8260 Rev. No. 10
☐ EMAX-8260C Rev. No. 1
☐ EMAX-8260SIM Rev. No. 1
☐ EMAX-M8260SIM Rev. No. 0
☐ EMAX-TCPSIM Rev. No. 2
☐ EMAX-624 Rev. No. 6
☐ EMAX-624.1 Rev. No. 1
PURGE AMOUNT
☐ 5-mL Purge
☐ 10-mL Purge
☐ 25-mL Purge
SAMPLE MATRIX
☐ Soil (refer to sample weight log)
☐ Water
☐ pH <2. Outliers indicated on analytical sequence.
☐ Cl_2 <5ppm. Outliers indicated on analytical sequence.
☐ pH <2 and Cl2 are not applicable.

ELECTRONIC DATA ARCHIVAL	
Location	Date
HPCHEM_VOA/TO01	

Analyzed By: CL/DM

Date: 11/14/24

Disposed By: CL

Date Disposed: 11/15/24

Injection Log

Directory: D:\HPCHEM\1\DATA\24K04

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RKV026.D	1.	BFB01K02	25mL	4 Nov 2024 16:49
2	2	RKV027.D	1.	CVO01J1220	10ppb 8260/50ppb KET-AA/250ppb TBA	4 Nov 2024 17:28
3	3	RKV028.D	1.	VO01K02L	10ppb 8260/50ppb KET-AA/250ppb TBA	4 Nov 2024 17:58
4	4	RKV029.D	1.	VO01K02C	10ppb 8260/50ppb KET-AA/250ppb TBA	4 Nov 2024 18:27
5	5	RKV030.D	1.	RINSE	25mL	4 Nov 2024 18:56
6	6	RKV031.D	1.	VO01K02B	25mL	4 Nov 2024 19:26
7	7	RKV032.D	1.	24J169-05	25mL	4 Nov 2024 19:55
8	8	RKV033.D	1.	24J169-06	25mL	4 Nov 2024 20:24
9	9	RKV034.D	1.	24J169-07	25mL	4 Nov 2024 20:53
10	10	RKV035.D	1.	24J169-08	25mL	4 Nov 2024 21:22
11	11	RKV036.D	1.	24J169-09	25mL	4 Nov 2024 21:51
12	12	RKV037.D	1.	24J169-10	25mL	4 Nov 2024 22:20
13	13	RKV038.D	1.	24J168-07	25mL	4 Nov 2024 22:49
14	14	RKV039.D	1.	24J168-08	25mL	4 Nov 2024 23:17
15	15	RKV040.D	1.	24J168-09	25mL	4 Nov 2024 23:46
16	16	RKV041.D	1.	24J168-10	25mL	5 Nov 2024 00:15
17	17	RKV042.D	1.	24J168-11	25mL	5 Nov 2024 00:43
18	18	RKV043.D	1.	24J168-12	25mL	5 Nov 2024 01:12
19	19	RKV044.D	1.	24J168-13	25mL	5 Nov 2024 01:41
20	20	RKV045.D	1.	24J168-14	25mL	5 Nov 2024 02:09
21	21	RKV046.D	1.	24J168-15	25mL	5 Nov 2024 02:38
22	22	RKV047.D	1.	24J168-16	25mL	5 Nov 2024 03:07
23	23	RKV048.D	1.	24J168-17	25mL	5 Nov 2024 03:36
24	24	RKV049.D	1.	24J168-18	25mL	5 Nov 2024 04:05
25	25	RKV050.D	1.	EVO01J1220	10ppb 8260/50ppb KET-AA/250ppb TBA	5 Nov 2024 04:33
26	26	RKV051.D	1.	EVO01J12201	10ppb 8260/50ppb KET-AA/250ppb TBA	5 Nov 2024 05:03
27	27	RKV052.D	1.	EVO01J12202	10ppb 8260/50ppb KET-AA/250ppb TBA	5 Nov 2024 05:31
28	28	RKV053.D	1.	RINSE	25mL	5 Nov 2024 06:00

STANDARD LOGS

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-13-10	Cust. VOA Mix 73-6047	2000 ppm	250 µL	50 ppm
-13-20	Oxygenated Gas	↓	↓	↓
-13-18	1-Chlorohexane	↓	↓	↓
-13-08	2-CLEVE	↓	↓	↓
-13-13	1,2,3 TMB	2500 ppm	200 µL	↓
-12-11	TBA	50 000 ppm	↓	1000 ppm
			IR 7/26/24	

Standard ID	SV1-45-21-01
Name	8260 (1°)
Final Volume	10 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	7/26/24
Exp. Date	1/26/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-08-11	2-Butanol	50000 ppm	100 µL	2500 ppm
-13-19	Cyclohexane	2000 ppm	250 µL	250 ppm
-14-02	Methyl Cyclohexane	2500 ppm	200 µL	↓
-14-01	Methyl Acetate	↓	↓	↓
			IR 7/30/24	

Standard ID	SV1-45-21-02
Name	4 Add (1°)
Final Volume	2.0 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	7/30/24
Exp. Date	1/30/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-09	Ketone Soln.	2500 ppm	1000 µL	250 ppm
-16-05	Acrolein + Acrylonitrile	2000 ppm	1250 µL	↓
			IR 7/30/24	

Standard ID	SV1-45-21-03
Name	KET-AA (2°)
Final Volume	10. mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	7/30/24
Exp. Date	10/31/24
Prepared By	IR

Syringe ID: MSV-03-01-16
03-03-05

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-13-04	FLUOROBENZENE Mix	2000ppm	250 µL	250ppm
↓ -38-06-03	524.2 Surr. Std. Mix	↓	↓	↓
		IR 8/19/24		

Standard ID	SV1-45-26-01
Name	524.2 IS/SS
Final Volume	2.0mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	8/19/24
Exp. Date	2/19/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-10	8260 Gases	2000ppm	1250µL	250ppm
↓ -13	Vinyl Acetate	↓	↓	↓
			IR 8/19/24	

Standard ID	SV1-45-26-02
Name	Gas (2°)
Final Volume	10mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	8/19/24
Exp. Date	9/22/24
Prepared By	IR

Syringe ID: MSV-03-01-16
-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-14-12	Cyclohexane	1000ppm	500 µL	50ppm
↓ -15-02	Methyl Cyclohexane	↓	↓	↓
↓ -14-18	Methyl Acetate			
			IR 8/19/24	

Standard ID	SV1-45-26-03
Name	3 Add (2°)
Final Volume	10mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	8/19/24
Exp. Date	2/19/25
Prepared By	IR

Syringe ID: MSV-03-01-16

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-16	VOC GAS STD	2000ppm	1250µL	250ppm
SV1-38-15-17	VINYL ACETATE	25000ppm	1000µL	250ppm
				CL 9/9/24

Standard ID	SV1-45-32-01
Name	Gas (1°)
Final Volume	10 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/9/24
Exp. Date	3/9/25
Prepared By	DM

Syringe ID: DM MSV-03-04

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-14-10	2-Butanol	50000ppm	100µL	2500ppm
-13-19	Cyclohexane	2000ppm	250µL	250ppm
-14-2	Methyl Cyclohexane	2500ppm	200µL	↓
-14-01	Methyl Acetate	↓	↓	↓
				CL 9/9/24

Standard ID	SV1-45-32-02
Name	4ADD (1°)
Final Volume	2.0 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/9/24
Exp. Date	3/9/25
Prepared By	DM

Syringe ID: MSV-03-03-04

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-13-09	Cust. VOA Mix 73-6047	2000ppm	250µL	50ppm
-13-20	Oxygenated Comp.	↓	↓	↓
-13-18	1-Chlorohexane			
-13-08	2-CLEVE			
-13-13	1,2,3. TMB	2500ppm	200µL	
-12-11	TBA	50000ppm	↓	1000ppm
			DM	

Standard ID	SV1-45-32-03
Name	8260 (1°)
Final Volume	10 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/9/24
Exp. Date	3/9/25
Prepared By	DM

Syringe ID: MSV-03-03-04

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SVIA-38-15-07	54	2000 ppm	250 µL	500ppm
			DM 9/13/24	

Standard ID	SV1-45-34-01
Name	55(524)
Final Volume	2.0 mL
MeOH Solvent ID	SVIA-011-24-01
Prep. Date	9/13/24
Exp. Date	2/13/25
Prepared By	DM

Syringe ID: MSV-03-01-11

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SVI-38-13-04	~~5~~ Fluorobenzene Mix	2000 ppm	250 µL	250 ppm
↓ 38-06-03	524.2 Surr. Std. Mix	↓	↓	↓

Standard ID	SV1-45-34-02
Name	524.2 IS/SS
Final Volume	2.0 mL
MeOH Solvent ID	SVIA-011-24-01
Prep. Date	9/13/24
Exp. Date	2/13/25
Prepared By	

Syringe ID: MSV-03-01-11

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SVI-38-15-10	8260 GASES	2000 ppm	1.25mL	250 ppm
↓ -16-07	Vinyl Acetate	↓	↓	↓
			JR	9/23/24

Standard ID	SV1-45-34-03
Name	GAS (20)
Final Volume	10 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/23/24
Exp. Date	12/17/24
Prepared By	JR

Syringe ID: MSV-03-01-14
03-03-05

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-08	Carbon Disulfide	5000ppm	5.00 µL	250ppm
				IR 9/23/24

Standard ID	SV1-45-35-01
Name	CS_2 (2°)
Final Volume	10mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/23/24
Exp. Date	3/23/25
Prepared By	IR

Syringe ID: MSV-03-01-14

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-08	Carbon Disulfide	5000ppm	500 µL	250ppm
				9/23/24

Standard ID	SV1-45-35-02
Name	CS_2 (2°)
Final Volume	10mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/23/24
Exp. Date	3/23/25
Prepared By	IR

Syringe ID: MSV-03-01-14

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-04	8260IS	2500ppm	1.0mL	250ppm
				DM 9/23/24

Standard ID	SV1-45-35-03
Name	IS
Final Volume	10mL
MeOH Solvent ID	SVIA-011-24-01
Prep. Date	9/23/24
Exp. Date	2/24/25
Prepared By	DM

Syringe ID: MSV-02-01-14

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-W-07	8260A	2500ppm	1.0mL	250ppm
			DM 9/23/24	

Standard ID	SV1-45-36-01
Name	SS
Final Volume	10mL
MeOH Solvent ID	SWA-011-24-01
Prep. Date	9/23/24
Exp. Date	2/23/25
Prepared By	DM

Syringe ID: MSV-02-01-14

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-10	Carbon Disulfide Solution	5000 ppm	500 µL	250 ppm
				IR 9/25/24

Standard ID	SV1-45-36-02
Name	CS_2 (1°)
Final Volume	10 mL
MeOH Solvent ID	SW1A-011-24-01
Prep. Date	9/25/2024
Exp. Date	03/25/2025
Prepared By	I.R. IR 9/25/24

Syringe ID: MSV-03-01-14

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-10	Carbon Disulfide	5000ppm	500 µL	250 ppm
				IR 9/25/24

Standard ID	SV1-45-36-03
Name	CS_2 (1°)
Final Volume	10 mL
MeOH Solvent ID	SW1A-011-24-01
Prep. Date	9/25/2024
Exp. Date	3/25/2025
Prepared By	IR IR 9/25/24

Syringe ID: MSV-03-01-14

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-16	VOC Gas Std.	2000ppm	1250µL	250ppm
↓ -17	Vinyl Acetate	2500ppm	1000µL	↓
			IR	9/25/24

Standard ID	SV1-45-37-01
Name	GAS (1°)
Final Volume	10 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/25/24
Exp. Date	3/25/25
Prepared By	IR

Syringe ID: MSV-03-01-14
↓ -03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-13-12	8260 IS	2500ppm	200µL	250ppm
			IR	9/25/24

Standard ID	SV1-45-37-02
Name	IS
Final Volume	2.0 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/25/24
Exp. Date	3/25/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-14-09	8260A Surr. mix	2500ppm	200µL	250ppm
			IR	9/25/24

Standard ID	SV1-45-37-03
Name	SS
Final Volume	2.0 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	9/25/24
Exp. Date	3/25/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-16-06	Cust. VOC mix 15-Y	2/20/40 ppm	250 µL	250/500/500 ppm
				IR 10/09/24

Standard ID	SV1-45-40-01
Name	APP IX (1°)
Final Volume	2.0mL
MeOH Solvent ID	SWA-011-24-01
Prep. Date	10/07/24
Exp. Date	IR 11/7/24 ~~12/07/25~~ 12/22/24
Prepared By	IR
Syringe ID:	MSV-03-03-05
Comments:	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-19	VOA Cal. mix #1	50000 ppm	500 µL	250 ppm
↓ -17-01	Acrolein & Acrylonitrile	↓	↓	↓
				IR 10/07/24

Standard ID	SV1-45-40-02
Name	KET-AA (1°)
Final Volume	10mL
MeOH Solvent ID	SWA-011-24-01
Prep. Date	10/07/24
Exp. Date	12/22/24
Prepared By	IR
Syringe ID:	MSV-03-01-15
Comments:	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-19	VOA Cal mix #1	5000 ppm	500 µL	250 ppm
↓ -17-01	Acrolein & Acrylonitrile	↓	↓	↓
				IR 10/07/24

Standard ID	SV1-45-40-03
Name	KET-AA (1°)
Final Volume	10mL
MeOH Solvent ID	SWA-011-24-01
Prep. Date	10/07/24
Exp. Date	12/22/24
Prepared By	IR
Syringe ID:	MSV-03-01-15
Comments:	

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-15-A	VOA Cal. Mix #1	5000 ppm	100 µL	250 ppm
			IR 10/07/24	

Standard ID	SV1-45-41-01
Name	KET (1°)
Final Volume	2.0 mL
MeOH Solvent ID	SWIA - 011-24-01
Prep. Date	10/07/24
Exp. Date	4/07/25
Prepared By	IR

Syringe ID: MSV-03-03-05

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-11-14	Vol. Org. Compounds	2000 ppm	2.5 µL	2.5 ppm
			IR 10/8/24	

Standard ID	SV1-45-41-02
Name	123 TCP (1°)
Final Volume	2.0 mL
MeOH Solvent ID	SWIA - 011-24-01
Prep. Date	10/08/24
Exp. Date	4/08/25 IR 10/08/24
Prepared By	IR

Syringe ID: MSV-02-02-03-4

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-14-06	VO Tuning Compound mix	5000 ppm	100 µL	50 ppm
			IR	10/08/24

Standard ID	SV1-45-41-03
Name	BFB
Final Volume	10 mL
MeOH Solvent ID	SWIA - 011-24-01
Prep. Date	10/08/24
Exp. Date	4/08/25 IR 10/08/24
Prepared By	IR

Syringe ID: MSV-03-03-03

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG FOR VOLATILES

Book No: SV1-45

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-38-09-20	8260 Megamix	2000 ppm	250 µL	50 ppm
-18-04	Col Oxy Mix #1	↓	↓	↓
-17-15	2-Cleve	↓	↓	
-12-20	1-Chlorohexane	1000 ppm	0.5 mL	
-12-06	1,2,3-TMB	25000 ppm	200 µL	↓
↓ -18-06	TBA	50,000 ppm	↓	1000 ppm
				CC 10/11/24

Standard ID	SV1-45-43-01
Name	8260 (2°)
Final Volume	10 mL
MeOH Solvent ID	SWIA-02-13-03
Prep. Date	10/11/24
Exp. Date	4/11/24
Prepared By	DM

Syringe ID: MSV-03-03-04

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.

Standard ID	SV1-45-43-02
Name	ES/SS
Final Volume	10 mL
MeOH Solvent ID	
Prep. Date	
Exp. Date	
Prepared By	

Syringe ID:

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-45-39-03	8260 (2°)	50 ppm	200 µL	5.0 ppm
↓ -34-03	Gas (2°)	250 ppm	40 µL	↓
				JR 10/11/24

Standard ID	SV1-45-43-03
Name	SIM (2°)
Final Volume	2.0 mL
MeOH Solvent ID	SWIA-011-24-01
Prep. Date	10/11/24
Exp. Date	12/17/24
Prepared By	JR

Syringe ID: MSV-03-03-05
-03-03-03

Comments:

SM-38-12-20

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name: 1-Chlorohexane Standard

Product Number: EPA-1208-1

Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006735507

Lot Issue Date: 20-Mar-2023

Expiration Date: 30-Apr-2026

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
1-chlorohexane	1000	± 5 µg/mL	000544-10-5	RM04913

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material (RM) standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above. Purity values are taken from approved vendor raw material certificates.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference (RM) standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference (RM) standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard (RM) is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Ibis Scientific, 7330 Smoke Ranch Rd., Suite B, Las Vegas, NV 89128 (855)390-4202

Date manufactured: 6/24/2022
Original issue date: 6/24/2022

Certificate of Analysis

Date Received: _____

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
3200-44	503601	≤ -10 °C	P/T Methanol	23-Jun-2027	1,2,3-Trimethylbenzene Solution, 2500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
1,2,3-trimethylbenzene	526-73-8	92.7	869.8.4.1P	2536 ± 32.33

SVI-38-12-06

125 Market Street
New Haven, CT 06513
USA

AccuStandard®

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-601C-10X
Description: 2-Chloroethylvinyl ether
Lot: 224031001
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

SVI-38-17-15

Date Certified: Mar 8, 2024
Expiration: Mar 8, 2027
Sample Size: 1 mL
Components: 1
Storage Condition: Freeze (<-10 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

Component	CAS #	Purity[3] %	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
2-Chloroethylvinyl ether	110-75-8	100.0	2011	2011

AccuStandard

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

[2] All weights are traceable through NIST. Test No. 684/291344-18 & 684/292805-19

[3] Purity/Identity determined by one or more of the following methods: GC/MS, LC/MS, NMR, FTIR, Melting Point.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 7/20

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Bellefonte, PA 16823-8812
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

SV1-38-18-06

ACCREDITED ISO 17034 Accredited Reference Material Produc Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredit Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0214955

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002	99%	50,256.0 µg/mL	+/- 721.1797

* Expanded Uncertainty displayed in same units as Grav. Conc

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

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Certificate of Analysis

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SVI-38-18-04

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30465 **Lot No.:** A0210449

Description : California Oxygenates Mixture #1

California Oxygenates Mixture #1 2000-10000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002	99%	10,066.7 µg/mL	+/- 125.2182
2	Methyl-tert-butyl ether (MTBE)	1634-04-4	SHBQ4873	99%	2,020.0 µg/mL	+/- 25.1393
3	Diisopropyl ether (DIPE)	108-20-3	STBK8028	99%	2,012.0 µg/mL	+/- 25.0397
4	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCT4522	98%	1,994.6 µg/mL	+/- 24.8235
5	tert-Amyl methyl ether (TAME)	994-05-8	HMBJ0825	99%	2,008.7 µg/mL	+/- 24.9982

* Expanded Uncertainty displayed in same units as Grav. Conc

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 575702 **Lot No.:** A0191824

Description : Custom Revised 8260 Megamix

Custom Revised 8260 Megamix 2,000 - 40,000µg/mL, P&T Methanol, 1mL/ampul

SVI-38-09-20

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorofluoromethane (CFC-21)	75-43-4	12841600	99%	2,000.0 µg/mL	+/- 69.1292
2	Diethyl ether (ethyl ether)	60-29-7	SHBP5008	99%	2,011.0 µg/mL	+/- 69.5094
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	00016133	99%	2,008.0 µg/mL	+/- 69.4057
4	1,1-dichloroethene	75-35-4	SHBG8609V	99%	2,001.6 µg/mL	+/- 69.9029
5	Iodomethane (methyl iodide)	74-88-4	RD220125	99%	2,007.5 µg/mL	+/- 69.3884
6	Allyl chloride (3-chloropropene)	107-05-1	RP220405A	99%	2,011.0 µg/mL	+/- 69.5094
7	Methylene chloride (dichloromethane)	75-09-2	SHBP1417	99%	2,001.6 µg/mL	+/- 69.9056
8	trans-1,2-Dichloroethene	156-60-5	MKBH9850V	99%	2,001.7 µg/mL	+/- 69.9064
9	1,1-Dichloroethane	75-34-3	760200	99%	2,001.1 µg/mL	+/- 69.8864
10	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	220712JLM	99%	2,014.0 µg/mL	+/- 69.6131
11	Propionitrile	107-12-0	BCCF4167	99%	20,009.5 µg/mL	+/- 691.5748
12	2,2-Dichloropropane	594-20-7	RD220812	99%	2,004.3 µg/mL	+/- 70.0110
13	cis-1,2-Dichloroethene	156-59-2	MKCP7830	99%	2,014.0 µg/mL	+/- 70.3516
14	Methacrylonitrile	126-98-7	1012014	99%	20,031.5 µg/mL	+/- 692.3351
15	Methyl acrylate	96-33-3	SHBG6616V	99%	2,007.0 µg/mL	+/- 69.3711
16	Isobutanol (2-Methyl-1-propanol)	78-83-1	SHBP7066	99%	40,013.5 µg/mL	+/- 1,382.9594

SVI-38-14-06

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30003 **Lot No.:** A0201379

Description : VOA Tuning Compound Mix

VOA Tuning Compound Mix 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	5,011.8 µg/mL	+/- 281.5696

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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SV1-38-15-19

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0205808

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,028.0 µg/mL	+/- 173.7444
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,047.2 µg/mL	+/- 174.4067
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,027.8 µg/mL	+/- 173.7387
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,017.7 µg/mL	+/- 173.3874

* Expanded Uncertainty displayed in same units as Grav. Conc

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

SVI-38-15-A

Date manufactured: 5/9/2024
Original issue date: 5/9/2024

Certificate of Analysis

Date Received:

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -020232-10	519896	≤ -10 °C	P/T Methanol	14-May-2027	Vinyl Acetate Solution, 2,500 mg/L, 1 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
vinyl acetate	108-05-4	99.9	232.7.1P	2498 ± 110

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

SVI-38-15-16

Product Name: VOC Gas Standard

Product Number: DWM-544-1

Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006744131

Lot Issue Date: 23-May-2023

Expiration Date: 30-Jun-2026

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
bromomethane	2009	±	10 µg/mL	000074-83-9	RM00064
chloroethane	2008	±	10 µg/mL	000075-00-3	RM00065
chloromethane	2008	±	10 µg/mL	000074-87-3	RM12571
dichlorodifluoromethane	2010	±	10 µg/mL	000075-71-8	RM05289
trichlorofluoromethane	2009	±	10 µg/mL	000075-69-4	RM00017
vinyl chloride	2009	±	10 µg/mL	000075-01-4	RM05458

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

SV1-38-14-07

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CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30240 **Lot No.:** A0203162

Description : 8260A Surrogate Mix

8260A Surrogate Mix 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L., K=2)
1	Dibromofluoromethane	1868-53-7	022013	99%	2,510.0 µg/mL	+/- 141.0009
2	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	2,518.2 µg/mL	+/- 141.4616
3	Toluene-d8	2037-26-5	PR-33397	99%	2,523.4 µg/mL	+/- 141.7537
4	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000194533	99%	2,508.7 µg/mL	+/- 140.9301

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

SVI-38-13-12

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Date manufactured: 7/13/2022
Original issue date: 7/13/2022

Certificate of Analysis

Date Received: 10/6/23

 Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -122455-05	484785	-18°C +/- 4°C	P/T Methanol	12-Jul-2027	Method 8260 Internal Standard Mix, 3-30, 2,500 mg/L, 1 ml

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
chlorobenzene-d5	3114-55-4	99.5	128.120.1P	2504 ± 130
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	2514 ± 130
1,4-difluorobenzene	540-36-3	99.3	129.158.1.2P	2523 ± 140

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various EN, ISO, EPA, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

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SV1-38-16-0910 IR 9/19/24

Date manufactured: 3/10/2023
Original issue date: 3/10/2023

Certificate of Analysis

Date Received: 9/17/24
 Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -020200-04	498954	≤ -10 °C	P/T Methanol	8-Mar-2028	Carbon Disulfide Solution, 5,000 mg/L, 1 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
carbon disulfide	75-15-0	99.9	200.24.1VP	5075 ± 260

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

SVI-38-16-08

Product Name: Carbon Disulfide Standard

Product Number: EPA-1012-1

Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006766754

Lot Issue Date: 13-Oct-2023

Expiration Date: 30-Nov-2027

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
carbon disulfide	5021	± 25 µg/mL	000075-15-0	RM08158

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

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CERTIFICATE OF ANALYSIS

Catalog No: APP-9-211-20X
Description: Vinyl acetate
Lot: 224061310
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Jun 17, 2024
Expiration: Dec 17, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Freeze (<-10 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ilac-MRA

Component	CAS #	Purity[3] %	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
Vinyl acetate	108-05-4	100.0	2013	2013

AccuStandard

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4% and was determined in accordance with ISO 17034. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

[2] All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

[3] Purity/Identity determined by one or more of the following methods: GC/MS, LC/MS, NMR, FTIR, Melting Point.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 7/20

SVI-38-15-10

Ibis Scientific, 7330 Smoke Ranch Rd., Suite B, Las Vegas, NV 89128 (855) 390-4202

Date manufactured: 12/14/2023
Original issue date: 12/14/2023

Certificate of Analysis

Date Received: 2/8/24
Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
3200-G34 -120016-03	513798	≤ -10 °C	P/T Methanol	12-Dec-2028	ISO 17034 - Method 8260 Gases, 2,000 mg/L, 2 x 0.6 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC), gas chromatography/mass spectrometry (GC/MS), or High Pressure Liquid Chromatography (HPLC) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
bromomethane	74-83-9	99.9	139.158.2.1P	1962 ± 23
chloroethane	75-00-3	99.94	141.2.3P	1995 ± 23
chloromethane	74-87-3	99.7	140.158.3P	2018 ± 24
dichlorodifluoromethane	75-71-8	99	142.158.5.1P	2026 ± 47
trichlorofluoromethane	75-69-4	99	144.1.3P	1995 ± 38
vinyl chloride	75-01-4	99	143.158.5.3P	1962 ± 45

Second Source standards are prepared according to NELAC requirements.

Intended Use:

This certified reference material (CRM) is intended for use as a calibration standard or a quality control standard for chromatography instrumentation such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various USEPA, NIOSH, and ASTM methods.

Recommended storage container for ampouled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix
y = boiling point of the solvent

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened

5580 Skylane Blvd
Santa Rosa, CA 95403

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GM - 38-12-11

Date manufactured: 11/16/2022
Original issue date: 11/16/2022

Certificate of Analysis

Date Received: _____

 Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -020511-06	492310	≤ -10 °C	P/T Methanol	15-Nov-2027	t-Butyl Alcohol Solution, 50,000 mg/L, 1 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
tert-butyl alcohol	75-65-0	100	511.7.2P	50110 ± 2600

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various EN, ISO, EPA, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty

SVI-38-B-08

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Date manufactured: 8/24/2022
Original issue date: 8/24/2022

Certificate of Analysis

Date Received: 10/6/23
 Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -020145-02	492308	≤ -10 °C	P/T Methanol	23-Aug-2027	2-Chloroethyl Vinyl Ether Solution, 2,000 mg/L, 1 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
2-chloroethylvinyl ether	110-75-8	99.8	145.1.5P	2010 ± 110

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various EN, ISO, EPA, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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SVI-30-13-20

CERTIFICATE OF ANALYSIS

Catalog No: OGAD-001
Description: Oxygenate Gasoline Additive Standard
Lot: 222081419
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Aug 29, 2022
Expiration: Aug 29, 2025
Sample Size: 1 mL
Components: 5
Storage Condition: Refrig (0-5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

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Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
MtBE	1634-04-4	99.8	2001	1997
EtBE	637-92-3	99.9	2004	2002
Isopropyl ether	108-20-3	100.0	2010	2010
TAME	994-05-8	99.0	2000	1980
t-Butanol	75-65-0	99.6	10005	9965

U.S. Standard

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 684/289871-17

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

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Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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Rev. 7/20

SV1-38-B-09

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Date manufactured: 3/13/2023
Original issue date: 3/13/2023

Certificate of Analysis

Date Received: 10/6/23

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -126047-01	498957	≤ -10 °C	P/T Methanol	13-Sep-2024	Custom Volatiles Mix, 73-6047, Various Concentrations, 1 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
2-nitropropane	79-46-9	97.7	219.1.2P	2003 ± 110
allyl chloride	107-05-1	98.9	227.1.2P	2024 ± 120
benzene	71-43-2	99.99	146.1.10P	1997 ± 110
bromobenzene	108-86-1	100	147.7.1P	1999 ± 140
bromochloromethane	74-97-5	99.7	148.1.3P	1998 ± 110
bromodichloromethane	75-27-4	99.2	149.1.12P	1988 ± 110
bromoform	75-25-2	99.3	150.7.2P	1989 ± 110
n-butylbenzene	104-51-8	99.2	151.7.3.2P	1997 ± 110
sec-butylbenzene	135-98-8	99.5	152.1.2.1P	1999 ± 110
tert-butylbenzene	98-06-6	99.9	153.29.1P	1999 ± 110
carbon tetrachloride	56-23-5	100	154.9.1P	1997 ± 110
chlorobenzene	108-90-7	99.9	155.29.1P	2001 ± 110
2-chloroethanol	107-07-3	99.5	217.1.3P	2000 ± 110
chloroform	67-66-3	99.8	156.7.1P	1998 ± 110
chloroprene	126-99-8	98.9	315.5.22P	1982 ± 140
2-chlorotoluene	95-49-8	99.5	157.7.1P	1998 ± 110
4-chlorotoluene	106-43-4	99.9	158.9.3P	2000 ± 110

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SVI - 38-13-18

CERTIFICATE OF ANALYSIS

Catalog No: M-8010R-1-04-10X
Description: 1-Chlorohexane
Lot: 223031117
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Mar 8, 2023
Expiration: Mar 8, 2033
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ILAC-MRA

Component	CAS #	Purity[3] %	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
1-Chlorohexane	544-10-5	98.0	2024	1984

Standard

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

[2] All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

[3] Purity/Identity determined by one or more of the following methods: GC/MS, LC/MS, NMR, FTIR, Melting Point.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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SVI-38-13-13

CPI INTERNATIONAL

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(707)545-7901 Fax

Date manufactured: 6/24/2022
Original issue date: 6/24/2022

Certificate of Analysis

Date Received: 10/6/23

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -020869-08	484154	≤ -10 °C	P/T Methanol	23-Jun-2027	1,2,3-Trimethylbenzene Solution, 2,500 mg/L, 1 mL

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
1,2,3-trimethylbenzene	526-73-8	92.7	869.8.4.1P	2536 ± 140

*Not a certified value

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various EN, ISO, EPA, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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SVI-38-13-19

CERTIFICATE OF ANALYSIS

Catalog No: TK-102-08S-10X
Description: Cyclohexane
Lot: 221101280
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Oct 19, 2021
Expiration: Oct 19, 2031
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO/IEC 17025 TESTING AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
Cyclohexane	110-82-7	100.0	2008	2008

AccuStandard

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 684/289871-17

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

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Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: _____
Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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SVI-38-14-02

CERTIFICATE OF ANALYSIS

Catalog No: TK-102-09S-12.5X
Description: Methylcyclohexane
Lot: 222081023
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Aug 2, 2022
Expiration: Aug 2, 2032
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
Methylcyclohexane	108-87-2	100.0	2538	2538

Unstandard

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 684/289871-17

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

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Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: _____
Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 7/20

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Date manufactured: 10/4/2022
Original issue date: 10/4/2022

Certificate of Analysis

Date Received:

Catalog No.:	Lot No.:	Storage:	Solvent:	Expiration Date:	Description:
Z-G34 -020354-09	489953	≤ -10 °C	P/T Methanol	3-Oct-2027	2-Butanol Solution, 50000 mg/L, 1 ml

Certified Values:

The certified value is based on gravimetric and volumetric preparation of this CRM. This CRM has been confirmed by gas chromatography (GC) or gas chromatograph/mass spectrometry (GC/MS) using an internally developed method against an independent source. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2.

Compound	CAS No.	Purity (%)	Neat Material Lot No.	Concentration, mg/L
2-butanol	78-92-2	99.8	354.7.1P	50000 ± 2600

*Not a certified value

SVI - 38 - 14 - 10

Intended Uses:

This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may aslo be used for various USEPA, NIOSH, and ASTM methods.This Certified Reference material (CRM) is intended for use as a calibration standard or a quality control standard for Chromatography Equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various EN, ISO, EPA, and ASTM methods.

Recommended storage container for ampuled products after opening is a 12mmx32mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = (-0.018\ln(x+31) + 0.1157) + 636.54y^{-3.202}$$

where x = boiling point of the most volatile analyte in the mix (degrees K)
y = boiling point of the solvent (degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored.

Method of Preparation:

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty

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CERTIFICATE OF ANALYSIS

SVI-38-14-01

Catalog No: S-6524-0.25X
Description: Methyl acetate
Lot: 223081092
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Aug 7, 2023
Expiration: Aug 7, 2033
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463

ILAC-MRA

Component	CAS #	Purity[3] %	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
Methyl acetate	79-20-9	100.0	2506	2506

Standard Copy

This Certified Reference Material was verified in accordance with ISO/IEC 17025 (AT-1339) and ISO 17034 (AR-1463)

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

[2] All weights are traceable through NIST, Test No. 684/291344-18 & 684/292805-19

[3] Purity/Identity determined by one or more of the following methods: GC/MS, LC/MS, NMR, FTIR, Melting Point.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 7/20

SVI-38-14-18

SPEXertificate®

Certificate of Reference Material

Catalog Number: S-3893 **Lot No.** NSI231117202
Description: Methyl Acetate
Matrix: Methanol (Purge & Trap Grade) **Manufactured Date:** 11/17/2023
Expiration Date: 11/30/2026

This **SPEXOrganics®** Certified Reference Material, CRM, was manufactured by NSI Lab Solutions (www.nsilabsolutions.com) and is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled (ug/mL)	Purity	Certified† (ug/mL)		Uncertainty (ug/mL)
Methyl acetate	79-20-9	1000	99.9%	1000	±	7.05

* - Isomer ratios (when applicable) are an uncertified parameter.

Final Solution Verification:

Final solution integrity verified Volumetrically and Analytically. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration is based on gravimetric or volumetric measurements. All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO/IEC 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request. All glassware used in the manufacturing of this standard is Class A. Volumetric pipettors are calibrated every four months by an ISO/IEC 17025 accredited calibration laboratory.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 11/17/2023 Certifying Officer: _____
Kenneth Grzybowski

SV1-38-14-12

SPEXertificate®

Certificate of Reference Material

Catalog Number: S-1015 **Lot No.** NSI231116204
Description: Cyclohexane
Matrix: Methanol (Purge & Trap Grade) **Manufactured Date:** 11/16/2023
Expiration Date: 11/30/2026

This **SPEXOrganics®** Certified Reference Material, CRM, was manufactured by NSI Lab Solutions (www.nsilabsolutions.com) and is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled (ug/mL)	Purity	Certified† (ug/mL)		Uncertainty (ug/mL)
Cyclohexane	110-82-7	1000	100.0%	999	±	7.05

SV1-38-14-12

* - Isomer ratios (when applicable) are an uncertified parameter.

Final Solution Verification:

Final solution integrity verified Volumetrically and Analytically. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration is based on gravimetric or volumetric measurements. All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO/IEC 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request. All glassware used in the manufacturing of this standard is Class A. Volumetric pipettors are calibrated every four months by an ISO/IEC 17025 accredited calibration laboratory.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 11/16/2023 Certifying Officer: Kenneth Grzybowski

SVI-38-15-02

SPEXertificate®

Certificate of Reference Material

Catalog Number: S-2470
Description: Methylcyclohexane
Matrix: P&T Methanol

Lot No. NSI231116202

Manufactured Date: 11/16/2023
Expiration Date: 11/30/2026

This **SPEXOrganics®** Certified Reference Material, CRM, was manufactured by NSI Lab Solutions (www.nsilabsolutions.com) and is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled (ug/mL)	Purity	Certified† (ug/mL)		Uncertainty (ug/mL)
Methylcyclohexane	108-87-2	1000	98.0%	1000	±	7.05

* - Isomer ratios (when applicable) are an uncertified parameter.

Final Solution Verification:

Final solution integrity verified Volumetrically and Analytically. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration is based on gravimetric or volumetric measurements. All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO/IEC 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request. All glassware used in the manufacturing of this standard is Class A. Volumetric pipettors are calibrated every four months by an ISO/IEC 17025 accredited calibration laboratory.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 11/16/2023

Certifying Officer: Kenneth Grzybowski

SVI-38-15-09

14271 Jeffrey Road
#223
Irvine, CA 92620

ibis scientific

For Chemical Emergency, Spill, Leak, Fire Exposure or Accident Call Chromanex Day or Night 800.390.4202

Quality System Audited & Registered by TUV USA to ISO 9001:2015

Date Received: 2/8/24

Certificate of Analysis

Rev 0 Page

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
G34-3200-121020-17	480682	≤-10 °C	P/T MeOH:Water 9:1	4/28/2027	Ketones Solution, 2500 mg/L, 1 ml ISO17034

Compound	CAS No	Purity (%)	Compound Lot No	Concentration, mg/L	
acetone	67-64-1	99.6	196.271.4P	2498 ± 53.47	mg/L
2-butanone (MEK)	78-93-3	99.9	197.1.2P	2498 ± 53.51	mg/L
4-methyl-2-pentanone (MIBK)	108-10-1	99.88	198.421.1.2P	2500 ± 54.02	mg/L
2-hexanone	591-78-6	100	199.7.3P	2501 ± 53.58	mg/L

Melissa Workoff

Certified By: _____
Melissa Workoff

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

SVL-38-16-05

Product Name:	Acrolein and Acrylonitrile Standard	**Lot Number:**	0000798734
Product Number:	AMN-623-1	**Lot Issue Date:**	21-Jun-2024
Storage Conditions:	Store Frozen (-25° to -10°C).	**Expiration Date:**	31-Oct-2024

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
acrolein	2005	±	10 µg/mL	000107-02-8	RM22372
acrylonitrile	2010	±	10 µg/mL	000107-13-1	RM20527

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

CSD-QA-015.2

ISO 17025
Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality



Electronic Comprehensive Validation Package (eCVP)

Vera Belitsky Vera Belitsky 11-14-2024

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eurofins | Air Toxics

WORK ORDER #: 2410702A

Work Order Summary

CLIENT:	Mr. Mark Rigby PARSONS GOVERNMENT SERVICES INC. 10235 So. South Jordan Gateway Suite 300 South Jordan, UT 84095	**BILL TO:**	Mr. Mark Rigby PARSONS GOVERNMENT SERVICES INC. 10235 So. South Jordan Gateway Suite 300
PHONE:	801-572-5999	**P.O. #**	0015539
FAX:	801-572-9069	**PROJECT #**	J09CA1108-01 Titan 1-A Semi Annual Groundwater and So
DATE RECEIVED:	10/29/2024	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/13/2024		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	T1AMF-SV011_OCT24	TO-15	6.1 "Hg	10 psi
01AA	T1AMF-SV011_OCT24 Lab Duplicate	TO-15	6.1 "Hg	10 psi
02A	T1AMF-SV010_OCT24	TO-15	6.1 "Hg	10 psi
03A	T1AMF-SV028_OCT24	TO-15	6.7 "Hg	9.9 psi
04A	T1AMF-SV028_OCT24_FD	TO-15	8 "Hg	9.8 psi
05A	T1AMF-SV027_OCT24	TO-15	6.5 "Hg	10 psi
06A	T1AMF-SV003_OCT24	TO-15	7.6 "Hg	9.9 psi
07A	T1AMF-SV017B_OCT24	TO-15	6.1 "Hg	9.9 psi
08A	T1AMF-SV031_OCT24	TO-15	9.8 "Hg	9.8 psi
09A	T1AMF-SV032a_OCT24	TO-15	5.3 "Hg	10 psi
10A	T1AMF-SV032b_OCT24	TO-15	5.3 "Hg	9.5 psi
11A	T1AMF-SV024_OCT24	TO-15	6.3 "Hg	9.8 psi
12A	T1AMF-SV001_OCT24	TO-15	6.7 "Hg	9.9 psi
13A	T1AMF-SV026_OCT24	TO-15	5.7 "Hg	10 psi
13AA	T1AMF-SV026_OCT24 Lab Duplicate	TO-15	5.7 "Hg	10 psi
14A	T1AMF-SV026_OCT24_FD	TO-15	7.1 "Hg	9.9 psi
15A	T1AMF-SV035_OCT24	TO-15	9.8 "Hg	9.8 psi
16A	T1AMF-SV035_OCT24_FD	TO-15	7.8 "Hg	10 psi
17A	Lab Blank	TO-15	NA	NA
17B	Lab Blank	TO-15	NA	NA
18A	CCV	TO-15	NA	NA
18B	CCV	TO-15	NA	NA
18C	CCV	TO-15	NA	NA

Continued on next page

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WORK ORDER #: 2410702A

Work Order Summary

CLIENT:	Mr. Mark Rigby PARSONS GOVERNMENT SERVICES INC. 10235 So. South Jordan Gateway Suite 300 South Jordan, UT 84095	**BILL TO:**	Mr. Mark Rigby PARSONS GOVERNMENT SERVICES INC. 10235 So. South Jordan Gateway Suite 300
PHONE:	801-572-5999	**P.O. #**	0015539
FAX:	801-572-9069	**PROJECT #**	J09CA1108-01 Titan 1-A Semi Annual Groundwater and So
DATE RECEIVED:	10/29/2024	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/13/2024		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
18D	CCV	TO-15	NA	NA
19A	LCS	TO-15	NA	NA
19AA	LCSD	TO-15	NA	NA
19B	LCS	TO-15	NA	NA
19BB	LCSD	TO-15	NA	NA

CERTIFIED BY:  DATE: 11/13/24

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2703122, NH NELAP–209223-B, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-12695, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-20
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000

LABORATORY NARRATIVE
DoD QSM - TO-15
PARSONS GOVERNMENT SERVICES INC.
Workorder# 2410702A

Sixteen 1 Liter Summa Canister samples were received on October 29, 2024. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Please note the following narratives are project specific therefore may or may not be applicable to the associated sample set:

1) A Limit of Detection (LOD) and Method Detection Limit (MDL) study are not maintained for Total Xylenes and non-standard compounds.

2) Total Xylenes concentration is calculated by summing the individual concentrations of m,p-Xylene and o-Xylene.

3) Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Receiving Notes

The Chain of Custody (COC) information for sample T1AMF-SV028_OCT24_FD did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

A DoD QSM waiver has been established and approved between Eurofins Air Toxics and the client. A copy of the waiver is available upon request.

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Samples were analyzed in two analytical batches on MSD-A on 11/7/24 and 11/8/2024. The initial continuing calibration verification (CCV) for the batches are reported as lab fractions 18A and 18B and the ending CCV are reported as lab fractions 18C and 18D.

Dilution was performed on samples T1AMF-SV032a_OCT24, T1AMF-SV024_OCT24 and T1AMF-SV001_OCT24 due to the presence of high level target species.

Dilution was performed on samples T1AMF-SV031_OCT24 and T1AMF-SV032b_OCT24 due to the presence of high level non-target species.

Samples were received by courier, therefore shipping documents are not applicable.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Table 1								
Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
T1AMF-SV011_OCT24	2410702A-01A	10/23/2024	10/29/2024	NA	16	11/08/2024	NA	GOOD
T1AMF-SV011_OCT24 Lab Duplicate	2410702A-01AA	10/23/2024	10/29/2024	NA	None	11/08/2024	NA	GOOD
T1AMF-SV010_OCT24	2410702A-02A	10/23/2024	10/29/2024	NA	16	11/08/2024	NA	GOOD
T1AMF-SV028_OCT24	2410702A-03A	10/23/2024	10/29/2024	NA	16	11/08/2024	NA	GOOD
T1AMF-SV028_OCT24_FD	2410702A-04A	10/23/2024	10/29/2024	NA	16	11/08/2024	NA	GOOD
T1AMF-SV027_OCT24	2410702A-05A	10/23/2024	10/29/2024	NA	16	11/08/2024	NA	GOOD
T1AMF-SV003_OCT24	2410702A-06A	10/23/2024	10/29/2024	NA	16	11/08/2024	NA	GOOD
T1AMF-SV017B_OCT24	2410702A-07A	10/23/2024	10/29/2024	NA	16	11/08/2024	NA	GOOD
T1AMF-SV031_OCT24	2410702A-08A	10/23/2024	10/29/2024	NA	16	11/08/2024	NA	GOOD
T1AMF-SV032a_OCT24	2410702A-09A	10/24/2024	10/29/2024	NA	15	11/08/2024	NA	GOOD
T1AMF-SV032b_OCT24	2410702A-10A	10/24/2024	10/29/2024	NA	15	11/08/2024	NA	GOOD
T1AMF-SV024_OCT24	2410702A-11A	10/24/2024	10/29/2024	NA	15	11/08/2024	NA	GOOD
T1AMF-SV001_OCT24	2410702A-12A	10/24/2024	10/29/2024	NA	15	11/08/2024	NA	GOOD
T1AMF-SV026_OCT24	2410702A-13A	10/24/2024	10/29/2024	NA	15	11/08/2024	NA	GOOD
T1AMF-SV026_OCT24 Lab Duplicate	2410702A-13AA	10/24/2024	10/29/2024	NA	None	11/08/2024	NA	GOOD
T1AMF-SV026_OCT24_FD	2410702A-14A	10/24/2024	10/29/2024	NA	15	11/08/2024	NA	GOOD
T1AMF-SV035_OCT24	2410702A-15A	10/24/2024	10/29/2024	NA	15	11/08/2024	NA	GOOD
T1AMF-SV035_OCT24_FD	2410702A-16A	10/24/2024	10/29/2024	NA	15	11/08/2024	NA	GOOD
Lab Blank	2410702A-17A	NA	NA	NA	NA	11/07/2024	NA	GOOD
Lab Blank	2410702A-17B	NA	NA	NA	NA	11/08/2024	NA	GOOD
CCV	2410702A-18A	NA	NA	NA	NA	11/07/2024	NA	GOOD
CCV	2410702A-18B	NA	NA	NA	NA	11/08/2024	NA	GOOD
CCV	2410702A-18C	NA	NA	NA	NA	11/08/2024	NA	GOOD
CCV	2410702A-18D	NA	NA	NA	NA	11/08/2024	NA	GOOD
LCS	2410702A-19A	NA	NA	NA	NA	11/07/2024	NA	GOOD
LCSD	2410702A-19AA	NA	NA	NA	NA	11/07/2024	NA	GOOD
LCS	2410702A-19B	NA	NA	NA	NA	11/08/2024	NA	GOOD
LCSD	2410702A-19BB	NA	NA	NA	NA	11/08/2024	NA	GOOD

Sample Results and Raw Data

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Client ID:	T1AMF-SV011_OCT24		
Lab ID:	2410702A-01A	**Date/Time Analyzed:**	11/8/24 01:14 AM
Date/Time Collected:	10/23/24 08:31 AM	**Dilution Factor:**	2.11
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110719

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.0	3.8	4.2	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.2	5.7	6.3	Not Detected U
Benzene	71-43-2	0.59	3.0	3.4	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.3	3.8	4.2	Not Detected U
Ethyl Benzene	100-41-4	1.7	4.1	4.6	Not Detected U
m,p-Xylene	108-38-3	1.6	4.1	9.2	Not Detected U
o-Xylene	95-47-6	1.6	4.1	4.6	Not Detected U
Toluene	108-88-3	0.87	3.6	8.0	1.2 J
trans-1,2-Dichloroethene	156-60-5	1.6	3.8	4.2	Not Detected U
Trichloroethene	79-01-6	0.83	5.1	5.7	Not Detected U
Vinyl Chloride	75-01-4	1.2	2.4	2.7	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	88
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	103

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/07NOV24.b/a110719.d
Lab Smp Id: 2410702A-01A
Inj Date : 08-NOV-2024 01:14
Operator : DF Inst ID: msda.i
Smp Info : 200mL N8093
Misc Info : 6.1 Hg->10 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/07NOV24.b/a24q0910a.m
Meth Date : 11-Nov-2024 14:42 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 5
Dil Factor: 2.11000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	286551	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	225172			46.45- 106.45	78.58
5.428	5.428 (1.000)	49	570518			167.12- 227.12	199.10
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	1046166	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	172410			0.00- 46.36	16.48
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.145	9.146 (1.000)	117	994513	25.0000		80.00- 120.00	100.00
9.145	9.146 (1.000)	82	557876			27.12- 87.12	56.10
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	439164	22.0297	22.030	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	224048			23.36- 83.36	51.02
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	1122242	25.7282	25.728	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	128699			0.00- 41.92	11.47

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	752202			39.07- 99.07	67.03
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.291	10.292 (1.125)	174	609330	22.9758	22.976	80.00- 120.00	100.00
10.291	10.292 (1.125)	95	749603			89.27- 149.27	123.02
10.291	10.292 (1.125)	176	583920			66.29- 126.29	95.83
153 Toluene					CAS #: 108-88-3		
7.820	7.813 (1.219)	91	7249	0.15225	0.3212	80.00- 120.00	100.00(a)
7.820	7.813 (1.219)	92	3876			27.69- 87.69	53.47

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110719.d
Lab Smp Id: 2410702A-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 6.1 Hg->10 psi

Calibration Date: 07-NOV-2024
Calibration Time: 11:48
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	300803	180482	421124	286551	-4.74
126 1,4-Difluorobenze	1130282	678169	1582395	1046166	-7.44
165 Chlorobenzene-d5	1024524	614714	1434334	994513	-2.93

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	-0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 08:55

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 07NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-01A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 6.1 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.030	88.12	70-130
$ 152 Toluene-d8	25.000	25.728	102.91	70-130
$ 191 4-Bromofluorobenz	25.000	22.976	91.90	70-130

Data File: /chem/msda.i/07NOV24.b/a110719.d

Date : 08-NOV-2024 01:14

Client ID:

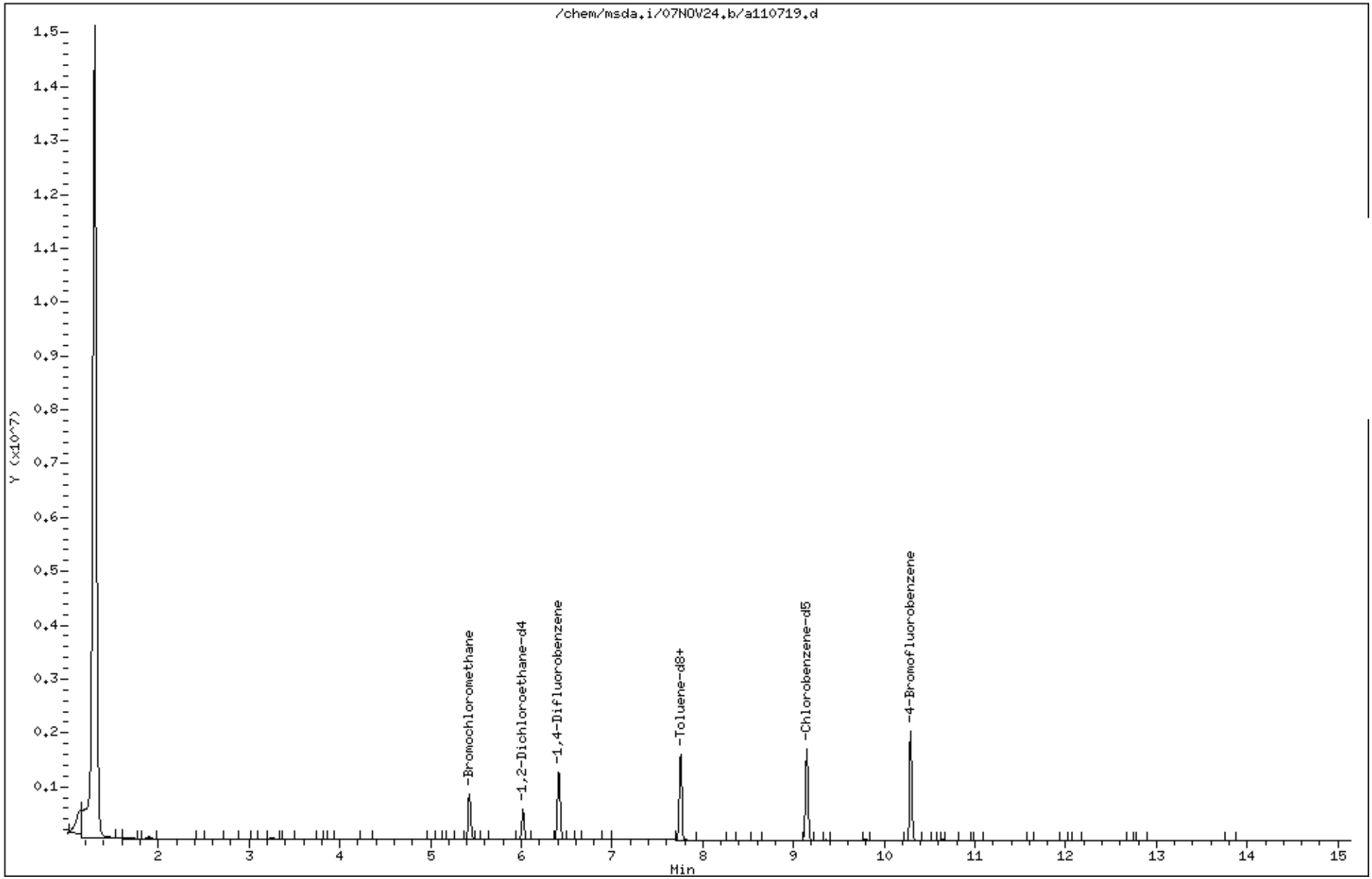
Sample Info: 200mL N8093

Column phase: RTX-624

Instrument: msda.i

Operator: DF

Column diameter: 0.25



Data File: /chem/msda.i/07NOV24.b/a110719.d

Date : 08-NOV-2024 01:14

Client ID:

Instrument: msda.i

Sample Info: 200mL N8093

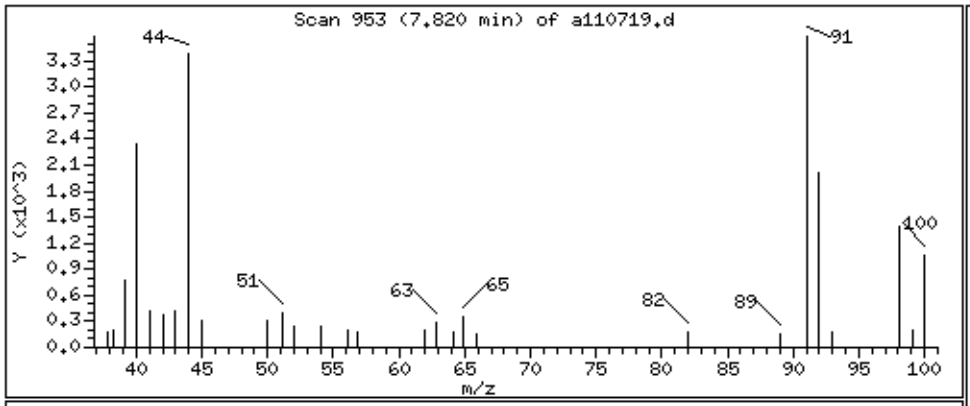
Operator: DF

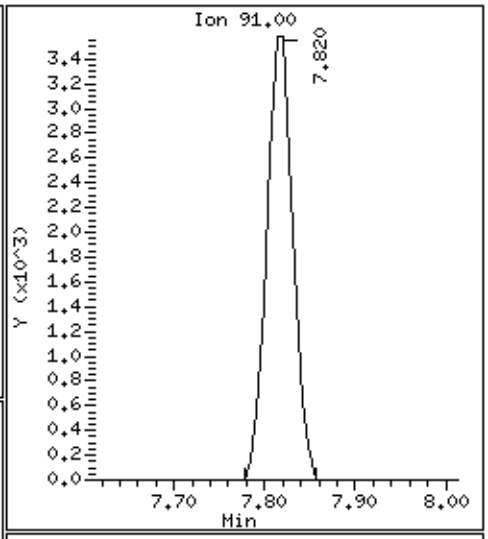
Column phase: RTX-624

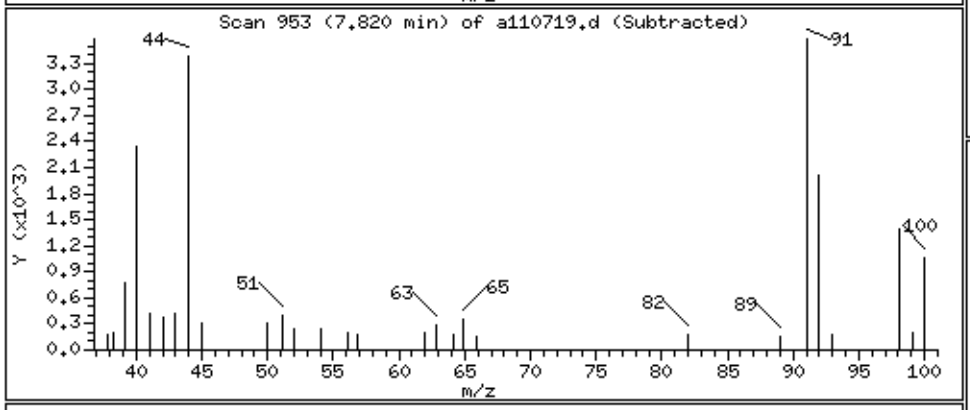
Column diameter: 0.25

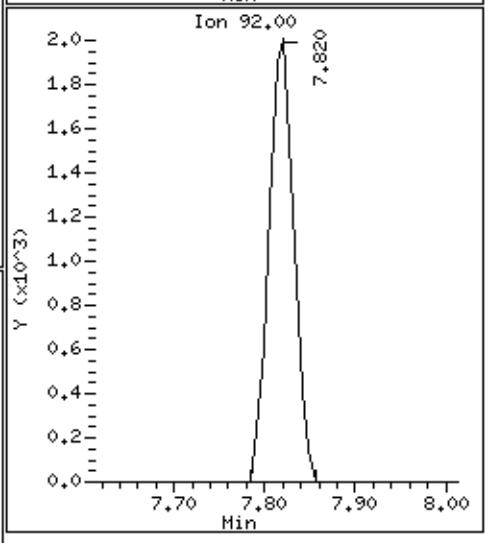
153 Toluene

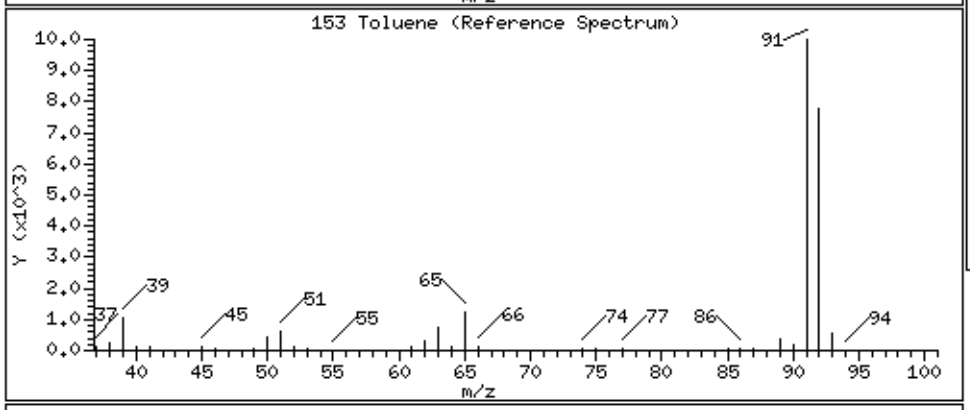
Concentration: 0.3212 PPBV

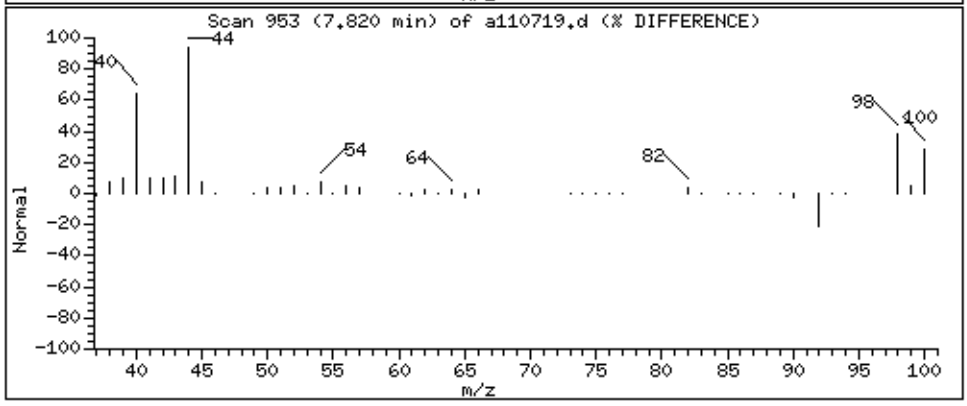












eurofins | Air Toxics

Client ID:	T1AMF-SV011_OCT24 Lab Duplicate		
Lab ID:	2410702A-01AA	**Date/Time Analyzed:**	11/8/24 01:51 AM
Date/Time Collected:	10/23/24 08:31 AM	**Dilution Factor:**	2.11
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110720

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.0	3.8	4.2	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.2	5.7	6.3	Not Detected U
Benzene	71-43-2	0.59	3.0	3.4	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.3	3.8	4.2	Not Detected U
Ethyl Benzene	100-41-4	1.7	4.1	4.6	Not Detected U
m,p-Xylene	108-38-3	1.6	4.1	9.2	Not Detected U
o-Xylene	95-47-6	1.6	4.1	4.6	Not Detected U
Toluene	108-88-3	0.87	3.6	8.0	1.1 J
trans-1,2-Dichloroethene	156-60-5	1.6	3.8	4.2	Not Detected U
Trichloroethene	79-01-6	0.83	5.1	5.7	Not Detected U
Vinyl Chloride	75-01-4	1.2	2.4	2.7	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	89
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/07NOV24.b/a110720.d
Lab Smp Id: 2410702A-01AA
Inj Date : 08-NOV-2024 01:51
Operator : DF Inst ID: msda.i
Smp Info : 200mL N8093
Misc Info : 6.1 Hg->10 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/07NOV24.b/a24q0910a.m
Meth Date : 11-Nov-2024 14:42 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 5
Dil Factor: 2.11000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.435	5.428 (1.000)	130	281121	25.0000		80.00- 120.00	100.00
5.435	5.428 (1.000)	128	219176			46.45- 106.45	77.97
5.428	5.428 (1.000)	49	562312			167.12- 227.12	200.02
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	1045309	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	166289			0.00- 46.36	15.91
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	997040	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	555670			27.12- 87.12	55.73
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.107)	65	434190	22.2009	22.201	80.00- 120.00	100.00
6.015	6.015 (1.107)	67	222432			23.36- 83.36	51.23
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	1104402	25.3400	25.340	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	126647			0.00- 41.92	11.47

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	747739			39.07- 99.07	67.71
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	614096	23.0968	23.097	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	734936			89.27- 149.27	119.68
10.292	10.292 (1.125)	176	588306			66.29- 126.29	95.80
153 Toluene					CAS #: 108-88-3		
7.820	7.813 (1.219)	91	6798	0.14289	0.3015	80.00- 120.00	100.00(a)
7.820	7.813 (1.219)	92	3749			27.69- 87.69	55.15

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110720.d
Lab Smp Id: 2410702A-01AA
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 6.1 Hg->10 psi

Calibration Date: 07-NOV-2024
Calibration Time: 11:48
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	300803	180482	421124	281121	-6.54
126 1,4-Difluorobenze	1130282	678169	1582395	1045309	-7.52
165 Chlorobenzene-d5	1024524	614714	1434334	997040	-2.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.44	0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 08:56

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 07NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-01AA
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 6.1 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.201	88.80	70-130
$ 152 Toluene-d8	25.000	25.340	101.36	70-130
$ 191 4-Bromofluorobenz	25.000	23.097	92.39	70-130

Data File: /chem/msda.i/07NOV24.b/a110720.d

Date : 08-NOV-2024 01:51

Client ID:

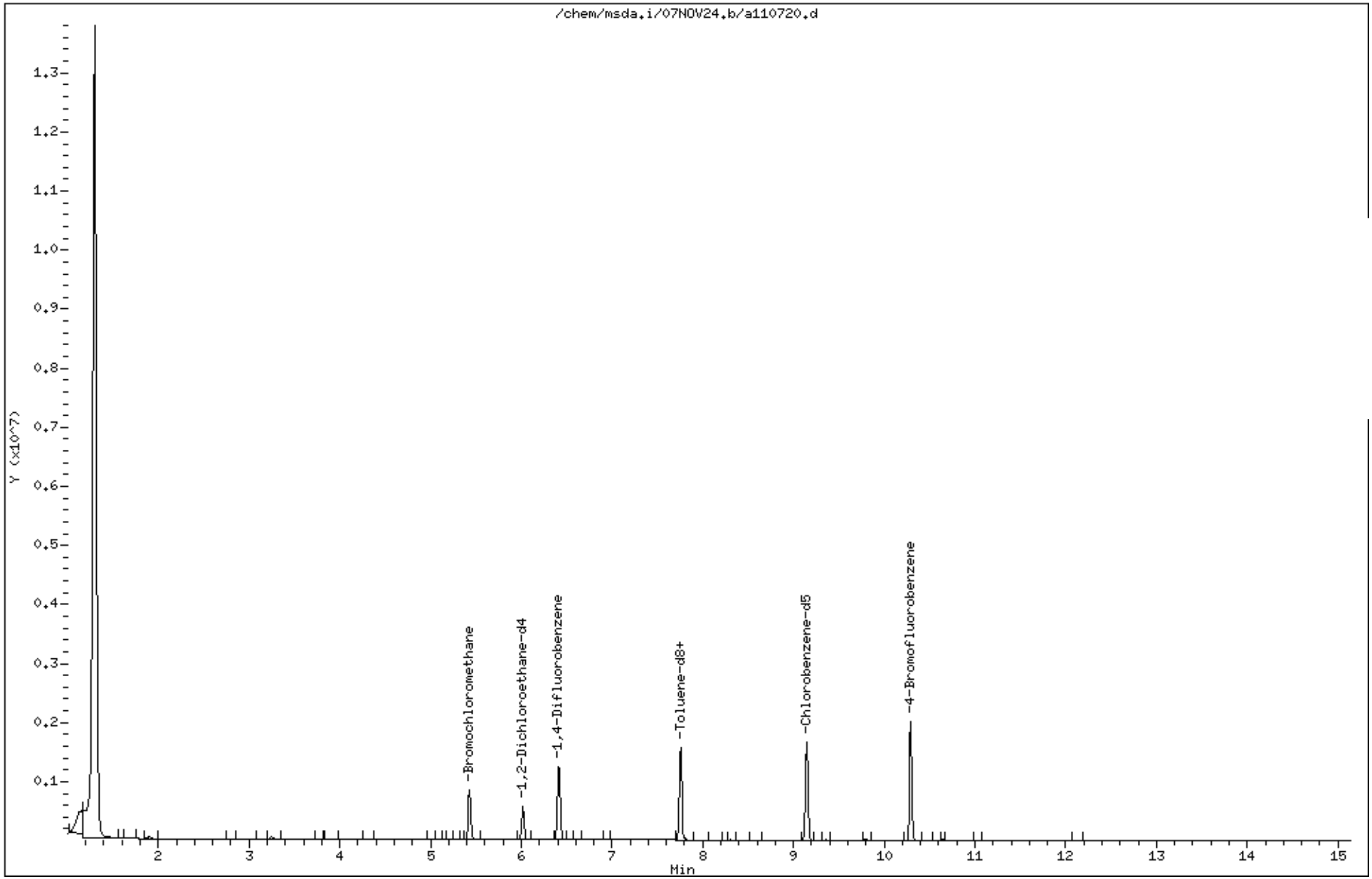
Sample Info: 200mL N8093

Column phase: RTX-624

Instrument: msda.i

Operator: DF

Column diameter: 0.25



Data File: /chem/msda.i/07NOV24.b/a110720.d

Date : 08-NOV-2024 01:51

Client ID:

Instrument: msda.i

Sample Info: 200mL N8093

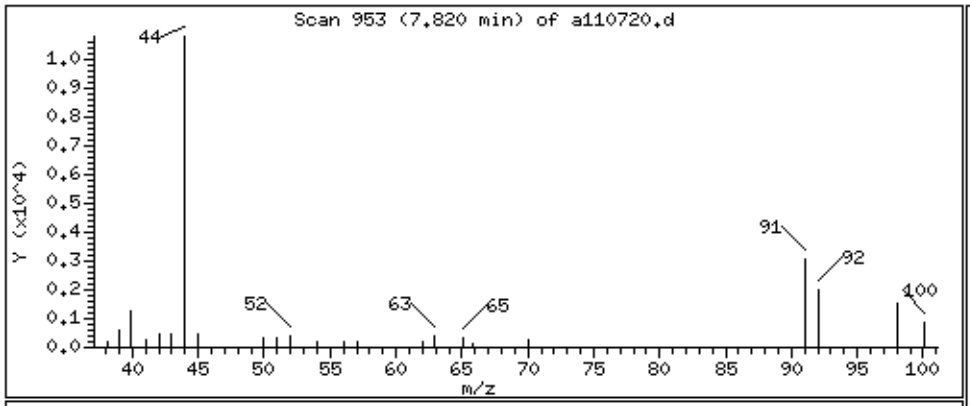
Operator: DF

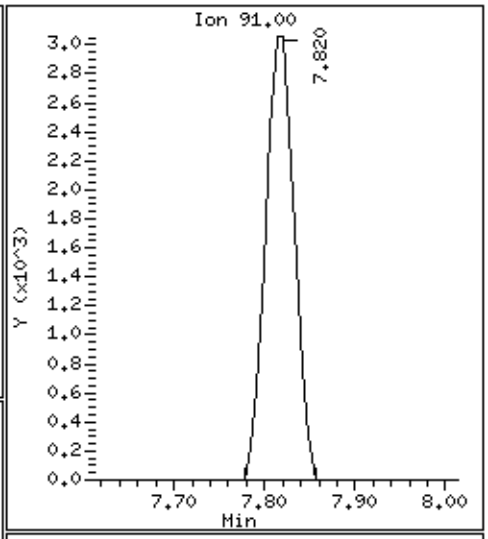
Column phase: RTX-624

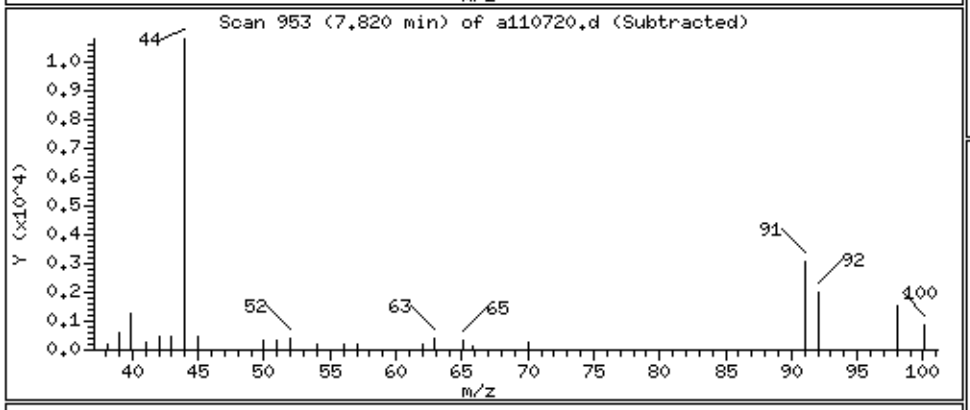
Column diameter: 0.25

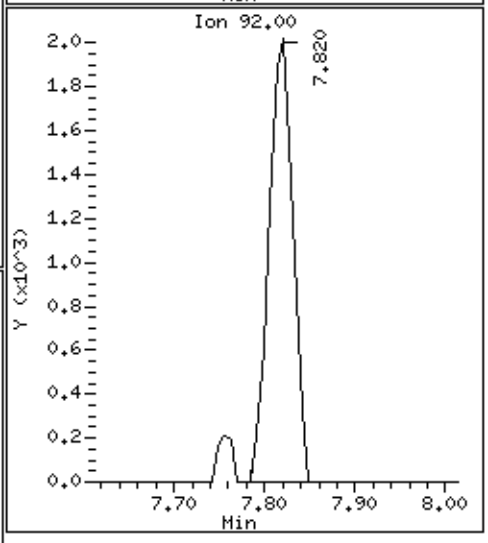
153 Toluene

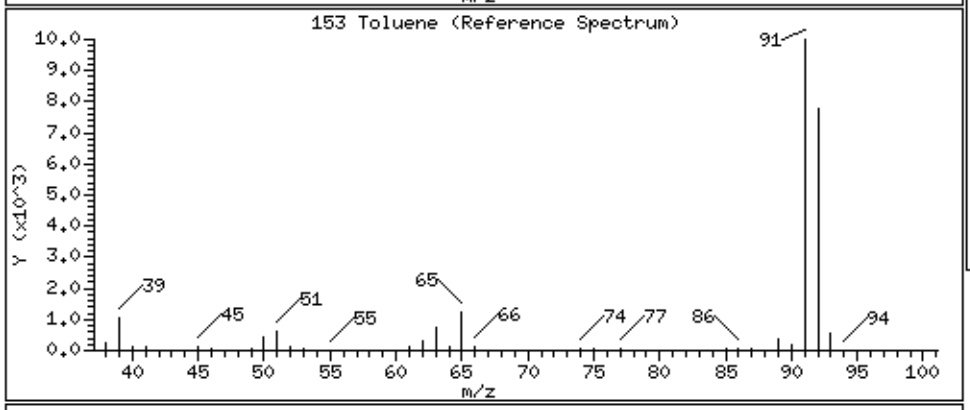
Concentration: 0.3015 PPBV

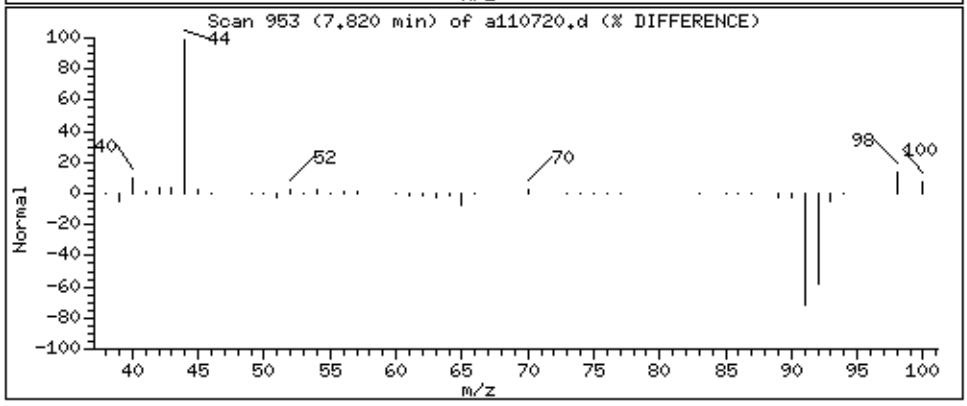












eurofins | Air Toxics

Client ID:	T1AMF-SV010_OCT24		
Lab ID:	2410702A-02A	**Date/Time Analyzed:**	11/8/24 02:28 AM
Date/Time Collected:	10/23/24 09:49 AM	**Dilution Factor:**	2.11
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110721

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.0	3.8	4.2	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.2	5.7	6.3	Not Detected U
Benzene	71-43-2	0.59	3.0	3.4	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.3	3.8	4.2	Not Detected U
Ethyl Benzene	100-41-4	1.7	4.1	4.6	Not Detected U
m,p-Xylene	108-38-3	1.6	4.1	9.2	Not Detected U
o-Xylene	95-47-6	1.6	4.1	4.6	Not Detected U
Toluene	108-88-3	0.87	3.6	8.0	Not Detected U
trans-1,2-Dichloroethene	156-60-5	1.6	3.8	4.2	Not Detected U
Trichloroethene	79-01-6	0.83	5.1	5.7	Not Detected U
Vinyl Chloride	75-01-4	1.2	2.4	2.7	Not Detected U

U = The analyte was not detected above the MDL.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	87
4-Bromofluorobenzene	460-00-4	70-130	91
Toluene-d8	2037-26-5	70-130	102

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/07NOV24.b/a110721.d
Lab Smp Id: 2410702A-02A
Inj Date : 08-NOV-2024 02:28
Operator : DF Inst ID: msda.i
Smp Info : 200mL 1L1519
Misc Info : 6.1 Hg->10 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/07NOV24.b/a24q0910a.m
Meth Date : 11-Nov-2024 14:42 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 6
Dil Factor: 2.11000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	284445	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	222593			46.45- 106.45	78.26
5.428	5.428 (1.000)	49	571712			167.12- 227.12	200.99
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	1027132	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	162816			0.00- 46.36	15.85
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	974606	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	551793			27.12- 87.12	56.62
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	432447	21.8533	21.853	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	217201			23.36- 83.36	50.23
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	1092065	25.5004	25.500	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	125652			0.00- 41.92	11.51

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	735149			39.07- 99.07	67.32
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	589018	22.6636	22.664	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	731265			89.27- 149.27	124.15
10.292	10.292 (1.125)	176	574455			66.29- 126.29	97.53

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110721.d
Lab Smp Id: 2410702A-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 6.1 Hg->10 psi

Calibration Date: 07-NOV-2024
Calibration Time: 11:48
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	300803	180482	421124	284445	-5.44
126 1,4-Difluorobenze	1130282	678169	1582395	1027132	-9.13
165 Chlorobenzene-d5	1024524	614714	1434334	974606	-4.87

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	-0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 08:56

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 07NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-02A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 6.1 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	21.853	87.41	70-130
$ 152 Toluene-d8	25.000	25.500	102.00	70-130
$ 191 4-Bromofluorobenz	25.000	22.664	90.65	70-130

Data File: /chem/msda.i/07NOV24.b/a110721.d

Date : 08-NOV-2024 02:28

Client ID:

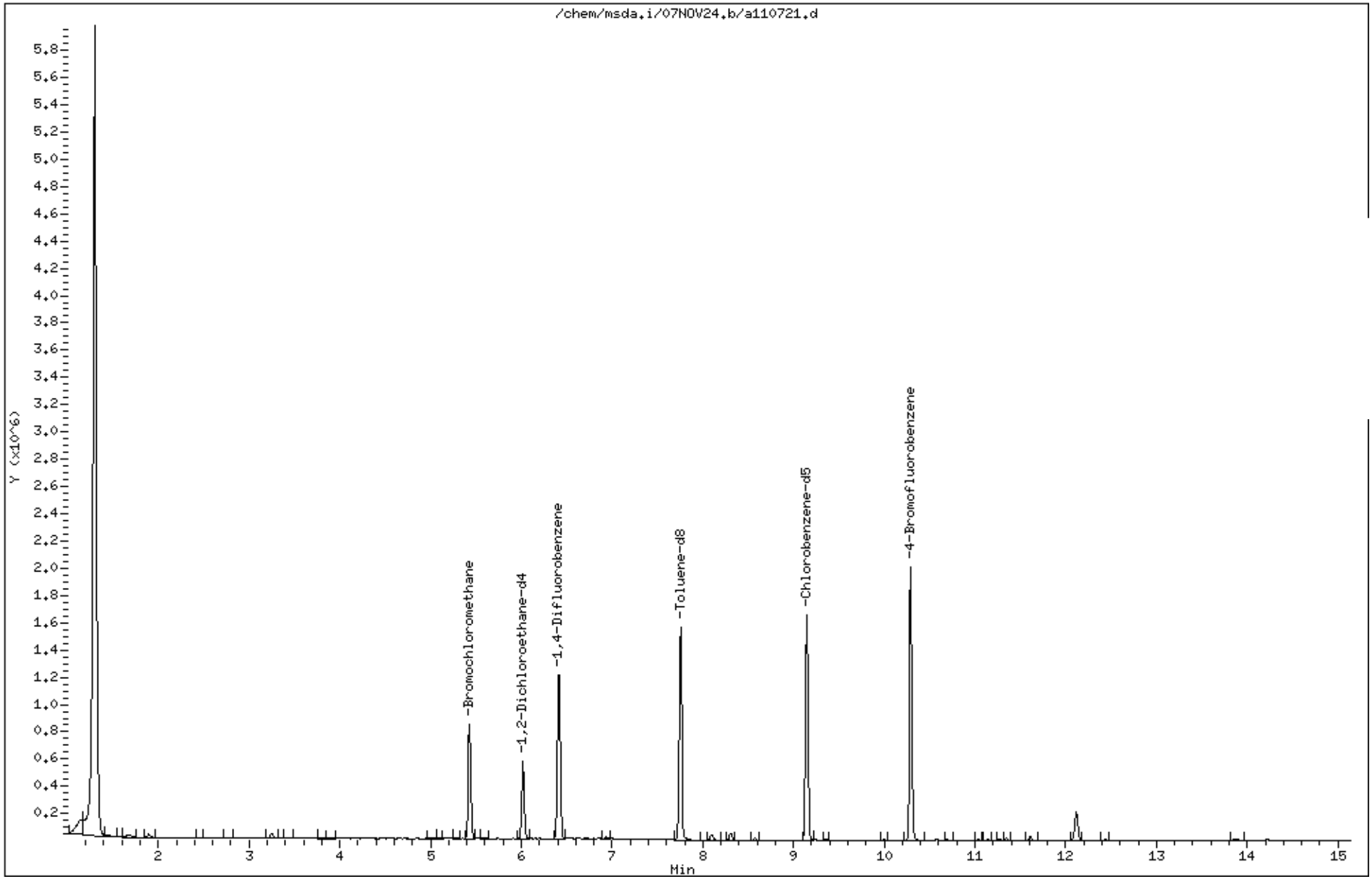
Sample Info: 200mL 1L1519

Column phase: RTX-624

Instrument: msda.i

Operator: DF

Column diameter: 0.25



eurofins | Air Toxics

Client ID:	T1AMF-SV028_OCT24		
Lab ID:	2410702A-03A	**Date/Time Analyzed:**	11/8/24 03:05 AM
Date/Time Collected:	10/23/24 10:49 AM	**Dilution Factor:**	2.15
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110722

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.0	3.8	4.3	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.2	5.8	6.5	Not Detected U
Benzene	71-43-2	0.60	3.1	3.4	130
cis-1,2-Dichloroethene	156-59-2	1.3	3.8	4.3	Not Detected U
Ethyl Benzene	100-41-4	1.8	4.2	4.7	16
m,p-Xylene	108-38-3	1.7	4.2	9.3	30
o-Xylene	95-47-6	1.6	4.2	4.7	5.7
Toluene	108-88-3	0.89	3.6	8.1	3.6 J
trans-1,2-Dichloroethene	156-60-5	1.6	3.8	4.3	Not Detected U
Trichloroethene	79-01-6	0.85	5.2	5.8	Not Detected U
Vinyl Chloride	75-01-4	1.3	2.5	2.7	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	90
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	102

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/07NOV24.b/a110722.d
Lab Smp Id: 2410702A-03A
Inj Date : 08-NOV-2024 03:05
Operator : DF Inst ID: msda.i
Smp Info : 200mL N7769
Misc Info : 6.7 Hg->9.9 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/07NOV24.b/a24q0910a.m
Meth Date : 11-Nov-2024 14:42 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 7
Dil Factor: 2.15000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.435	5.428 (1.000)	130	276563	25.0000		80.00- 120.00	100.00
5.435	5.428 (1.000)	128	218458			46.45- 106.45	78.99
5.428	5.428 (1.000)	49	547968			167.12- 227.12	198.13
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.417	6.409 (1.000)	114	1048694	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	171751			0.00- 46.36	16.38
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	988191	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	561092			27.12- 87.12	56.78
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.107)	65	431909	22.4482	22.448	80.00- 120.00	100.00
6.015	6.015 (1.107)	67	216711			23.36- 83.36	50.18
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	1110684	25.4019	25.402	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	131904			0.00- 41.92	11.88

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	745621			39.07- 99.07	67.13
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	623248	23.6510	23.651	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	782632			89.27- 149.27	125.57
10.292	10.292 (1.125)	176	600135			66.29- 126.29	96.29
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.933)	78	672202	18.5010	39.777	80.00- 120.00	100.00
5.987	5.987 (0.933)	77	159428			0.00- 53.99	23.72
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.218)	91	21395	0.44827	0.9638	80.00- 120.00	100.00(a)
7.821	7.813 (1.219)	92	12775			27.69- 87.69	59.71
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.011)	106	35972	1.75023	3.763	80.00- 120.00	100.00
9.246	9.246 (1.011)	91	106811			281.27- 341.27	296.93
173 m,p-Xylene					CAS #: 108-38-3		
9.353	9.360 (1.023)	106	82523	3.22513	6.934	80.00- 120.00	100.00
9.353	9.360 (1.023)	91	172855			176.41- 236.41	209.46
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.066)	106	14545	0.60757	1.306	80.00- 120.00	100.00
9.747	9.747 (1.066)	91	31588			186.60- 246.60	217.17

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110722.d
Lab Smp Id: 2410702A-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 6.7 Hg->9.9 psi

Calibration Date: 07-NOV-2024
Calibration Time: 11:48
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	300803	180482	421124	276563	-8.06
126 1,4-Difluorobenze	1130282	678169	1582395	1048694	-7.22
165 Chlorobenzene-d5	1024524	614714	1434334	988191	-3.55

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.44	0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 08:59

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 07NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-03A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 6.7 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.448	89.79	70-130
$ 152 Toluene-d8	25.000	25.402	101.61	70-130
$ 191 4-Bromofluorobenz	25.000	23.651	94.60	70-130

Data File: /chem/msda.i/07NOV24.b/a110722.d

Date : 08-NOV-2024 03:05

Client ID:

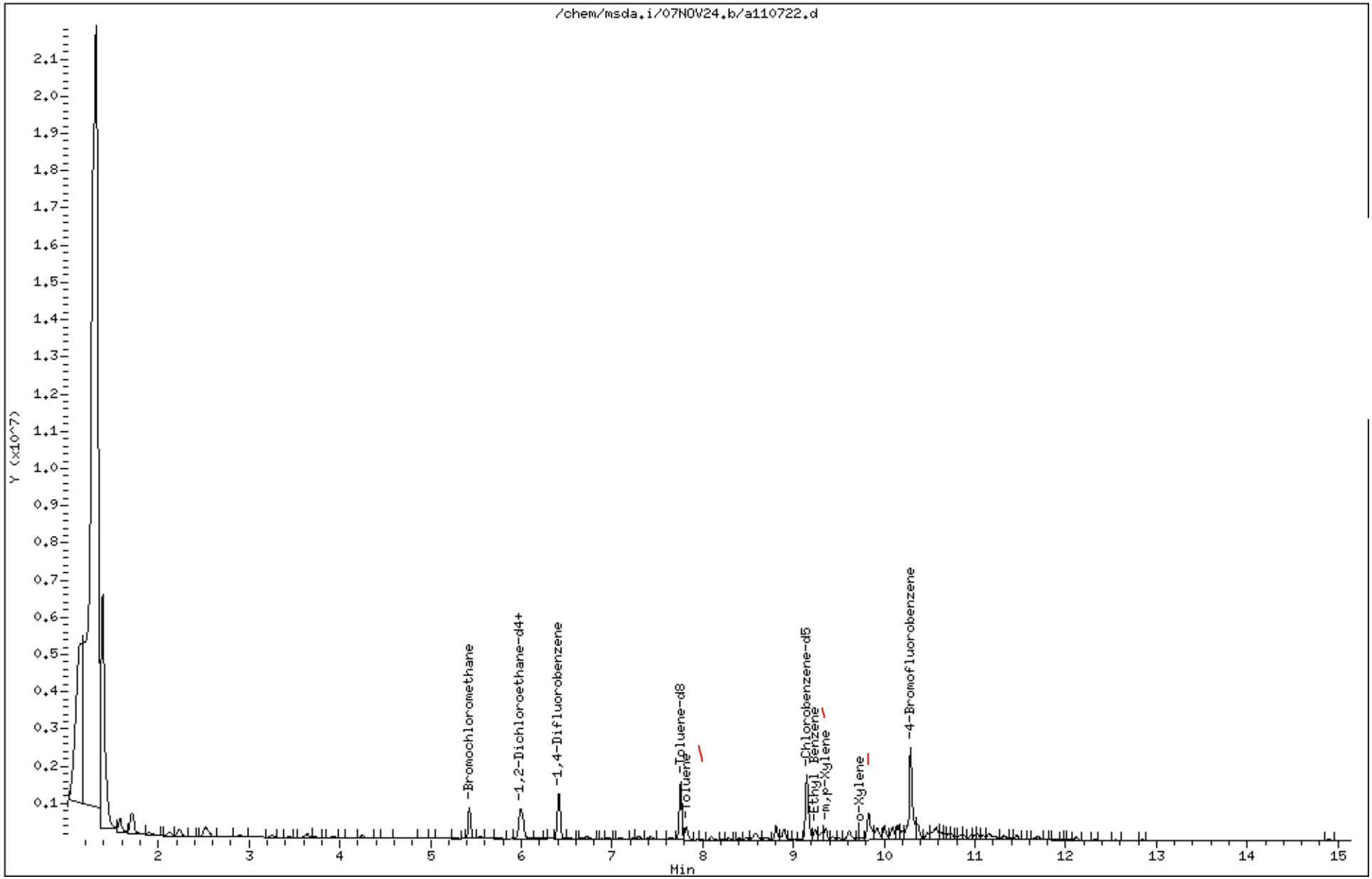
Sample Info: 200mL N7769

Column phase: RTX-624

Instrument: msda.i

Operator: DF

Column diameter: 0.25



Data File: /chem/msda.i/07NOV24.b/a110722.d

Date : 08-NOV-2024 03:05

Client ID:

Instrument: msda.i

Sample Info: 200mL N7769

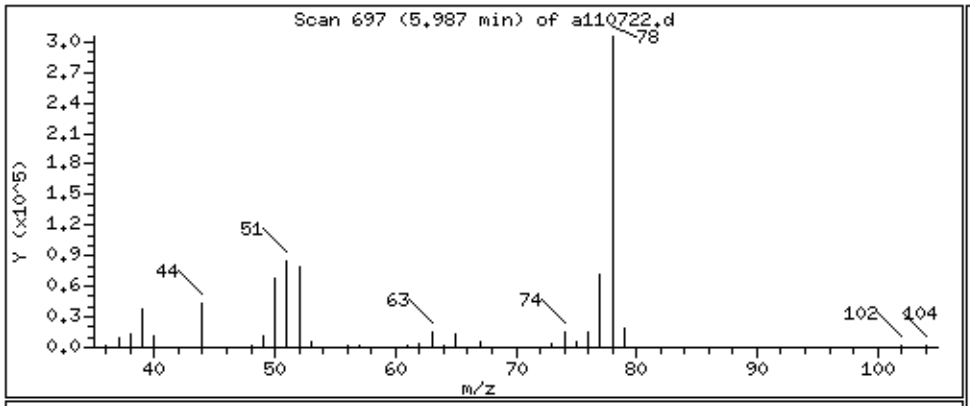
Operator: DF

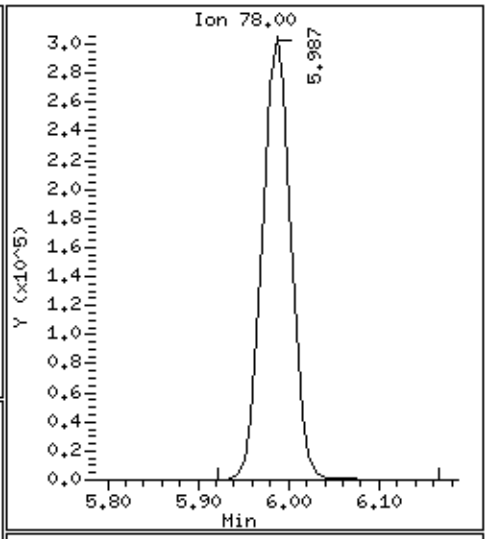
Column phase: RTX-624

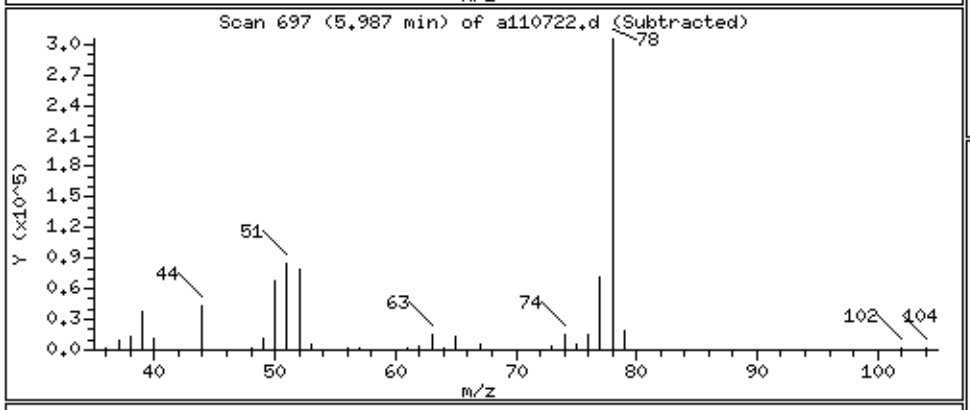
Column diameter: 0.25

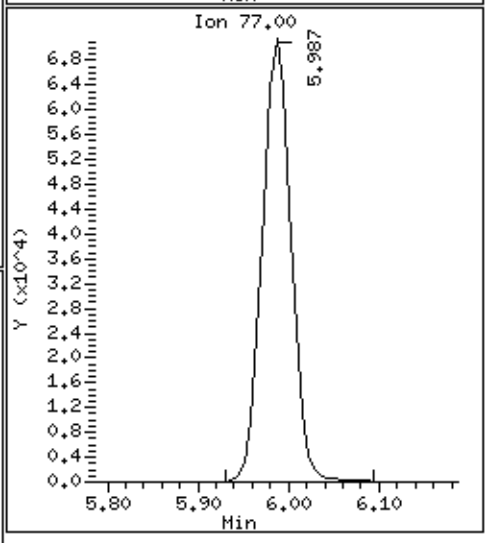
118 Benzene

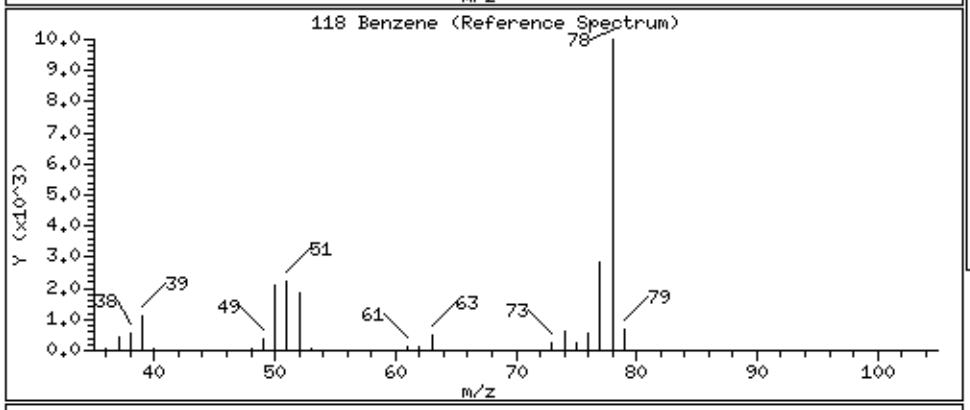
Concentration: 39.777 PPBV

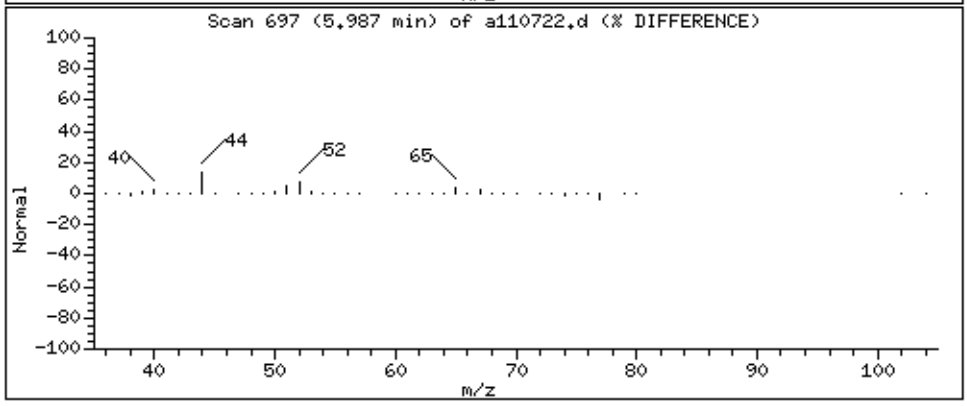












Data File: /chem/msda.i/07NOV24.b/a110722.d

Date : 08-NOV-2024 03:05

Client ID:

Instrument: msda.i

Sample Info: 200mL N7769

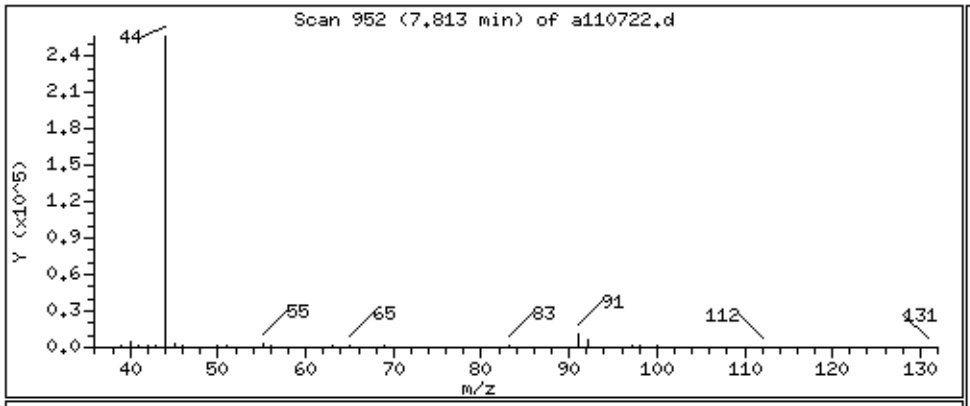
Operator: DF

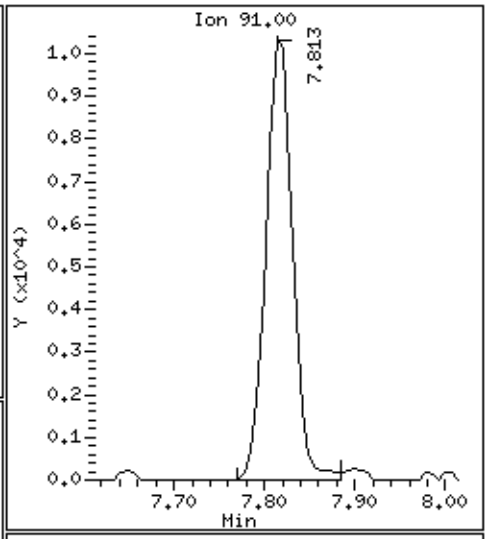
Column phase: RTX-624

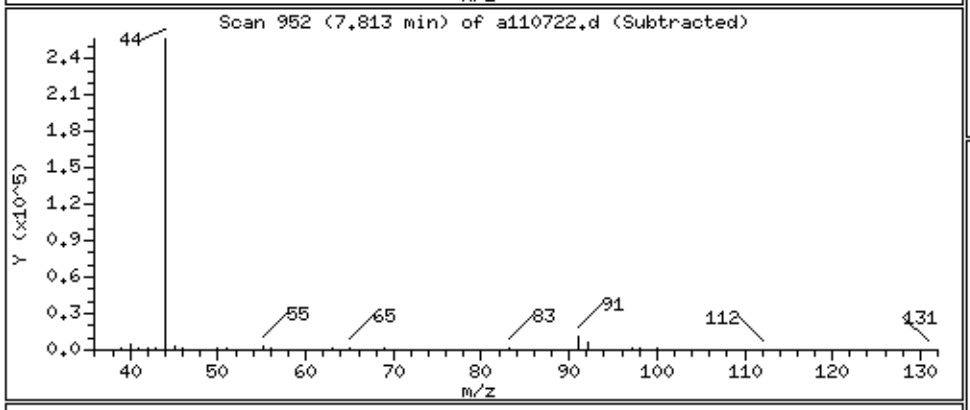
Column diameter: 0.25

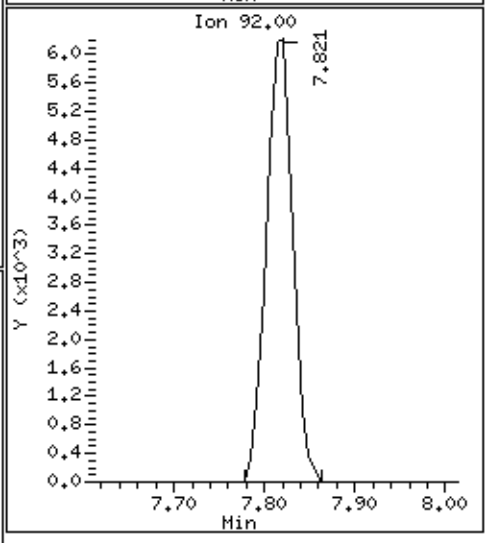
153 Toluene

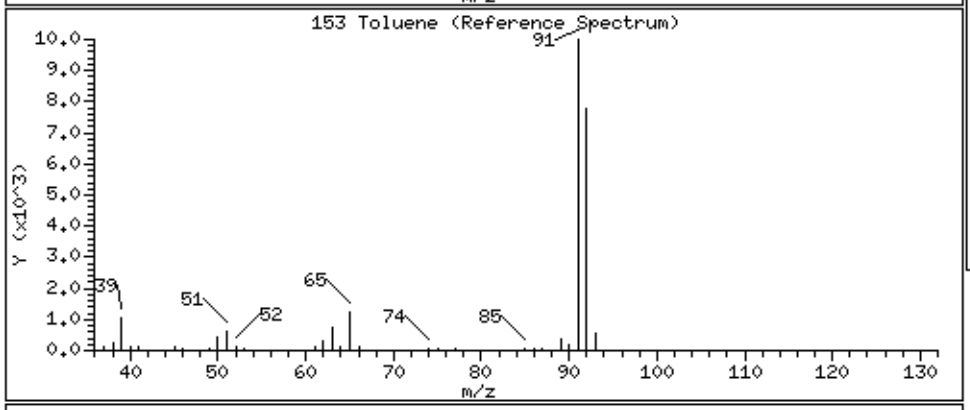
Concentration: 0.9638 PPBV

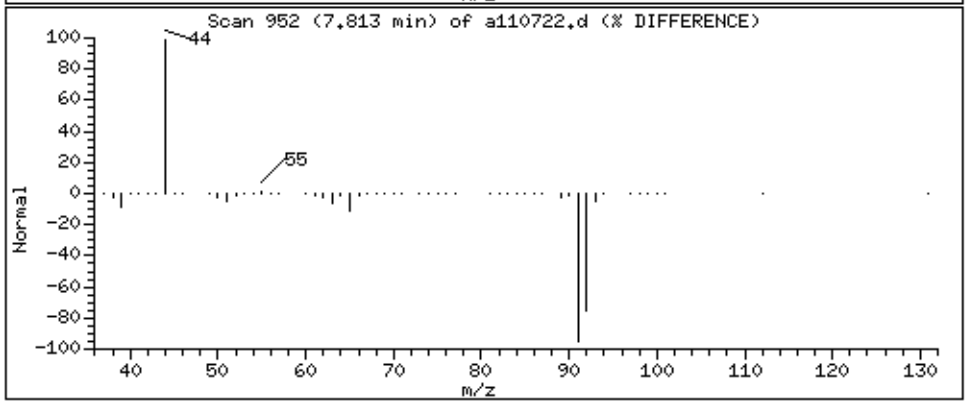












Data File: /chem/msda.i/07NOV24.b/a110722.d

Date : 08-NOV-2024 03:05

Client ID:

Instrument: msda.i

Sample Info: 200mL N7769

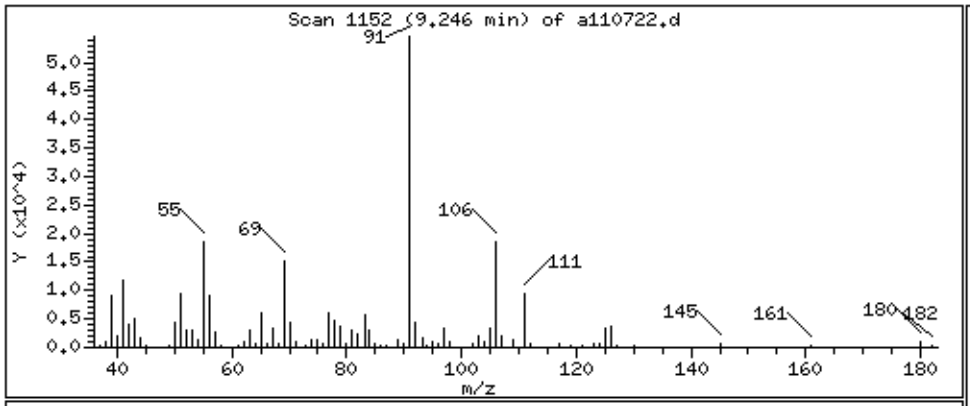
Operator: DF

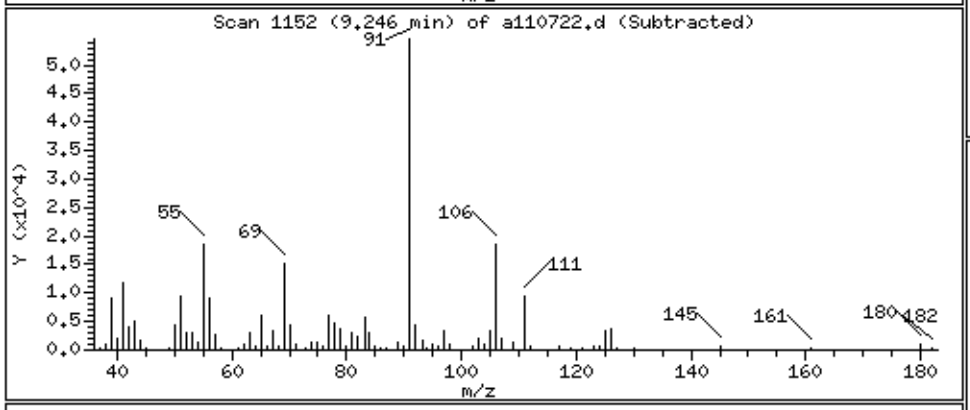
Column phase: RTX-624

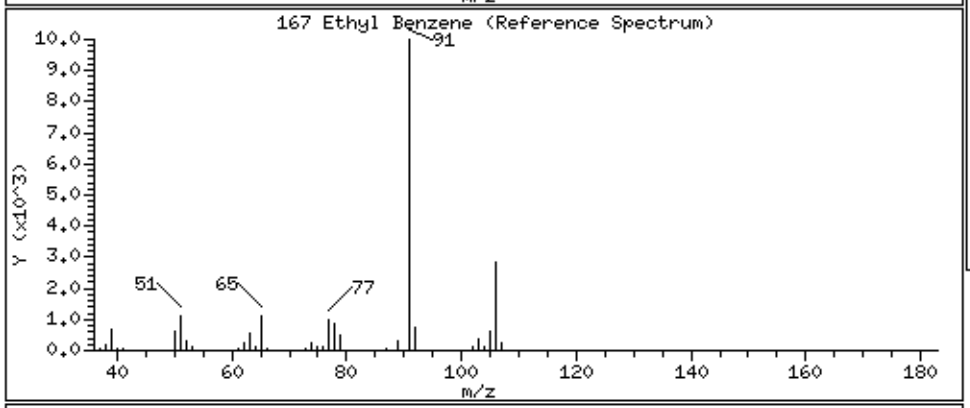
Column diameter: 0.25

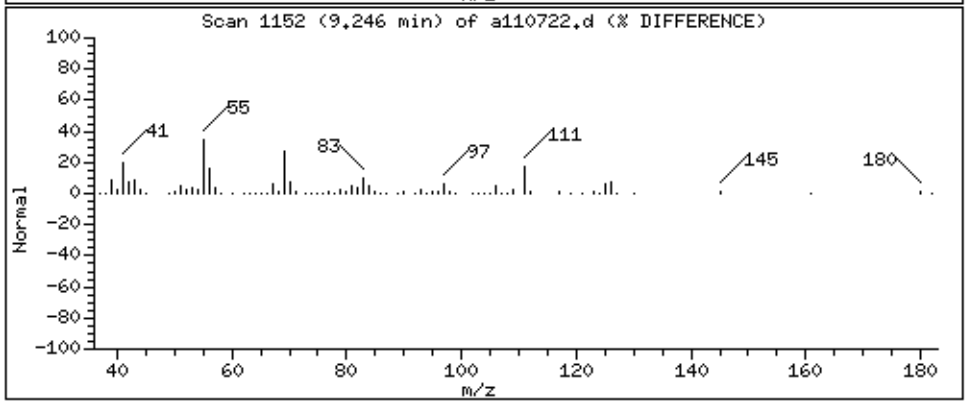
167 Ethyl Benzene

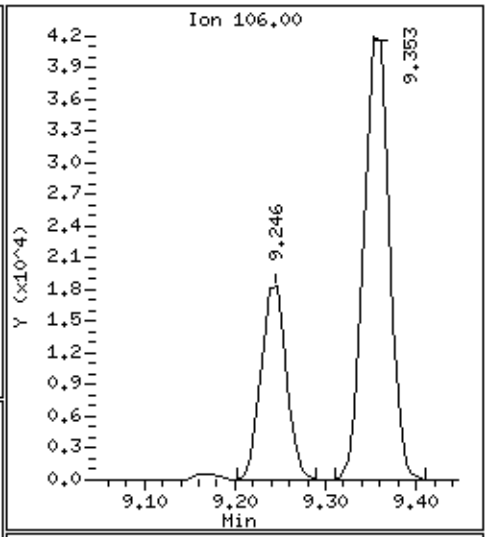
Concentration: 3.763 PPBV

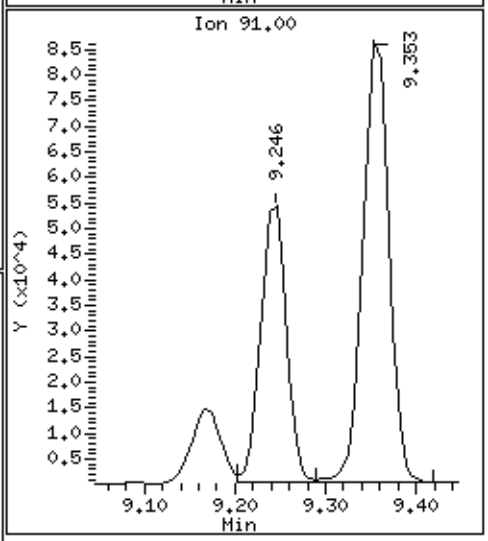












Data File: /chem/msda.i/07NOV24.b/a110722.d

Date : 08-NOV-2024 03:05

Client ID:

Instrument: msda.i

Sample Info: 200mL N7769

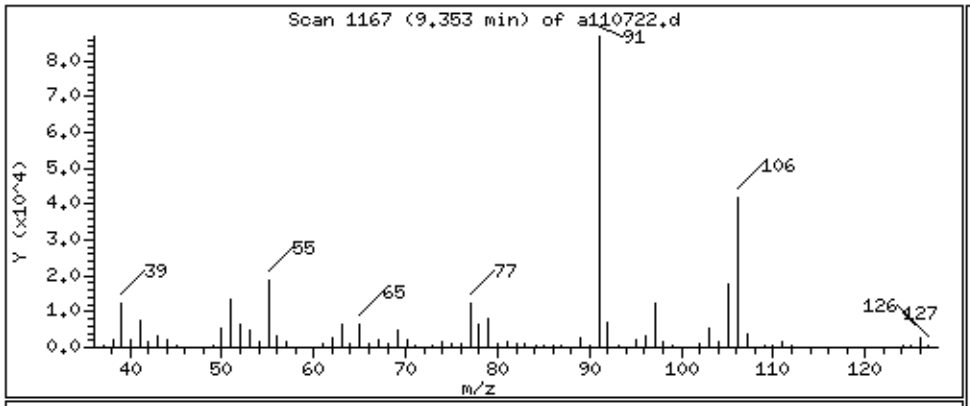
Operator: DF

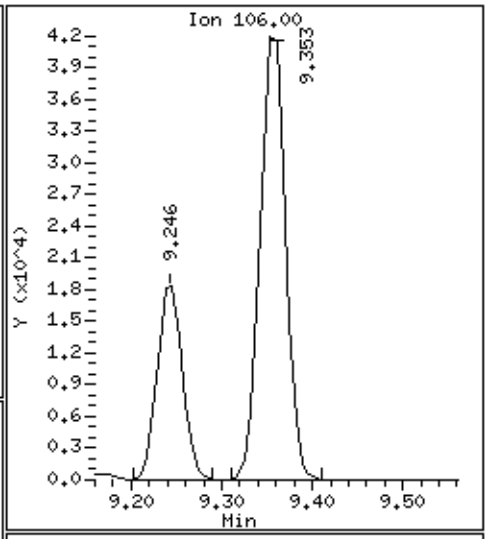
Column phase: RTX-624

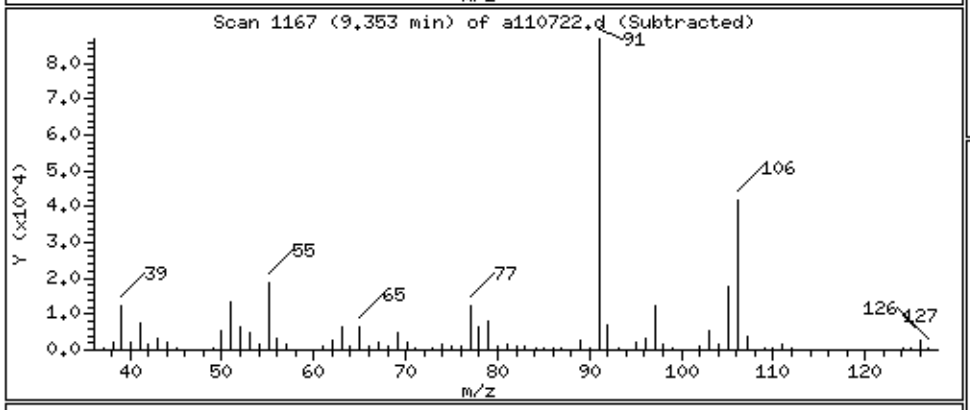
Column diameter: 0.25

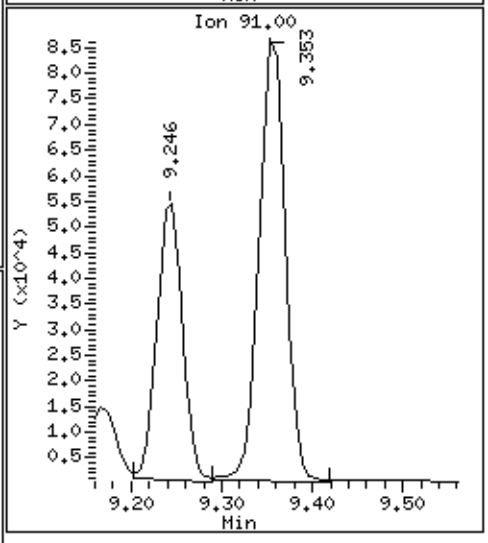
173 m,p-Xylene

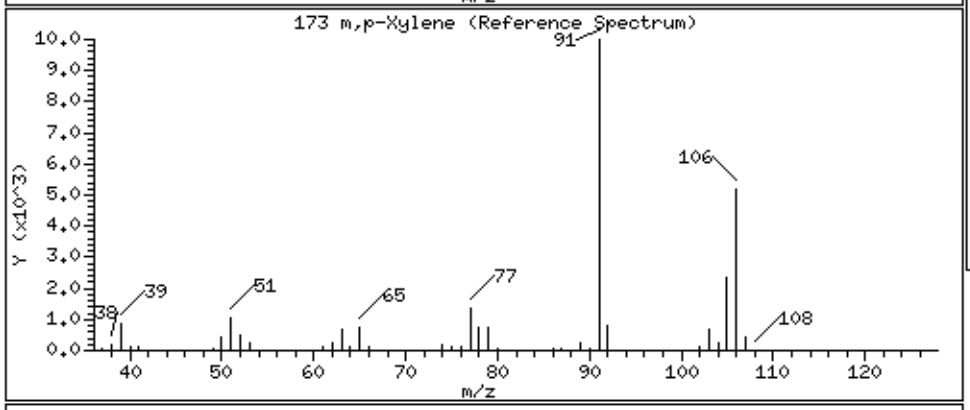
Concentration: 6.934 PPBV

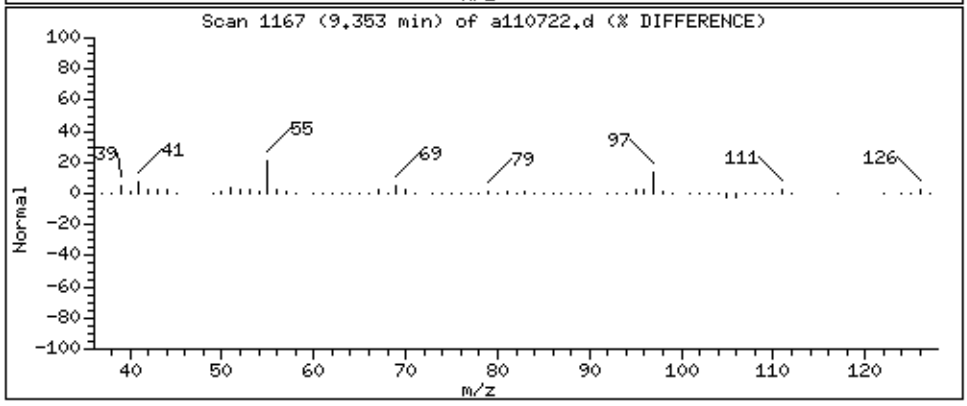












Data File: /chem/msda.i/07NOV24.b/a110722.d

Date : 08-NOV-2024 03:05

Client ID:

Instrument: msda.i

Sample Info: 200mL N7769

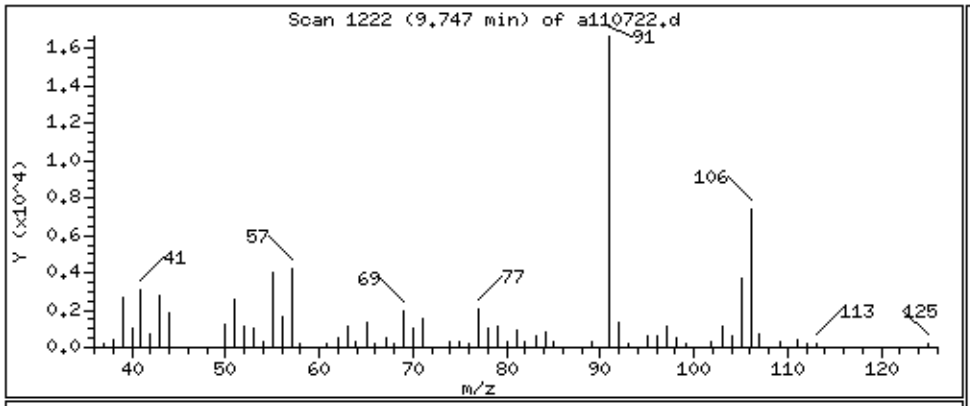
Operator: DF

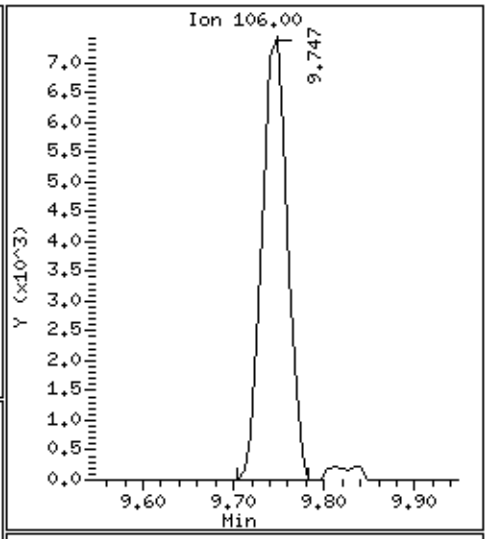
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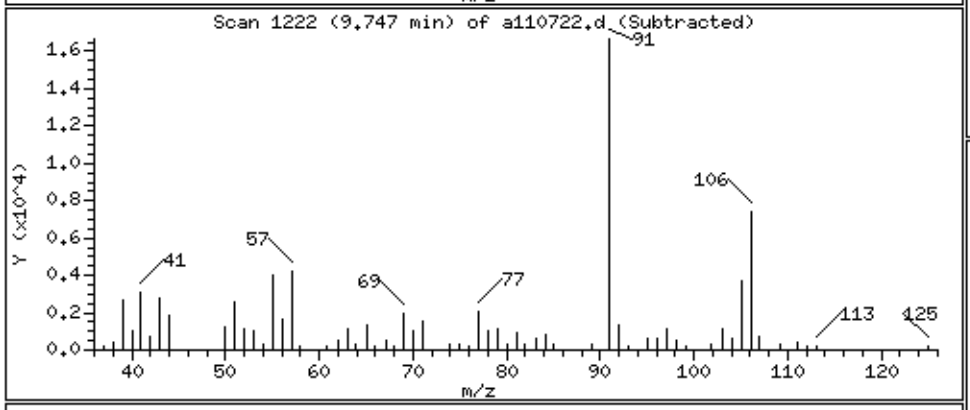
Column diameter: 0.25

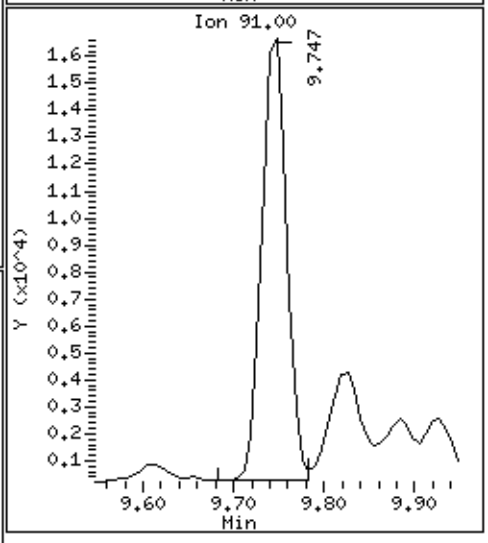
176 o-Xylene

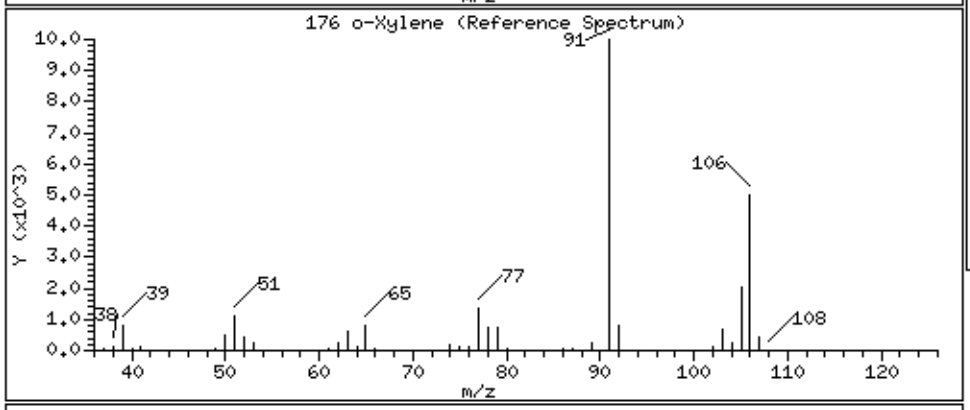
Concentration: 1.306 PPBV

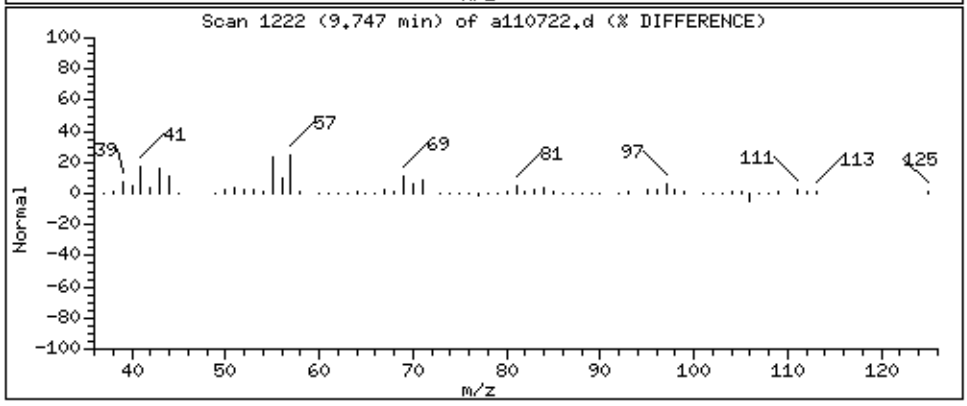












eurofins | Air Toxics

Client ID:	T1AMF-SV028_OCT24_FD		
Lab ID:	2410702A-04A	**Date/Time Analyzed:**	11/8/24 03:42 AM
Date/Time Collected:	10/23/24 10:49 AM	**Dilution Factor:**	2.27
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110723

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.1	4.0	4.5	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.4	6.1	6.8	Not Detected U
Benzene	71-43-2	0.63	3.3	3.6	130
cis-1,2-Dichloroethene	156-59-2	1.4	4.0	4.5	Not Detected U
Ethyl Benzene	100-41-4	1.9	4.4	4.9	16
m,p-Xylene	108-38-3	1.8	4.4	9.8	30
o-Xylene	95-47-6	1.7	4.4	4.9	5.6
Toluene	108-88-3	0.94	3.8	8.6	3.7 J
trans-1,2-Dichloroethene	156-60-5	1.7	4.0	4.5	Not Detected U
Trichloroethene	79-01-6	0.89	5.5	6.1	Not Detected U
Vinyl Chloride	75-01-4	1.3	2.6	2.9	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	89
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	102

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/07NOV24.b/a110723.d
Lab Smp Id: 2410702A-04A
Inj Date : 08-NOV-2024 03:42
Operator : DF Inst ID: msda.i
Smp Info : 200mL N6167
Misc Info : 8 Hg->9.8 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/07NOV24.b/a24q0910a.m
Meth Date : 11-Nov-2024 14:42 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 8
Dil Factor: 2.27000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.435	5.428 (1.000)	130	278405	25.0000		80.00- 120.00	100.00
5.435	5.428 (1.000)	128	215423			46.45- 106.45	77.38
5.428	5.428 (1.000)	49	556136			167.12- 227.12	199.76
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	1038196	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	165518			0.00- 46.36	15.94
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	976907	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	558057			27.12- 87.12	57.12
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.107)	65	430172	22.2100	22.210	80.00- 120.00	100.00
6.015	6.015 (1.107)	67	216109			23.36- 83.36	50.24
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.210)	98	1101929	25.4565	25.456	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	126170			0.00- 41.92	11.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.210)	100	744287			39.07- 99.07	67.54
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	620527	23.8197	23.820	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	789539			89.27- 149.27	127.24
10.292	10.292 (1.125)	176	601627			66.29- 126.29	96.95
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	640137	17.7967	40.398	80.00- 120.00	100.00
5.987	5.987 (0.934)	77	151848			0.00- 53.99	23.72
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.219)	91	20541	0.43473	0.9868	80.00- 120.00	100.00(a)
7.820	7.813 (1.220)	92	11853			27.69- 87.69	57.70
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.011)	106	32423	1.59578	3.622	80.00- 120.00	100.00
9.239	9.246 (1.010)	91	100647			281.27- 341.27	310.42
173 m,p-Xylene					CAS #: 108-38-3		
9.353	9.360 (1.023)	106	77823	3.07658	6.984	80.00- 120.00	100.00
9.353	9.360 (1.023)	91	162332			176.41- 236.41	208.59
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.066)	106	13582	0.57390	1.303	80.00- 120.00	100.00
9.747	9.747 (1.066)	91	32305			186.60- 246.60	237.85

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110723.d
Lab Smp Id: 2410702A-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 8 Hg->9.8 psi

Calibration Date: 07-NOV-2024
Calibration Time: 11:48
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	300803	180482	421124	278405	-7.45
126 1,4-Difluorobenze	1130282	678169	1582395	1038196	-8.15
165 Chlorobenzene-d5	1024524	614714	1434334	976907	-4.65

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.44	0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 09:00

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 07NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-04A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 8 Hg->9.8 psi

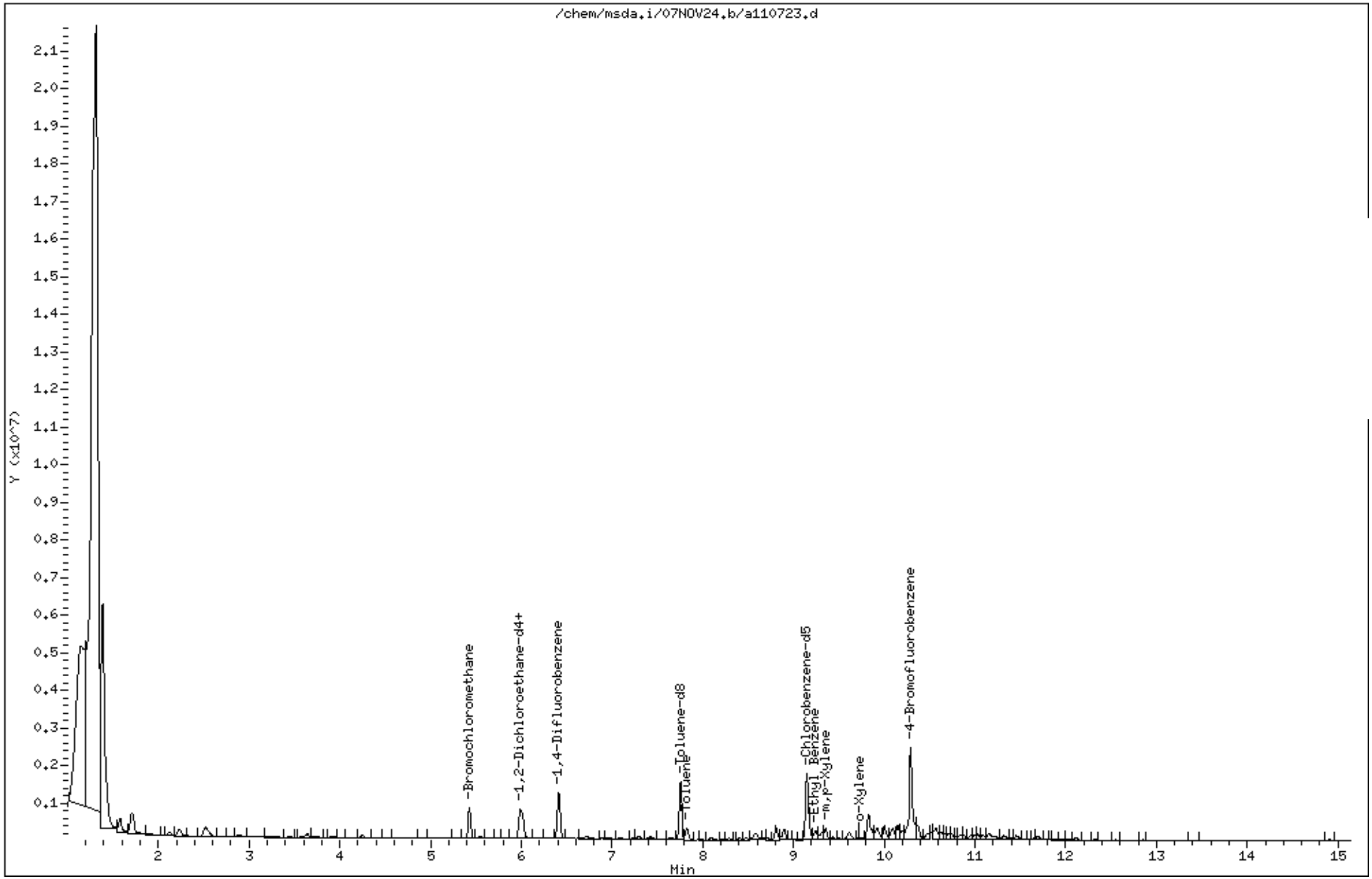
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.210	88.84	70-130
$ 152 Toluene-d8	25.000	25.456	101.83	70-130
$ 191 4-Bromofluorobenz	25.000	23.820	95.28	70-130

Data File: /chem/msda.i/07NOV24.b/a110723.d
Date : 08-NOV-2024 03:42
Client ID:
Sample Info: 200mL N6167

Instrument: msda.i

Operator: DF
Column diameter: 0.25

Column phase: RTX-624



Data File: /chem/msda.i/07NOV24.b/a110723.d

Date : 08-NOV-2024 03:42

Client ID:

Instrument: msda.i

Sample Info: 200mL N6167

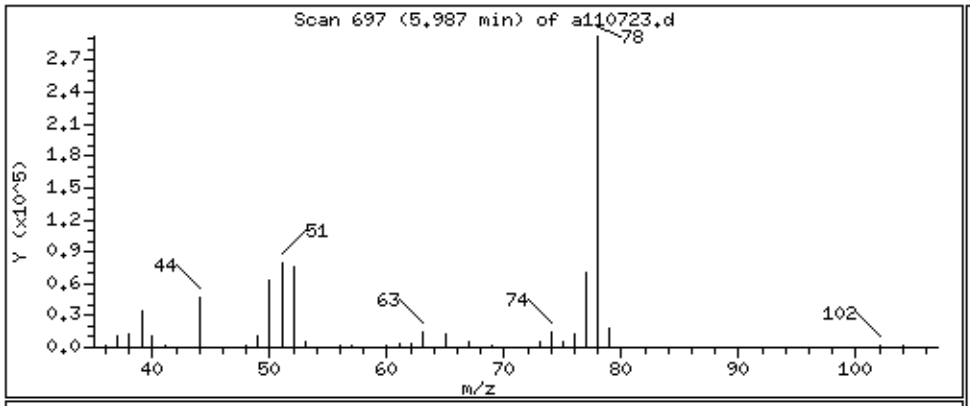
Operator: DF

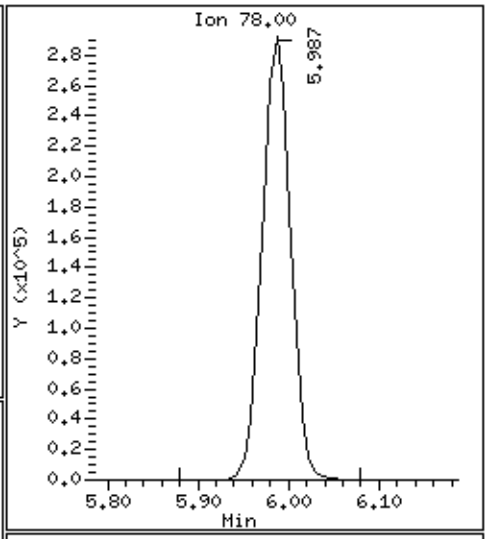
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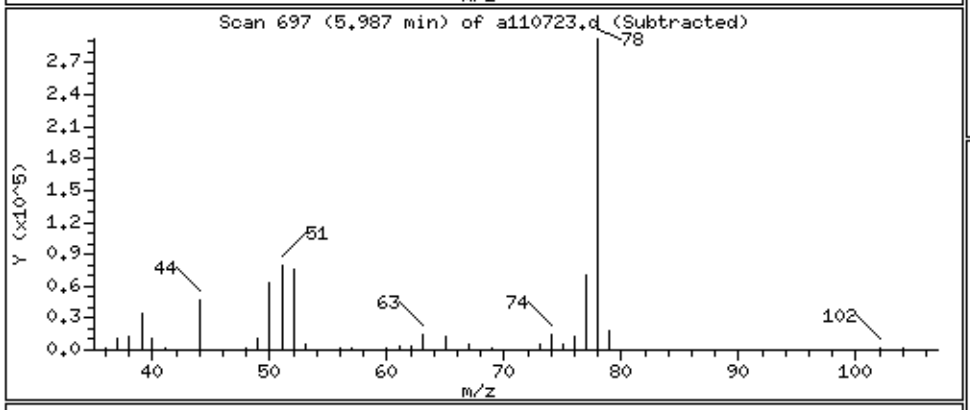
Column diameter: 0.25

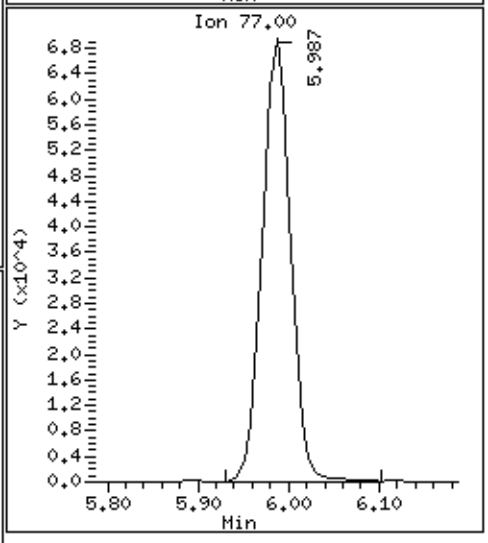
118 Benzene

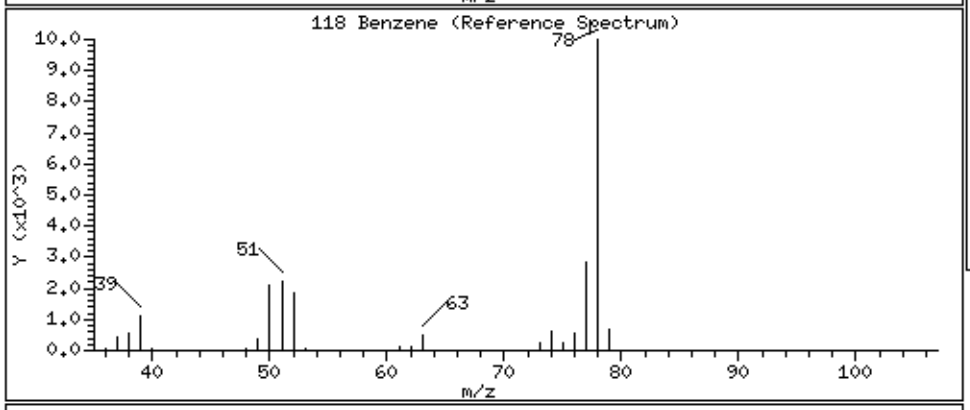
Concentration: 40.398 PPBV

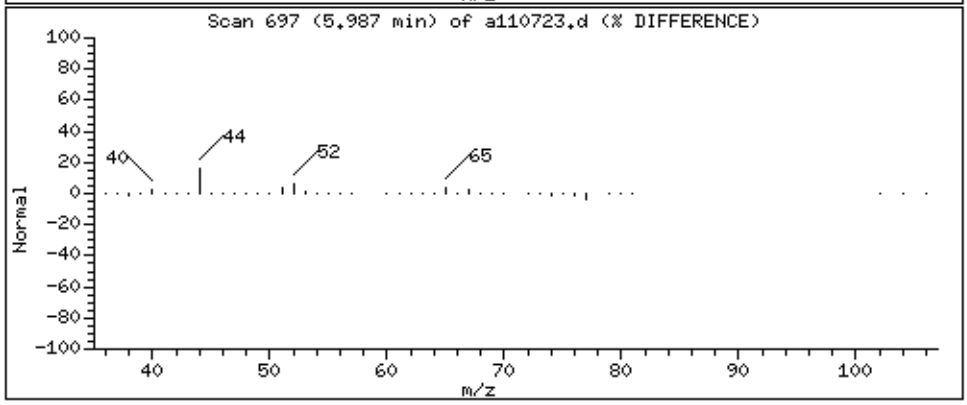












Data File: /chem/msda.i/07NOV24.b/a110723.d

Date : 08-NOV-2024 03:42

Client ID:

Instrument: msda.i

Sample Info: 200mL N6167

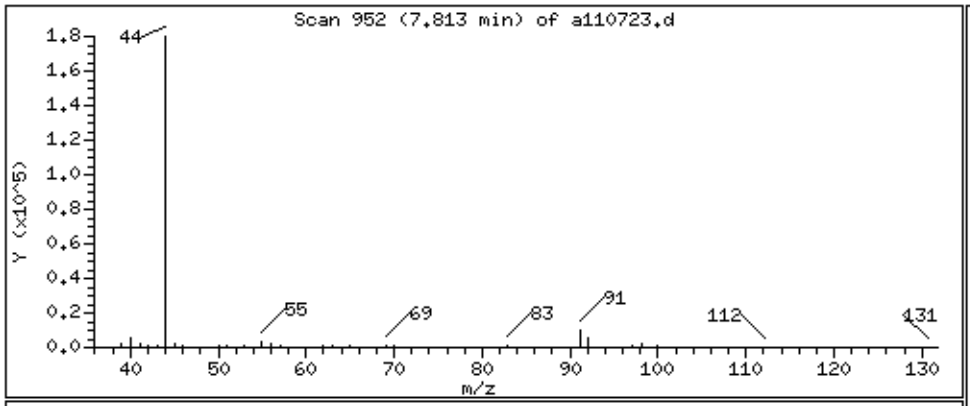
Operator: DF

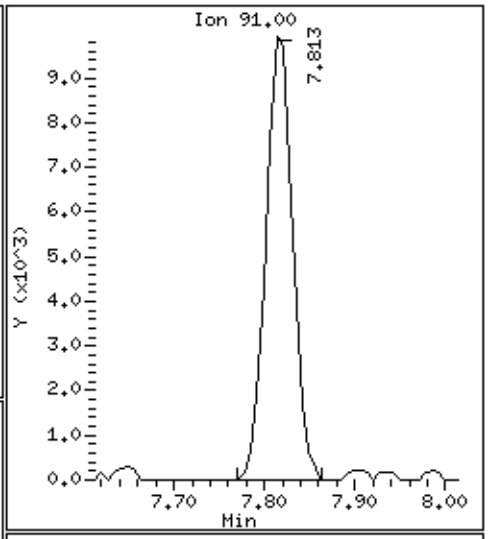
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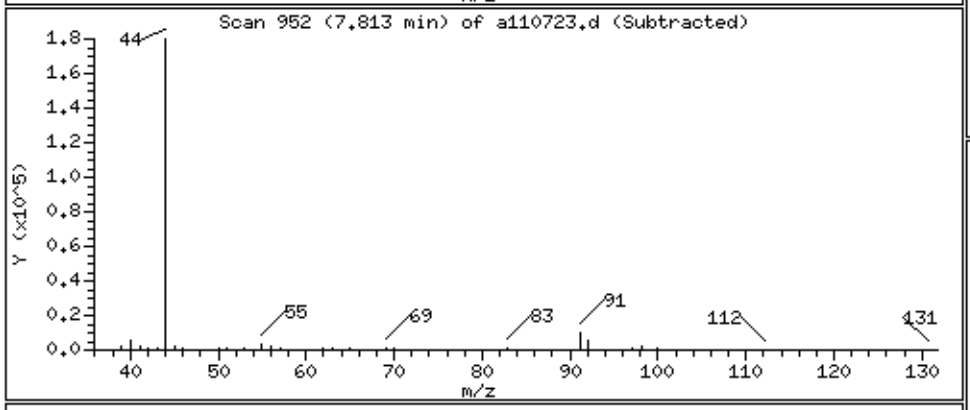
Column diameter: 0.25

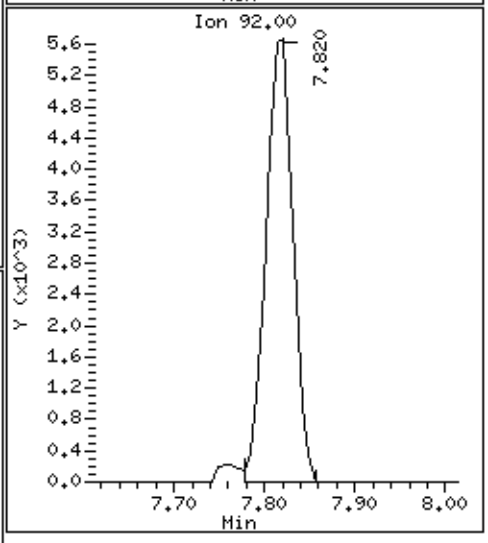
153 Toluene

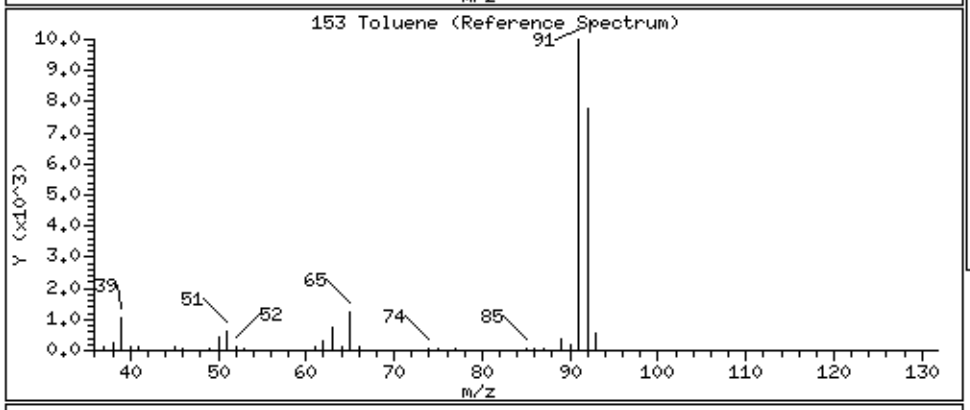
Concentration: 0.9868 PPBV

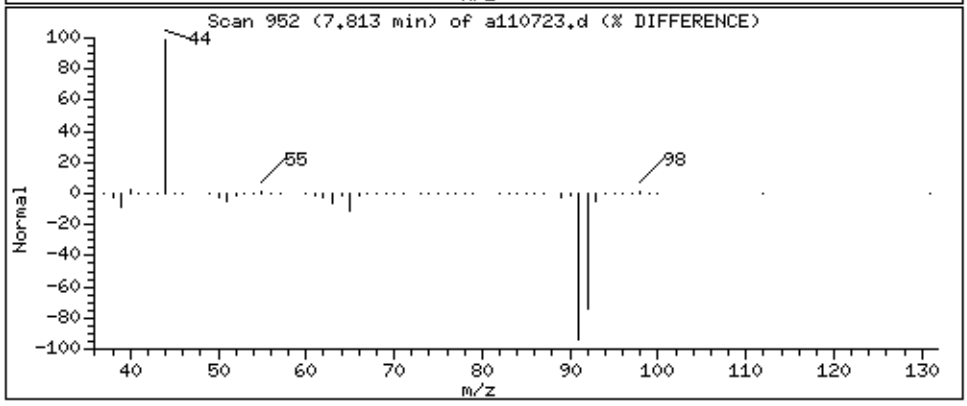












Data File: /chem/msda.i/07NOV24.b/a110723.d

Date : 08-NOV-2024 03:42

Client ID:

Instrument: msda.i

Sample Info: 200mL N6167

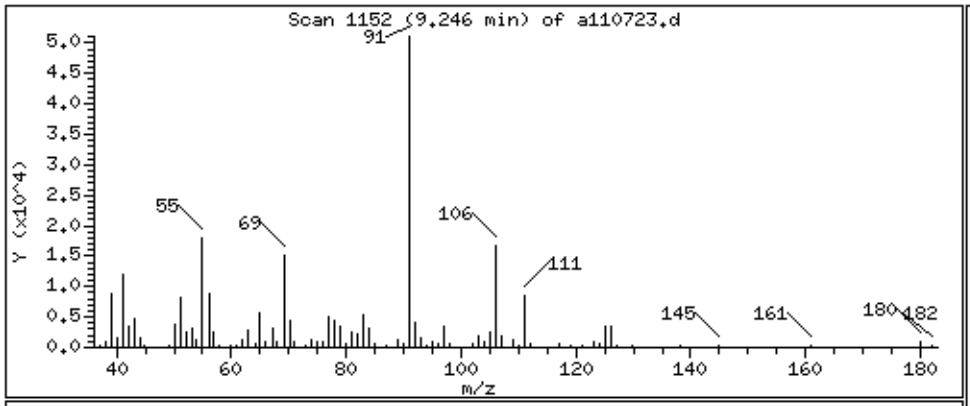
Operator: DF

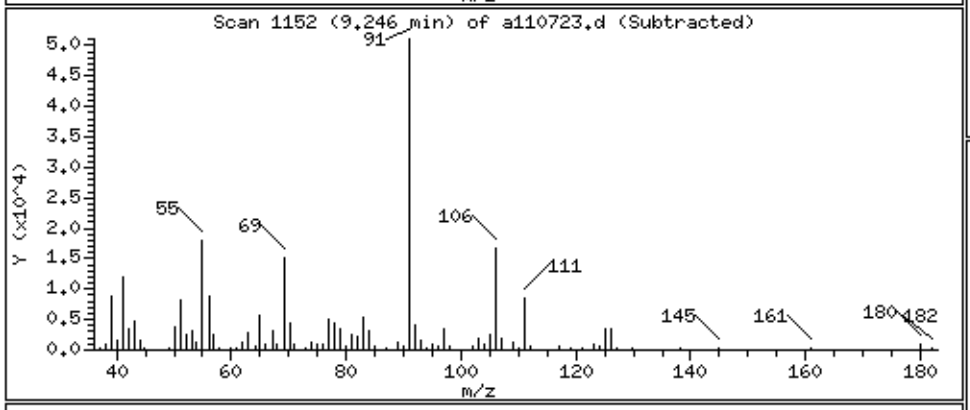
Column phase: RTX-624

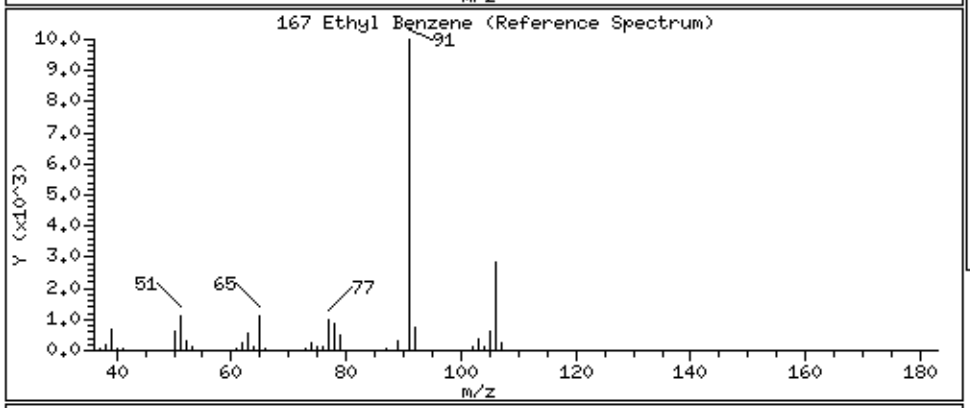
Column diameter: 0.25

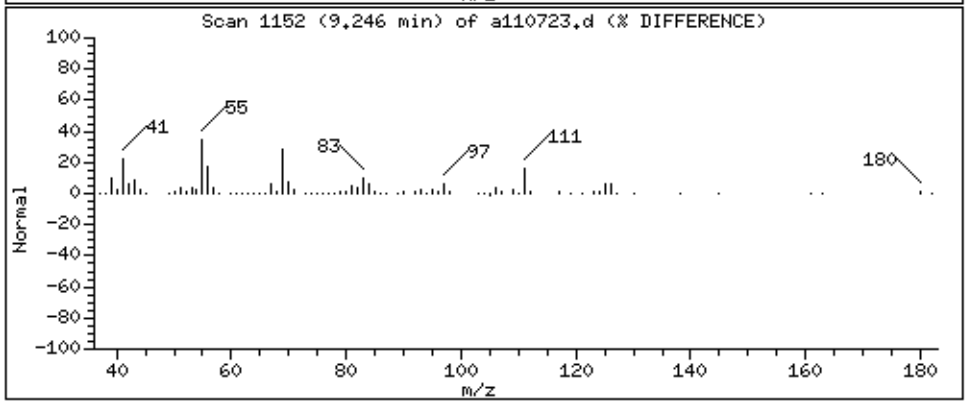
167 Ethyl Benzene

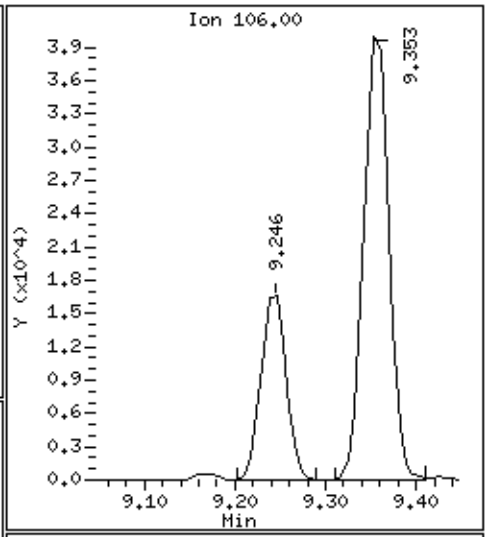
Concentration: 3.622 PPBV

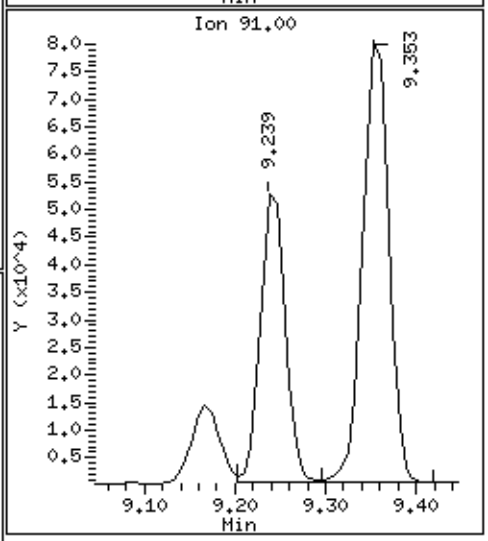












Data File: /chem/msda.i/07NOV24.b/a110723.d

Date : 08-NOV-2024 03:42

Client ID:

Instrument: msda.i

Sample Info: 200mL N6167

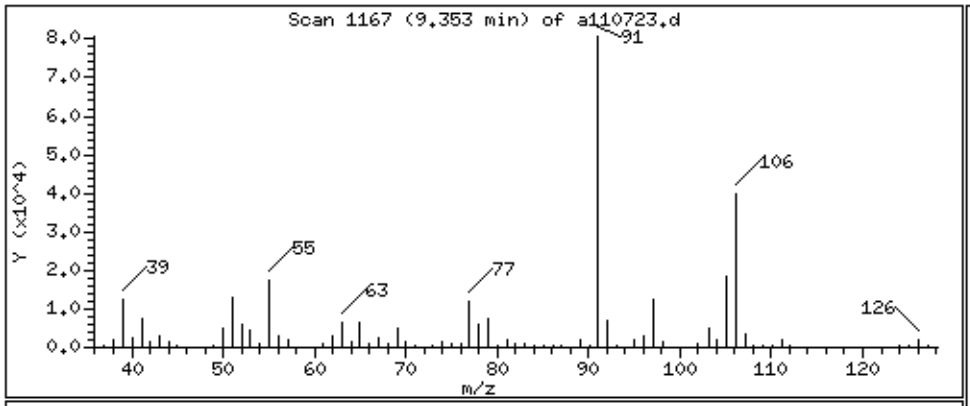
Operator: DF

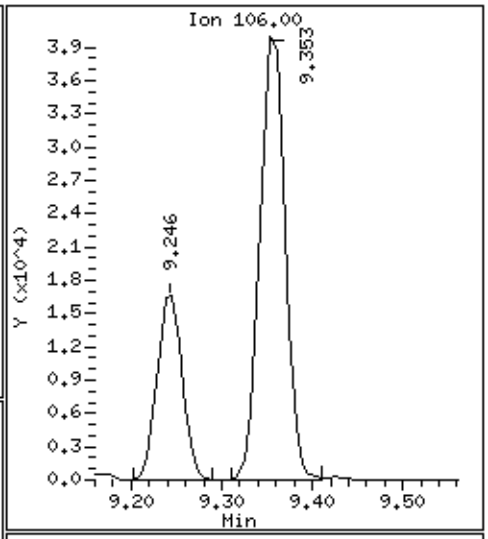
Column phase: RTX-624

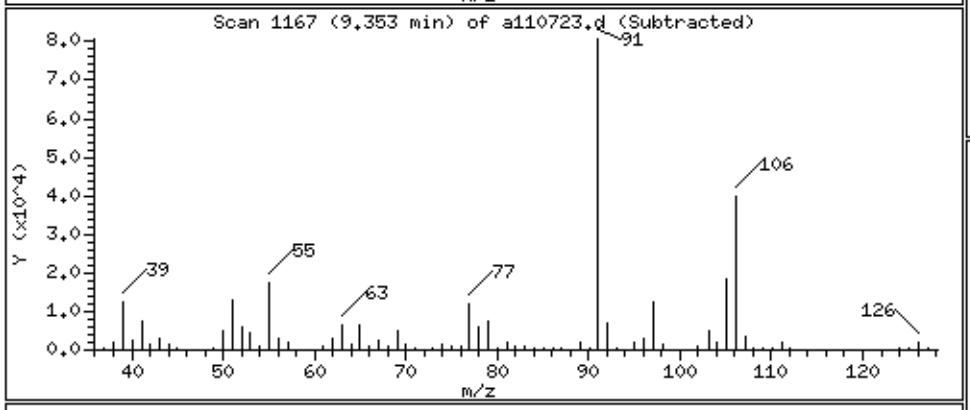
Column diameter: 0.25

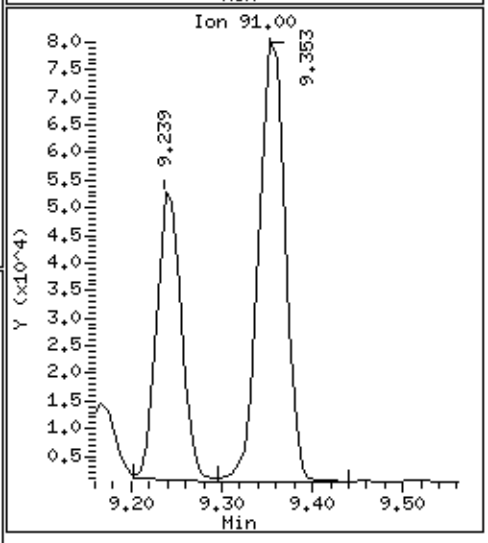
173 m,p-Xylene

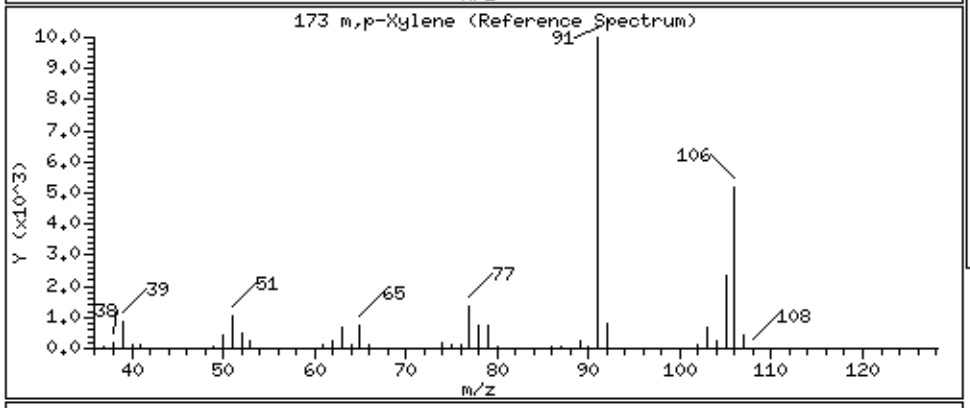
Concentration: 6.984 PPBV

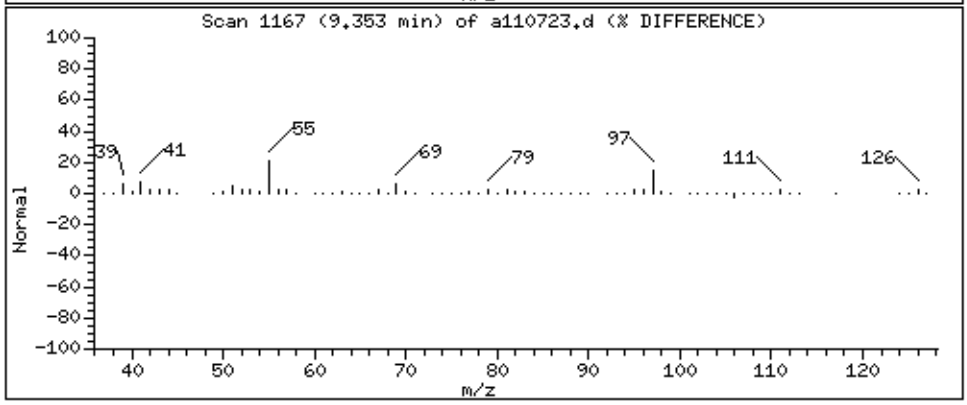












Data File: /chem/msda.i/07NOV24.b/a110723.d

Date : 08-NOV-2024 03:42

Client ID:

Instrument: msda.i

Sample Info: 200mL N6167

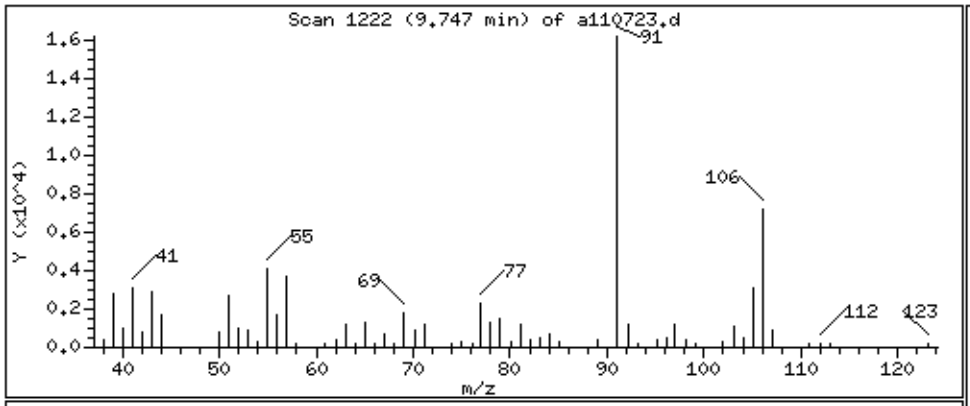
Operator: DF

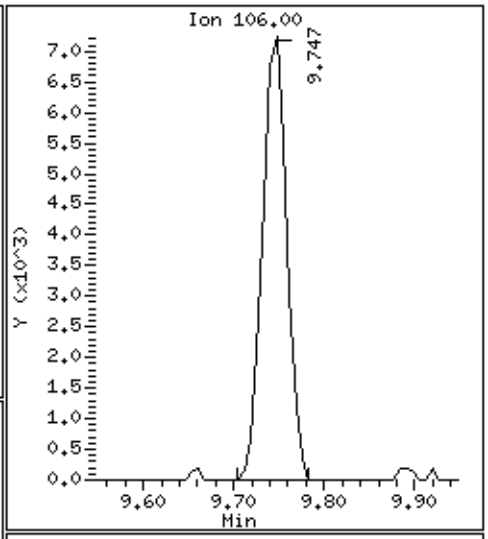
Column phase: RTX-624

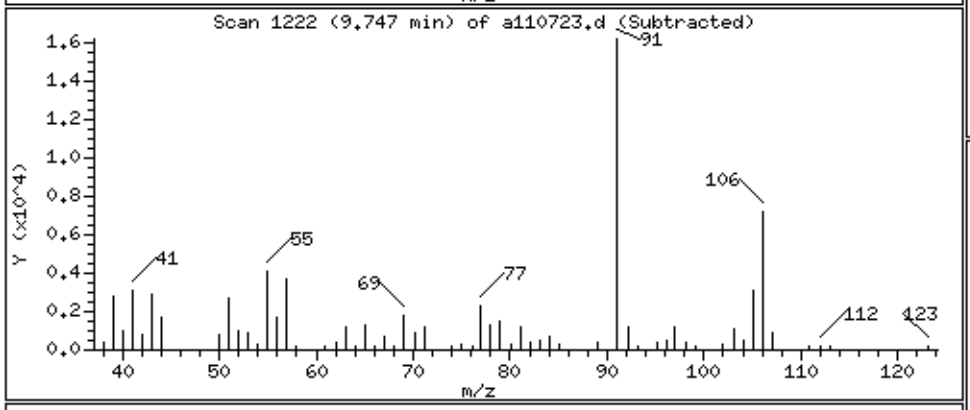
Column diameter: 0.25

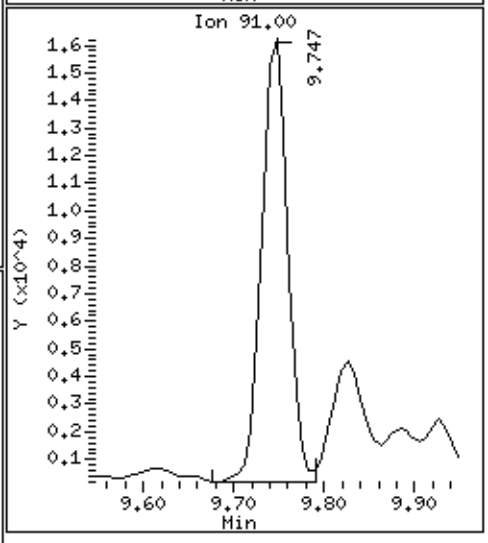
176 o-Xylene

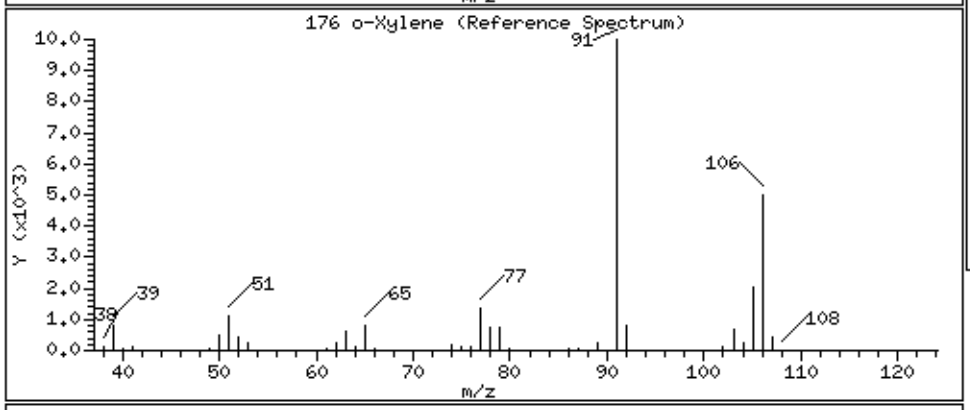
Concentration: 1.303 PPBV

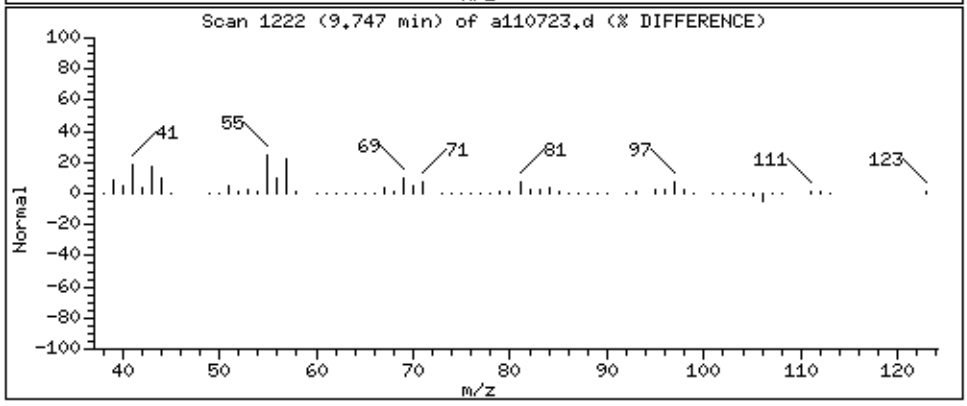












eurofins | Air Toxics

Client ID:	T1AMF-SV027_OCT24		
Lab ID:	2410702A-05A	**Date/Time Analyzed:**	11/8/24 04:20 AM
Date/Time Collected:	10/23/24 11:50 AM	**Dilution Factor:**	2.14
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110724

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.0	3.8	4.2	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.2	5.8	6.4	Not Detected U
Benzene	71-43-2	0.59	3.1	3.4	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.3	3.8	4.2	Not Detected U
Ethyl Benzene	100-41-4	1.8	4.2	4.6	Not Detected U
m,p-Xylene	108-38-3	1.7	4.2	9.3	3.7 J
o-Xylene	95-47-6	1.6	4.2	4.6	Not Detected U
Toluene	108-88-3	0.89	3.6	8.1	5.4 J
trans-1,2-Dichloroethene	156-60-5	1.6	3.8	4.2	Not Detected U
Trichloroethene	79-01-6	0.84	5.2	5.8	Not Detected U
Vinyl Chloride	75-01-4	1.3	2.5	2.7	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	88
4-Bromofluorobenzene	460-00-4	70-130	94
Toluene-d8	2037-26-5	70-130	102

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/07NOV24.b/a110724.d
Lab Smp Id: 2410702A-05A
Inj Date : 08-NOV-2024 04:20
Operator : DF Inst ID: msda.i
Smp Info : 200mL N6404
Misc Info : 6.5 Hg->10 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/07NOV24.b/a24q0910a.m
Meth Date : 11-Nov-2024 14:42 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 9
Dil Factor: 2.14000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.435	5.428 (1.000)	130	278305	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	217460			46.45- 106.45	78.14
5.428	5.428 (1.000)	49	557022			167.12- 227.12	200.15
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	1027505	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	162905			0.00- 46.36	15.85
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.146 (1.000)	117	963054	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	546183			27.12- 87.12	56.71
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.107)	65	425785	21.9914	21.991	80.00- 120.00	100.00
6.015	6.015 (1.107)	67	212901			23.36- 83.36	50.00
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	1097266	25.6125	25.612	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	125647			0.00- 41.92	11.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	723975			39.07- 99.07	65.98
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.124)	174	604139	23.5242	23.524	80.00- 120.00	100.00
10.292	10.292 (1.124)	95	733947			89.27- 149.27	121.49
10.292	10.292 (1.124)	176	581718			66.29- 126.29	96.29
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.218)	91	31137	0.66584	1.425	80.00- 120.00	100.00(a)
7.820	7.813 (1.219)	92	17656			27.69- 87.69	56.70
173 m,p-Xylene					CAS #: 108-38-3		
9.353	9.360 (1.022)	106	9895	0.39681	0.8492	80.00- 120.00	100.00(a)
9.353	9.360 (1.022)	91	18662			176.41- 236.41	188.60

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110724.d
Lab Smp Id: 2410702A-05A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 6.5 Hg->10 psi

Calibration Date: 07-NOV-2024
Calibration Time: 11:48
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	300803	180482	421124	278305	-7.48
126 1,4-Difluorobenze	1130282	678169	1582395	1027505	-9.09
165 Chlorobenzene-d5	1024524	614714	1434334	963054	-6.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.44	0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 09:02

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 07NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-05A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 6.5 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	21.991	87.97	70-130
$ 152 Toluene-d8	25.000	25.612	102.45	70-130
$ 191 4-Bromofluorobenz	25.000	23.524	94.10	70-130

Data File: /chem/msda.i/07NOV24.b/a110724.d

Page 1

Date : 08-NOV-2024 04:20

Client ID:

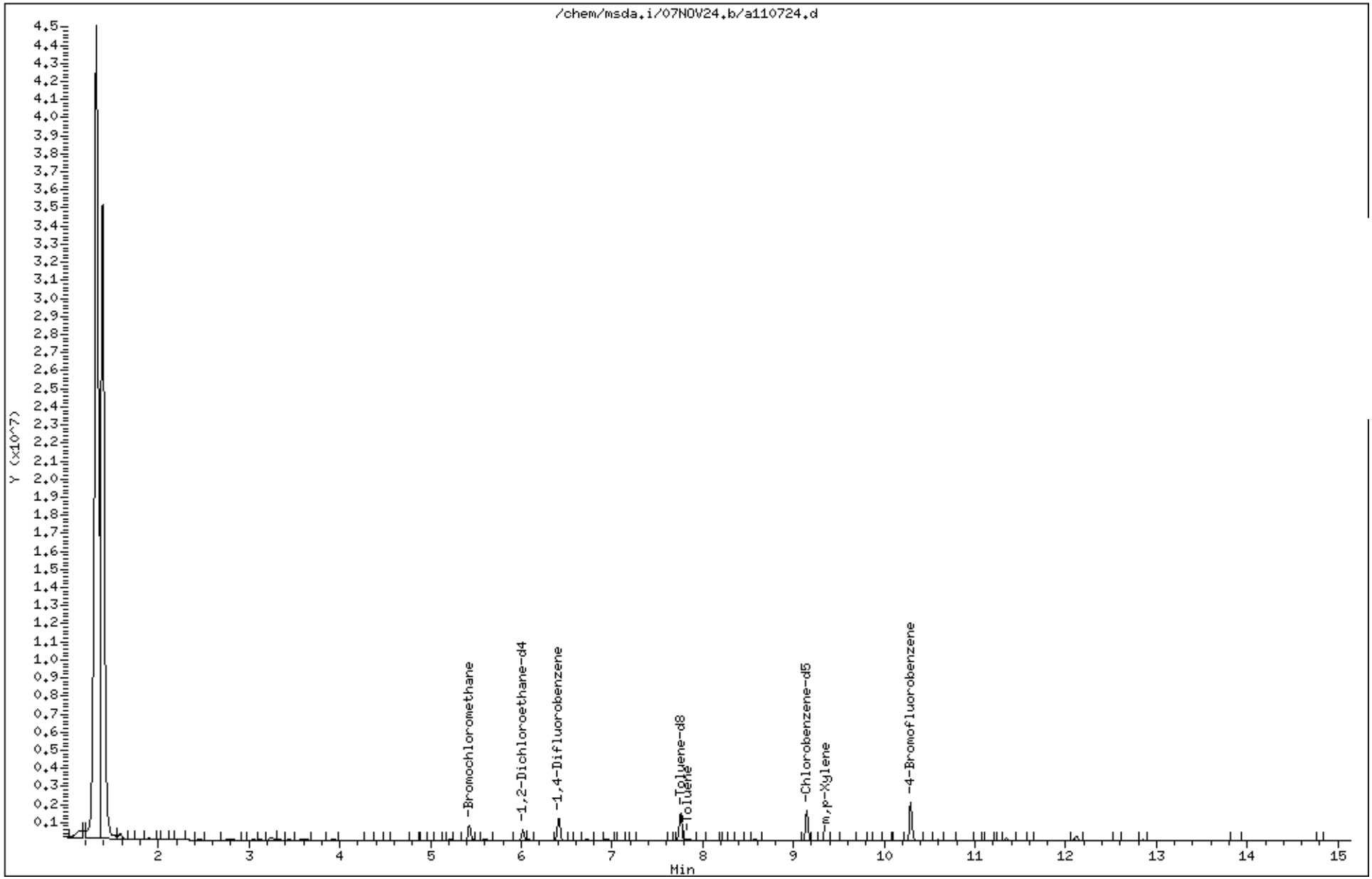
Instrument: msda.i

Sample Info: 200mL N6404

Operator: DF

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msda.i/07NOV24.b/a110724.d

Date : 08-NOV-2024 04:20

Client ID:

Instrument: msda.i

Sample Info: 200mL N6404

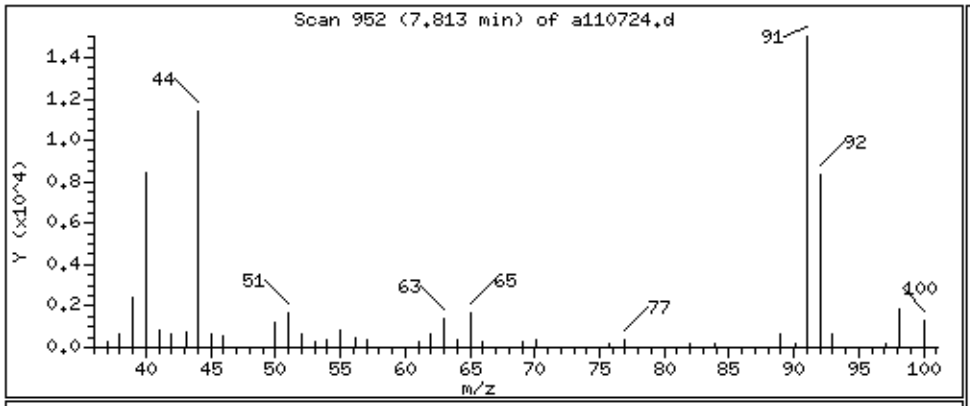
Operator: DF

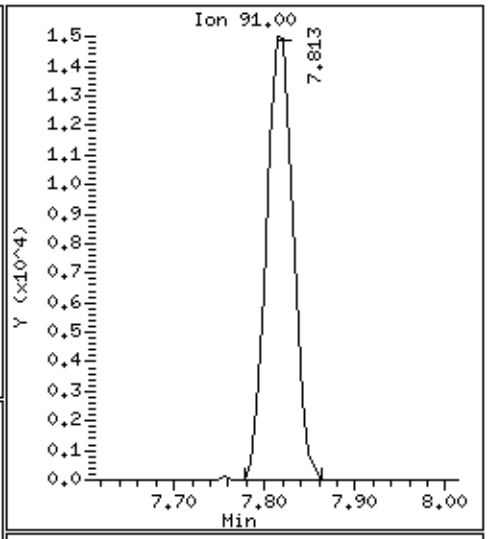
Column phase: RTX-624

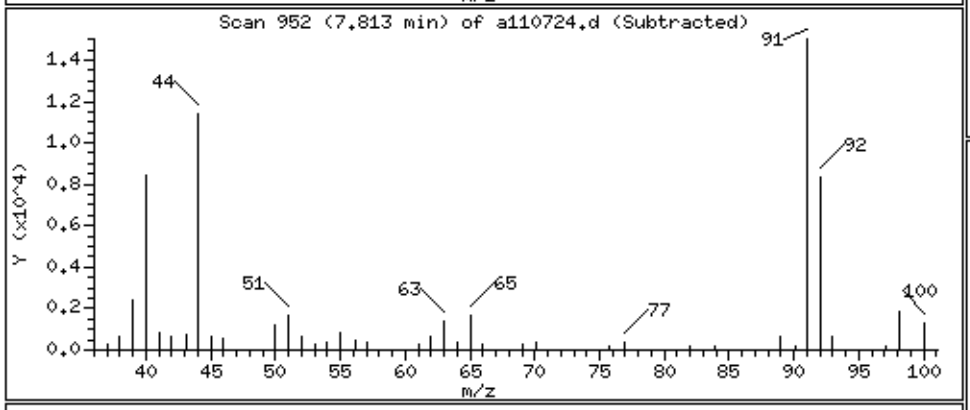
Column diameter: 0.25

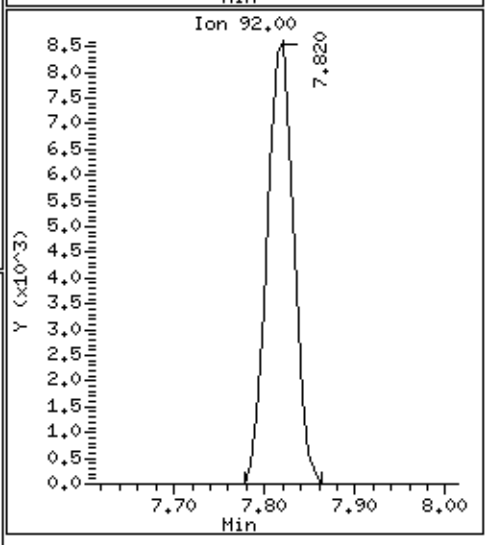
153 Toluene

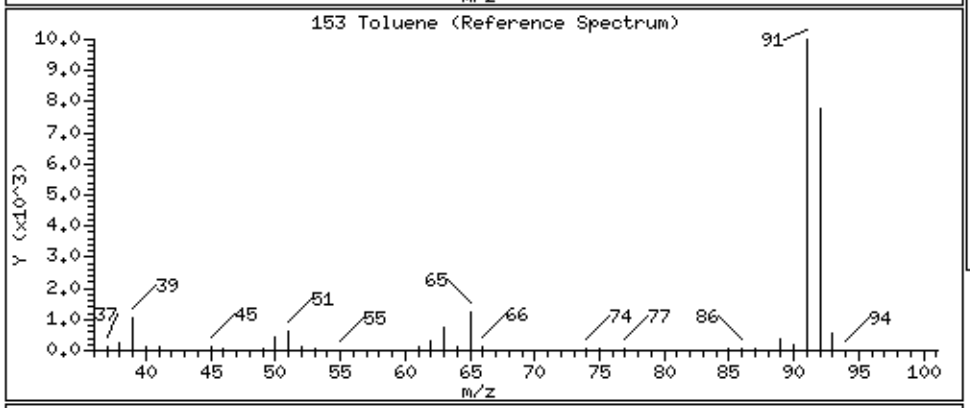
Concentration: 1.425 PPBV

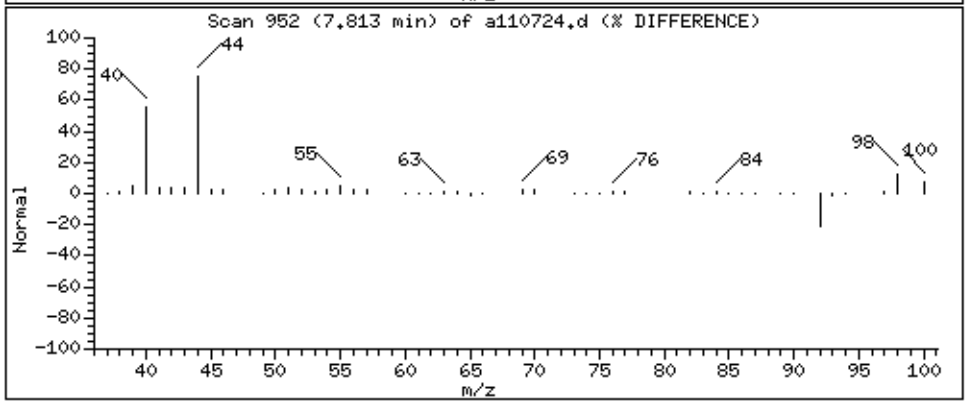












Data File: /chem/msda.i/07NOV24.b/a110724.d

Date : 08-NOV-2024 04:20

Client ID:

Instrument: msda.i

Sample Info: 200mL N6404

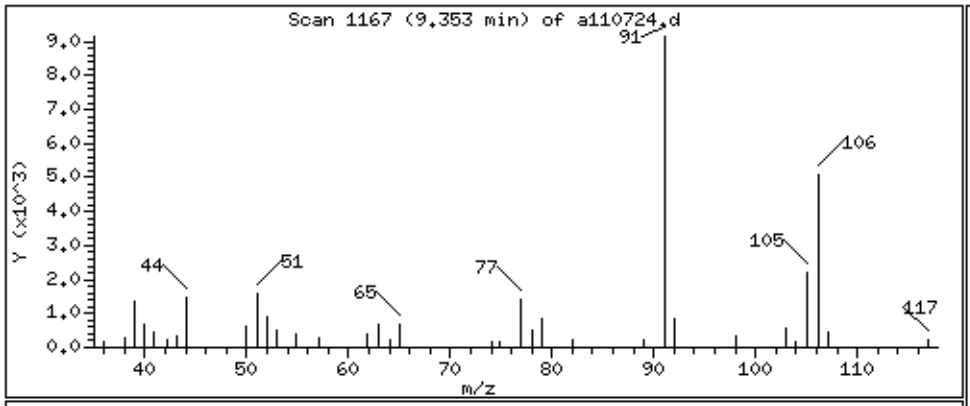
Operator: DF

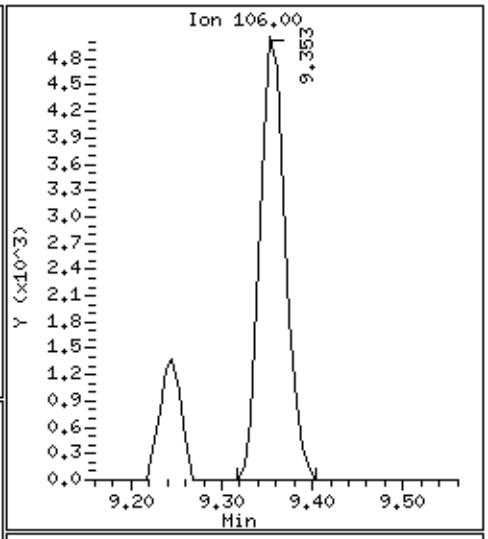
Column phase: RTX-624

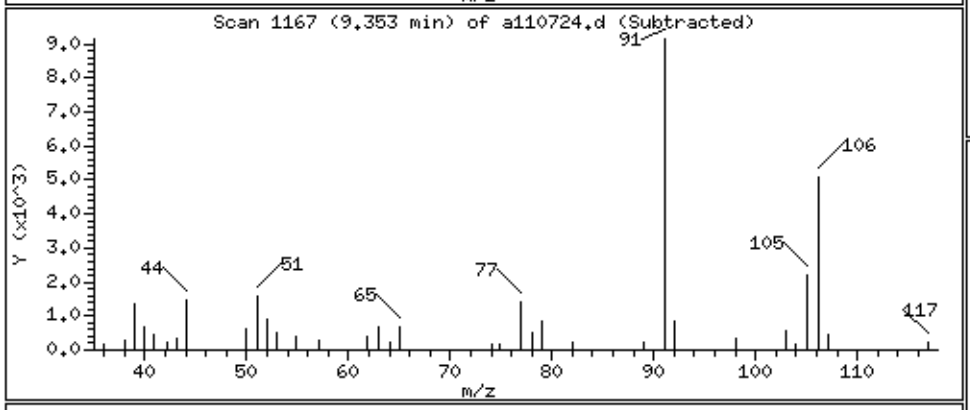
Column diameter: 0.25

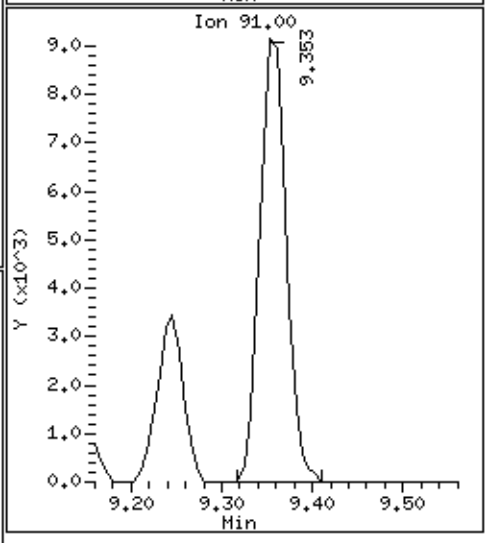
173 m,p-Xylene

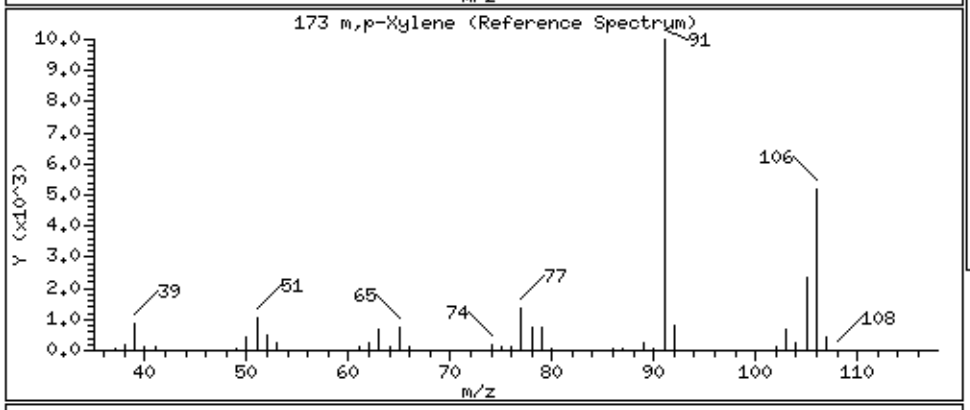
Concentration: 0.8492 PPBV

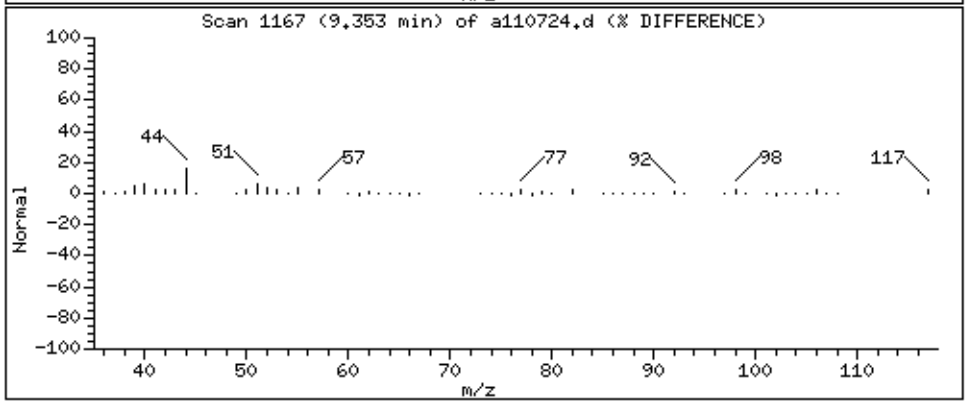












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Client ID:	T1AMF-SV003_OCT24		
Lab ID:	2410702A-06A	**Date/Time Analyzed:**	11/8/24 07:05 AM
Date/Time Collected:	10/23/24 01:03 PM	**Dilution Factor:**	2.24
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110727

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.1	4.0	4.4	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.3	6.1	6.7	Not Detected U
Benzene	71-43-2	0.62	3.2	3.6	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.3	4.0	4.4	Not Detected U
Ethyl Benzene	100-41-4	1.8	4.4	4.9	Not Detected U
m,p-Xylene	108-38-3	1.7	4.4	9.7	Not Detected U
o-Xylene	95-47-6	1.7	4.4	4.9	Not Detected U
Toluene	108-88-3	0.93	3.8	8.4	Not Detected U
trans-1,2-Dichloroethene	156-60-5	1.7	4.0	4.4	Not Detected U
Trichloroethene	79-01-6	0.88	5.4	6.0	Not Detected U
Vinyl Chloride	75-01-4	1.3	2.6	2.9	Not Detected U

U = The analyte was not detected above the MDL.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	88
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/07NOV24.b/a110727.d
Lab Smp Id: 2410702A-06A Client Smp ID: 2410702-06A
Inj Date : 08-NOV-2024 07:05
Operator : AB Inst ID: msda.i
Smp Info : 200mL N6138
Misc Info : 7.6 Hg->9.9 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/07NOV24.b/a24q0910a.m
Meth Date : 11-Nov-2024 14:42 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 10
Dil Factor: 2.24000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	275295	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	216924			46.45- 106.45	78.80
5.428	5.428 (1.000)	49	552255			167.12- 227.12	200.60
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	1014866	25.0000		80.00- 120.00	100.00
6.416	6.409 (1.000)	88	159810			0.00- 46.36	15.75
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.145	9.146 (1.000)	117	959121	25.0000		80.00- 120.00	100.00
9.145	9.146 (1.000)	82	544584			27.12- 87.12	56.78
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	423070	22.0901	22.090	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	216436			23.36- 83.36	51.16
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	1067531	25.2288	25.229	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	124451			0.00- 41.92	11.66

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	727416			39.07- 99.07	68.14
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	587531	22.9713	22.971	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	724271			89.27- 149.27	123.27
10.292	10.292 (1.125)	176	569821			66.29- 126.29	96.99

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110727.d
Lab Smp Id: 2410702A-06A
Analysis Type: VOA
Quant Type: ISTD
Operator: AB
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 7.6 Hg->9.9 psi

Calibration Date: 07-NOV-2024
Calibration Time: 11:48
Client Smp ID: 2410702-06A
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	300803	180482	421124	275295	-8.48
126 1,4-Difluorobenze	1130282	678169	1582395	1014866	-10.21
165 Chlorobenzene-d5	1024524	614714	1434334	959121	-6.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	-0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 09:03

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 08NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-06A Client Smp ID: 2410702-06A
Level: LOW Operator: AB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 7.6 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.090	88.36	70-130
$ 152 Toluene-d8	25.000	25.229	100.92	70-130
$ 191 4-Bromofluorobenz	25.000	22.971	91.89	70-130

Data File: /chem/msda.i/07NOV24.b/a110727.d

Page 1

Date : 08-NOV-2024 07:05

Client ID: 2410702-06A

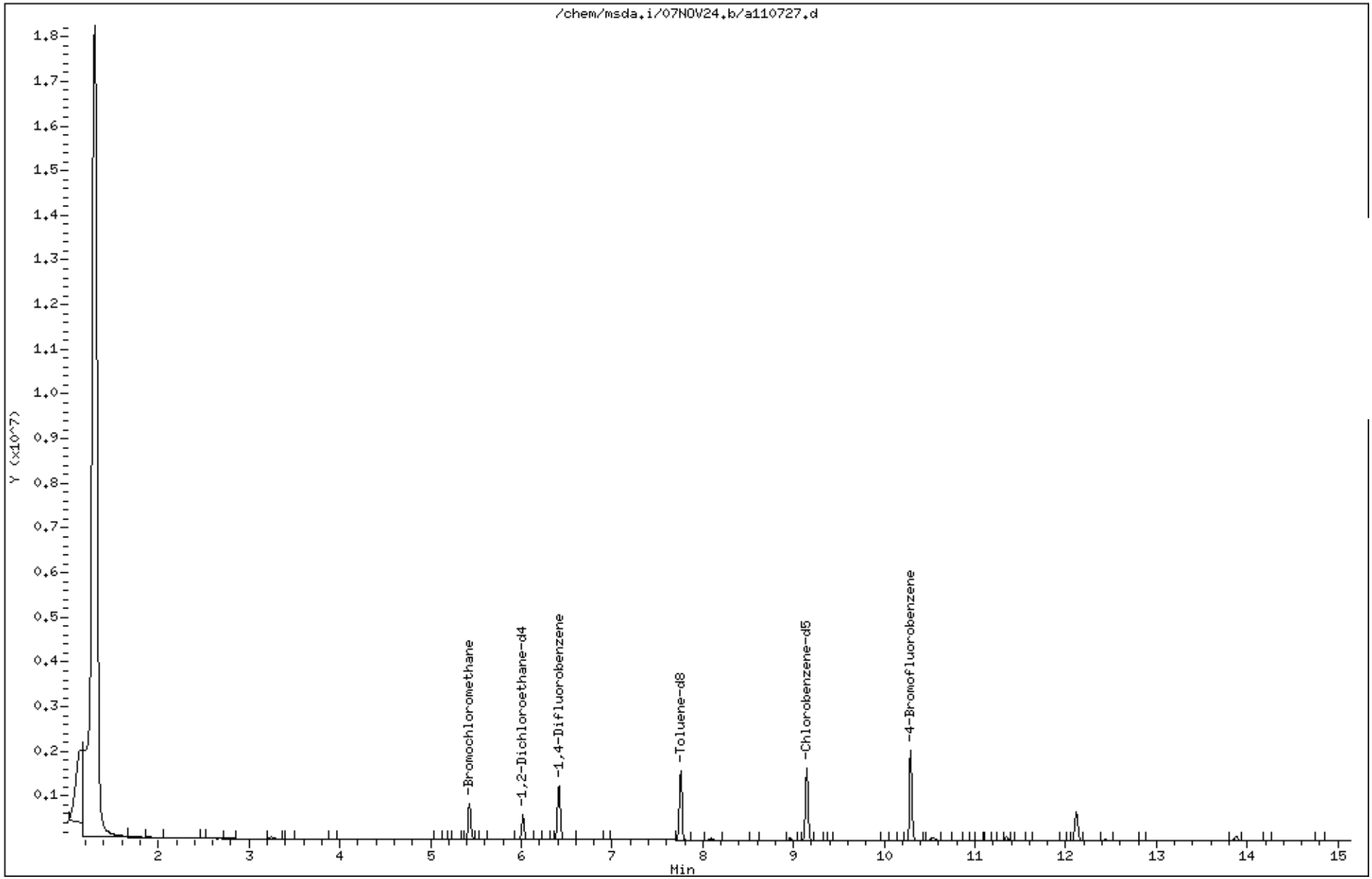
Instrument: msda.i

Sample Info: 200mL N6138

Operator: AB

Column phase: RTX-624

Column diameter: 0.25



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Client ID:	T1AMF-SV017B_OCT24		
Lab ID:	2410702A-07A	**Date/Time Analyzed:**	11/8/24 07:41 AM
Date/Time Collected:	10/23/24 02:05 PM	**Dilution Factor:**	2.10
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110728

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.0	3.7	4.2	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.2	5.7	6.3	Not Detected U
Benzene	71-43-2	0.58	3.0	3.4	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.3	3.7	4.2	Not Detected U
Ethyl Benzene	100-41-4	1.7	4.1	4.6	Not Detected U
m,p-Xylene	108-38-3	1.6	4.1	9.1	Not Detected U
o-Xylene	95-47-6	1.6	4.1	4.6	Not Detected U
Toluene	108-88-3	0.87	3.6	7.9	Not Detected U
trans-1,2-Dichloroethene	156-60-5	1.6	3.7	4.2	Not Detected U
Trichloroethene	79-01-6	0.83	5.1	5.6	Not Detected U
Vinyl Chloride	75-01-4	1.2	2.4	2.7	Not Detected U

U = The analyte was not detected above the MDL.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	87
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	103

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/07NOV24.b/a110728.d
Lab Smp Id: 2410702A-07A Client Smp ID: 2410702-07A
Inj Date : 08-NOV-2024 07:41
Operator : AB Inst ID: msda.i
Smp Info : 200mL 1L1635
Misc Info : 6.1 Hg->9.9 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/07NOV24.b/a24q0910a.m
Meth Date : 11-Nov-2024 14:42 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 11
Dil Factor: 2.10000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	279966	25.0000		80.00- 120.00	100.00
5.435	5.428 (1.000)	128	216040			46.45- 106.45	77.17
5.428	5.428 (1.000)	49	556395			167.12- 227.12	198.74
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	1002814	25.0000		80.00- 120.00	100.00
6.416	6.409 (1.000)	88	164738			0.00- 46.36	16.43
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	965393	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	535924			27.12- 87.12	55.51
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	424292	21.7843	21.784	80.00- 120.00	100.00
6.022	6.015 (1.110)	67	210396			23.36- 83.36	49.59
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	1076723	25.7518	25.752	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	126722			0.00- 41.92	11.77

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	730033			39.07- 99.07	67.80
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	593677	23.0608	23.061	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	723551			89.27- 149.27	121.88
10.292	10.292 (1.125)	176	573287			66.29- 126.29	96.57

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110728.d
Lab Smp Id: 2410702A-07A
Analysis Type: VOA
Quant Type: ISTD
Operator: AB
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 6.1 Hg->9.9 psi

Calibration Date: 07-NOV-2024
Calibration Time: 11:48
Client Smp ID: 2410702-07A
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	300803	180482	421124	279966	-6.93
126 1,4-Difluorobenze	1130282	678169	1582395	1002814	-11.28
165 Chlorobenzene-d5	1024524	614714	1434334	965393	-5.77

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	-0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 09:03

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 08NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-07A Client Smp ID: 2410702-07A
Level: LOW Operator: AB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 6.1 Hg->9.9 psi

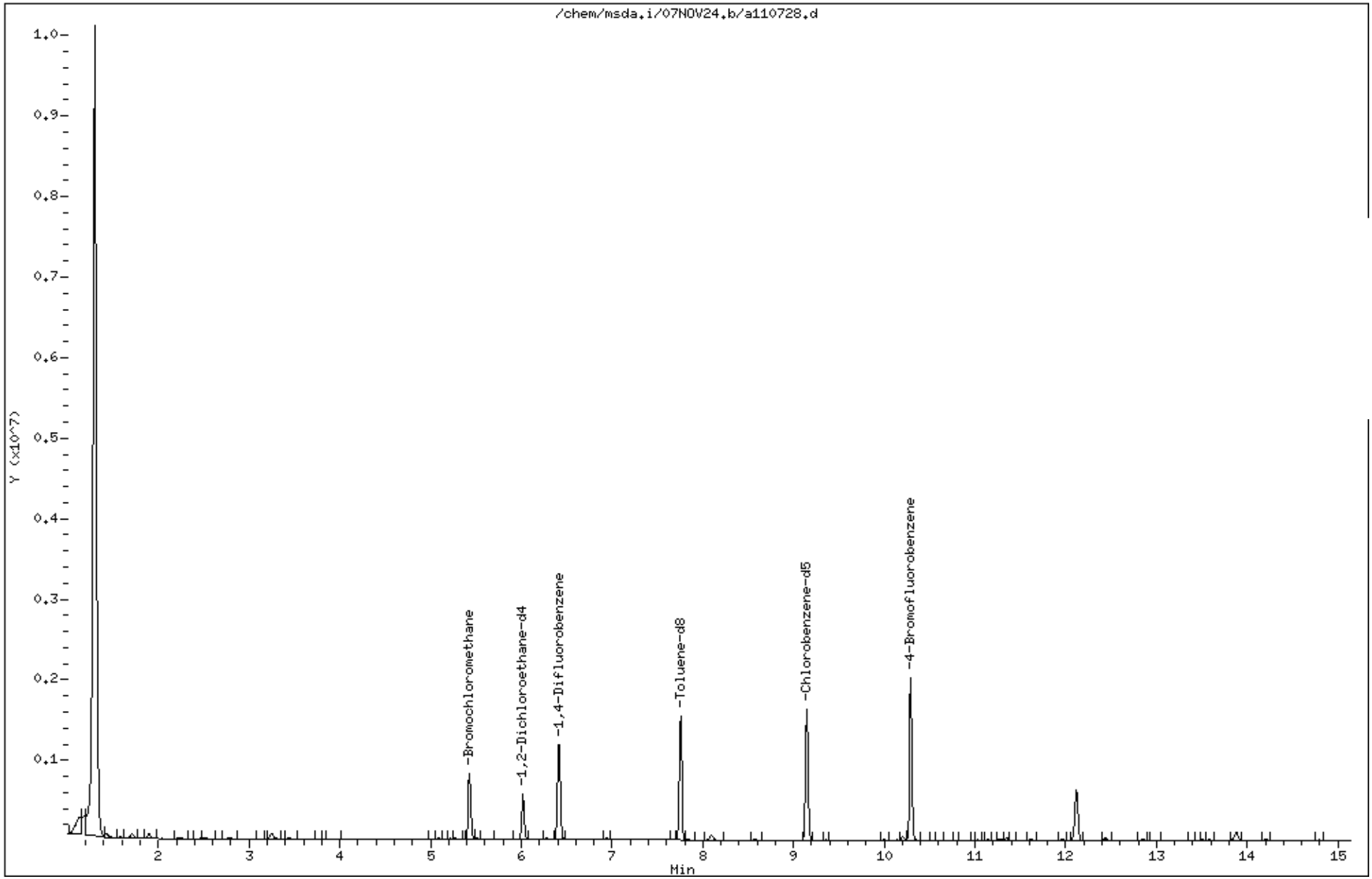
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	21.784	87.14	70-130
$ 152 Toluene-d8	25.000	25.752	103.01	70-130
$ 191 4-Bromofluorobenz	25.000	23.061	92.24	70-130

Data File: /chem/msda.i/07NOV24.b/a110728.d
Date : 08-NOV-2024 07:41
Client ID: 2410702-07A
Sample Info: 200mL 1L1635

Instrument: msda.i

Operator: AB
Column diameter: 0.25

Column phase: RTX-624



eurofins | Air Toxics

Client ID:	T1AMF-SV031_OCT24		
Lab ID:	2410702A-08A	**Date/Time Analyzed:**	11/8/24 06:37 PM
Date/Time Collected:	10/23/24 03:23 PM	**Dilution Factor:**	24.8
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110812

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	12	44	49	Not Detected U
1,4-Dichlorobenzene	106-46-7	26	67	74	Not Detected U
Benzene	71-43-2	6.9	36	40	Not Detected U
cis-1,2-Dichloroethene	156-59-2	15	44	49	Not Detected U
Ethyl Benzene	100-41-4	20	48	54	Not Detected U
m,p-Xylene	108-38-3	19	48	110	Not Detected U
o-Xylene	95-47-6	19	48	54	Not Detected U
Toluene	108-88-3	10	42	93	12 J
trans-1,2-Dichloroethene	156-60-5	19	44	49	Not Detected U
Trichloroethene	79-01-6	9.8	60	67	Not Detected U
Vinyl Chloride	75-01-4	15	28	32	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	88
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/08NOV24.b/a110812.d
Lab Smp Id: 2410702A-08A
Inj Date : 08-NOV-2024 18:37
Operator : DF Inst ID: msda.i
Smp Info : 20mL 1L4756
Misc Info : 9.8 Hg->9.8 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/08NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:27 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 5
Dil Factor: 24.80000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.421 (1.000)	130	283030	25.0000		80.00- 120.00	100.00
5.428	5.421 (1.000)	128	219756			46.45- 106.45	77.64
5.428	5.421 (1.000)	49	565411			167.12- 227.12	199.77
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.402 (1.000)	114	1018622	25.0000		80.00- 120.00	100.00
6.409	6.402 (1.000)	88	163437			0.00- 46.36	16.04
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.145 (1.000)	117	947576	25.0000		80.00- 120.00	100.00
9.146	9.145 (1.000)	82	523912			27.12- 87.12	55.29
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.008 (1.108)	65	434123	22.0477	22.048	80.00- 120.00	100.00
6.015	6.008 (1.108)	67	215023			23.36- 83.36	49.53
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.749 (1.210)	98	1075635	25.3266	25.326	80.00- 120.00	100.00
7.756	7.749 (1.210)	70	122400			0.00- 41.92	11.38

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.749 (1.210)	100	718538			39.07- 99.07	66.80
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	578109	22.8783	22.878	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	706611			89.27- 149.27	122.23
10.292	10.292 (1.125)	176	567820			66.29- 126.29	98.22
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.219)	91	5918	0.12765	3.166	80.00- 120.00	100.00(a)
7.813	7.813 (1.219)	92	3692			27.69- 87.69	62.39

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110812.d
Lab Smp Id: 2410702A-08A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 9.8 Hg->9.8 psi

Calibration Date: 08-NOV-2024
Calibration Time: 12:27
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	291309	174785	407833	283030	-2.84
126 1,4-Difluorobenze	982121	589273	1374969	1018622	3.72
165 Chlorobenzene-d5	925746	555448	1296044	947576	2.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.42	5.09	5.75	5.43	0.13
126 1,4-Difluorobenze	6.40	6.07	6.73	6.41	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 09:31

US32TAR1

RECOVERY REPORT

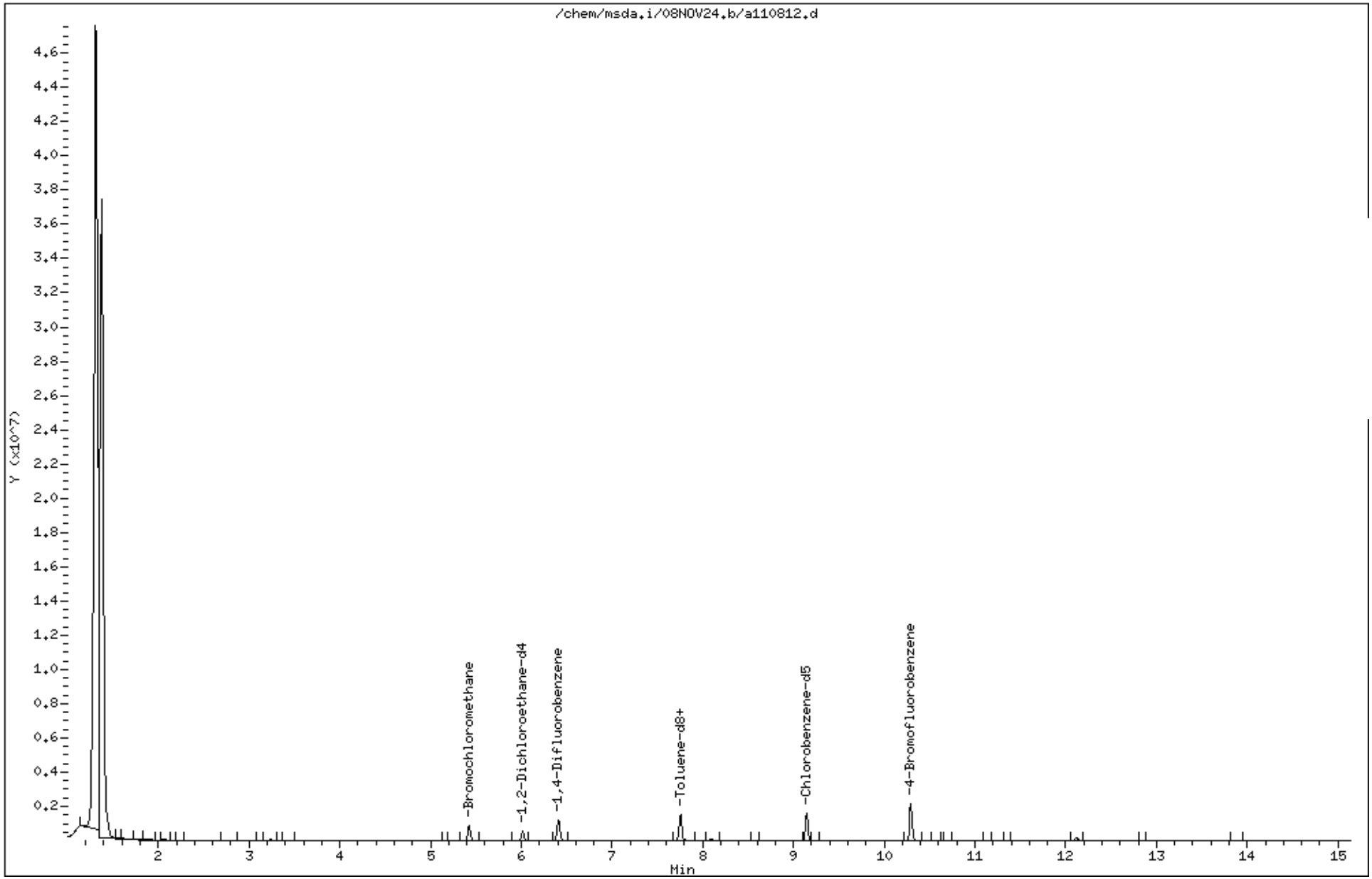
Client Name: Client SDG: 08NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-08A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 9.8 Hg->9.8 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.048	88.19	70-130
$ 152 Toluene-d8	25.000	25.326	101.31	70-130
$ 191 4-Bromofluorobenz	25.000	22.878	91.51	70-130

Data File: /chem/msda.i/08NOV24.b/a110812.d
Date : 08-NOV-2024 18:37
Client ID:
Sample Info: 20mL 1L4756

Instrument: msda.i
Operator: DF
Column diameter: 0.25

Column phase: RTX-624



Data File: /chem/msda.i/08NOV24.b/a110812.d

Date : 08-NOV-2024 18:37

Client ID:

Instrument: msda.i

Sample Info: 20mL 1L4756

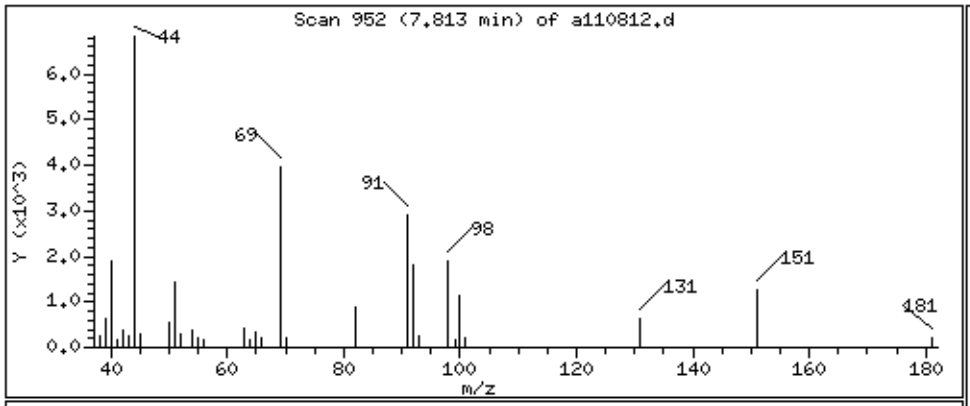
Operator: DF

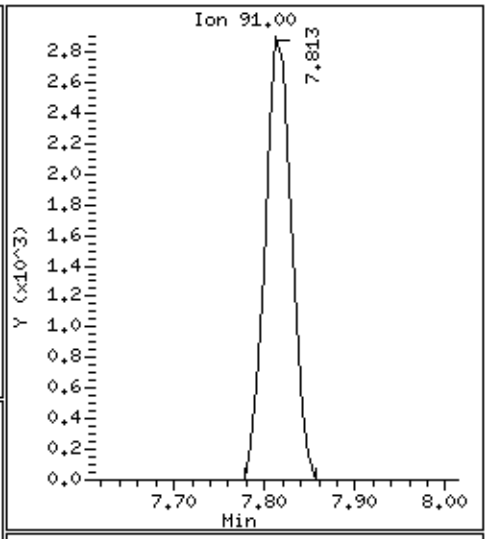
Column phase: RTX-624

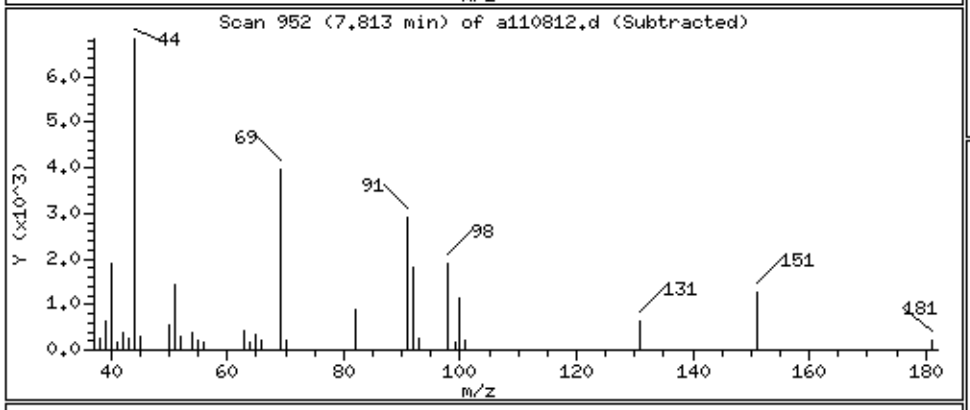
Column diameter: 0.25

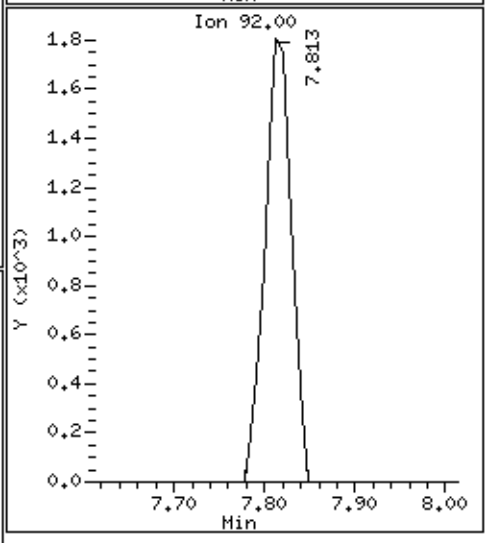
153 Toluene

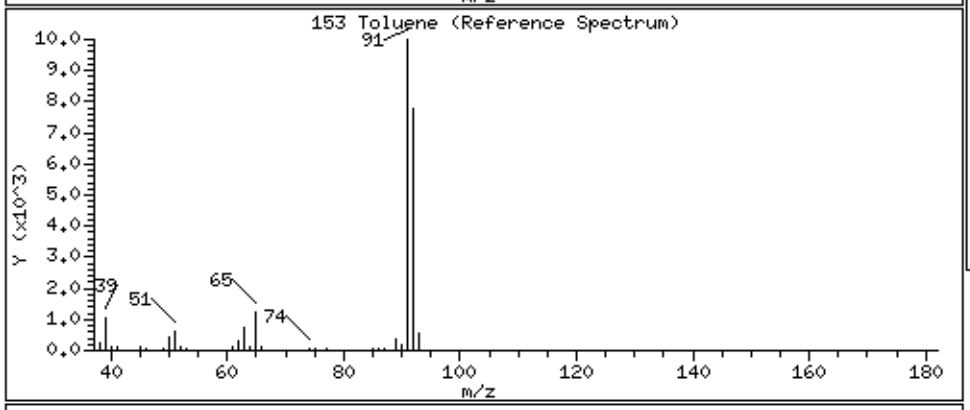
Concentration: 3.166 PPBV

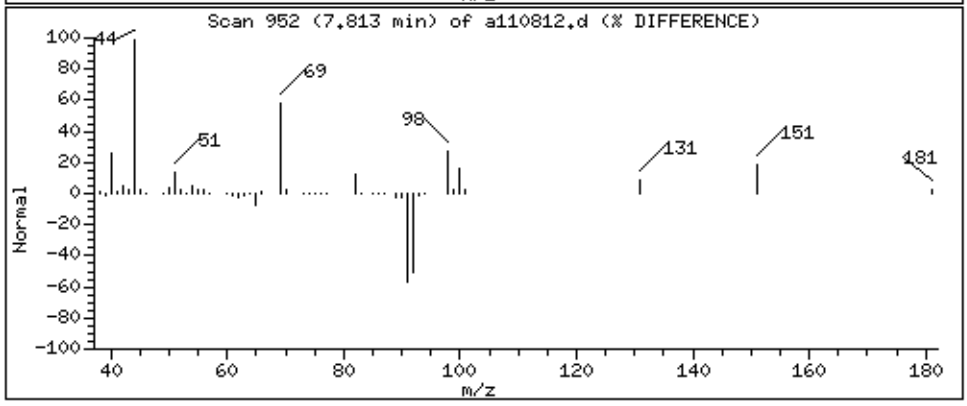












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Client ID:	T1AMF-SV032a_OCT24		
Lab ID:	2410702A-09A	**Date/Time Analyzed:**	11/8/24 07:12 PM
Date/Time Collected:	10/24/24 08:52 AM	**Dilution Factor:**	3.55
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110813

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.7	6.3	7.0	Not Detected U
1,4-Dichlorobenzene	106-46-7	3.7	9.6	11	Not Detected U
Benzene	71-43-2	0.99	5.1	5.7	1.4 J
cis-1,2-Dichloroethene	156-59-2	2.1	6.3	7.0	Not Detected U
Ethyl Benzene	100-41-4	2.9	6.9	7.7	Not Detected U
m,p-Xylene	108-38-3	2.8	6.9	15	Not Detected U
o-Xylene	95-47-6	2.7	6.9	7.7	Not Detected U
Toluene	108-88-3	1.5	6.0	13	3.6 J
trans-1,2-Dichloroethene	156-60-5	2.7	6.3	7.0	Not Detected U
Trichloroethene	79-01-6	1.4	8.6	9.5	3500
Vinyl Chloride	75-01-4	2.1	4.1	4.5	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	89
4-Bromofluorobenzene	460-00-4	70-130	90
Toluene-d8	2037-26-5	70-130	103

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/08NOV24.b/a110813.d
Lab Smp Id: 2410702A-09A
Inj Date : 08-NOV-2024 19:12
Operator : DF Inst ID: msda.i
Smp Info : 115mL N6178
Misc Info : 5.3 Hg->10 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/08NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:27 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 6
Dil Factor: 3.55000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.421 (1.000)	130	270946	25.0000		80.00- 120.00	100.00
5.428	5.421 (1.000)	128	209754			46.45- 106.45	77.42
5.428	5.421 (1.000)	49	549142			167.12- 227.12	202.68
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.402 (1.000)	114	984213	25.0000		80.00- 120.00	100.00
6.409	6.402 (1.000)	88	164073			0.00- 46.36	16.67
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.145 (1.000)	117	926256	25.0000		80.00- 120.00	100.00
9.146	9.145 (1.000)	82	523484			27.12- 87.12	56.52
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.008 (1.108)	65	420357	22.3007	22.301	80.00- 120.00	100.00
6.015	6.008 (1.108)	67	207186			23.36- 83.36	49.29
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.749 (1.210)	98	1060693	25.8479	25.848	80.00- 120.00	100.00
7.756	7.749 (1.210)	70	122311			0.00- 41.92	11.53

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.749 (1.210)	100	713640			39.07- 99.07	67.28
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.124)	174	558237	22.6004	22.600	80.00- 120.00	100.00
10.292	10.292 (1.124)	95	691804			89.27- 149.27	123.93
10.292	10.292 (1.124)	176	542017			66.29- 126.29	97.09
118 Benzene					CAS #: 71-43-2		
5.987	5.979 (0.934)	78	4161	0.12203	0.4332	80.00- 120.00	100.00(a)
5.979	5.979 (0.933)	77	993			0.00- 53.99	23.86
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.610 (1.032)	95	3205970	184.408	654.65	80.00- 120.00	100.00
6.624	6.610 (1.034)	130	3131375			67.98- 127.98	97.67
6.617	6.610 (1.032)	97	2086100			34.45- 94.45	65.07
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.219)	91	11982	0.26750	0.9496	80.00- 120.00	100.00(a)
7.813	7.813 (1.219)	92	7129			27.69- 87.69	59.50

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110813.d
Lab Smp Id: 2410702A-09A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 5.3 Hg->10 psi

Calibration Date: 08-NOV-2024
Calibration Time: 12:27
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	291309	174785	407833	270946	-6.99
126 1,4-Difluorobenze	982121	589273	1374969	984213	0.21
165 Chlorobenzene-d5	925746	555448	1296044	926256	0.06

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.42	5.09	5.75	5.43	0.13
126 1,4-Difluorobenze	6.40	6.07	6.73	6.41	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 09:31

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 08NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-09A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 5.3 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.301	89.20	70-130
$ 152 Toluene-d8	25.000	25.848	103.39	70-130
$ 191 4-Bromofluorobenz	25.000	22.600	90.40	70-130

Data File: /chem/msda.i/08NOV24.b/a110813.d

Date : 08-NOV-2024 19:12

Client ID:

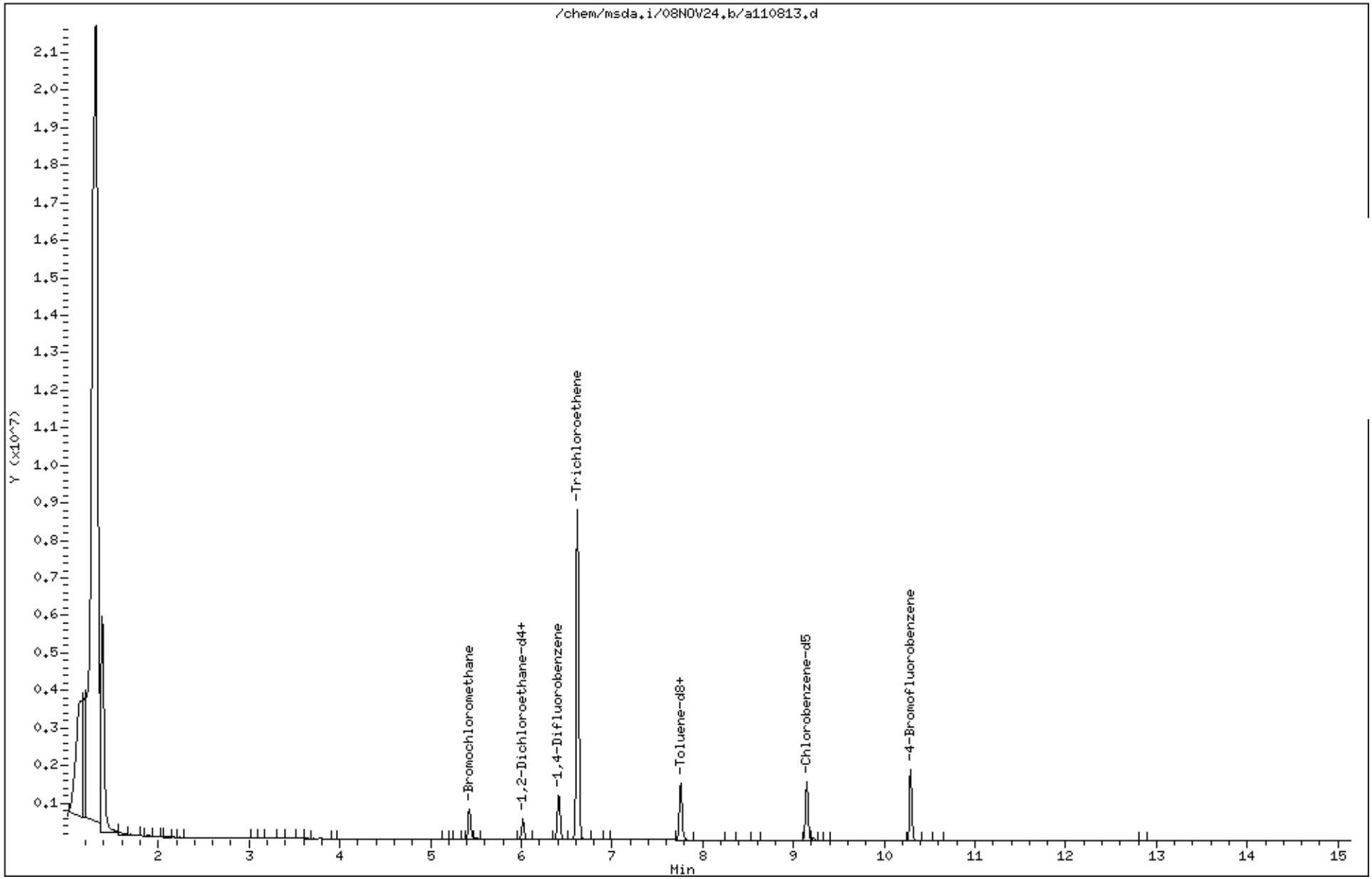
Sample Info: 115mL N6178

Column phase: RTX-624

Instrument: msda.i

Operator: DF

Column diameter: 0.25



Data File: /chem/msda.i/08NOV24.b/a110813.d

Date : 08-NOV-2024 19:12

Client ID:

Instrument: msda.i

Sample Info: 115mL N6178

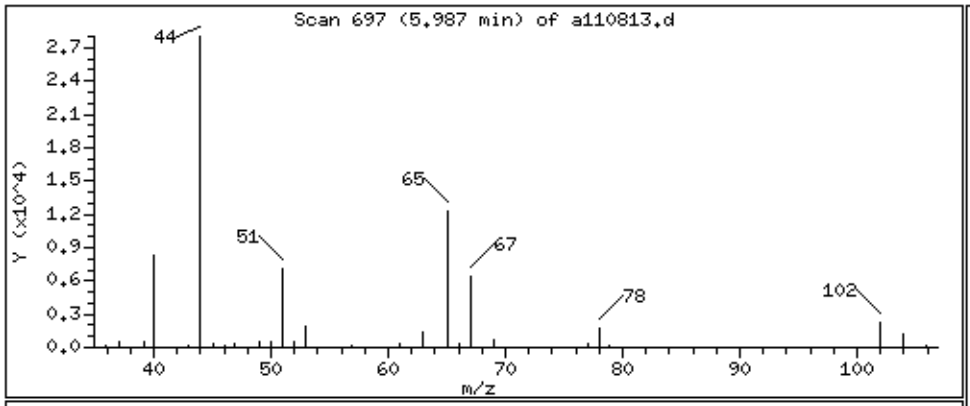
Operator: DF

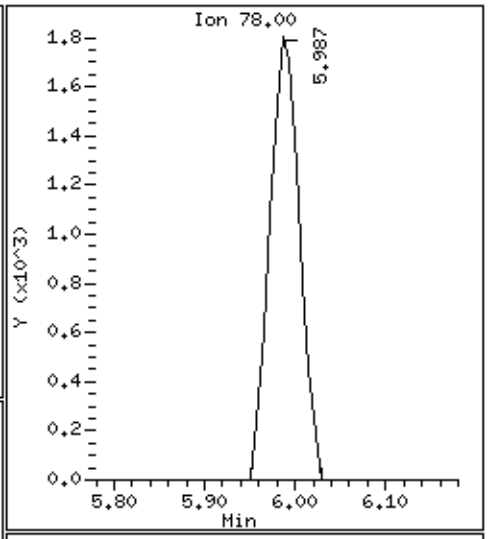
Column phase: RTX-624

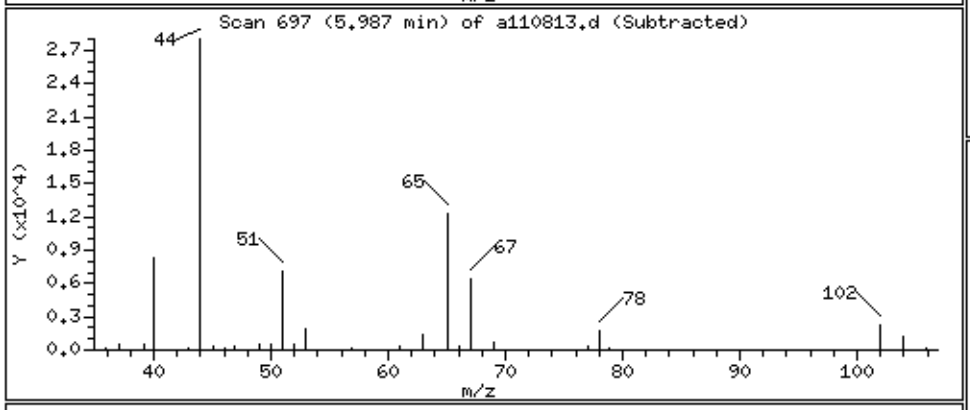
Column diameter: 0.25

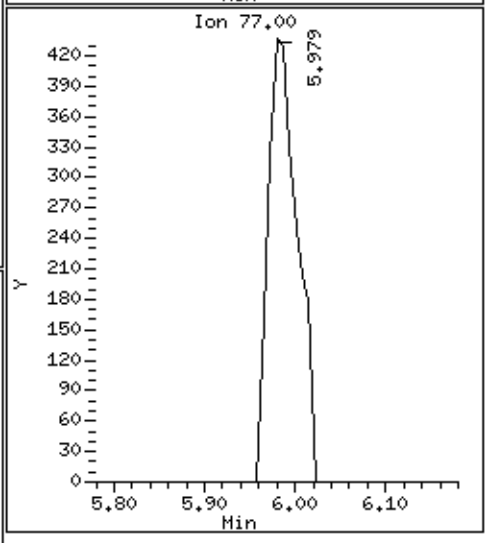
118 Benzene

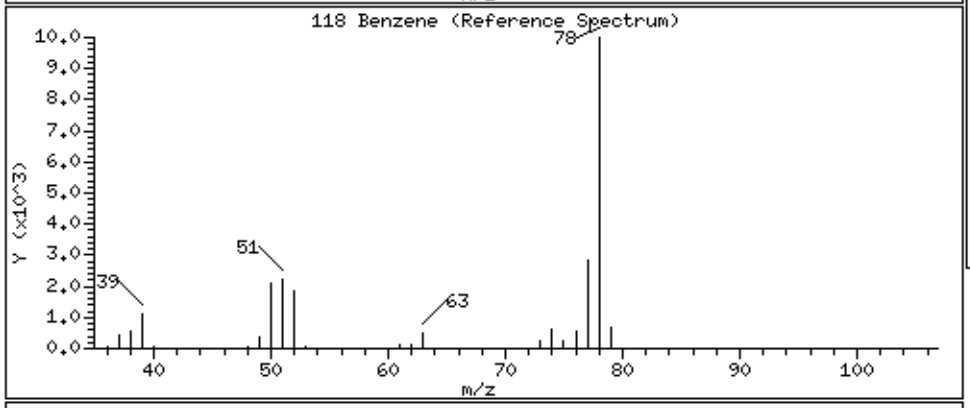
Concentration: 0.4332 PPBV

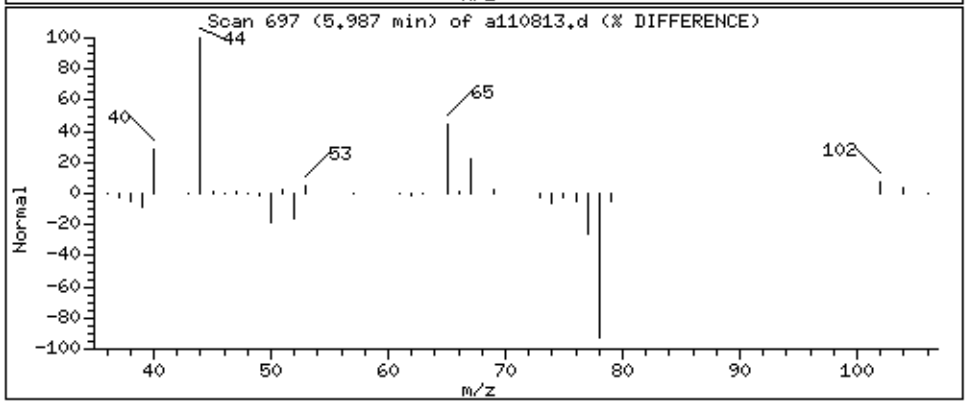












Data File: /chem/msda.i/08NOV24.b/a110813.d

Date : 08-NOV-2024 19:12

Client ID:

Instrument: msda.i

Sample Info: 115mL N6178

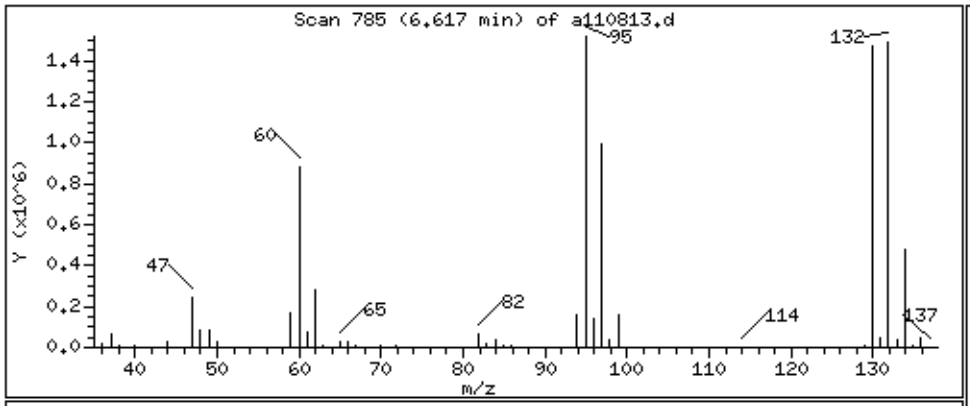
Operator: DF

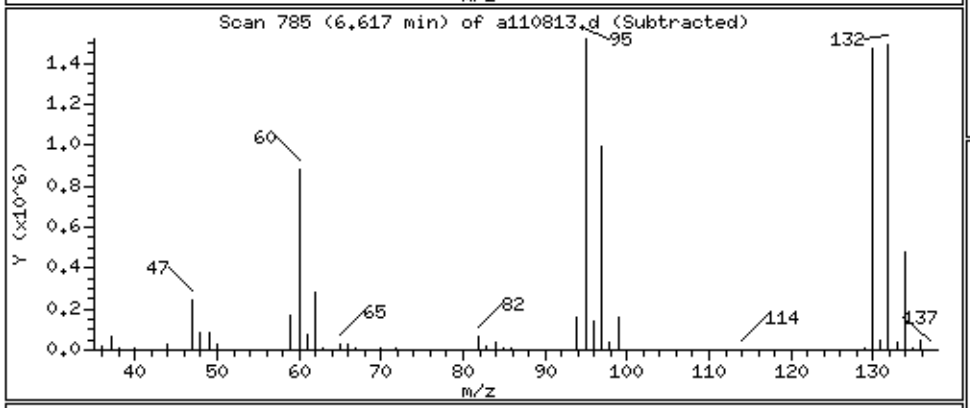
Column phase: RTX-624

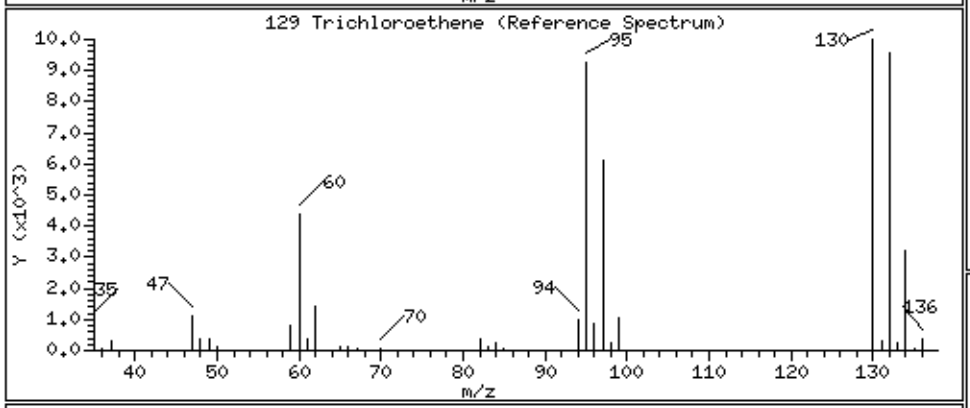
Column diameter: 0.25

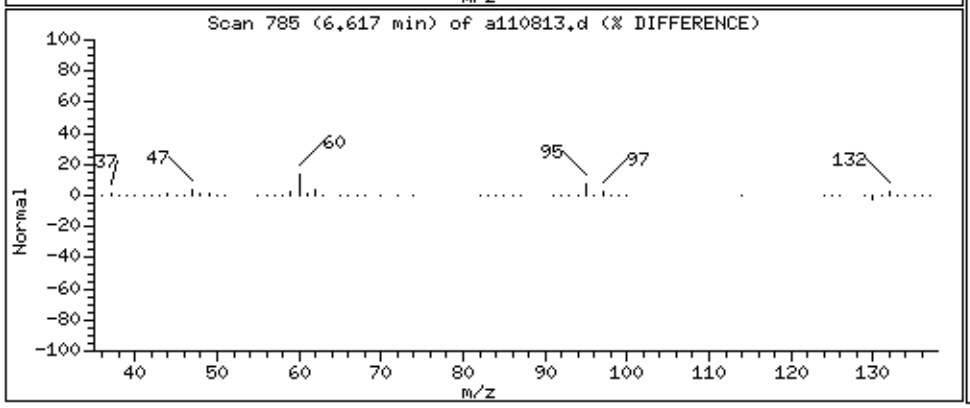
129 Trichloroethene

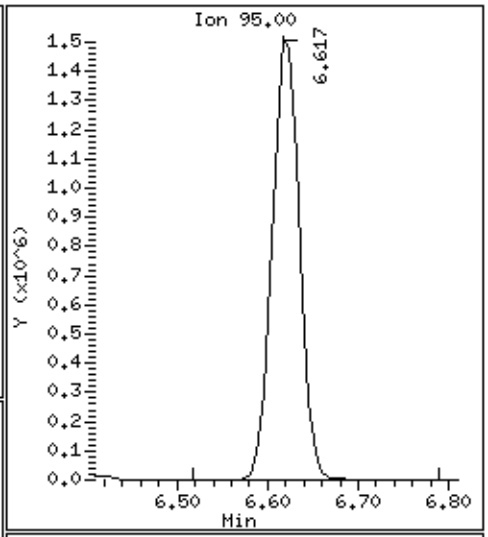
Concentration: 654.65 PPBV

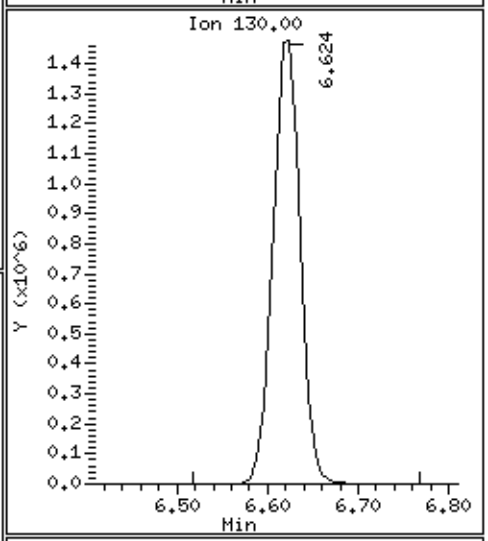


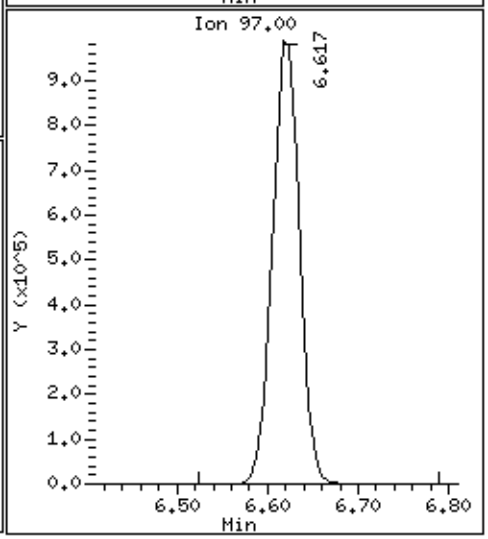












Data File: /chem/msda.i/08NOV24.b/a110813.d

Date : 08-NOV-2024 19:12

Client ID:

Instrument: msda.i

Sample Info: 115mL N6178

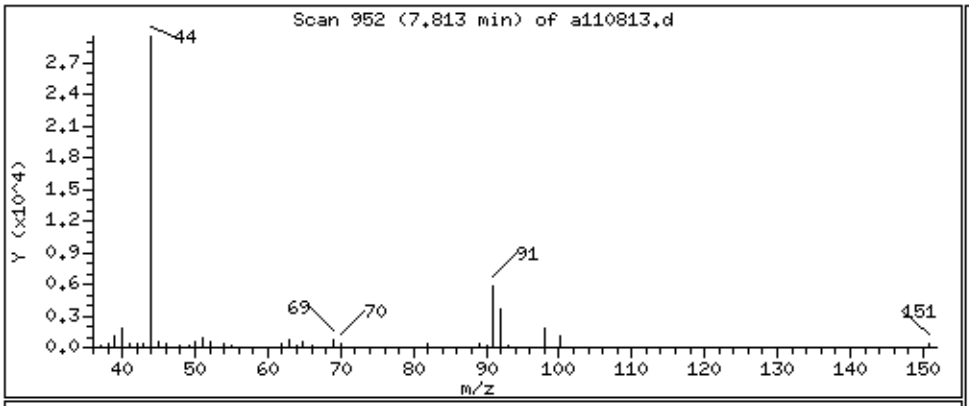
Operator: DF

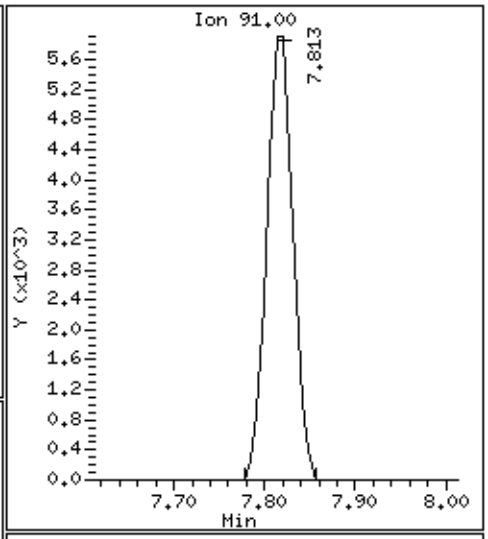
Column phase: RTX-624

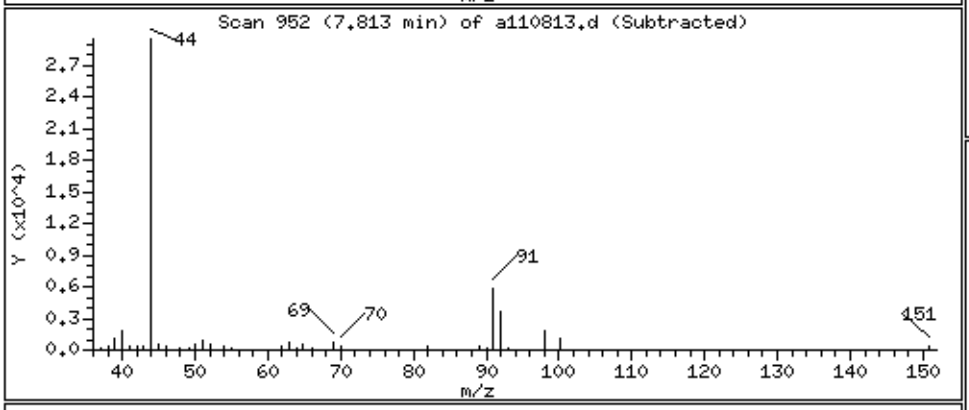
Column diameter: 0.25

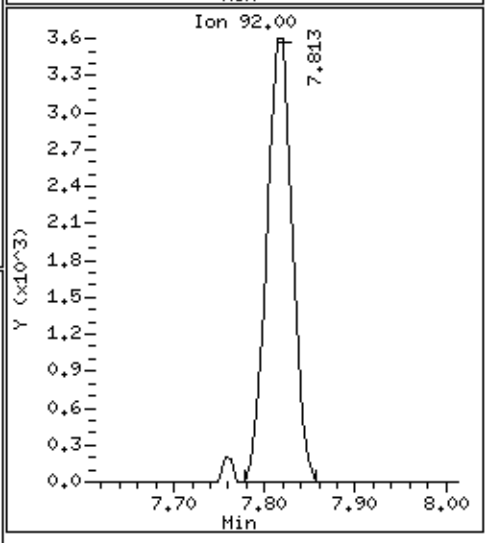
153 Toluene

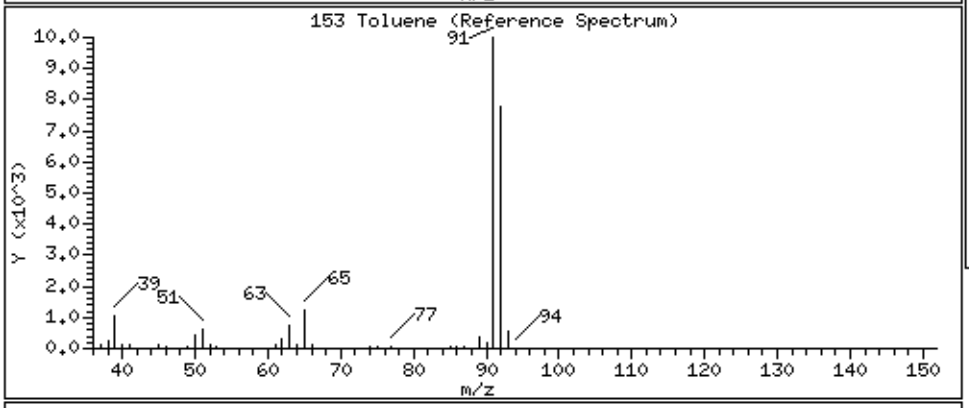
Concentration: 0.9496 PPBV

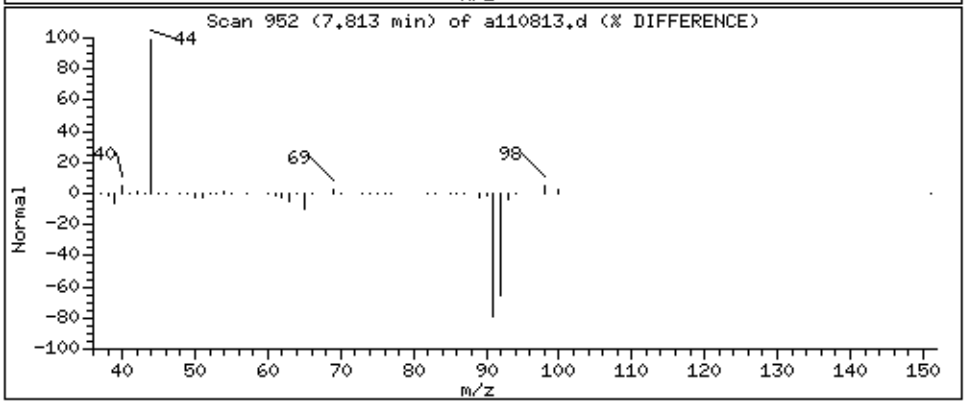












eurofins | Air Toxics

Client ID:	T1AMF-SV032b_OCT24		
Lab ID:	2410702A-10A	**Date/Time Analyzed:**	11/8/24 07:46 PM
Date/Time Collected:	10/24/24 09:56 AM	**Dilution Factor:**	11.4
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110814

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	5.6	20	23	Not Detected U
1,4-Dichlorobenzene	106-46-7	12	31	34	Not Detected U
Benzene	71-43-2	3.2	16	18	11 J
cis-1,2-Dichloroethene	156-59-2	6.9	20	22	Not Detected U
Ethyl Benzene	100-41-4	9.4	22	25	Not Detected U
m,p-Xylene	108-38-3	8.9	22	50	Not Detected U
o-Xylene	95-47-6	8.7	22	25	Not Detected U
Toluene	108-88-3	4.7	19	43	Not Detected U
trans-1,2-Dichloroethene	156-60-5	8.6	20	22	Not Detected U
Trichloroethene	79-01-6	4.5	28	31	Not Detected U
Vinyl Chloride	75-01-4	6.8	13	14	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	88
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	100

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/08NOV24.b/a110814.d
Lab Smp Id: 2410702A-10A
Inj Date : 08-NOV-2024 19:46
Operator : DF Inst ID: msda.i
Smp Info : 35mL N5455
Misc Info : 5.3 Hg->9.5 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/08NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:27 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 7
Dil Factor: 11.40000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.421 (1.000)	130	278312	25.0000		80.00- 120.00	100.00
5.428	5.421 (1.000)	128	215735			46.45- 106.45	77.52
5.428	5.421 (1.000)	49	560630			167.12- 227.12	201.44
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.402 (1.000)	114	1007178	25.0000		80.00- 120.00	100.00
6.409	6.402 (1.000)	88	160709			0.00- 46.36	15.96
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.145 (1.000)	117	944272	25.0000		80.00- 120.00	100.00
9.146	9.145 (1.000)	82	520701			27.12- 87.12	55.14
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.008 (1.108)	65	423690	21.8826	21.883	80.00- 120.00	100.00
6.015	6.008 (1.108)	67	213595			23.36- 83.36	50.41
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.749 (1.210)	98	1047381	24.9415	24.942	80.00- 120.00	100.00
7.756	7.749 (1.210)	70	121314			0.00- 41.92	11.58

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.749 (1.210)	100	703592			39.07- 99.07	67.18
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	579727	23.0226	23.023	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	701932			89.27- 149.27	121.08
10.292	10.292 (1.125)	176	559547			66.29- 126.29	96.52
118 Benzene					CAS #: 71-43-2		
5.987	5.979 (0.934)	78	10910	0.31265	3.564	80.00- 120.00	100.00(a)
5.987	5.979 (0.934)	77	2603			0.00- 53.99	23.86

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110814.d
Lab Smp Id: 2410702A-10A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 5.3 Hg->9.5 psi

Calibration Date: 08-NOV-2024
Calibration Time: 12:27
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	291309	174785	407833	278312	-4.46
126 1,4-Difluorobenze	982121	589273	1374969	1007178	2.55
165 Chlorobenzene-d5	925746	555448	1296044	944272	2.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.42	5.09	5.75	5.43	0.13
126 1,4-Difluorobenze	6.40	6.07	6.73	6.41	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 09:31

US32TAR1

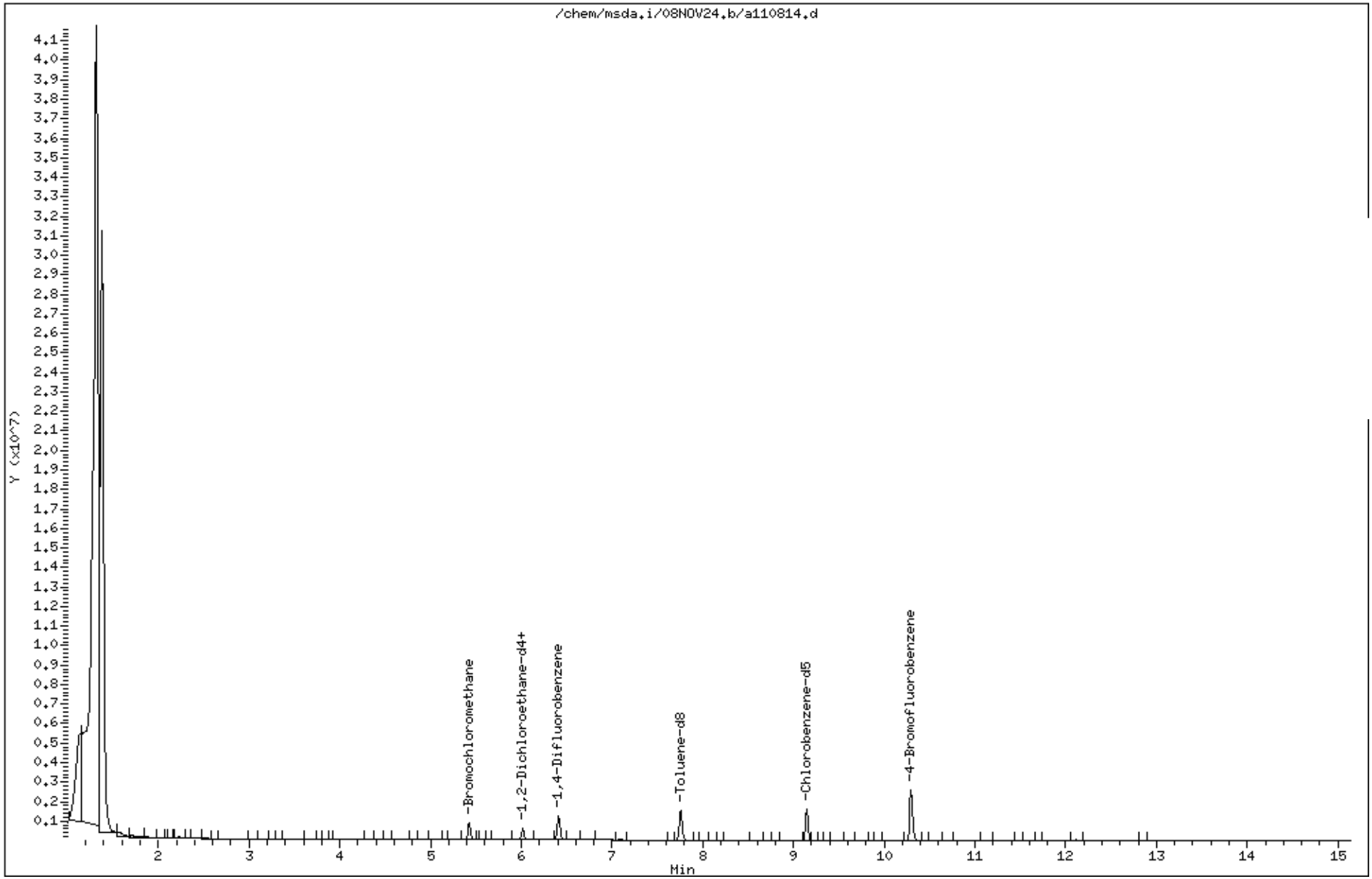
RECOVERY REPORT

Client Name: Client SDG: 08NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-10A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 5.3 Hg->9.5 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	21.883	87.53	70-130
$ 152 Toluene-d8	25.000	24.942	99.77	70-130
$ 191 4-Bromofluorobenz	25.000	23.023	92.09	70-130

Data File: /chem/msda.i/08NOV24.b/a110814.d
Date : 08-NOV-2024 19:46
Client ID:
Sample Info: 35mL N5455

Instrument: msda.i
Operator: DF
Column phase: RTX-624
Column diameter: 0.25



Data File: /chem/msda.i/08NOV24.b/a110814.d

Date : 08-NOV-2024 19:46

Client ID:

Instrument: msda.i

Sample Info: 35mL N5455

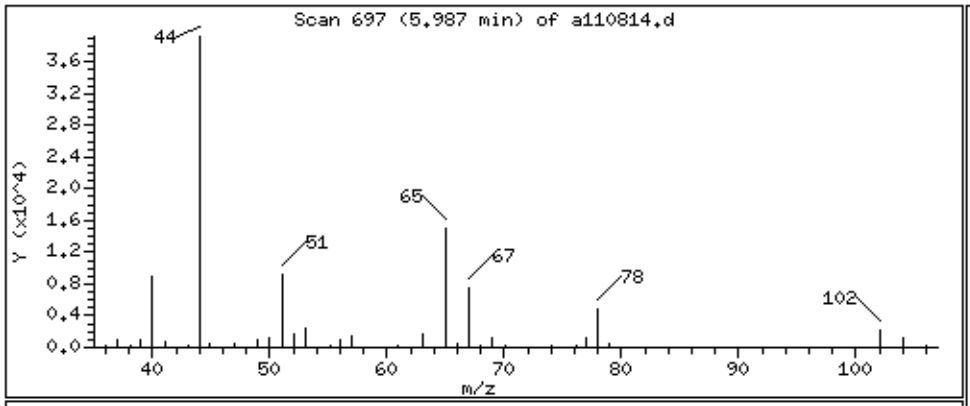
Operator: DF

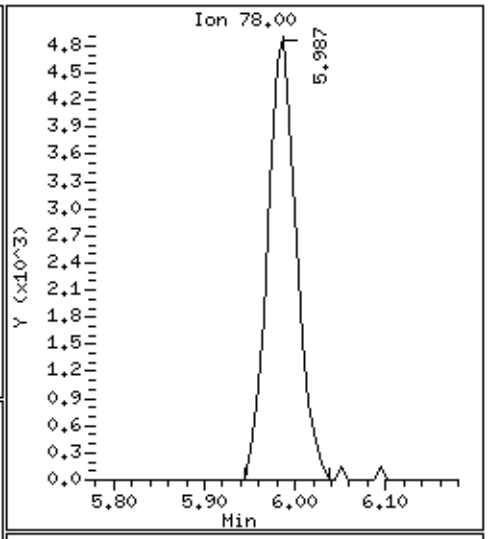
Column phase: RTX-624

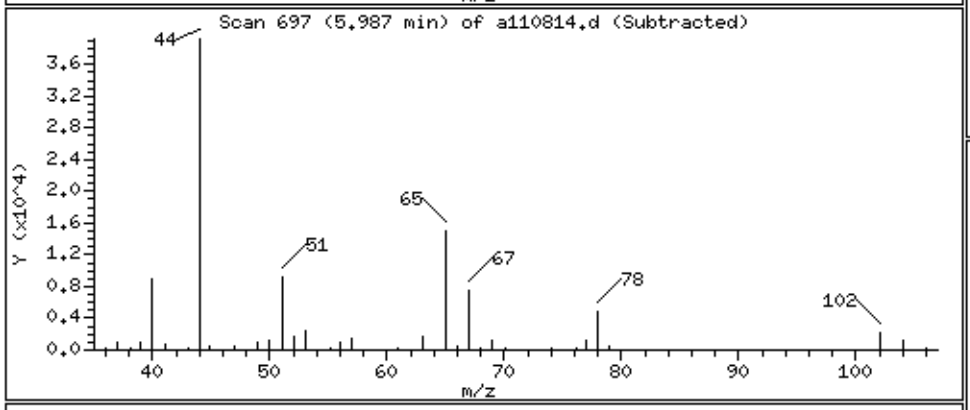
Column diameter: 0.25

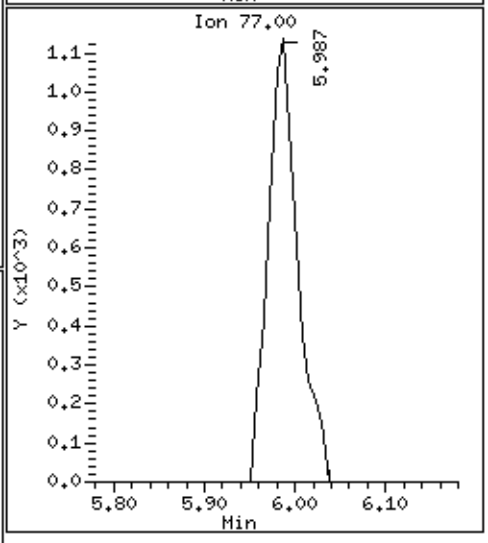
118 Benzene

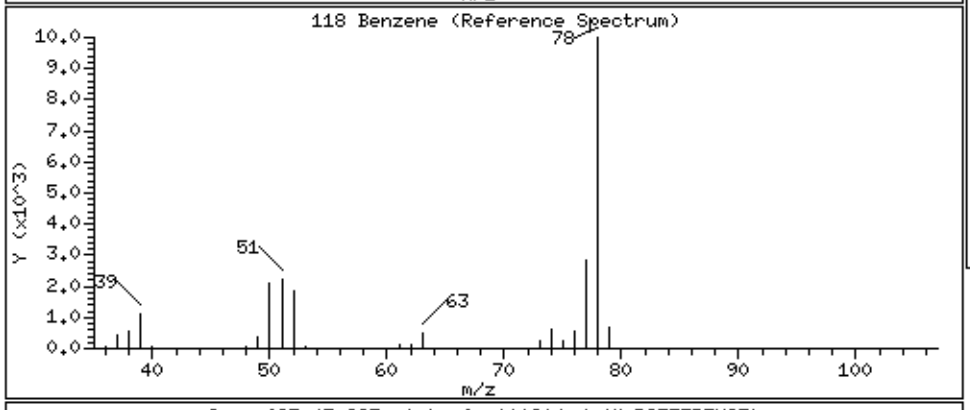
Concentration: 3.564 PPBV

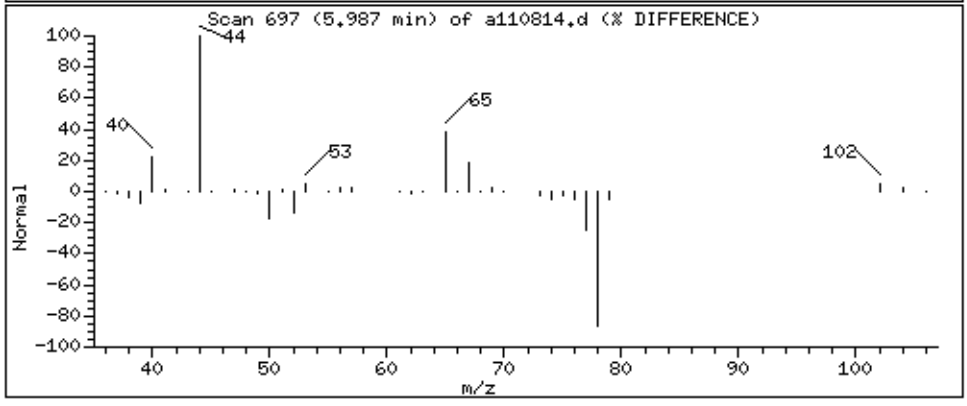












Client ID:	T1AMF-SV024_OCT24		
Lab ID:	2410702A-11A	**Date/Time Analyzed:**	11/8/24 08:20 PM
Date/Time Collected:	10/24/24 11:15 AM	**Dilution Factor:**	7.67
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110815

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	3.7	14	15	Not Detected U
1,4-Dichlorobenzene	106-46-7	8.0	21	23	Not Detected U
Benzene	71-43-2	2.1	11	12	Not Detected U
cis-1,2-Dichloroethene	156-59-2	4.6	14	15	5.0 J
Ethyl Benzene	100-41-4	6.3	15	17	Not Detected U
m,p-Xylene	108-38-3	6.0	15	33	Not Detected U
o-Xylene	95-47-6	5.8	15	17	Not Detected U
Toluene	108-88-3	3.2	13	29	Not Detected U
trans-1,2-Dichloroethene	156-60-5	5.8	14	15	Not Detected U
Trichloroethene	79-01-6	3.0	18	21	8400
Vinyl Chloride	75-01-4	4.5	8.8	9.8	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	88
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/08NOV24.b/a110815.d
Lab Smp Id: 2410702A-11A
Inj Date : 08-NOV-2024 20:20
Operator : DF Inst ID: msda.i
Smp Info : 55mL O0853
Misc Info : 6.3 Hg->9.8 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/08NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:27 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 8
Dil Factor: 7.67000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.421 (1.000)	130	269896	25.0000		80.00- 120.00	100.00
5.428	5.421 (1.000)	128	212002			46.45- 106.45	78.55
5.428	5.421 (1.000)	49	545645			167.12- 227.12	202.17
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.402 (1.000)	114	985619	25.0000		80.00- 120.00	100.00
6.409	6.402 (1.000)	88	161412			0.00- 46.36	16.38
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.145 (1.000)	117	907693	25.0000		80.00- 120.00	100.00
9.146	9.145 (1.000)	82	508750			27.12- 87.12	56.05
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.008 (1.108)	65	415018	22.1031	22.103	80.00- 120.00	100.00
6.015	6.008 (1.108)	67	207284			23.36- 83.36	49.95
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.749 (1.210)	98	1042225	25.3616	25.362	80.00- 120.00	100.00
7.756	7.749 (1.210)	70	117169			0.00- 41.92	11.24

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.749 (1.210)	100	703162			39.07- 99.07	67.47
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	555120	22.9338	22.934	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	681410			89.27- 149.27	122.75
10.292	10.292 (1.125)	176	533577			66.29- 126.29	96.12
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.170 (0.954)	98	1342	0.16558	1.270	80.00- 120.00	100.00(aQ)
5.184	5.170 (0.955)	96	2267			123.49- 183.49	168.93
5.177	5.170 (0.954)	61	3369			310.35- 370.35	251.04
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.610 (1.032)	95	3545806	203.664	1562.1	80.00- 120.00	100.00
6.617	6.610 (1.032)	130	3487315			67.98- 127.98	98.35
6.617	6.610 (1.032)	97	2316569			34.45- 94.45	65.33

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110815.d
Lab Smp Id: 2410702A-11A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 6.3 Hg->9.8 psi

Calibration Date: 08-NOV-2024
Calibration Time: 12:27
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	291309	174785	407833	269896	-7.35
126 1,4-Difluorobenze	982121	589273	1374969	985619	0.36
165 Chlorobenzene-d5	925746	555448	1296044	907693	-1.95

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.42	5.09	5.75	5.43	0.13
126 1,4-Difluorobenze	6.40	6.07	6.73	6.41	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 09:31

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 08NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-11A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 6.3 Hg->9.8 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.103	88.41	70-130
$ 152 Toluene-d8	25.000	25.362	101.45	70-130
$ 191 4-Bromofluorobenz	25.000	22.934	91.74	70-130

Data File: /chem/msda.i/08NOV24.b/a110815.d

Page 1

Date : 08-NOV-2024 20:20

Client ID:

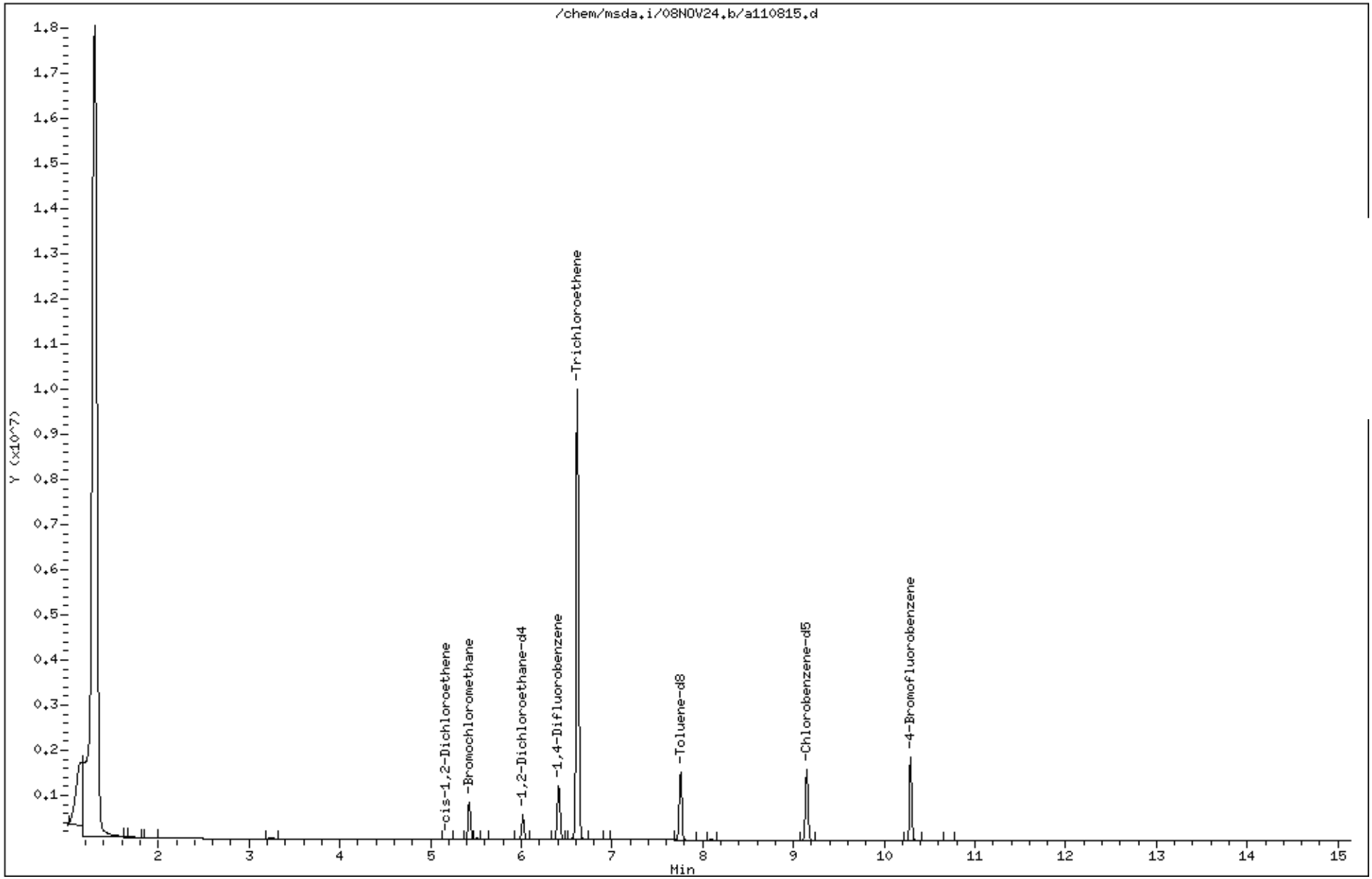
Instrument: msda.i

Sample Info: 55mL 00853

Operator: DF

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msda.i/08NOV24.b/a110815.d

Date : 08-NOV-2024 20:20

Client ID:

Instrument: msda.i

Sample Info: 55mL 00853

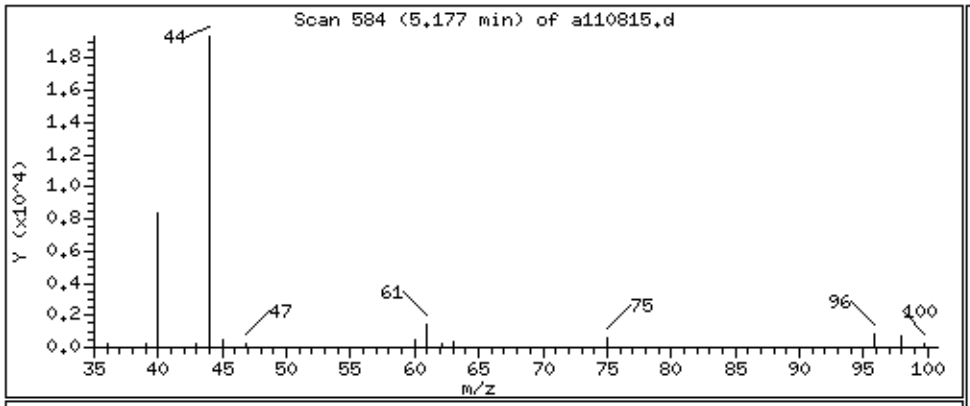
Operator: DF

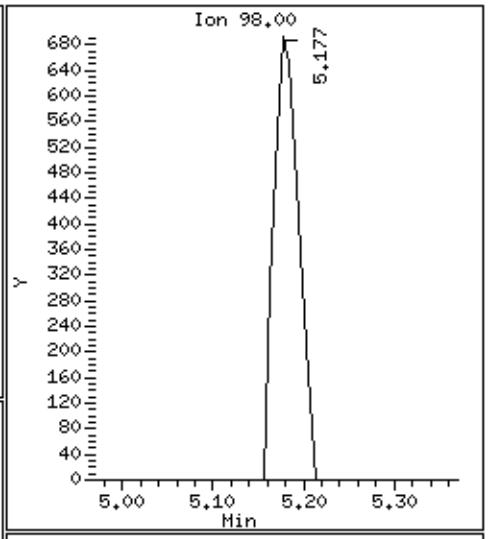
Column phase: RTX-624

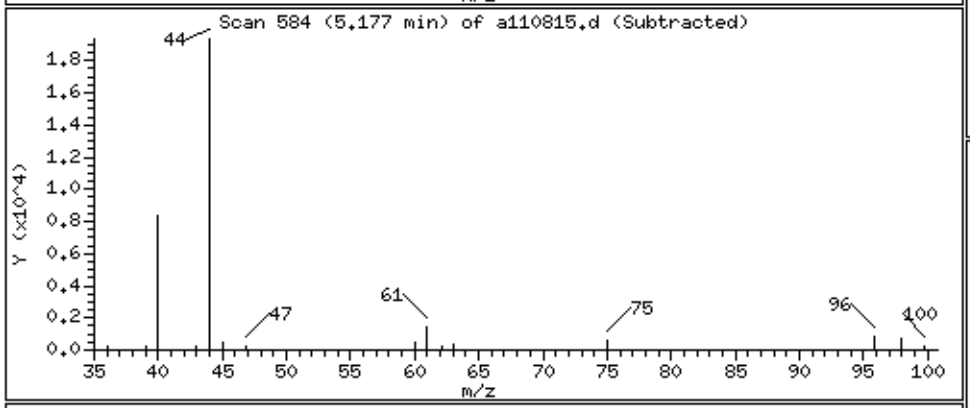
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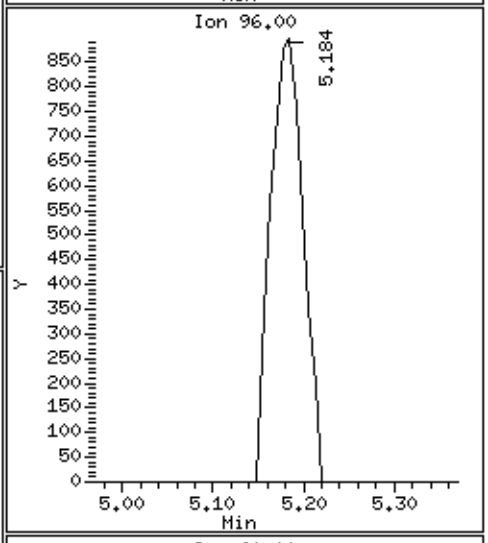
91 cis-1,2-Dichloroethene

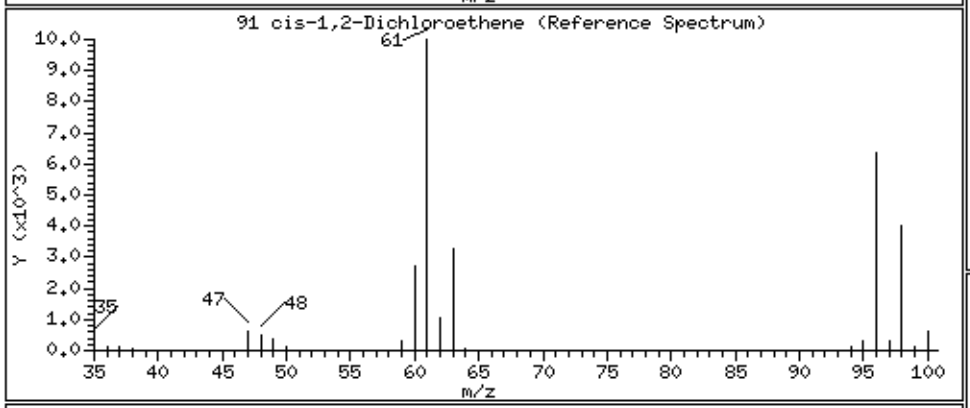
Concentration: 1.270 PPBV

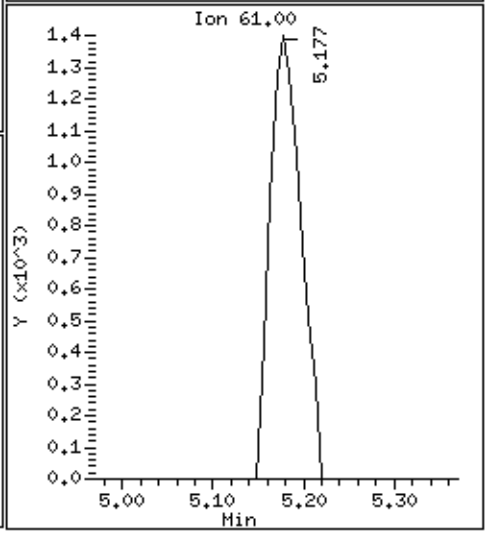


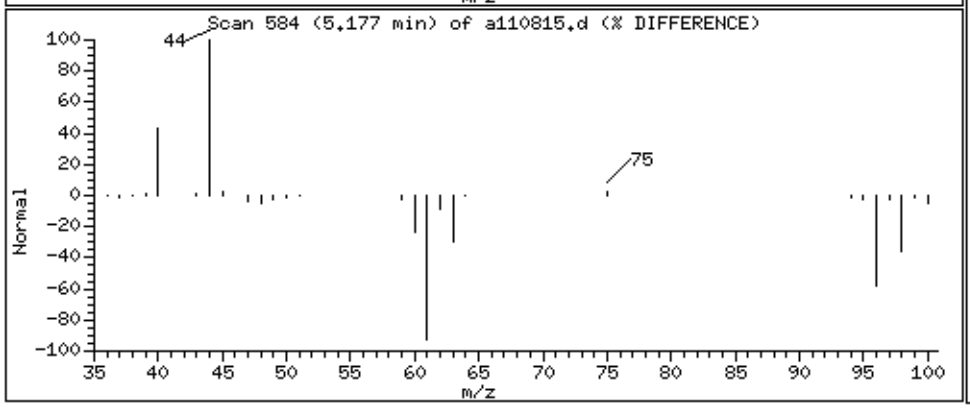












Data File: /chem/msda.i/08NOV24.b/a110815.d

Date : 08-NOV-2024 20:20

Client ID:

Instrument: msda.i

Sample Info: 55mL 00853

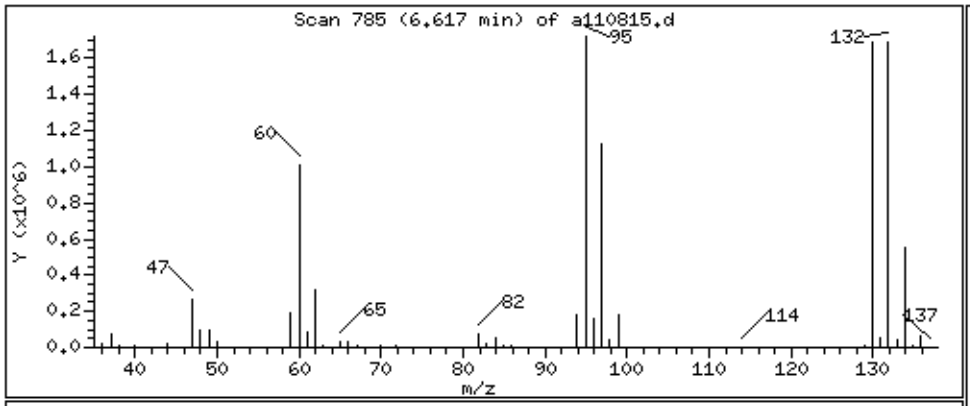
Operator: DF

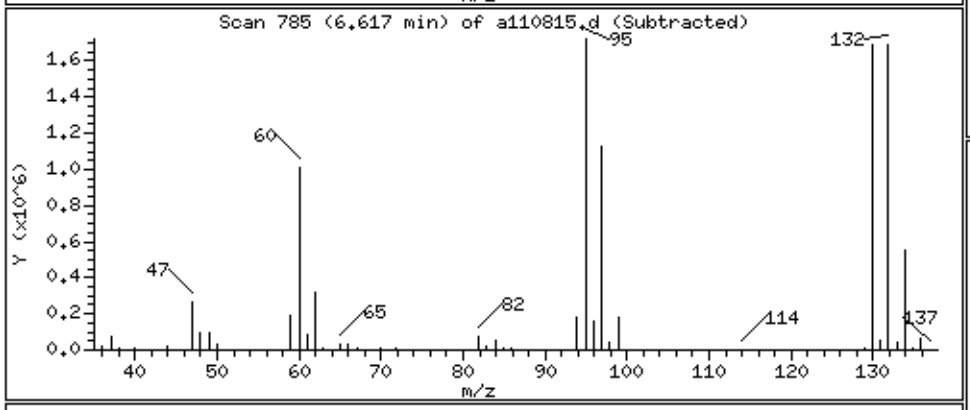
Column phase: RTX-624

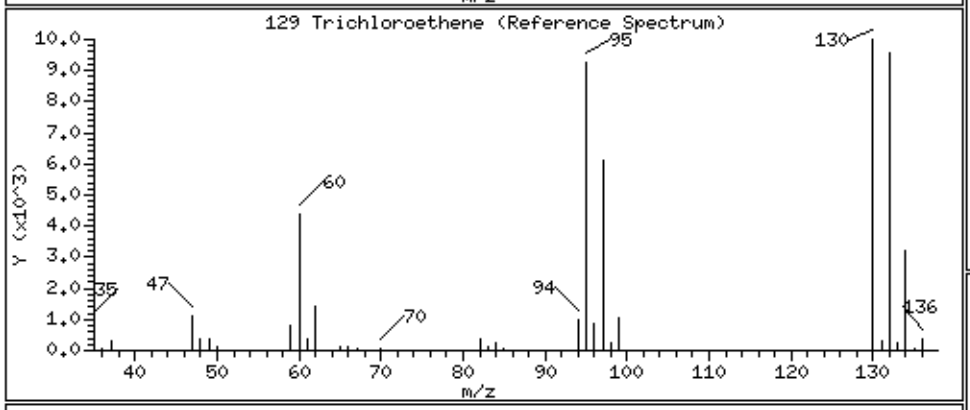
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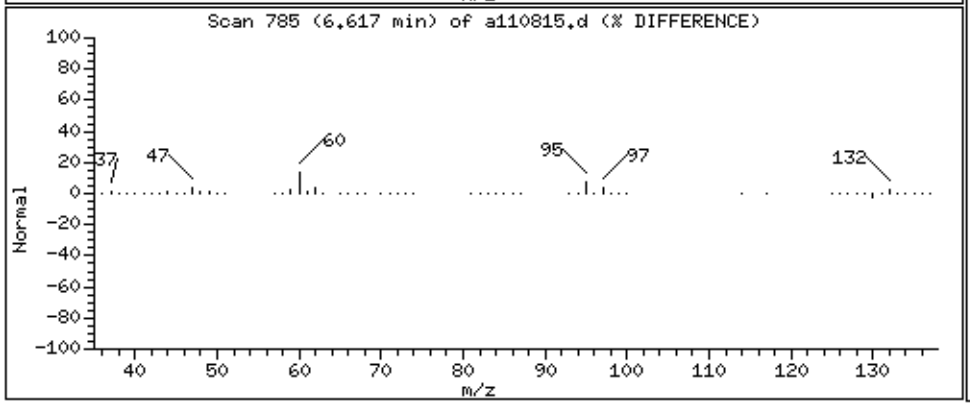
129 Trichloroethene

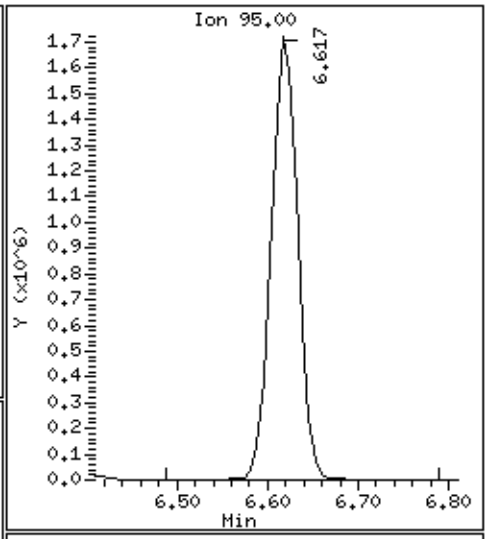
Concentration: 1562.1 PPBV

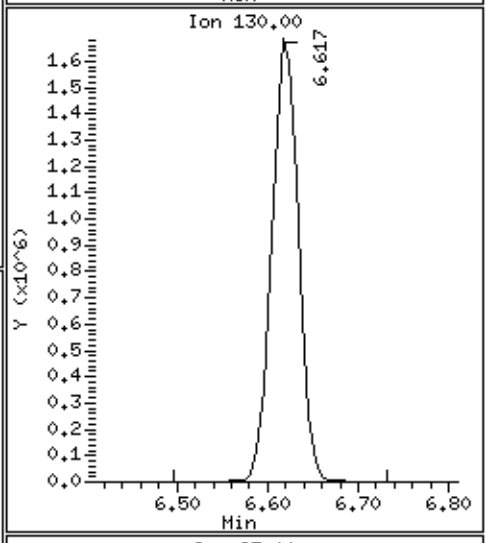


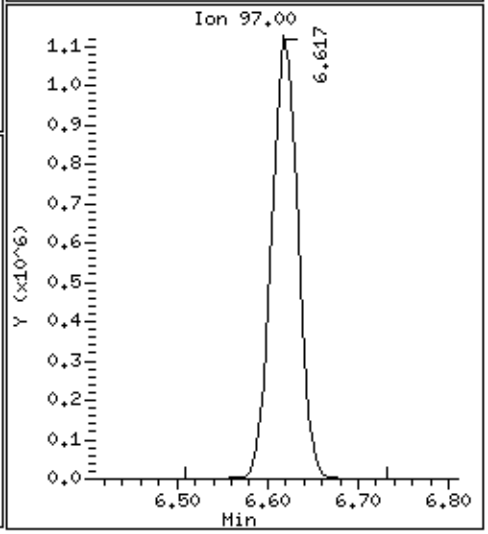












eurofins | Air Toxics

Client ID:	T1AMF-SV001_OCT24		
Lab ID:	2410702A-12A	**Date/Time Analyzed:**	11/8/24 08:54 PM
Date/Time Collected:	10/24/24 12:28 PM	**Dilution Factor:**	7.18
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110816

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	3.5	13	14	Not Detected U
1,4-Dichlorobenzene	106-46-7	7.5	19	22	Not Detected U
Benzene	71-43-2	2.0	10	11	Not Detected U
cis-1,2-Dichloroethene	156-59-2	4.3	13	14	9.4 J
Ethyl Benzene	100-41-4	5.9	14	16	Not Detected U
m,p-Xylene	108-38-3	5.6	14	31	Not Detected U
o-Xylene	95-47-6	5.4	14	16	Not Detected U
Toluene	108-88-3	3.0	12	27	Not Detected U
trans-1,2-Dichloroethene	156-60-5	5.4	13	14	Not Detected U
Trichloroethene	79-01-6	2.8	17	19	7400
Vinyl Chloride	75-01-4	4.2	8.2	9.2	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	90
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	103

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/08NOV24.b/a110816.d
Lab Smp Id: 2410702A-12A
Inj Date : 08-NOV-2024 20:54
Operator : DF Inst ID: msda.i
Smp Info : 60mL N6195
Misc Info : 6.7 Hg->9.9 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/08NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:27 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 9
Dil Factor: 7.18000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane						CAS #: 74-97-5	
5.428	5.421 (1.000)	130	267678	25.0000		80.00- 120.00	100.00
5.428	5.421 (1.000)	128	207112			46.45- 106.45	77.37
5.428	5.421 (1.000)	49	543426			167.12- 227.12	203.01
* 126 1,4-Difluorobenzene						CAS #: 540-36-3	
6.409	6.402 (1.000)	114	968124	25.0000		80.00- 120.00	100.00
6.409	6.402 (1.000)	88	157627			0.00- 46.36	16.28
* 165 Chlorobenzene-d5						CAS #: 3114-55-4	
9.146	9.145 (1.000)	117	903483	25.0000		80.00- 120.00	100.00
9.146	9.145 (1.000)	82	509979			27.12- 87.12	56.45
$ 119 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
6.015	6.008 (1.108)	65	419377	22.5203	22.520	80.00- 120.00	100.00
6.015	6.008 (1.108)	67	206315			23.36- 83.36	49.20
$ 152 Toluene-d8						CAS #: 2037-26-5	
7.756	7.749 (1.210)	98	1036802	25.6856	25.686	80.00- 120.00	100.00
7.756	7.749 (1.210)	70	116659			0.00- 41.92	11.25

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.749 (1.210)	100	696250			39.07- 99.07	67.15
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	552871	22.9473	22.947	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	684625			89.27- 149.27	123.83
10.292	10.292 (1.125)	176	535577			66.29- 126.29	96.87
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.184	5.170 (0.955)	98	2665	0.33155	2.380	80.00- 120.00	100.00(aQ)
5.184	5.170 (0.955)	96	3397			123.49- 183.49	127.47
5.184	5.170 (0.955)	61	5682			310.35- 370.35	213.21
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.610 (1.032)	95	3303072	193.151	1386.8	80.00- 120.00	100.00
6.617	6.610 (1.032)	130	3239486			67.98- 127.98	98.07
6.617	6.610 (1.032)	97	2152281			34.45- 94.45	65.16

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Report Date: 13-Nov-2024 09:31

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110816.d
Lab Smp Id: 2410702A-12A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 6.7 Hg->9.9 psi

Calibration Date: 08-NOV-2024
Calibration Time: 12:27
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	291309	174785	407833	267678	-8.11
126 1,4-Difluorobenze	982121	589273	1374969	968124	-1.43
165 Chlorobenzene-d5	925746	555448	1296044	903483	-2.40

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.42	5.09	5.75	5.43	0.14
126 1,4-Difluorobenze	6.40	6.07	6.73	6.41	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 09:31

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 08NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-12A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 6.7 Hg->9.9 psi

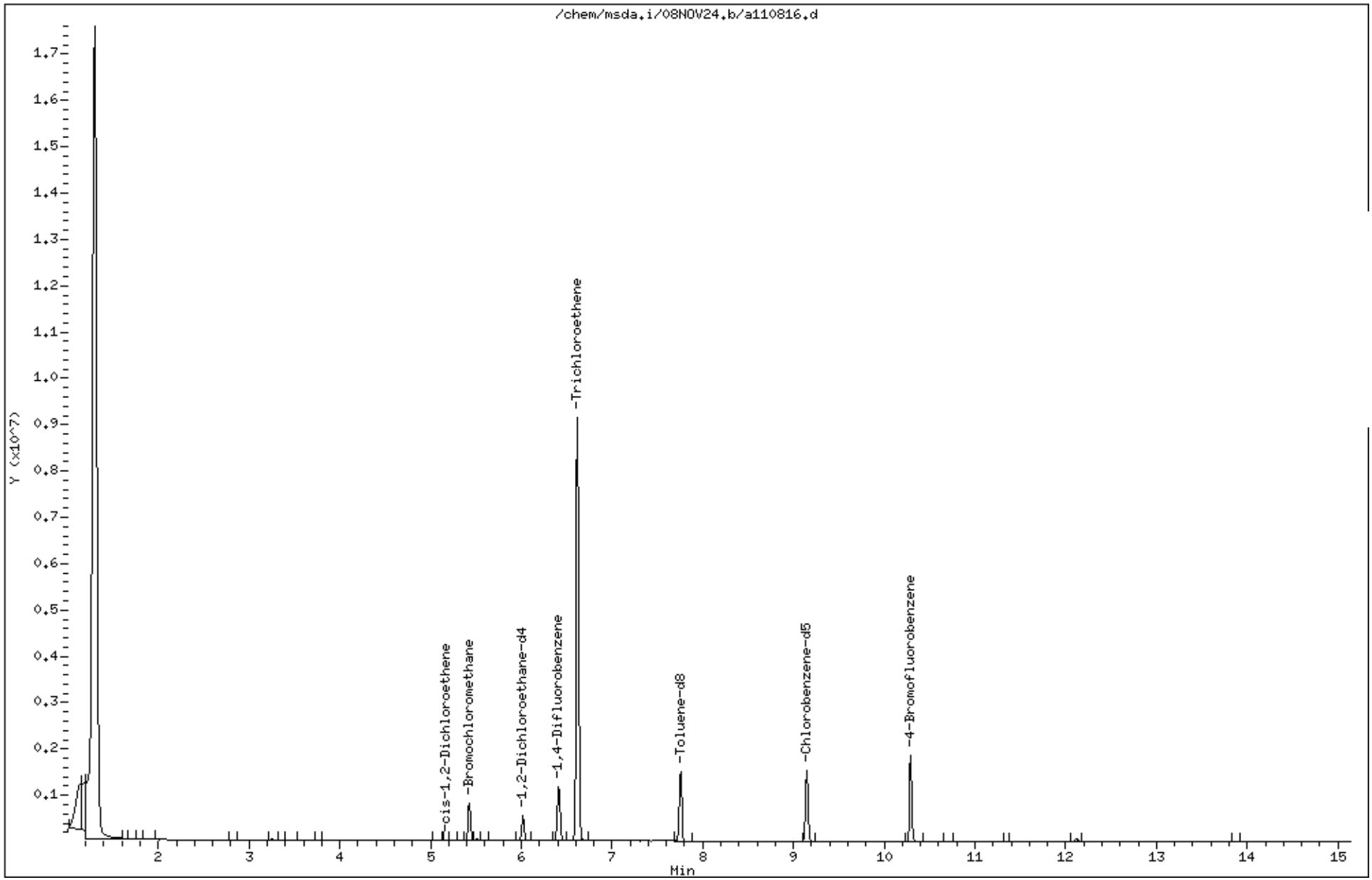
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.520	90.08	70-130
$ 152 Toluene-d8	25.000	25.686	102.74	70-130
$ 191 4-Bromofluorobenz	25.000	22.947	91.79	70-130

Data File: /chem/msda.i/08NOV24.b/a110816.d
Date : 08-NOV-2024 20:54
Client ID:
Sample Info: 60mL N6195

Instrument: msda.i

Operator: DF
Column diameter: 0.25

Column phase: RTX-624



Data File: /chem/msda.i/08NOV24.b/a110816.d

Date : 08-NOV-2024 20:54

Client ID:

Instrument: msda.i

Sample Info: 60mL N6195

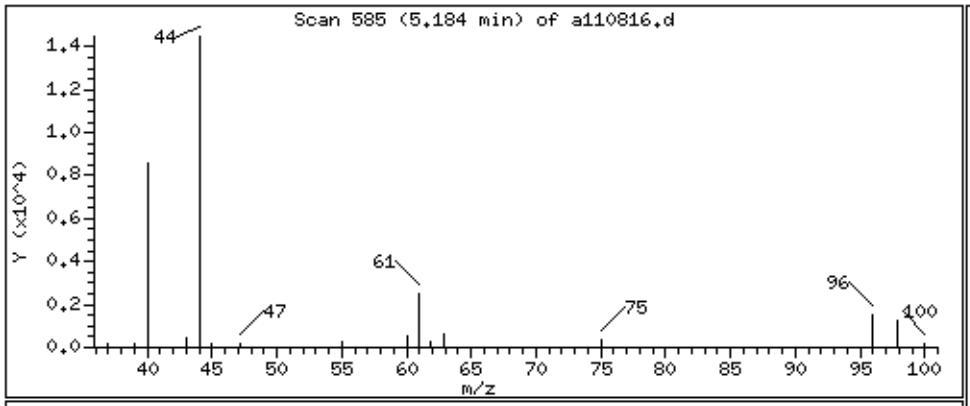
Operator: DF

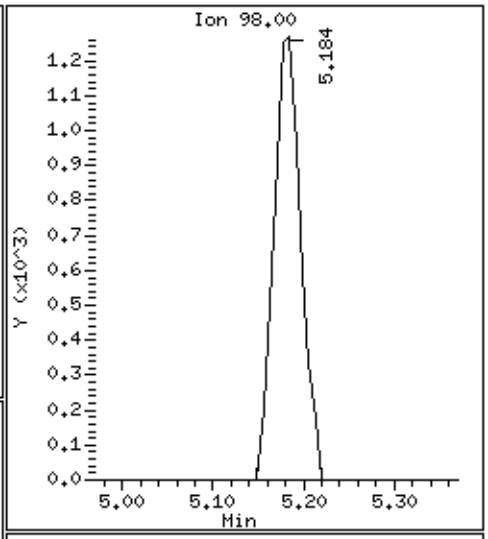
Column phase: RTX-624

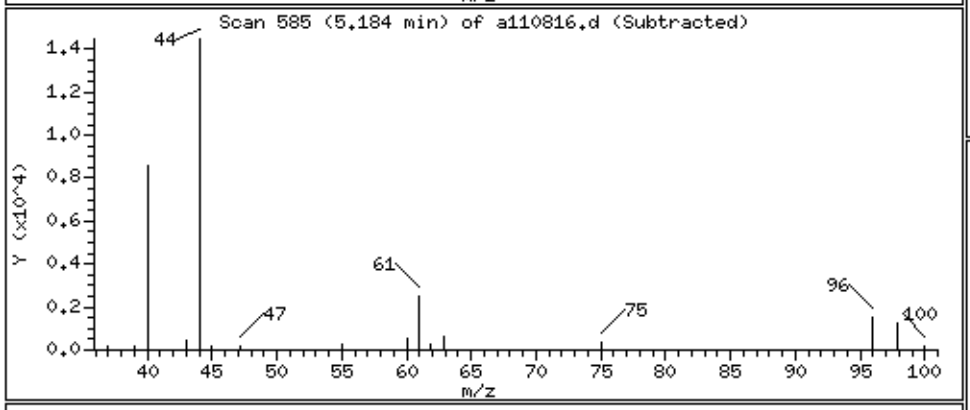
Column diameter: 0.25

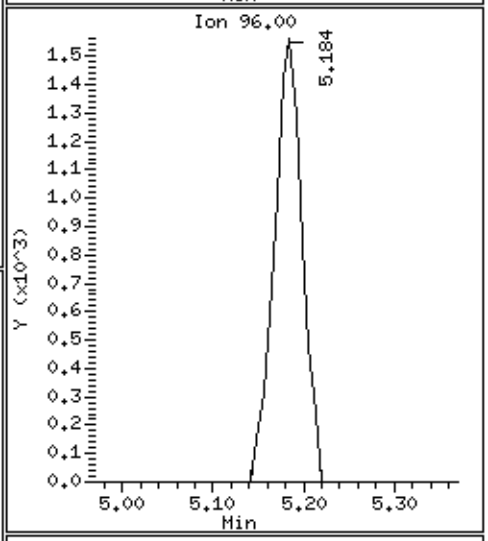
91 cis-1,2-Dichloroethene

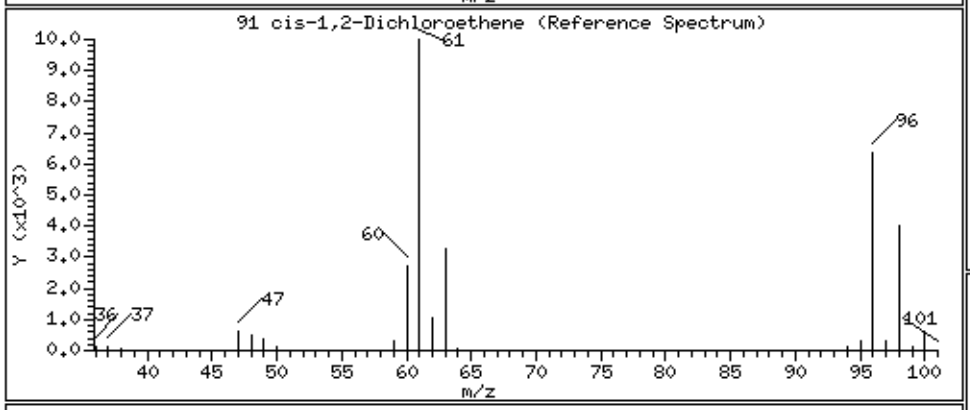
Concentration: 2.380 PPBV

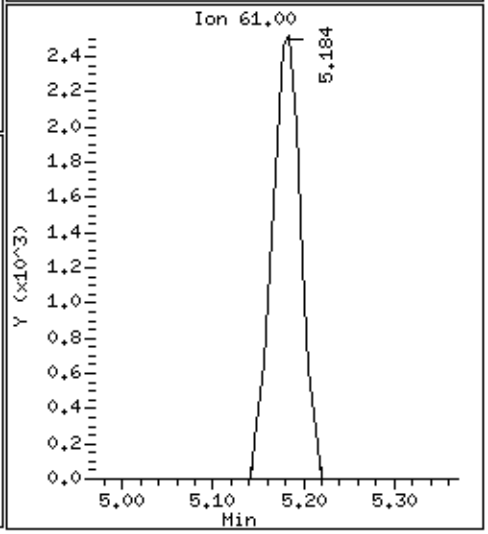


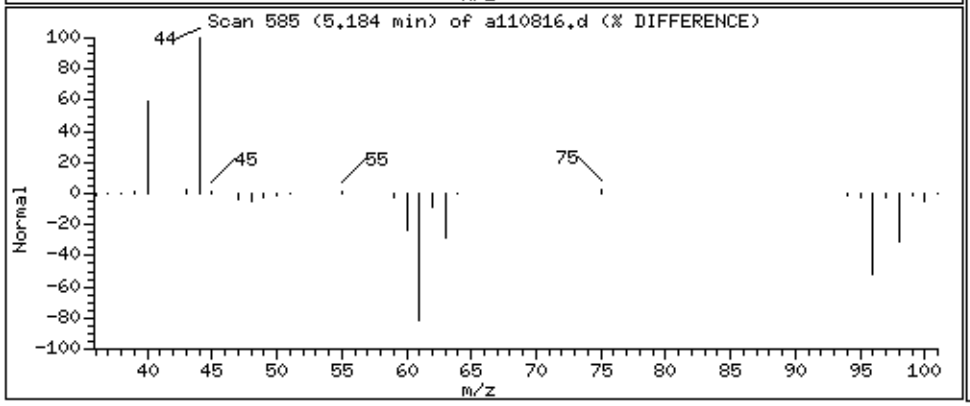












Data File: /chem/msda.i/08NOV24.b/a110816.d

Date : 08-NOV-2024 20:54

Client ID:

Instrument: msda.i

Sample Info: 60mL N6195

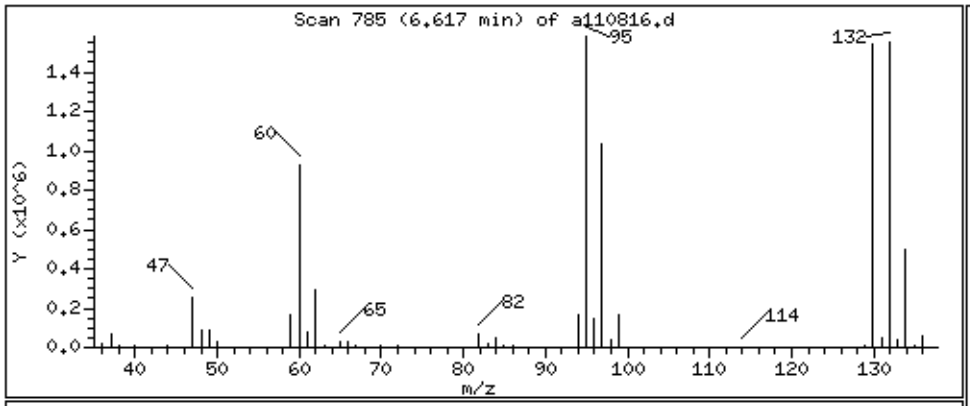
Operator: DF

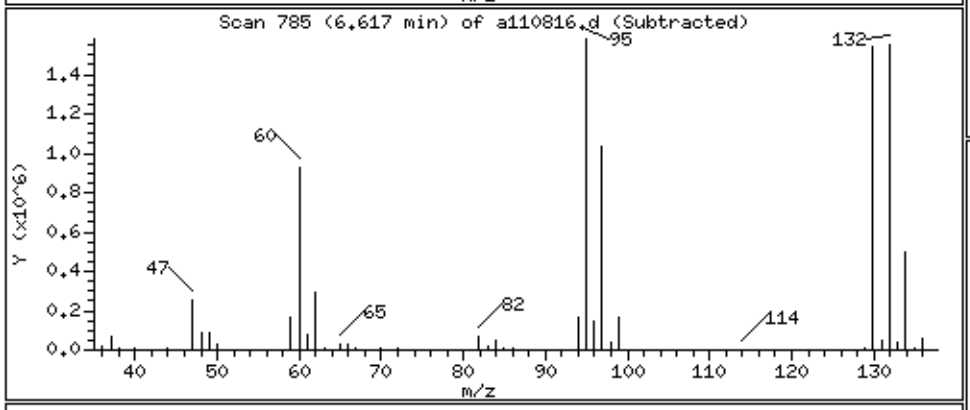
Column phase: RTX-624

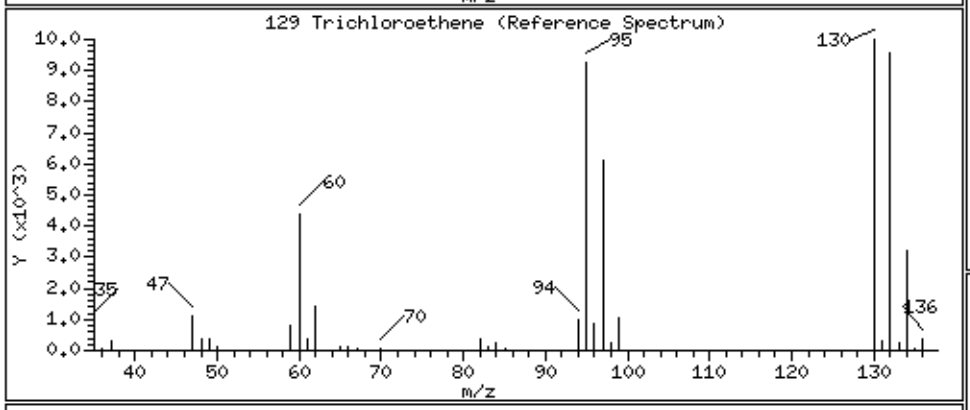
Column diameter: 0.25

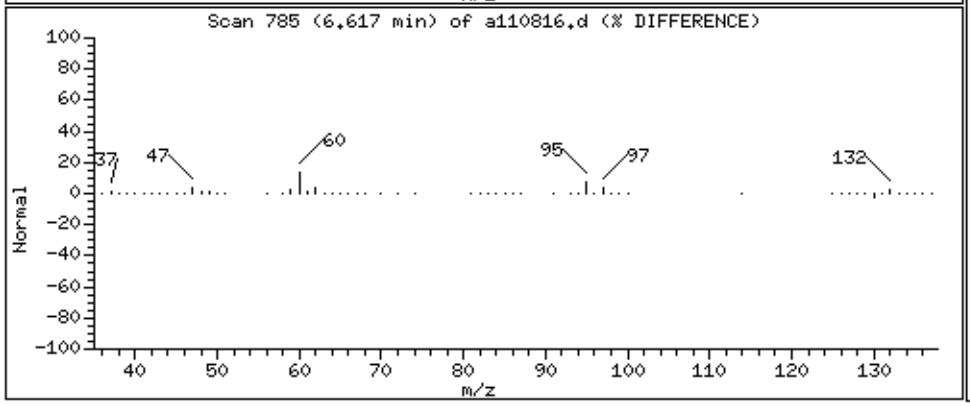
129 Trichloroethene

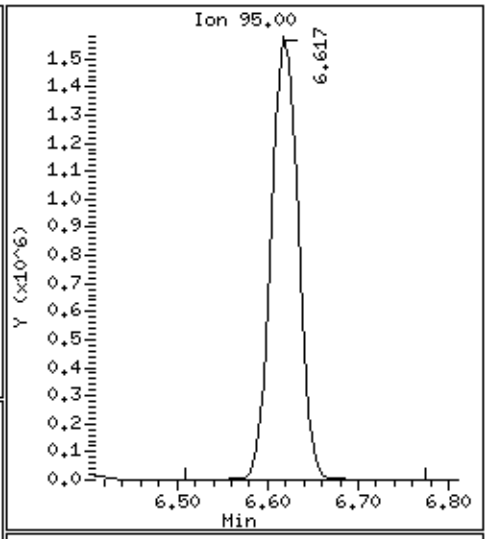
Concentration: 1386.8 PPBV

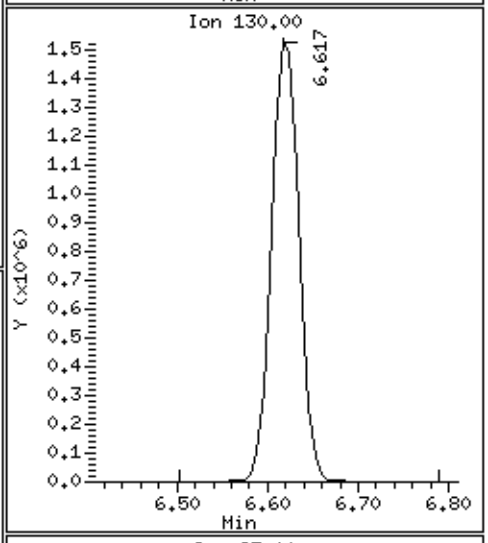


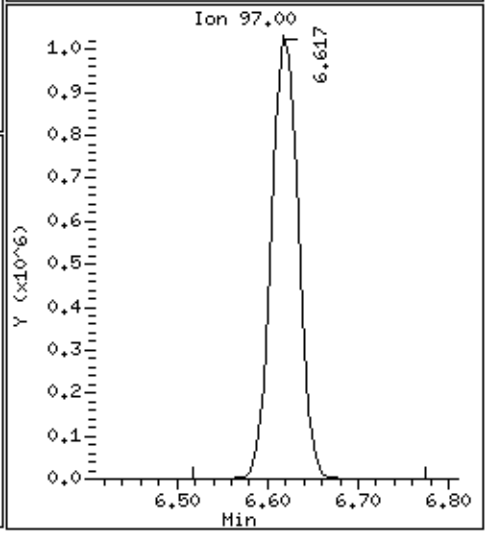












Client ID:	T1AMF-SV026_OCT24		
Lab ID:	2410702A-13A	**Date/Time Analyzed:**	11/8/24 03:35 PM
Date/Time Collected:	10/24/24 01:41 PM	**Dilution Factor:**	2.07
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110807

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.0	3.7	4.1	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.2	5.6	6.2	Not Detected U
Benzene	71-43-2	0.58	3.0	3.3	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.2	3.7	4.1	Not Detected U
Ethyl Benzene	100-41-4	1.7	4.0	4.5	Not Detected U
m,p-Xylene	108-38-3	1.6	4.0	9.0	Not Detected U
o-Xylene	95-47-6	1.6	4.0	4.5	Not Detected U
Toluene	108-88-3	0.86	3.5	7.8	Not Detected U
trans-1,2-Dichloroethene	156-60-5	1.6	3.7	4.1	Not Detected U
Trichloroethene	79-01-6	0.82	5.0	5.6	800
Vinyl Chloride	75-01-4	1.2	2.4	2.6	Not Detected U

U = The analyte was not detected above the MDL.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	88
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/08NOV24.b/a110807.d
Lab Smp Id: 2410702A-13A
Inj Date : 08-NOV-2024 15:35
Operator : DF Inst ID: msda.i
Smp Info : 200mL O1055
Misc Info : 5.7 Hg->10 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/08NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:27 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 1
Dil Factor: 2.07000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.421 (1.000)	130	286560	25.0000		80.00- 120.00	100.00
5.428	5.421 (1.000)	128	225396			46.45- 106.45	78.66
5.428	5.421 (1.000)	49	571612			167.12- 227.12	199.47
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.402 (1.000)	114	1070783	25.0000		80.00- 120.00	100.00
6.409	6.402 (1.000)	88	171168			0.00- 46.36	15.99
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.145 (1.000)	117	998430	25.0000		80.00- 120.00	100.00
9.146	9.145 (1.000)	82	558289			27.12- 87.12	55.92
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.008 (1.108)	65	440304	22.0862	22.086	80.00- 120.00	100.00
6.015	6.008 (1.108)	67	217866			23.36- 83.36	49.48
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.749 (1.210)	98	1130637	25.3248	25.325	80.00- 120.00	100.00
7.756	7.749 (1.210)	70	130683			0.00- 41.92	11.56

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.749 (1.210)	100	761331			39.07- 99.07	67.34
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	615682	23.1242	23.124	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	757279			89.27- 149.27	123.00
10.292	10.292 (1.125)	176	599997			66.29- 126.29	97.45
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.610 (1.032)	95	1369805	72.4213	149.91	80.00- 120.00	100.00
6.624	6.610 (1.034)	130	1351397			67.98- 127.98	98.66
6.617	6.610 (1.032)	97	888401			34.45- 94.45	64.86

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110807.d
Lab Smp Id: 2410702A-13A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 5.7 Hg->10 psi

Calibration Date: 08-NOV-2024
Calibration Time: 12:27
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	291309	174785	407833	286560	-1.63
126 1,4-Difluorobenze	982121	589273	1374969	1070783	9.03
165 Chlorobenzene-d5	925746	555448	1296044	998430	7.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.42	5.09	5.75	5.43	0.14
126 1,4-Difluorobenze	6.40	6.07	6.73	6.41	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 09:31

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 08NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-13A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 5.7 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.086	88.34	70-130
$ 152 Toluene-d8	25.000	25.325	101.30	70-130
$ 191 4-Bromofluorobenz	25.000	23.124	92.50	70-130

Data File: /chem/msda.i/08NOV24.b/a110807.d

Date : 08-NOV-2024 15:35

Client ID:

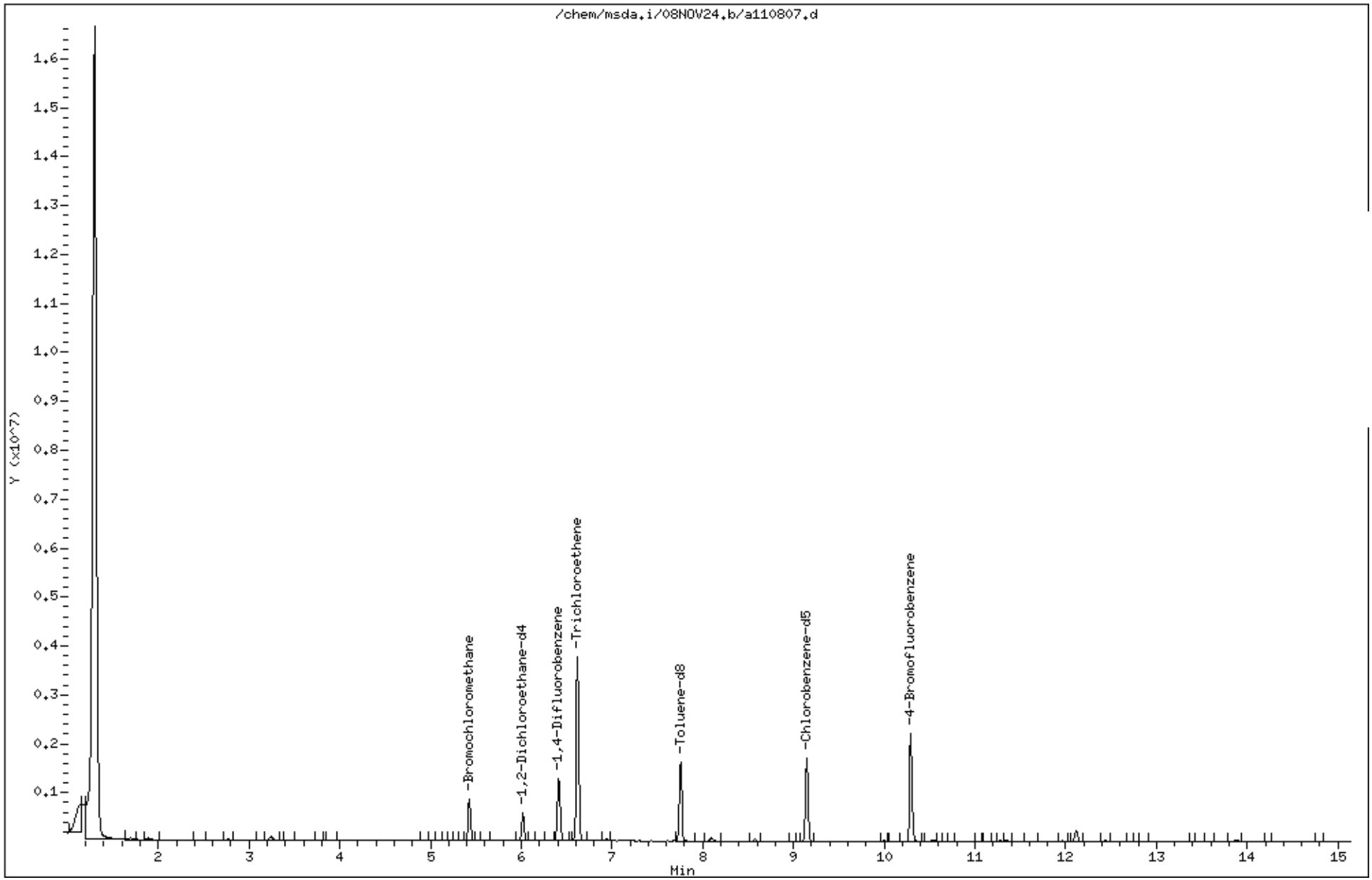
Sample Info: 200mL 01055

Column phase: RTX-624

Instrument: msda.i

Operator: DF

Column diameter: 0.25



Data File: /chem/msda.i/08NOV24.b/a110807.d

Date : 08-NOV-2024 15:35

Client ID:

Instrument: msda.i

Sample Info: 200mL 01055

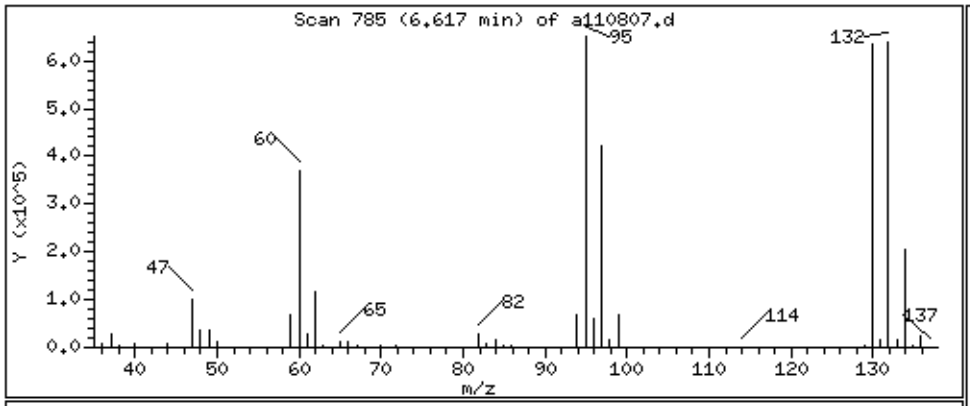
Operator: DF

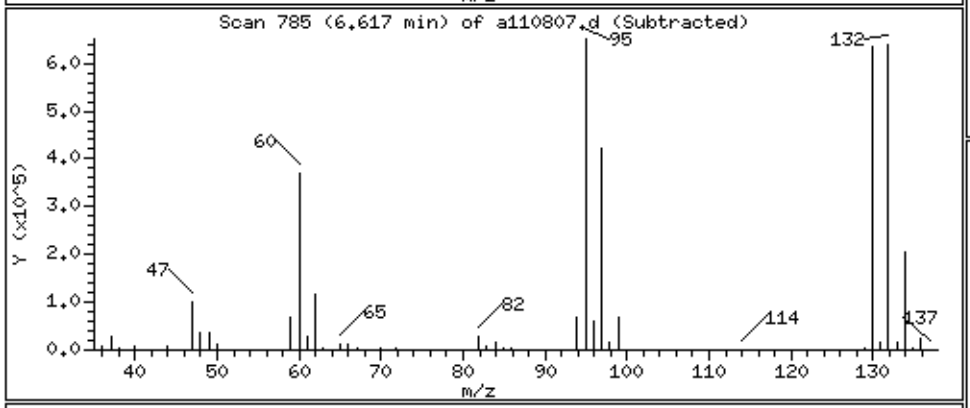
Column phase: RTX-624

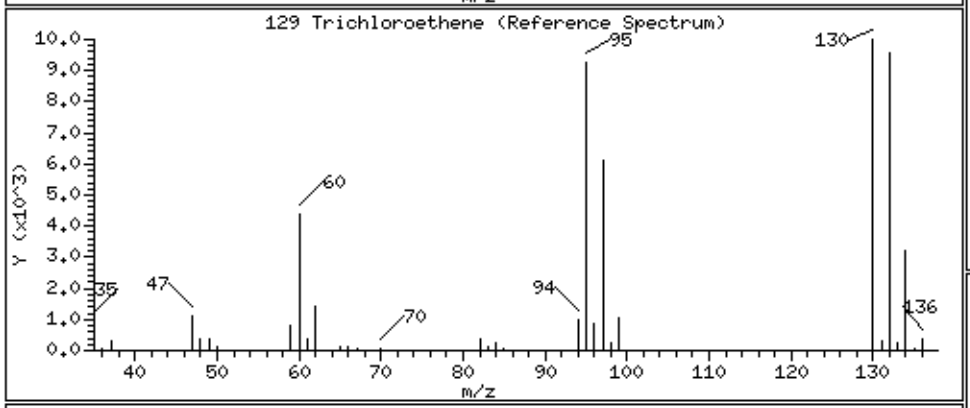
Column diameter: 0.25

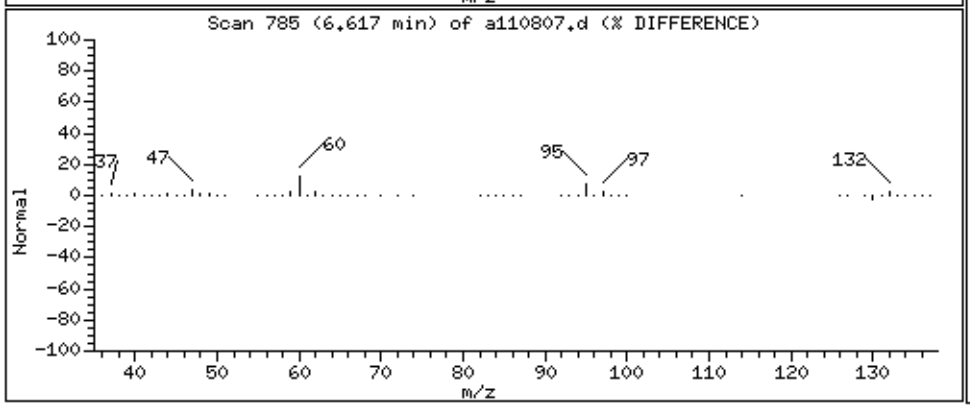
129 Trichloroethene

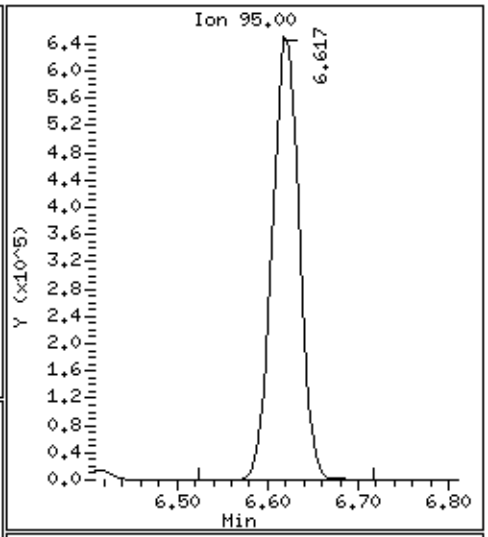
Concentration: 149.91 PPBV

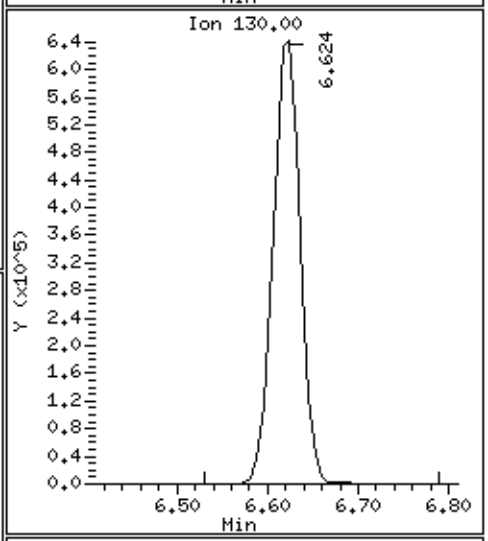


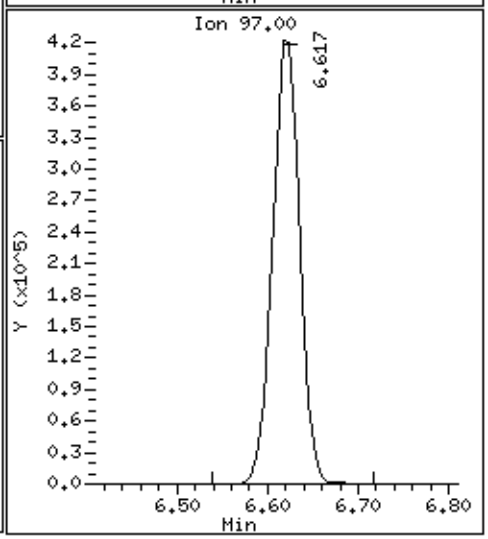












eurofins | Air Toxics

Client ID:	T1AMF-SV026_OCT24 Lab Duplicate		
Lab ID:	2410702A-13AA	**Date/Time Analyzed:**	11/8/24 04:12 PM
Date/Time Collected:	10/24/24 01:41 PM	**Dilution Factor:**	2.07
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110808

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.0	3.7	4.1	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.2	5.6	6.2	Not Detected U
Benzene	71-43-2	0.58	3.0	3.3	0.70 J
cis-1,2-Dichloroethene	156-59-2	1.2	3.7	4.1	Not Detected U
Ethyl Benzene	100-41-4	1.7	4.0	4.5	Not Detected U
m,p-Xylene	108-38-3	1.6	4.0	9.0	Not Detected U
o-Xylene	95-47-6	1.6	4.0	4.5	Not Detected U
Toluene	108-88-3	0.86	3.5	7.8	Not Detected U
trans-1,2-Dichloroethene	156-60-5	1.6	3.7	4.1	Not Detected U
Trichloroethene	79-01-6	0.82	5.0	5.6	820
Vinyl Chloride	75-01-4	1.2	2.4	2.6	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	88
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	102

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/08NOV24.b/a110808.d
Lab Smp Id: 2410702A-13AA
Inj Date : 08-NOV-2024 16:12
Operator : DF Inst ID: msda.i
Smp Info : 200mL O1055
Misc Info : 5.7 Hg->10 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/08NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:27 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 1
Dil Factor: 2.07000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.435	5.421 (1.000)	130	279860	25.0000		80.00- 120.00	100.00
5.435	5.421 (1.000)	128	217392			46.45- 106.45	77.68
5.428	5.421 (1.000)	49	557093			167.12- 227.12	199.06
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.402 (1.000)	114	1039151	25.0000		80.00- 120.00	100.00
6.416	6.402 (1.000)	88	165815			0.00- 46.36	15.96
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.145 (1.000)	117	980395	25.0000		80.00- 120.00	100.00
9.146	9.145 (1.000)	82	551637			27.12- 87.12	56.27
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.008 (1.107)	65	428068	21.9864	21.986	80.00- 120.00	100.00
6.015	6.008 (1.107)	67	216755			23.36- 83.36	50.64
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.749 (1.209)	98	1105496	25.5154	25.515	80.00- 120.00	100.00
7.756	7.749 (1.209)	70	127213			0.00- 41.92	11.51

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.749 (1.209)	100	745604			39.07- 99.07	67.45
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.124)	174	600883	22.9836	22.984	80.00- 120.00	100.00
10.292	10.292 (1.124)	95	738938			89.27- 149.27	122.98
10.292	10.292 (1.124)	176	585324			66.29- 126.29	97.41
118 Benzene					CAS #: 71-43-2		
5.987	5.979 (0.933)	78	3825	0.10624	0.2199	80.00- 120.00	100.00(a)
5.987	5.979 (0.933)	77	861			0.00- 53.99	22.51
129 Trichloroethene					CAS #: 79-01-6		
6.624	6.610 (1.032)	95	1355930	73.8700	152.91	80.00- 120.00	100.00
6.624	6.610 (1.032)	130	1337324			67.98- 127.98	98.63
6.624	6.610 (1.032)	97	876790			34.45- 94.45	64.66

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110808.d
Lab Smp Id: 2410702A-13AA
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 5.7 Hg->10 psi

Calibration Date: 08-NOV-2024
Calibration Time: 12:27
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	291309	174785	407833	279860	-3.93
126 1,4-Difluorobenze	982121	589273	1374969	1039151	5.81
165 Chlorobenzene-d5	925746	555448	1296044	980395	5.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.42	5.09	5.75	5.44	0.27
126 1,4-Difluorobenze	6.40	6.07	6.73	6.42	0.23
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 09:31

US32TAR1

RECOVERY REPORT

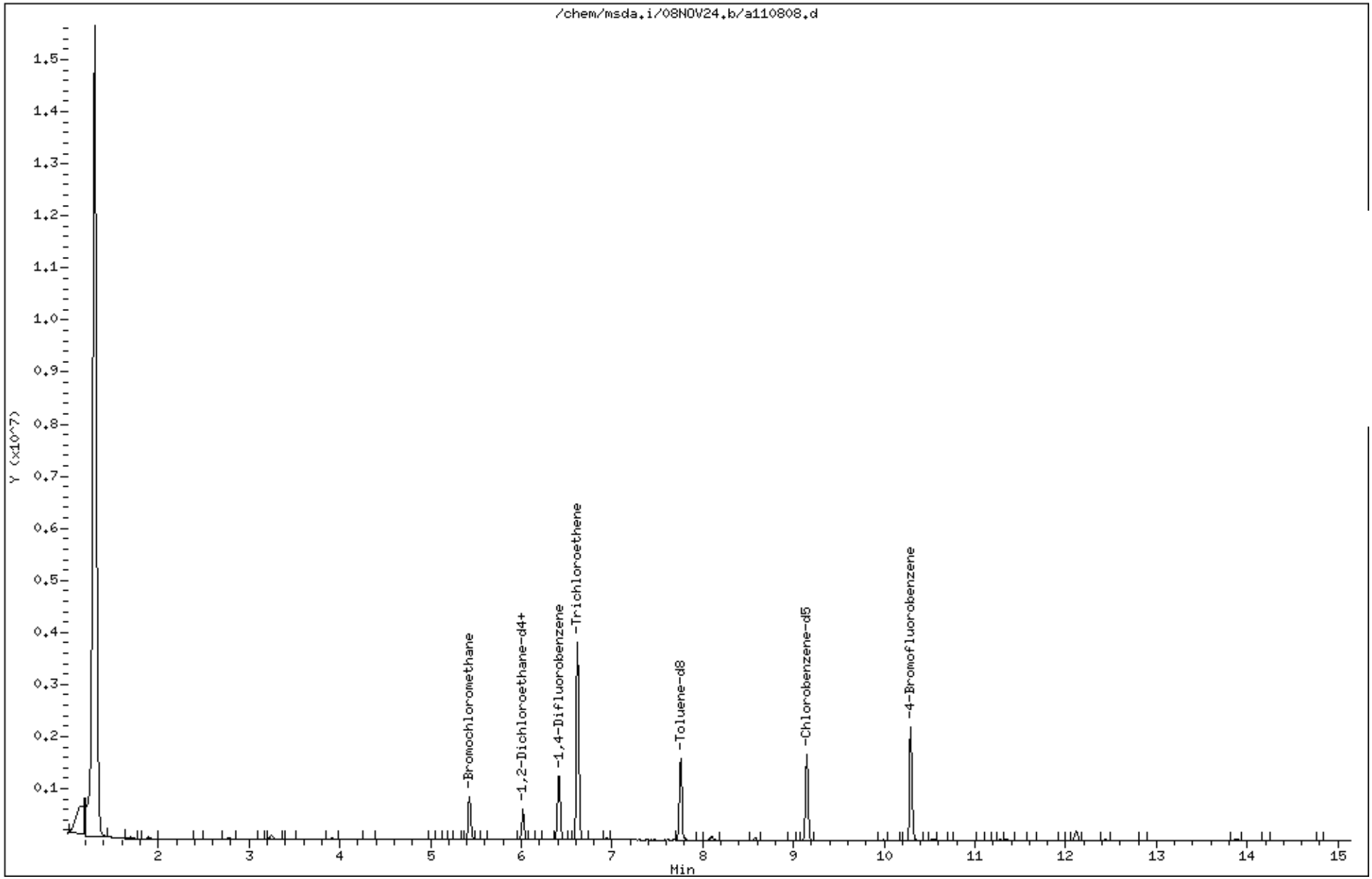
Client Name: Client SDG: 08NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-13AA
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 5.7 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	21.986	87.95	70-130
$ 152 Toluene-d8	25.000	25.515	102.06	70-130
$ 191 4-Bromofluorobenz	25.000	22.984	91.93	70-130

Data File: /chem/msda.i/08NOV24.b/a110808.d
Date : 08-NOV-2024 16:12
Client ID:
Sample Info: 200mL 01055

Instrument: msda.i
Operator: DF
Column diameter: 0.25

Column phase: RTX-624



Data File: /chem/msda.i/08NOV24.b/a110808.d

Date : 08-NOV-2024 16:12

Client ID:

Instrument: msda.i

Sample Info: 200mL 01055

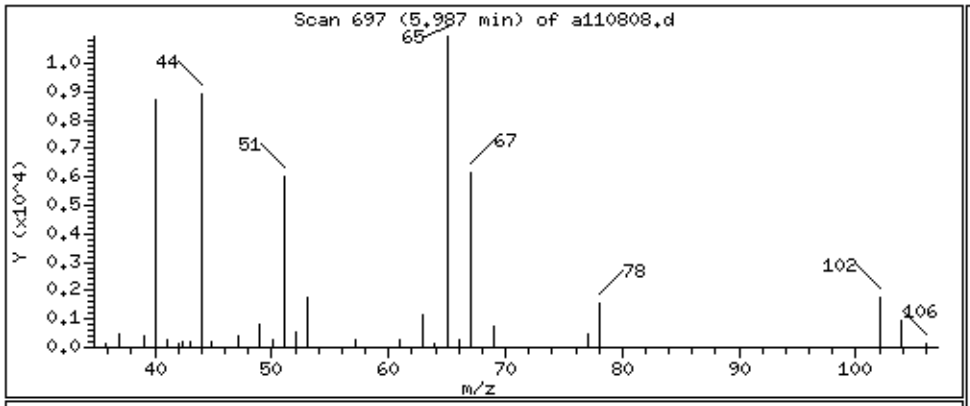
Operator: DF

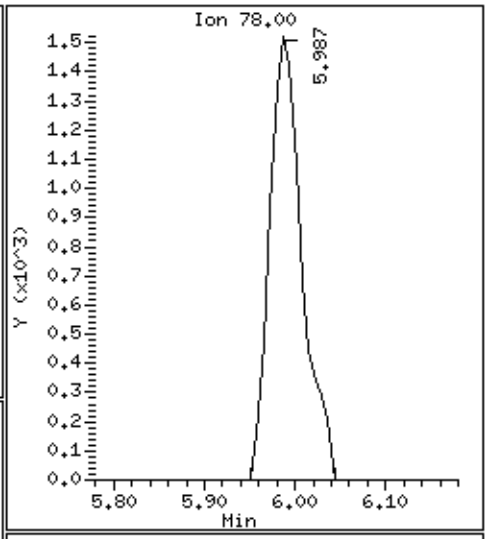
Column phase: RTX-624

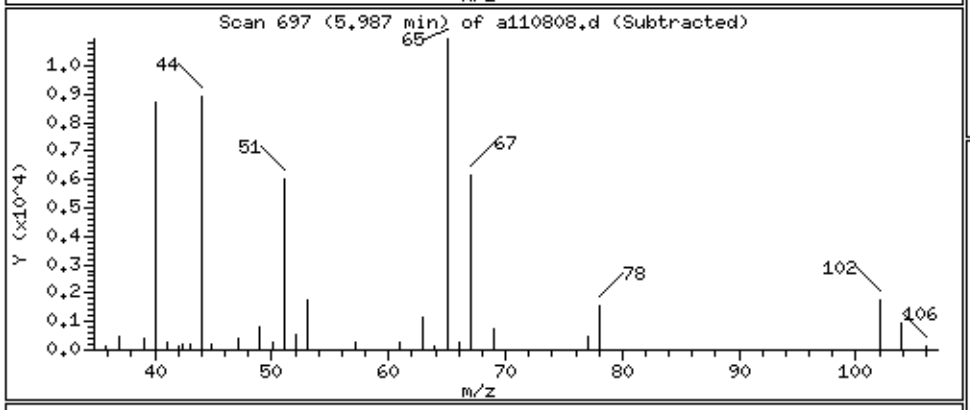
Column diameter: 0.25

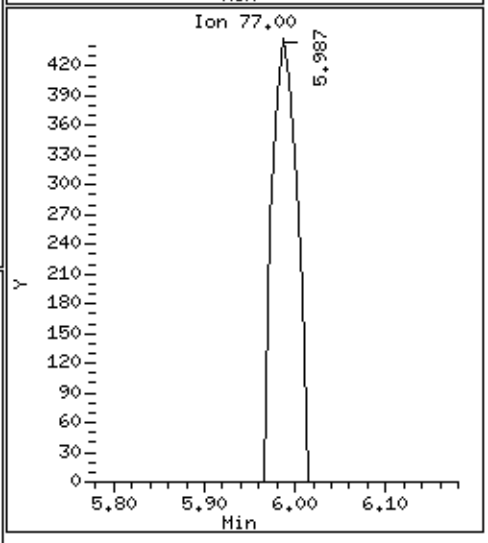
118 Benzene

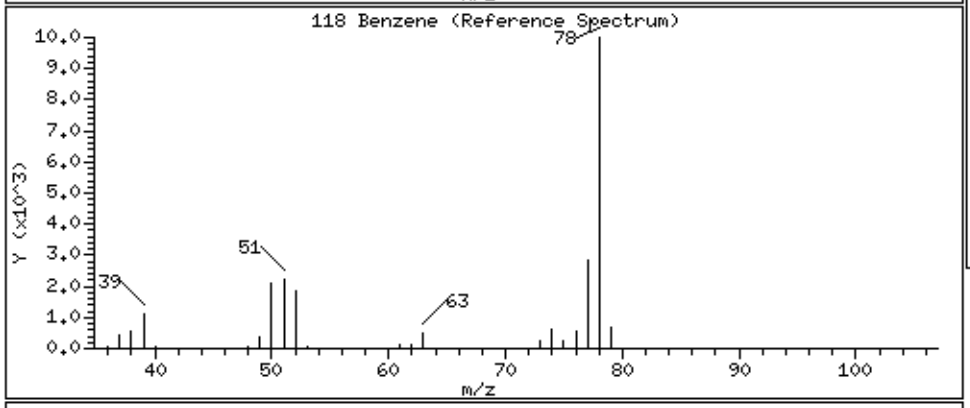
Concentration: 0.2199 PPBV

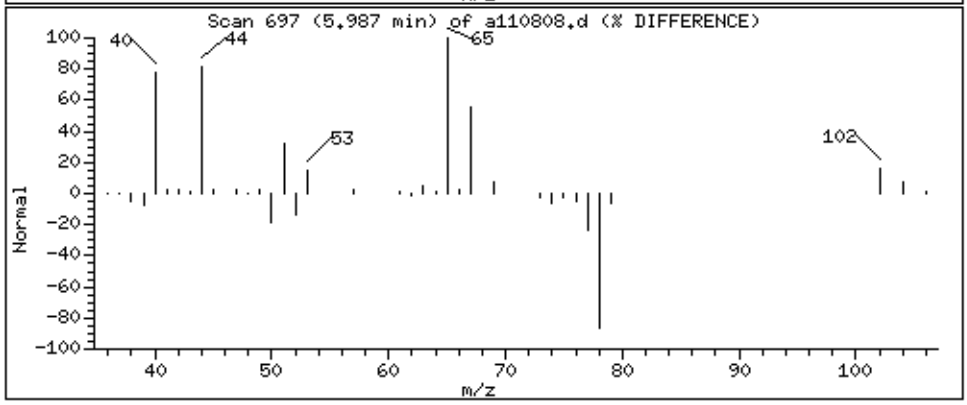












Data File: /chem/msda.i/08NOV24.b/a110808.d

Date : 08-NOV-2024 16:12

Client ID:

Instrument: msda.i

Sample Info: 200mL 01055

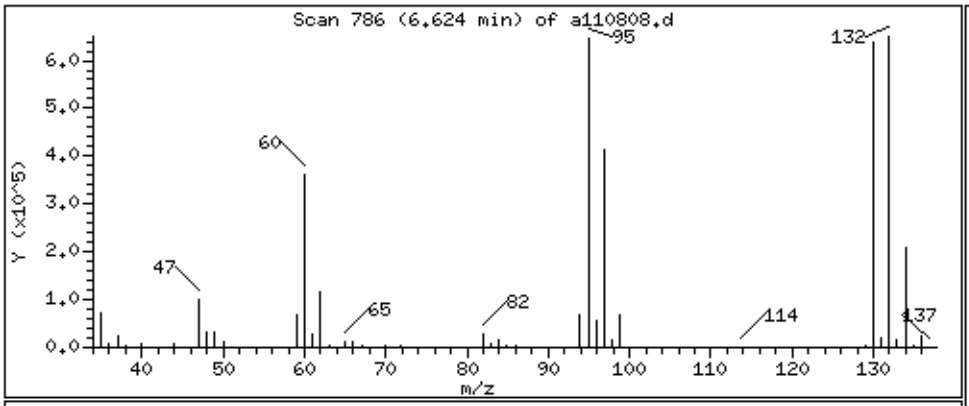
Operator: DF

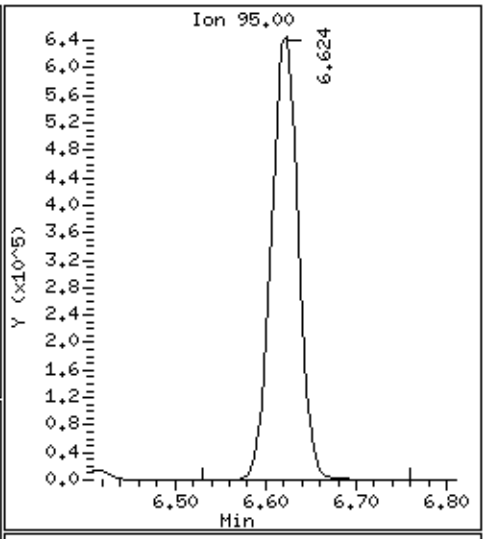
Column phase: RTX-624

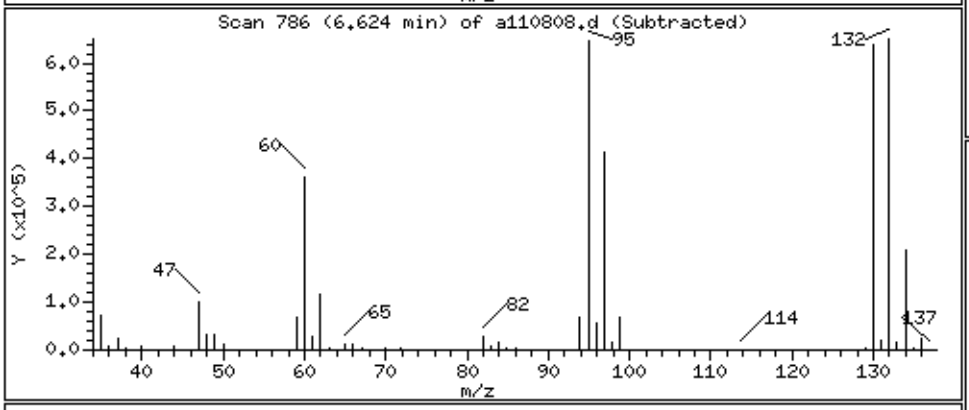
Column diameter: 0.25

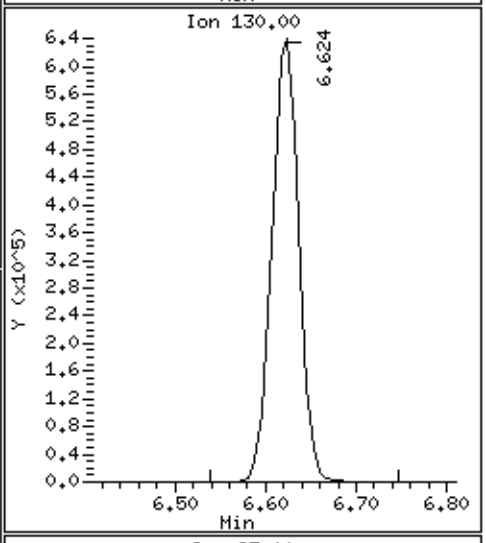
129 Trichloroethene

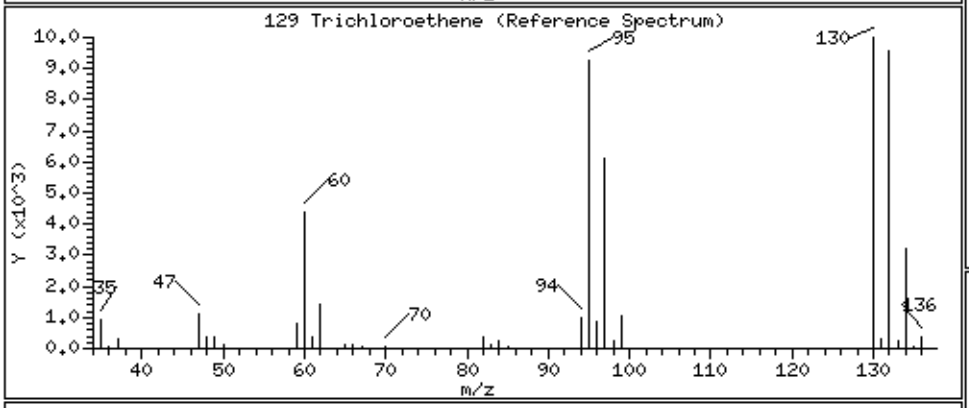
Concentration: 152.91 PPBV

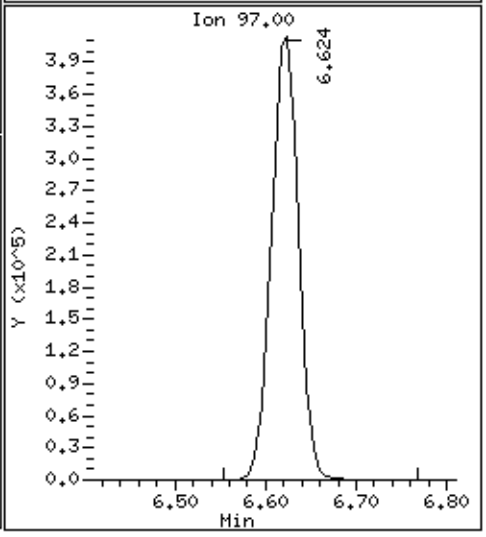


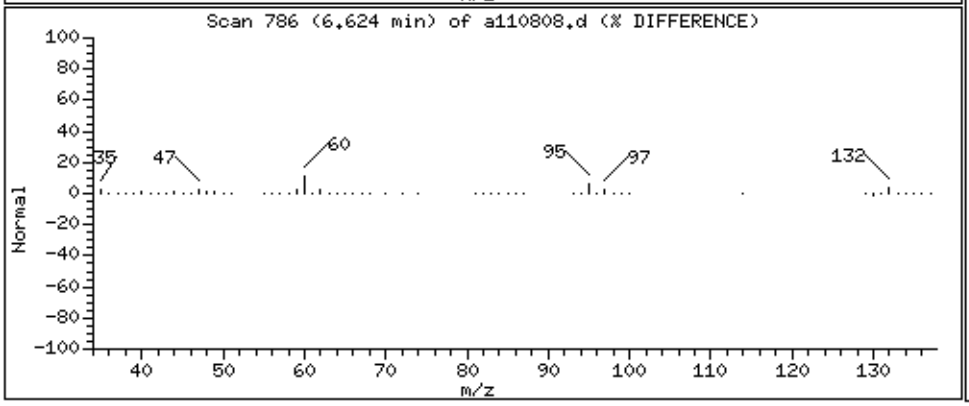












eurofins | Air Toxics

Client ID:	T1AMF-SV026_OCT24_FD		
Lab ID:	2410702A-14A	**Date/Time Analyzed:**	11/8/24 04:49 PM
Date/Time Collected:	10/24/24 01:41 PM	**Dilution Factor:**	2.19
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110809

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.1	3.9	4.3	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.3	5.9	6.6	Not Detected U
Benzene	71-43-2	0.61	3.1	3.5	0.72 J
cis-1,2-Dichloroethene	156-59-2	1.3	3.9	4.3	Not Detected U
Ethyl Benzene	100-41-4	1.8	4.3	4.8	Not Detected U
m,p-Xylene	108-38-3	1.7	4.3	9.5	Not Detected U
o-Xylene	95-47-6	1.7	4.3	4.8	Not Detected U
Toluene	108-88-3	0.91	3.7	8.2	Not Detected U
trans-1,2-Dichloroethene	156-60-5	1.6	3.9	4.3	Not Detected U
Trichloroethene	79-01-6	0.86	5.3	5.9	790
Vinyl Chloride	75-01-4	1.3	2.5	2.8	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	87
4-Bromofluorobenzene	460-00-4	70-130	96
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/08NOV24.b/a110809.d
Lab Smp Id: 2410702A-14A
Inj Date : 08-NOV-2024 16:49
Operator : DF Inst ID: msda.i
Smp Info : 200mL B2107
Misc Info : 7.1 Hg->9.9 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/08NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:27 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 2
Dil Factor: 2.19000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.421 (1.000)	130	283546	25.0000		80.00- 120.00	100.00
5.428	5.421 (1.000)	128	217072			46.45- 106.45	76.56
5.428	5.421 (1.000)	49	560933			167.12- 227.12	197.83
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.402 (1.000)	114	1049280	25.0000		80.00- 120.00	100.00
6.409	6.402 (1.000)	88	168990			0.00- 46.36	16.11
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.145 (1.000)	117	974530	25.0000		80.00- 120.00	100.00
9.146	9.145 (1.000)	82	535475			27.12- 87.12	54.95
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.008 (1.108)	65	429712	21.7840	21.784	80.00- 120.00	100.00
6.015	6.008 (1.108)	67	218047			23.36- 83.36	50.74
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.749 (1.209)	98	1105689	25.2735	25.274	80.00- 120.00	100.00
7.756	7.749 (1.209)	70	128379			0.00- 41.92	11.61

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.749 (1.209)	100	743233			39.07- 99.07	67.22
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	625286	24.0609	24.061	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	769214			89.27- 149.27	123.02
10.292	10.292 (1.125)	176	609081			66.29- 126.29	97.41
118 Benzene					CAS #: 71-43-2		
5.987	5.979 (0.933)	78	3752	0.10321	0.2260	80.00- 120.00	100.00(a)
5.994	5.979 (0.934)	77	802			0.00- 53.99	21.38
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.610 (1.031)	95	1245627	67.2057	147.18	80.00- 120.00	100.00
6.624	6.610 (1.032)	130	1240510			67.98- 127.98	99.59
6.624	6.610 (1.032)	97	810700			34.45- 94.45	65.08

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110809.d
Lab Smp Id: 2410702A-14A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 7.1 Hg->9.9 psi

Calibration Date: 08-NOV-2024
Calibration Time: 12:27
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	291309	174785	407833	283546	-2.66
126 1,4-Difluorobenze	982121	589273	1374969	1049280	6.84
165 Chlorobenzene-d5	925746	555448	1296044	974530	5.27

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.42	5.09	5.75	5.43	0.13
126 1,4-Difluorobenze	6.40	6.07	6.73	6.42	0.22
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 09:31

US32TAR1

RECOVERY REPORT

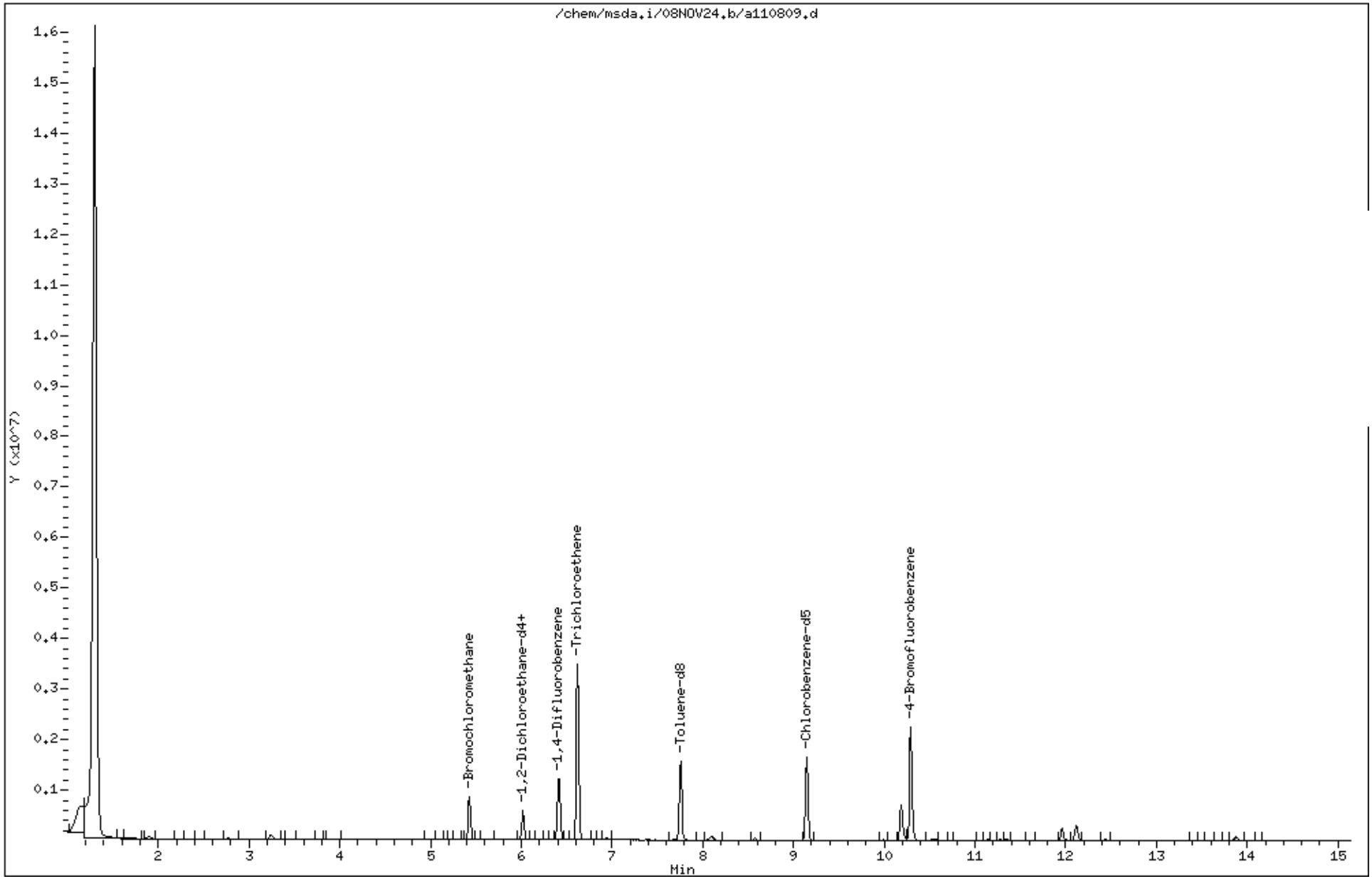
Client Name: Client SDG: 08NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-14A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 7.1 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	21.784	87.14	70-130
$ 152 Toluene-d8	25.000	25.274	101.09	70-130
$ 191 4-Bromofluorobenz	25.000	24.061	96.24	70-130

Data File: /chem/msda.i/08NOV24.b/a110809.d
Date : 08-NOV-2024 16:49
Client ID:
Sample Info: 200mL B2107

Instrument: msda.i
Operator: DF
Column diameter: 0.25

Column phase: RTX-624



Data File: /chem/msda.i/08NOV24.b/a110809.d

Date : 08-NOV-2024 16:49

Client ID:

Instrument: msda.i

Sample Info: 200mL B2107

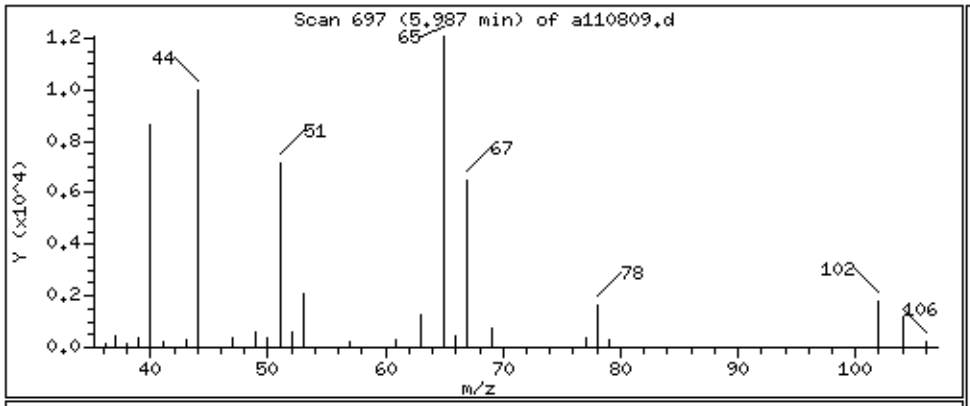
Operator: DF

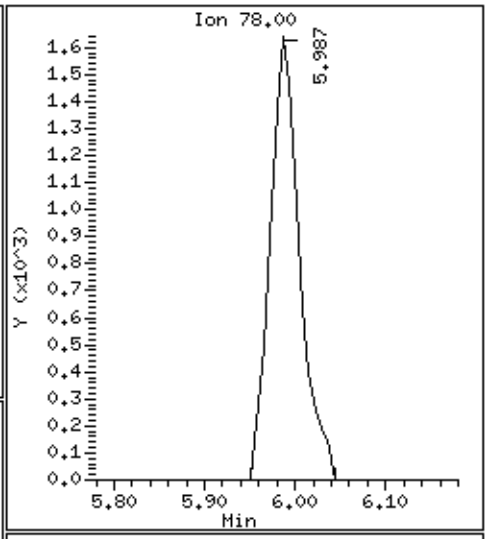
Column phase: RTX-624

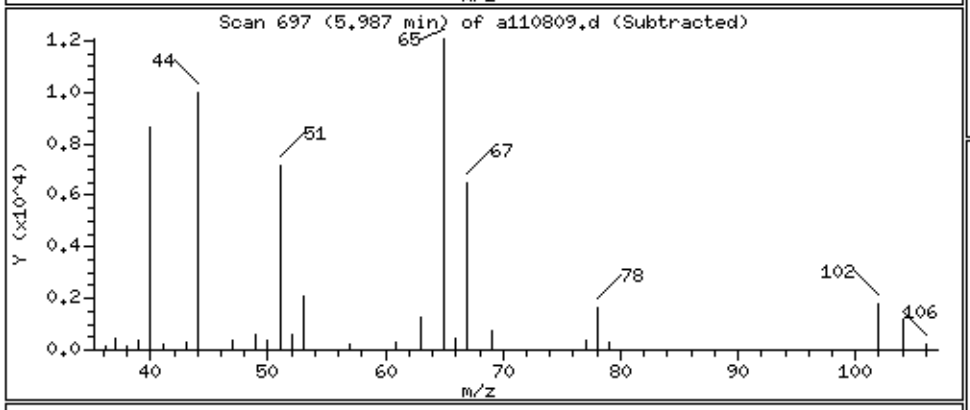
Column diameter: 0.25

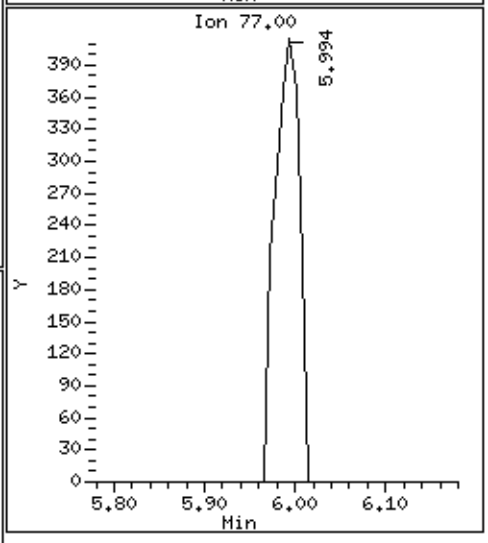
118 Benzene

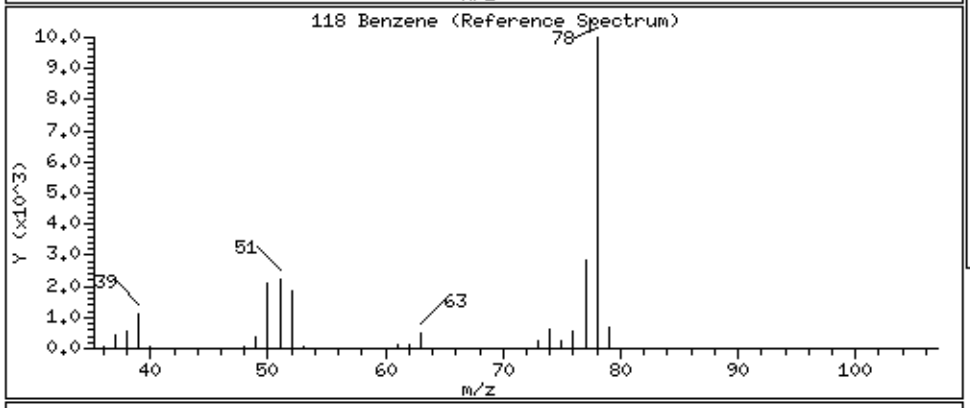
Concentration: 0.2260 PPBV

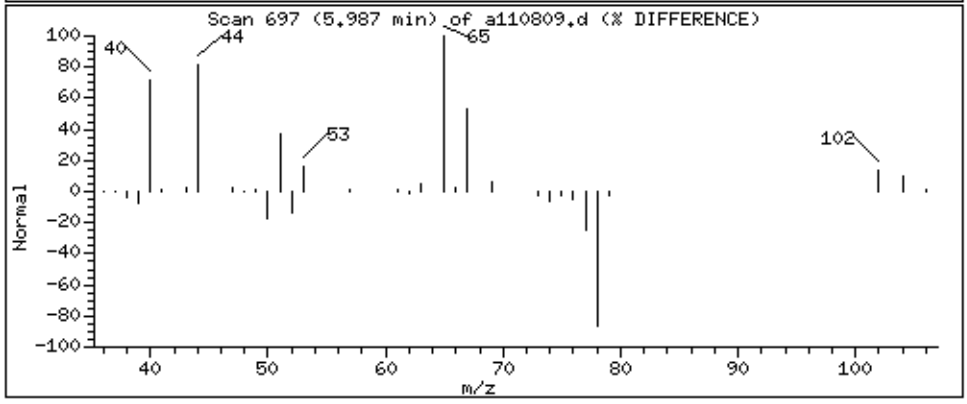












Data File: /chem/msda.i/08NOV24.b/a110809.d

Date : 08-NOV-2024 16:49

Client ID:

Instrument: msda.i

Sample Info: 200mL B2107

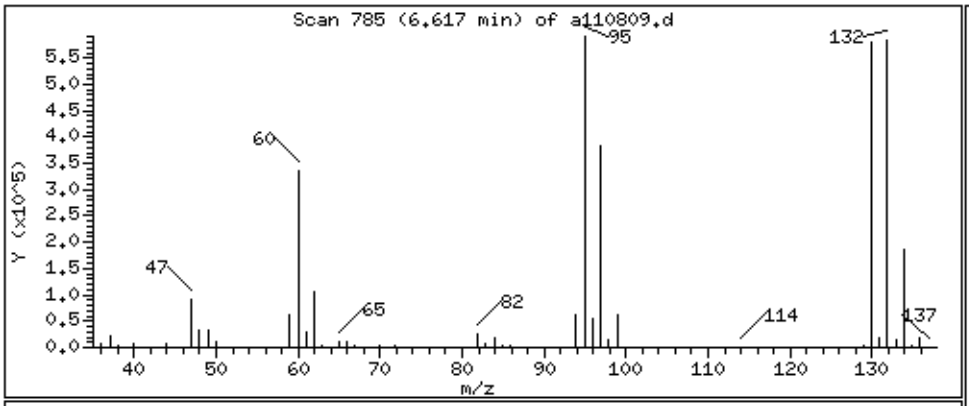
Operator: DF

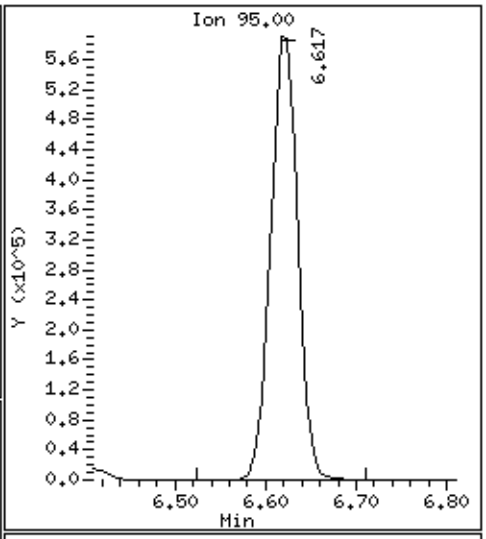
Column phase: RTX-624

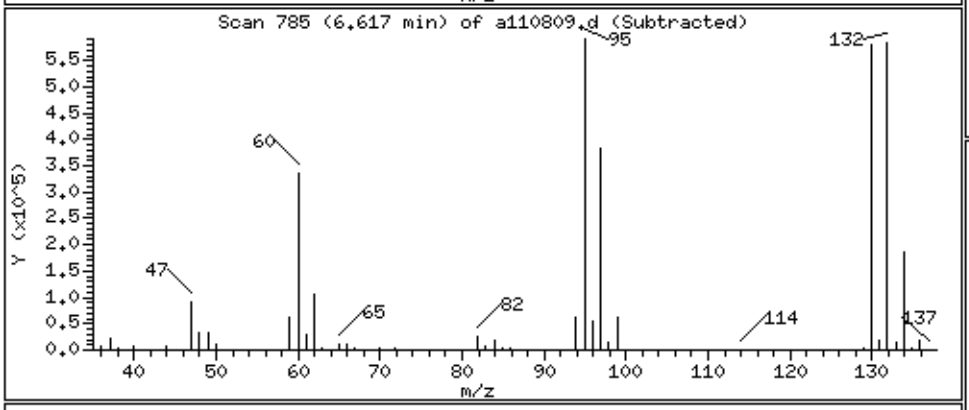
Column diameter: 0.25

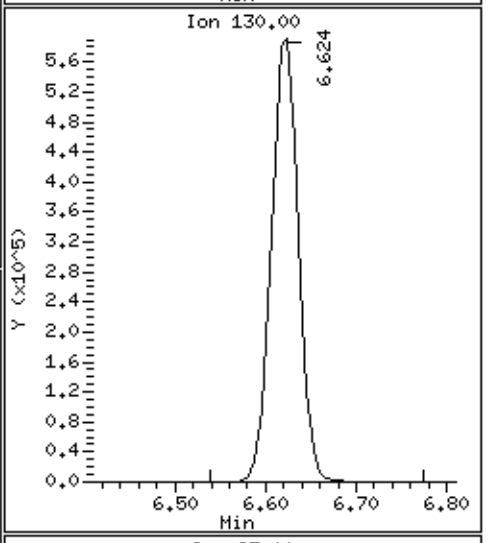
129 Trichloroethene

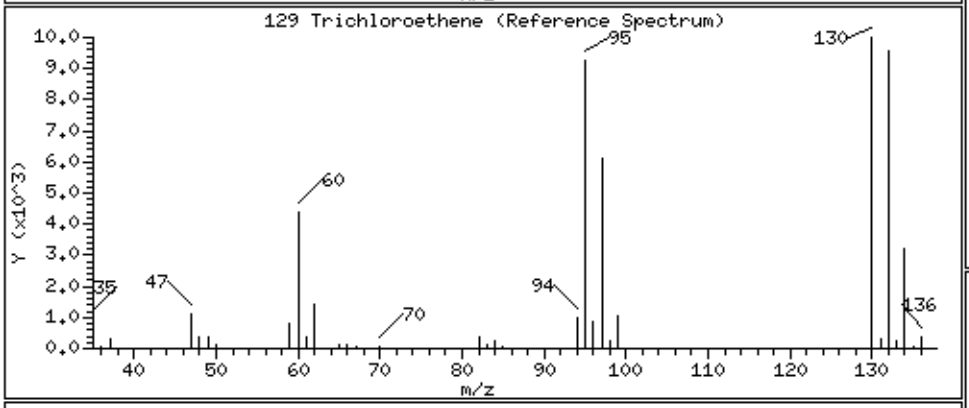
Concentration: 147.18 PPBV

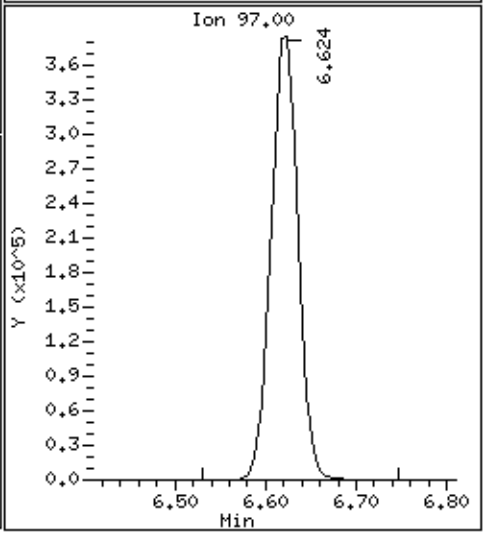


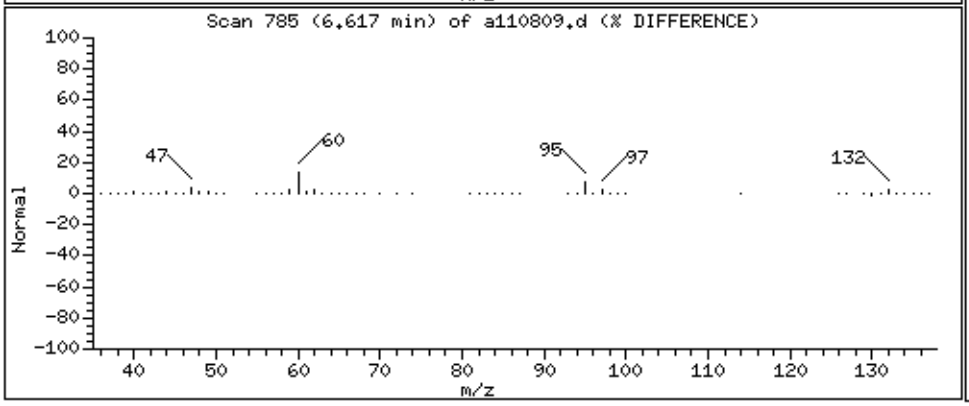












eurofins | Air Toxics

Client ID:	T1AMF-SV035_OCT24		
Lab ID:	2410702A-15A	**Date/Time Analyzed:**	11/8/24 05:26 PM
Date/Time Collected:	10/24/24 02:59 PM	**Dilution Factor:**	2.48
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110810

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.2	4.4	4.9	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.6	6.7	7.4	Not Detected U
Benzene	71-43-2	0.69	3.6	4.0	2.2 J
cis-1,2-Dichloroethene	156-59-2	1.5	4.4	4.9	Not Detected U
Ethyl Benzene	100-41-4	2.0	4.8	5.4	Not Detected U
m,p-Xylene	108-38-3	1.9	4.8	11	Not Detected U
o-Xylene	95-47-6	1.9	4.8	5.4	Not Detected U
Toluene	108-88-3	1.0	4.2	9.3	1.3 J
trans-1,2-Dichloroethene	156-60-5	1.9	4.4	4.9	Not Detected U
Trichloroethene	79-01-6	0.98	6.0	6.7	1800
Vinyl Chloride	75-01-4	1.5	2.8	3.2	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	87
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/08NOV24.b/a110810.d
Lab Smp Id: 2410702A-15A
Inj Date : 08-NOV-2024 17:26
Operator : DF Inst ID: msda.i
Smp Info : 200mL N7919
Misc Info : 9.8 Hg->9.8 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/08NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:27 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 3
Dil Factor: 2.48000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 100 Bromochloromethane						CAS #: 74-97-5	
5.428	5.421 (1.000)	130	282416	25.0000		80.00- 120.00	100.00
5.428	5.421 (1.000)	128	217846			46.45- 106.45	77.14
5.428	5.421 (1.000)	49	555672			167.12- 227.12	196.76
* 126 1,4-Difluorobenzene						CAS #: 540-36-3	
6.416	6.402 (1.000)	114	1035556	25.0000		80.00- 120.00	100.00
6.416	6.402 (1.000)	88	165056			0.00- 46.36	15.94
* 165 Chlorobenzene-d5						CAS #: 3114-55-4	
9.146	9.145 (1.000)	117	965349	25.0000		80.00- 120.00	100.00
9.146	9.145 (1.000)	82	545268			27.12- 87.12	56.48
$ 119 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
6.015	6.008 (1.108)	65	426700	21.7178	21.718	80.00- 120.00	100.00
6.015	6.008 (1.108)	67	213063			23.36- 83.36	49.93
$ 152 Toluene-d8						CAS #: 2037-26-5	
7.756	7.749 (1.209)	98	1089822	25.2410	25.241	80.00- 120.00	100.00
7.756	7.749 (1.209)	70	127395			0.00- 41.92	11.69

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.749 (1.209)	100	740716			39.07- 99.07	67.97
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	594193	23.0819	23.082	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	732186			89.27- 149.27	123.22
10.292	10.292 (1.125)	176	574560			66.29- 126.29	96.70
118 Benzene					CAS #: 71-43-2		
5.987	5.979 (0.933)	78	9811	0.27345	0.6782	80.00- 120.00	100.00(a)
5.987	5.979 (0.933)	77	2557			0.00- 53.99	26.06
129 Trichloroethene					CAS #: 79-01-6		
6.624	6.610 (1.032)	95	2482248	135.700	336.54	80.00- 120.00	100.00
6.624	6.610 (1.032)	130	2416961			67.98- 127.98	97.37
6.624	6.610 (1.032)	97	1604821			34.45- 94.45	64.65
153 Toluene					CAS #: 108-88-3		
7.820	7.813 (1.219)	91	6451	0.13688	0.3394	80.00- 120.00	100.00(a)
7.820	7.813 (1.219)	92	3803			27.69- 87.69	58.95

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Report Date: 13-Nov-2024 09:31

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110810.d
Lab Smp Id: 2410702A-15A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 9.8 Hg->9.8 psi

Calibration Date: 08-NOV-2024
Calibration Time: 12:27
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	291309	174785	407833	282416	-3.05
126 1,4-Difluorobenze	982121	589273	1374969	1035556	5.44
165 Chlorobenzene-d5	925746	555448	1296044	965349	4.28

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.42	5.09	5.75	5.43	0.13
126 1,4-Difluorobenze	6.40	6.07	6.73	6.42	0.22
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 09:31

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 08NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-15A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 9.8 Hg->9.8 psi

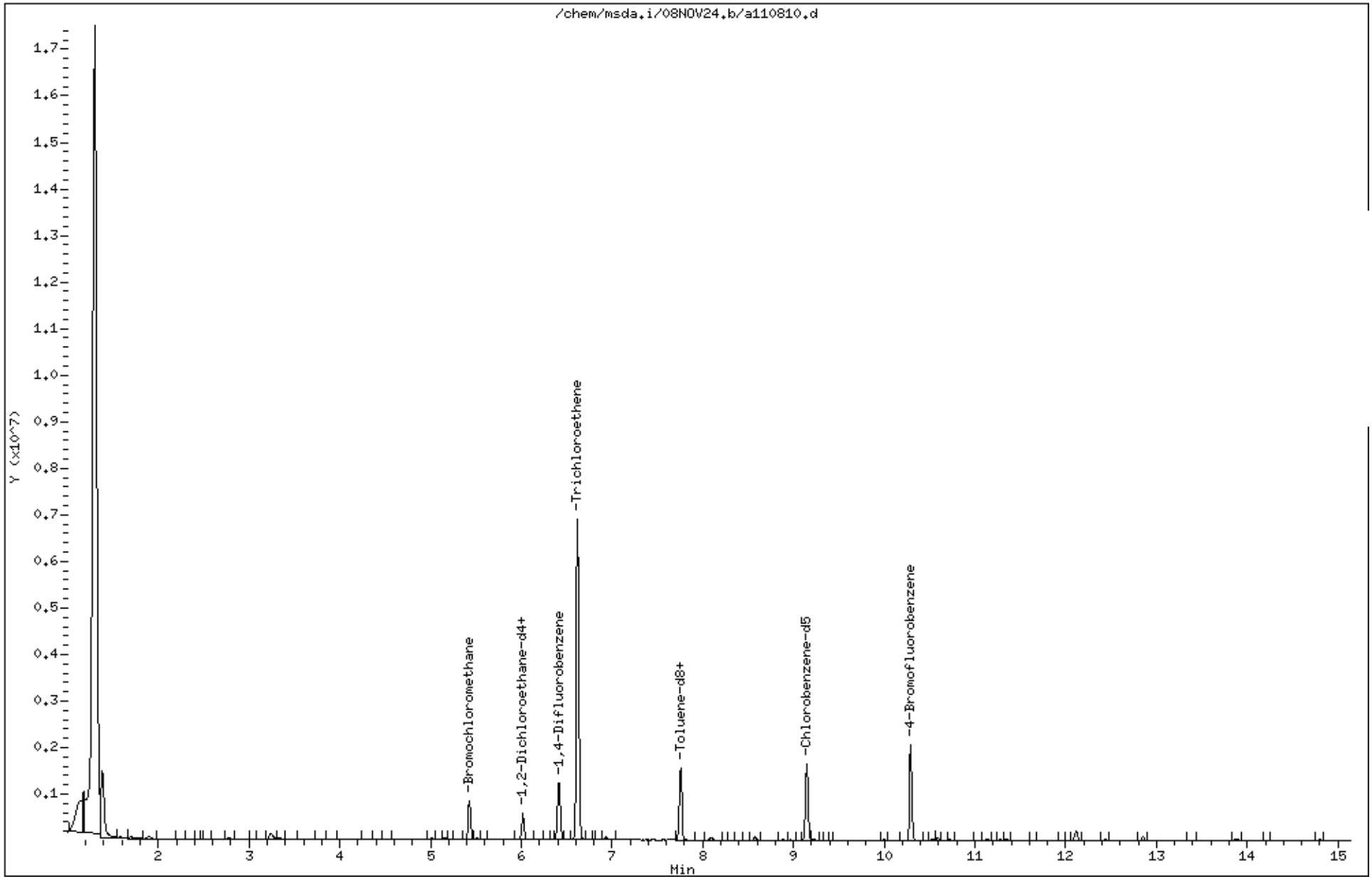
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	21.718	86.87	70-130
$ 152 Toluene-d8	25.000	25.241	100.96	70-130
$ 191 4-Bromofluorobenz	25.000	23.082	92.33	70-130

Data File: /chem/msda.i/08NOV24.b/a110810.d
Date : 08-NOV-2024 17:26
Client ID:
Sample Info: 200mL N7919

Instrument: msda.i

Operator: DF
Column diameter: 0.25

Column phase: RTX-624



Data File: /chem/msda.i/08NOV24.b/a110810.d

Date : 08-NOV-2024 17:26

Client ID:

Instrument: msda.i

Sample Info: 200mL N7919

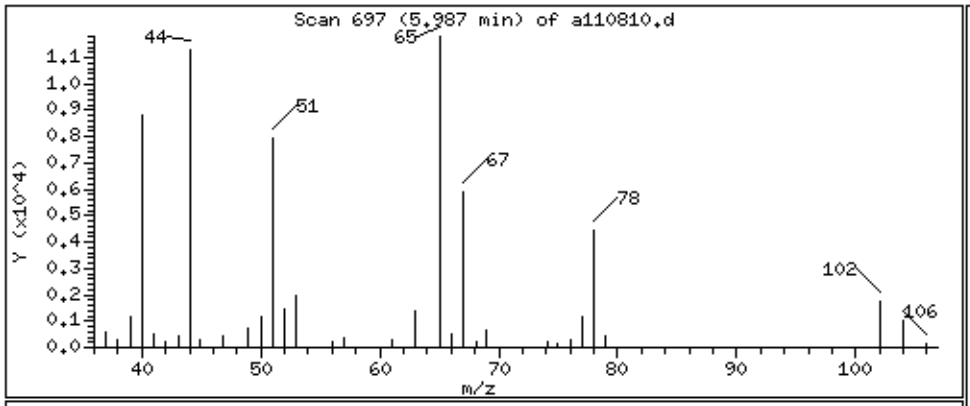
Operator: DF

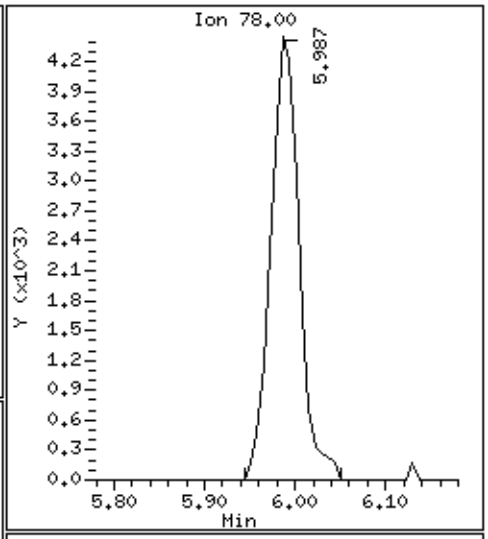
Column phase: RTX-624

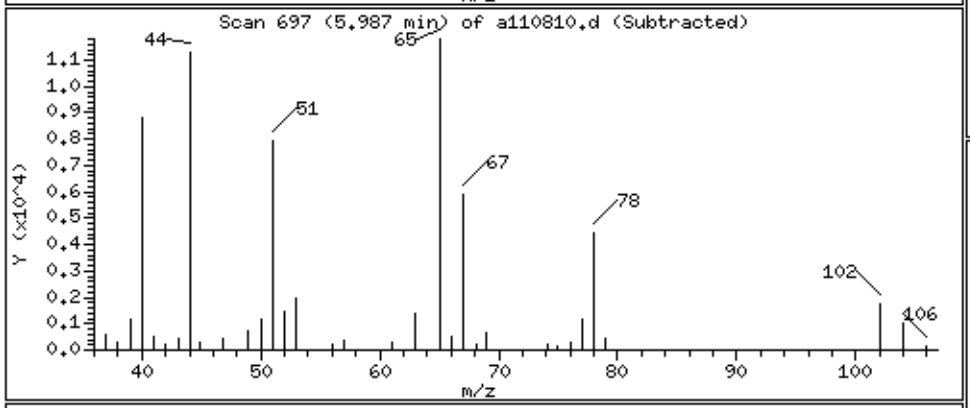
Column diameter: 0.25

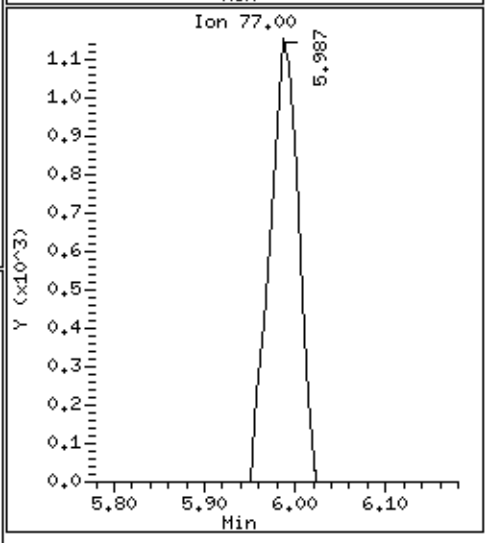
118 Benzene

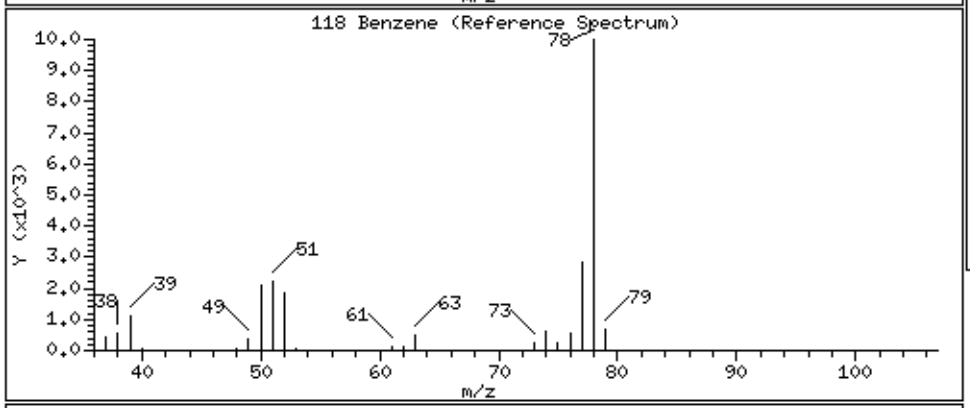
Concentration: 0.6782 PPBV

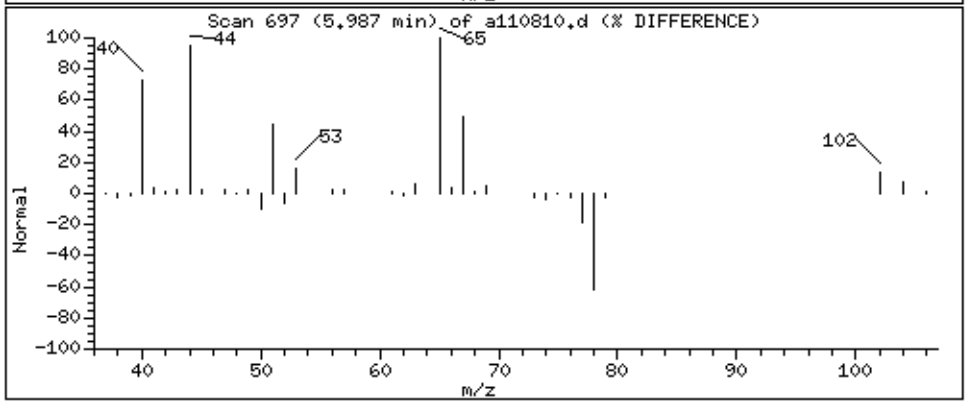












Data File: /chem/msda.i/08NOV24.b/a110810.d

Date : 08-NOV-2024 17:26

Client ID:

Instrument: msda.i

Sample Info: 200mL N7919

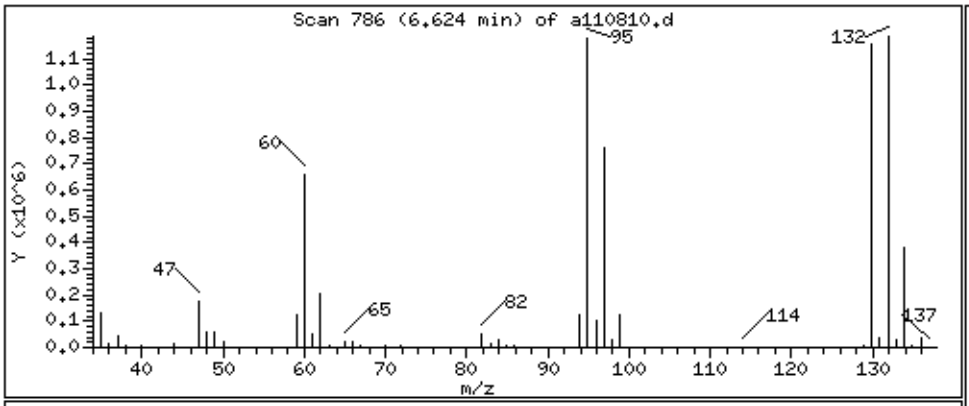
Operator: DF

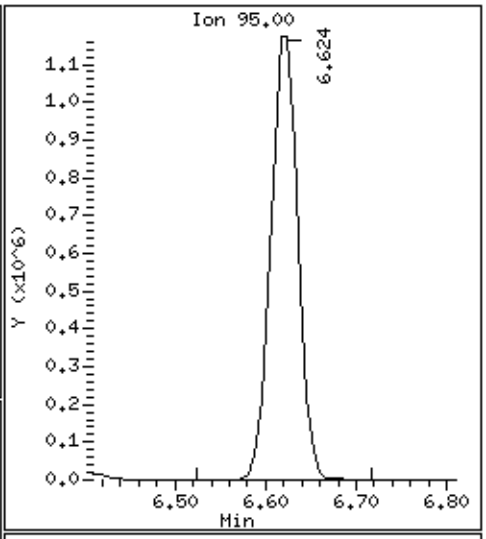
Column phase: RTX-624

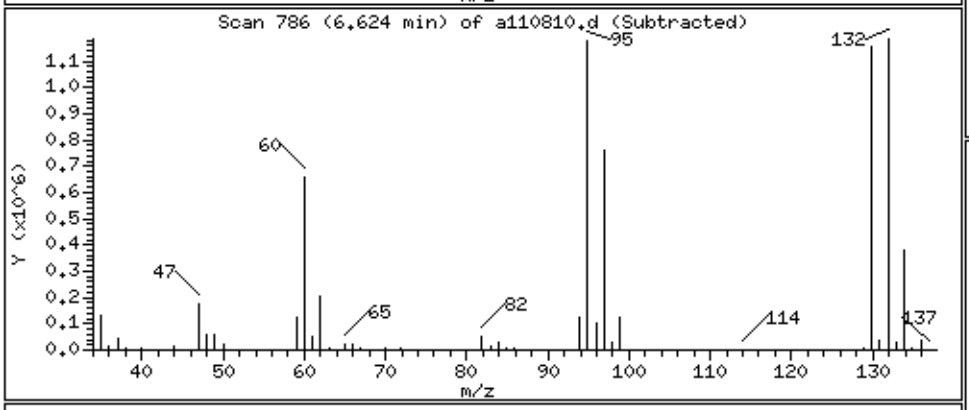
Column diameter: 0.25

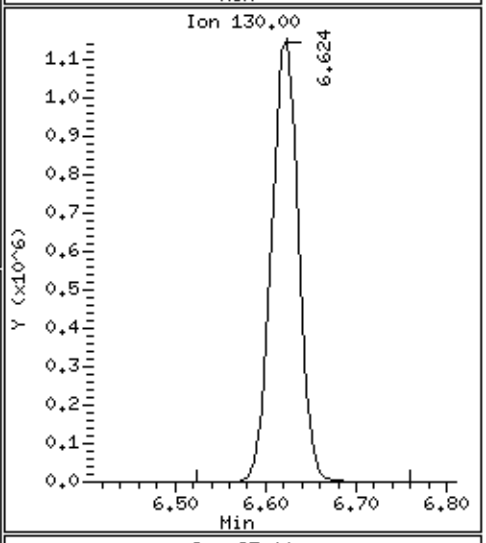
129 Trichloroethene

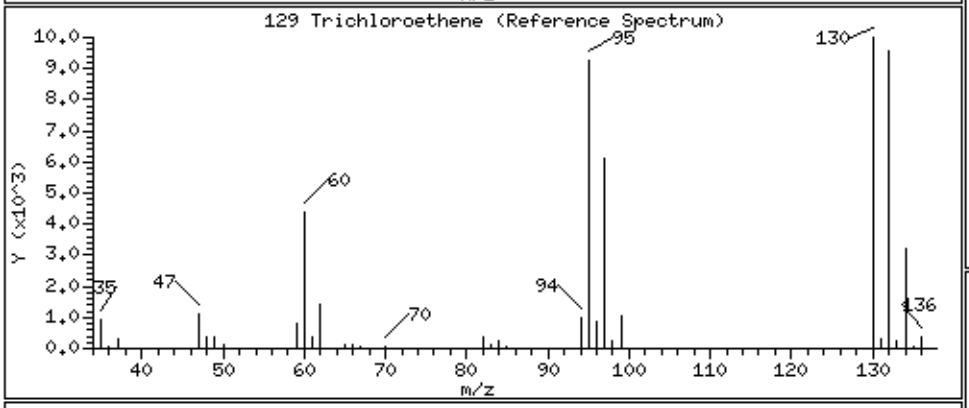
Concentration: 336.54 PPBV

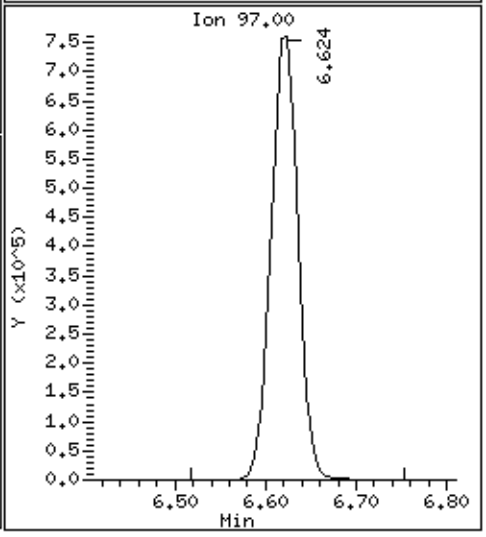


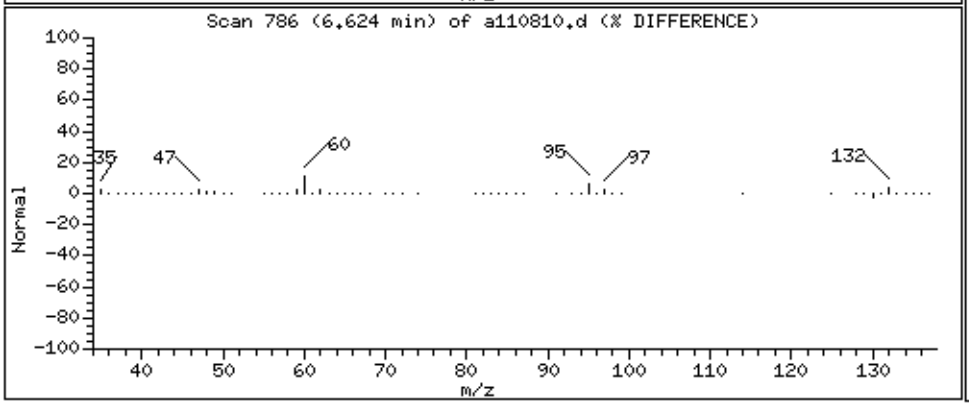












Data File: /chem/msda.i/08NOV24.b/a110810.d

Date : 08-NOV-2024 17:26

Client ID:

Instrument: msda.i

Sample Info: 200mL N7919

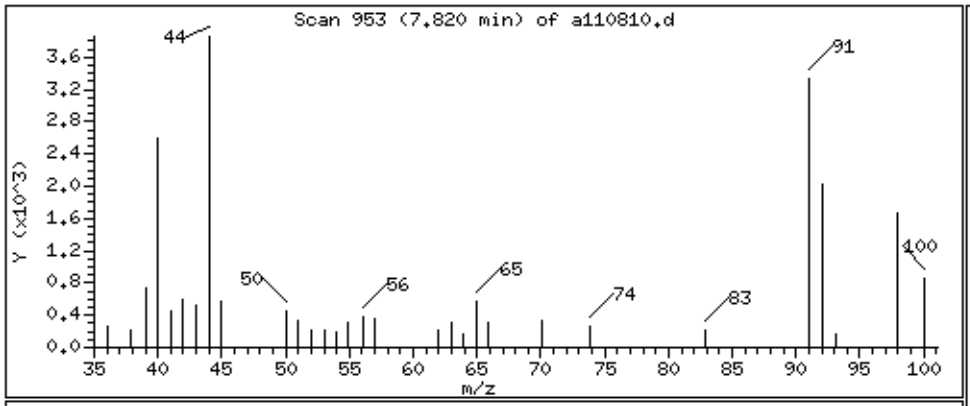
Operator: DF

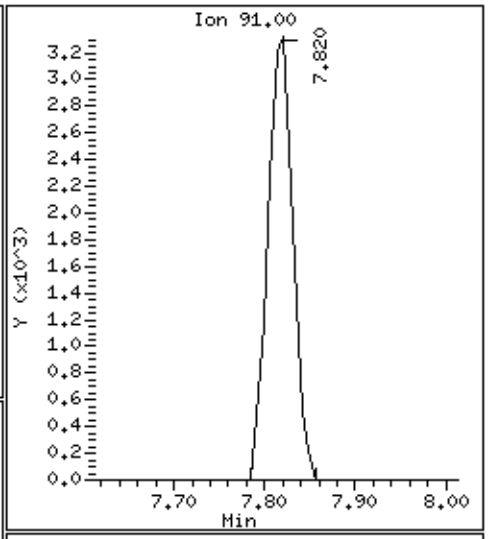
Column phase: RTX-624

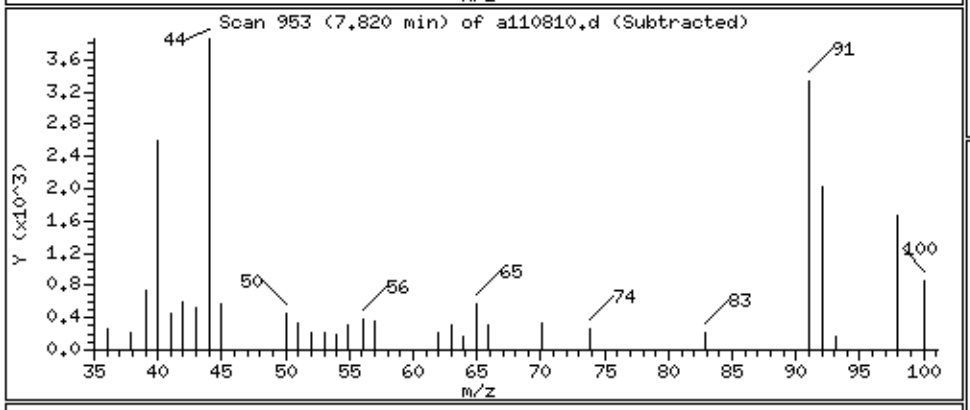
Column diameter: 0.25

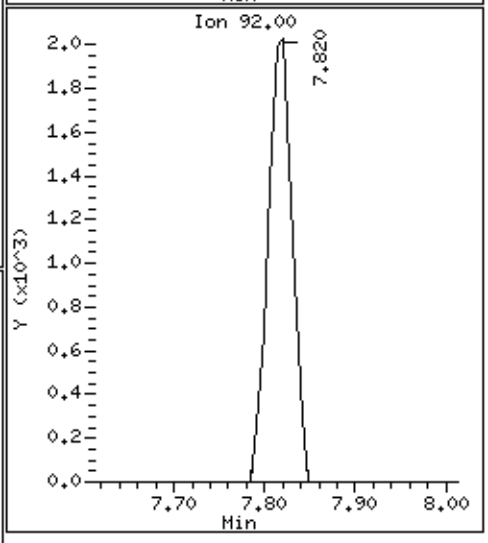
153 Toluene

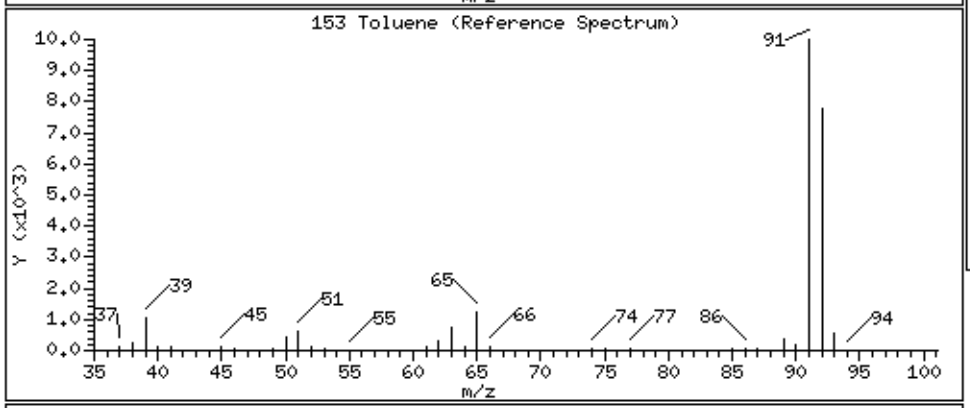
Concentration: 0.3394 PPBV

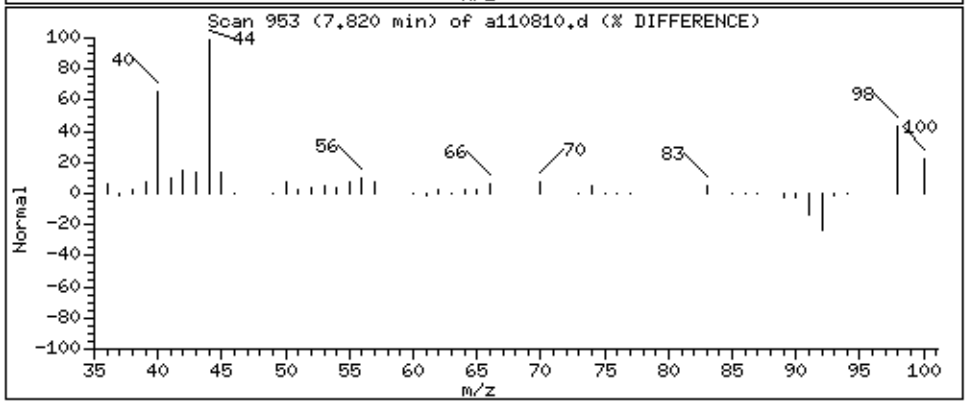












Client ID:	T1AMF-SV035_OCT24_FD		
Lab ID:	2410702A-16A	**Date/Time Analyzed:**	11/8/24 06:03 PM
Date/Time Collected:	10/24/24 03:00 PM	**Dilution Factor:**	2.27
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a110811

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.1	4.0	4.5	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.4	6.1	6.8	Not Detected U
Benzene	71-43-2	0.63	3.3	3.6	1.8 J
cis-1,2-Dichloroethene	156-59-2	1.4	4.0	4.5	Not Detected U
Ethyl Benzene	100-41-4	1.9	4.4	4.9	Not Detected U
m,p-Xylene	108-38-3	1.8	4.4	9.8	Not Detected U
o-Xylene	95-47-6	1.7	4.4	4.9	Not Detected U
Toluene	108-88-3	0.94	3.8	8.6	1.4 J
trans-1,2-Dichloroethene	156-60-5	1.7	4.0	4.5	Not Detected U
Trichloroethene	79-01-6	0.89	5.5	6.1	1800
Vinyl Chloride	75-01-4	1.3	2.6	2.9	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	89
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/08NOV24.b/a110811.d
Lab Smp Id: 2410702A-16A
Inj Date : 08-NOV-2024 18:03
Operator : DF Inst ID: msda.i
Smp Info : 200mL N6413
Misc Info : 7.8 Hg->10 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/08NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:27 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 4
Dil Factor: 2.27000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane						CAS #: 74-97-5	
5.428	5.421 (1.000)	130	279542	25.0000		80.00- 120.00	100.00
5.435	5.421 (1.000)	128	212208			46.45- 106.45	75.91
5.428	5.421 (1.000)	49	559947			167.12- 227.12	200.31
* 126 1,4-Difluorobenzene						CAS #: 540-36-3	
6.416	6.402 (1.000)	114	1026827	25.0000		80.00- 120.00	100.00
6.416	6.402 (1.000)	88	168564			0.00- 46.36	16.42
* 165 Chlorobenzene-d5						CAS #: 3114-55-4	
9.153	9.145 (1.000)	117	959167	25.0000		80.00- 120.00	100.00
9.145	9.145 (1.000)	82	544530			27.12- 87.12	56.77
$ 119 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
6.022	6.008 (1.110)	65	430824	22.1532	22.153	80.00- 120.00	100.00
6.022	6.008 (1.110)	67	209359			23.36- 83.36	48.60
$ 152 Toluene-d8						CAS #: 2037-26-5	
7.756	7.749 (1.209)	98	1085440	25.3532	25.353	80.00- 120.00	100.00
7.756	7.749 (1.209)	70	123165			0.00- 41.92	11.35

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.749 (1.209)	100	735482			39.07- 99.07	67.76
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.291	10.292 (1.124)	174	591806	23.1374	23.137	80.00- 120.00	100.00
10.291	10.292 (1.124)	95	724624			89.27- 149.27	122.44
10.291	10.292 (1.124)	176	567404			66.29- 126.29	95.88
118 Benzene					CAS #: 71-43-2		
5.986	5.979 (0.933)	78	8940	0.25130	0.5704	80.00- 120.00	100.00(a)
5.986	5.979 (0.933)	77	2292			0.00- 53.99	25.64
129 Trichloroethene					CAS #: 79-01-6		
6.624	6.610 (1.032)	95	2751673	151.708	344.38	80.00- 120.00	100.00
6.624	6.610 (1.032)	130	2702375			67.98- 127.98	98.21
6.624	6.610 (1.032)	97	1779566			34.45- 94.45	64.67
153 Toluene					CAS #: 108-88-3		
7.820	7.813 (1.219)	91	7603	0.16269	0.3693	80.00- 120.00	100.00(a)
7.820	7.813 (1.219)	92	3962			27.69- 87.69	52.11

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110811.d
Lab Smp Id: 2410702A-16A
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 7.8 Hg->10 psi

Calibration Date: 08-NOV-2024
Calibration Time: 12:27
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	291309	174785	407833	279542	-4.04
126 1,4-Difluorobenze	982121	589273	1374969	1026827	4.55
165 Chlorobenzene-d5	925746	555448	1296044	959167	3.61

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.42	5.09	5.75	5.43	0.13
126 1,4-Difluorobenze	6.40	6.07	6.73	6.42	0.22
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 09:31

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 08NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702A-16A
Level: LOW Operator: DF
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 7.8 Hg->10 psi

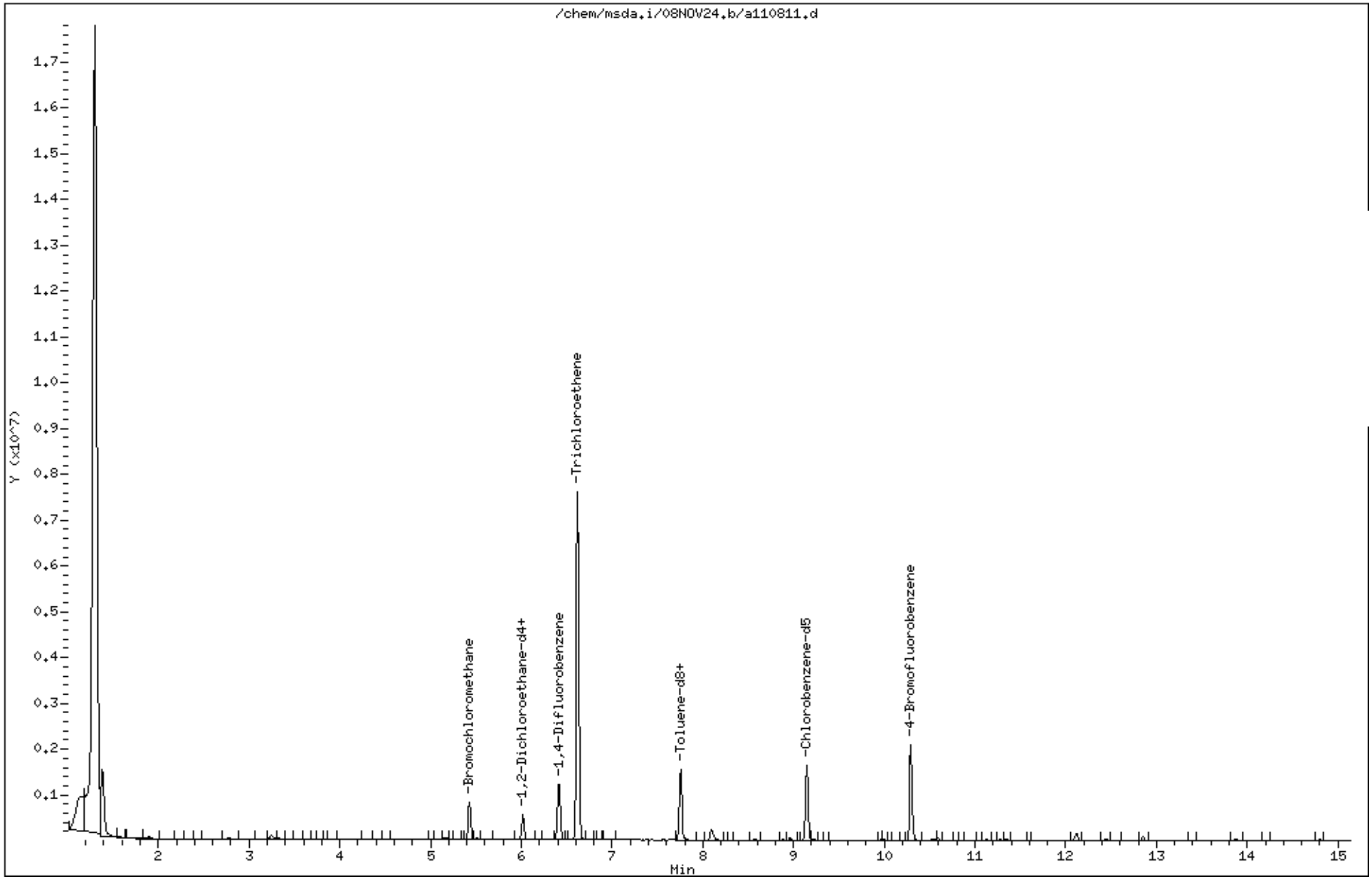
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.153	88.61	70-130
$ 152 Toluene-d8	25.000	25.353	101.41	70-130
$ 191 4-Bromofluorobenz	25.000	23.137	92.55	70-130

Data File: /chem/msda.i/08NOV24.b/a110811.d
Date : 08-NOV-2024 18:03
Client ID:
Sample Info: 200mL N6413

Instrument: msda.i

Operator: DF
Column diameter: 0.25

Column phase: RTX-624



Data File: /chem/msda.i/08NOV24.b/a110811.d

Date : 08-NOV-2024 18:03

Client ID:

Instrument: msda.i

Sample Info: 200mL N6413

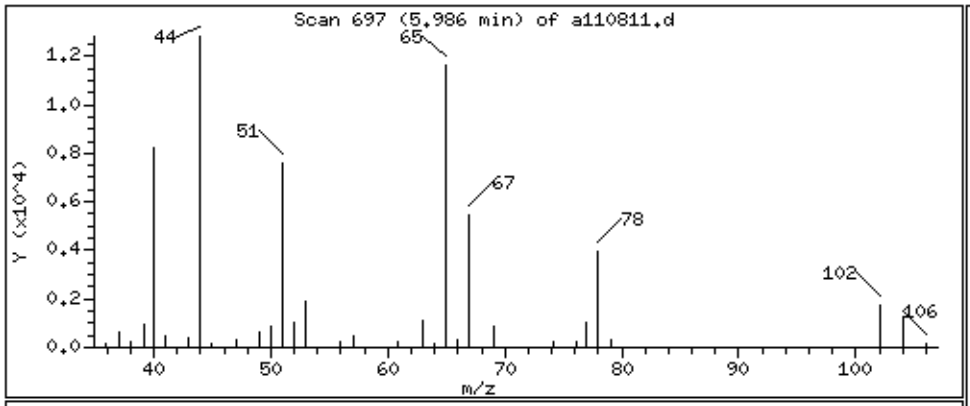
Operator: DF

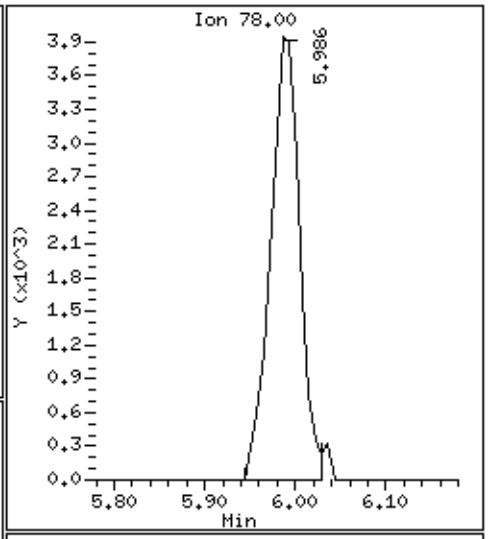
Column phase: RTX-624

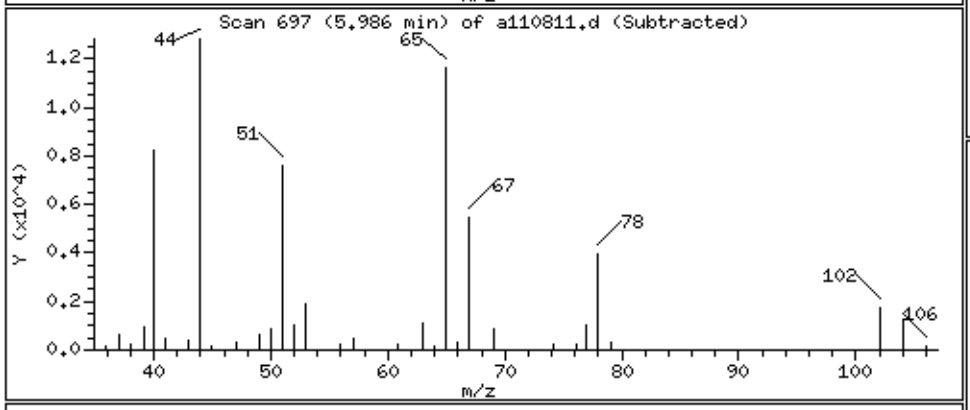
Column diameter: 0.25

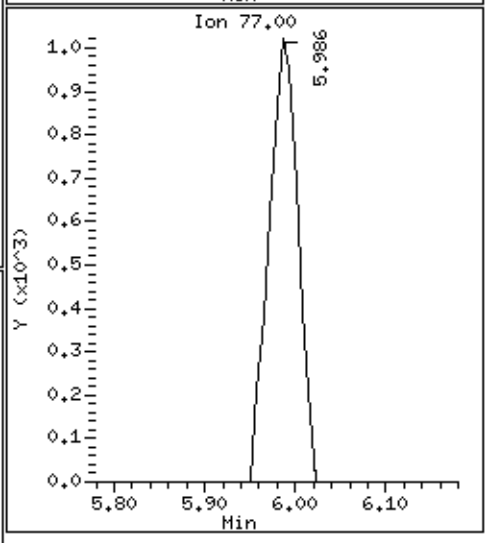
118 Benzene

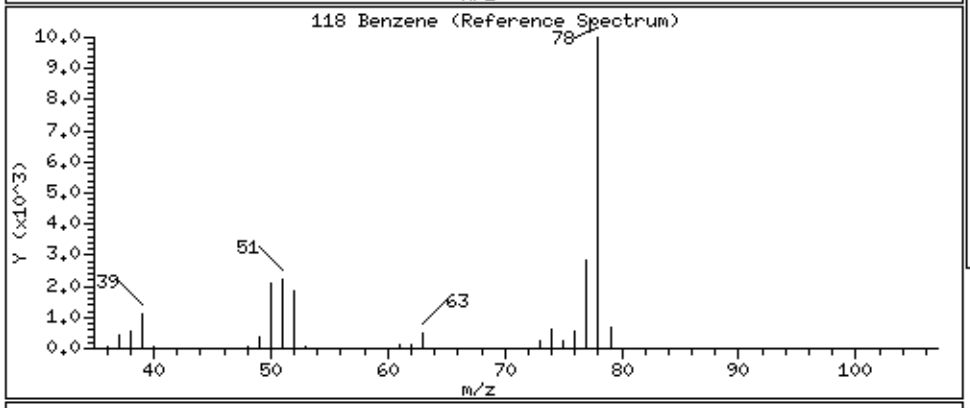
Concentration: 0.5704 PPBV

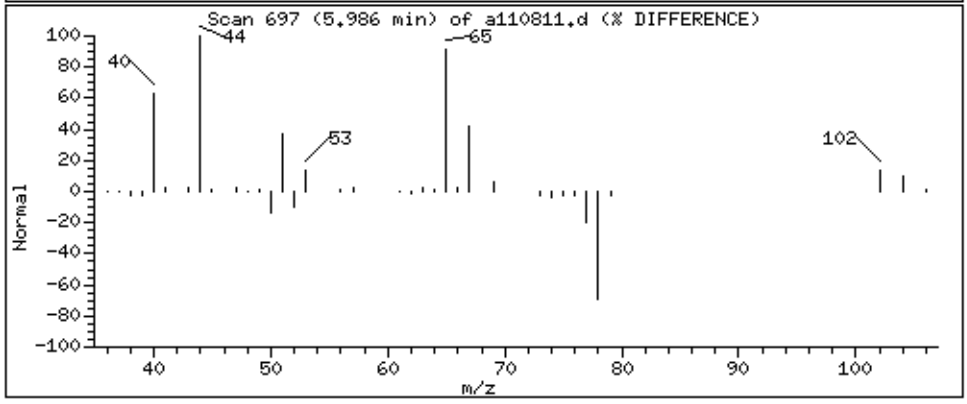












Data File: /chem/msda.i/08NOV24.b/a110811.d

Date : 08-NOV-2024 18:03

Client ID:

Instrument: msda.i

Sample Info: 200mL N6413

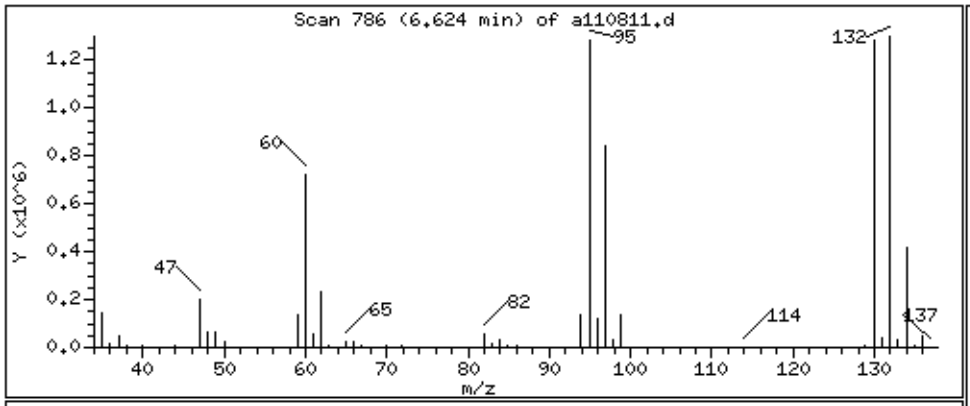
Operator: DF

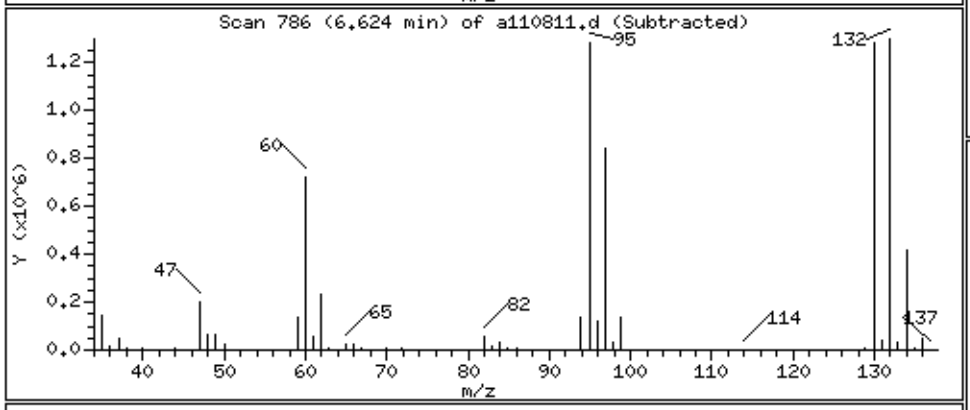
Column phase: RTX-624

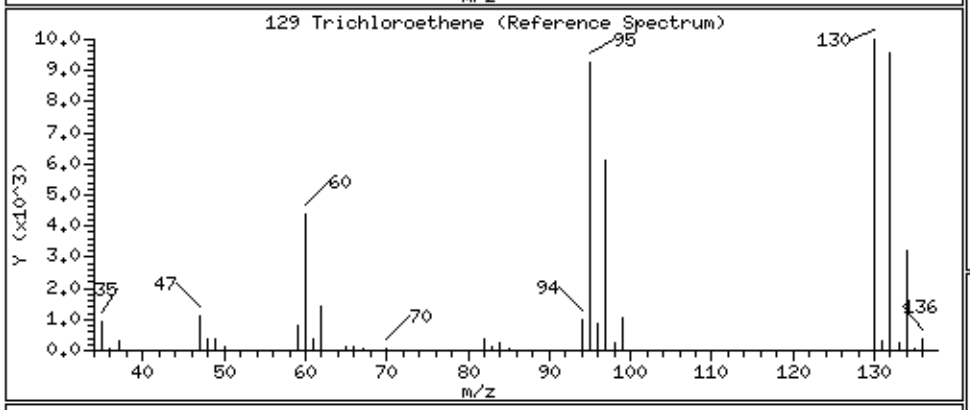
Column diameter: 0.25

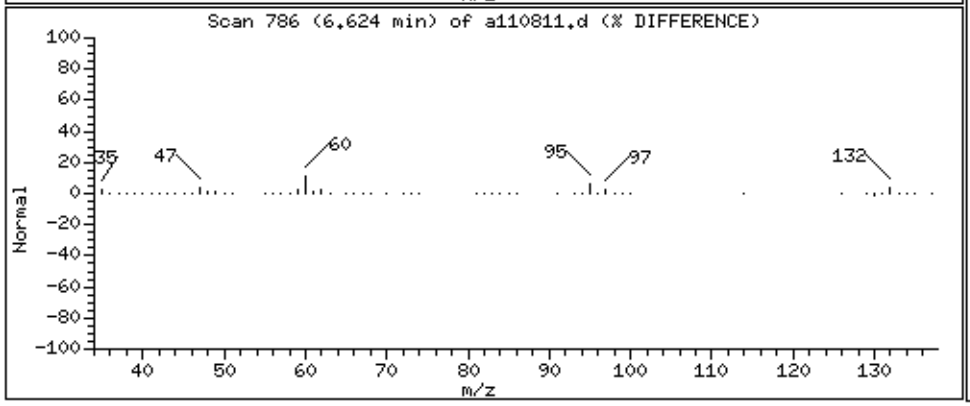
129 Trichloroethene

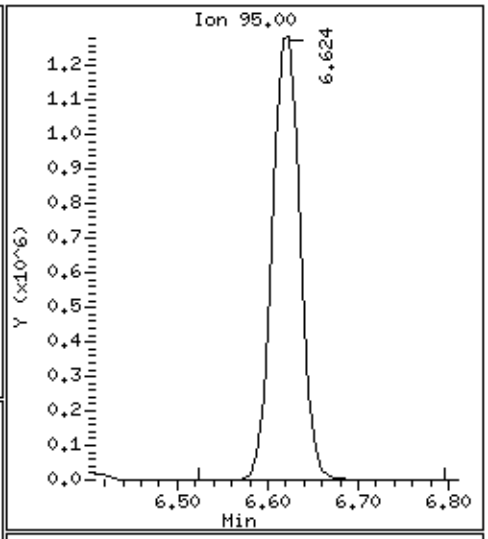
Concentration: 344.38 PPBV

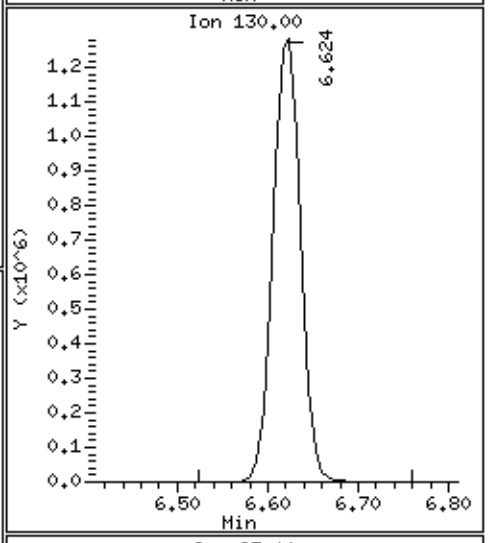


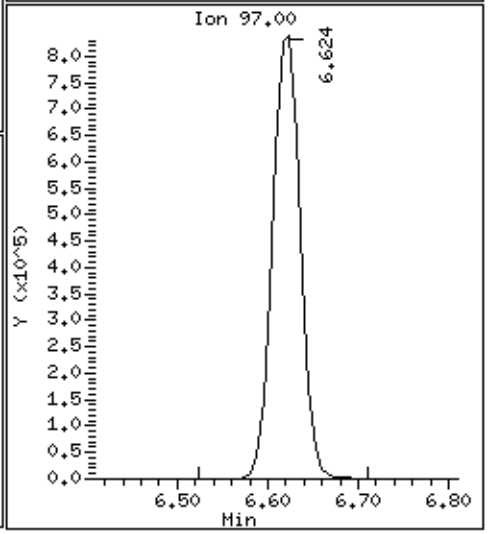












Data File: /chem/msda.i/08NOV24.b/a110811.d

Date : 08-NOV-2024 18:03

Client ID:

Instrument: msda.i

Sample Info: 200mL N6413

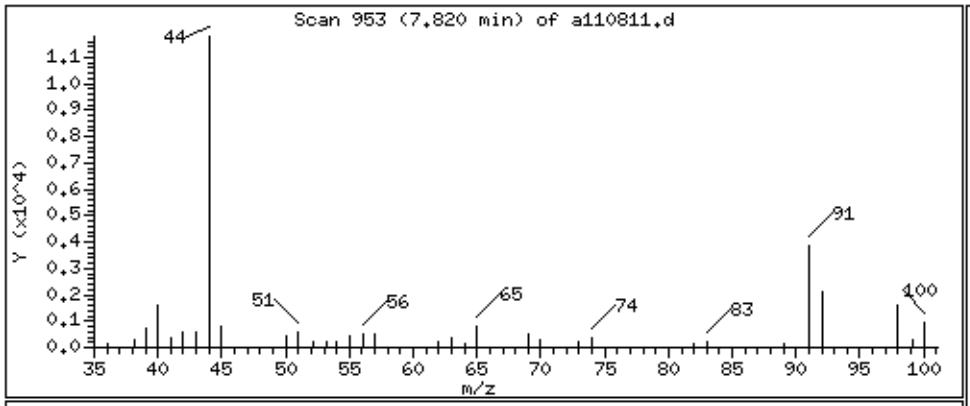
Operator: DF

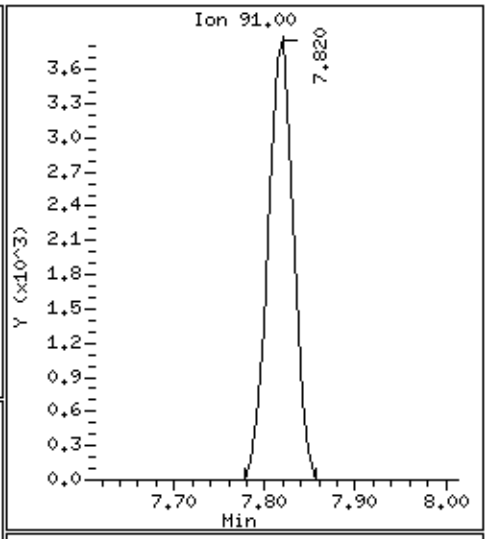
Column phase: RTX-624

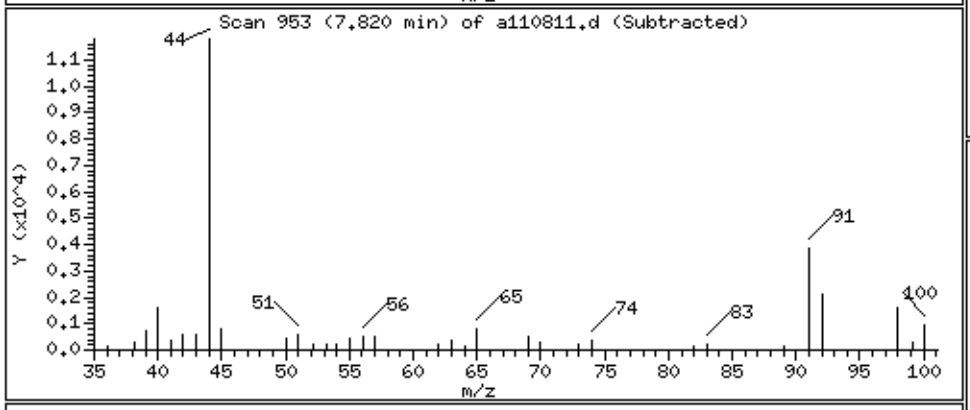
Column diameter: 0.25

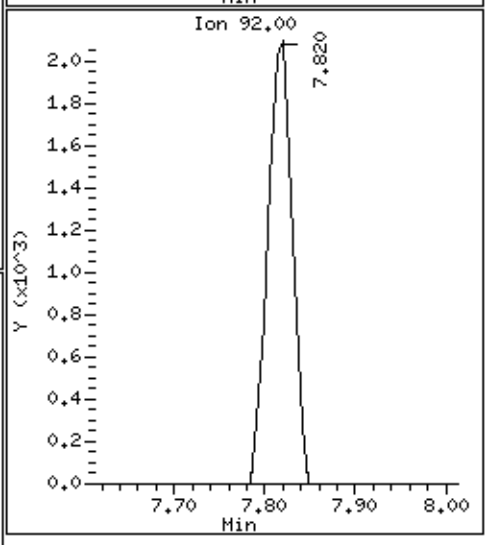
153 Toluene

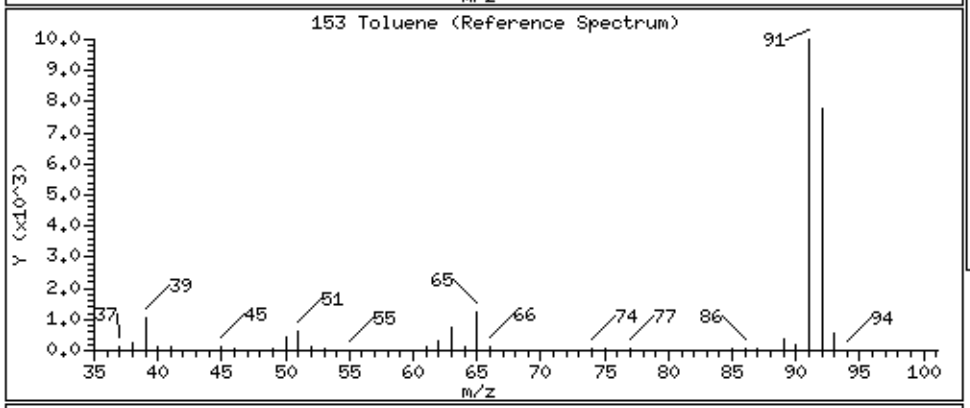
Concentration: 0.3693 PPBV

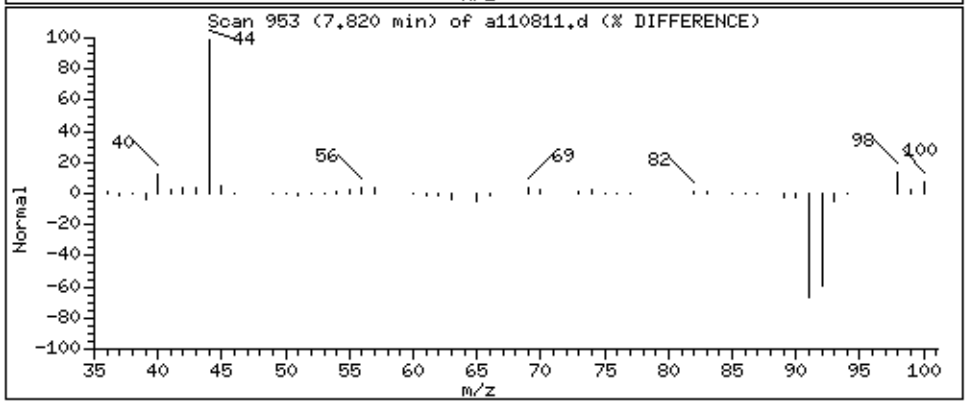












QC Results and Raw Data

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Client ID:	Lab Blank		
Lab ID:	2410702A-17A	**Date/Time Analyzed:**	11/7/24 01:34 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msda.i / a110706h

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.49	1.8	2.0	Not Detected U
1,4-Dichlorobenzene	106-46-7	1.0	2.7	3.0	Not Detected U
Benzene	71-43-2	0.28	1.4	1.6	Not Detected U
cis-1,2-Dichloroethene	156-59-2	0.60	1.8	2.0	Not Detected U
Ethyl Benzene	100-41-4	0.82	2.0	2.2	Not Detected U
m,p-Xylene	108-38-3	0.78	2.0	4.3	Not Detected U
o-Xylene	95-47-6	0.76	2.0	2.2	Not Detected U
Toluene	108-88-3	0.41	1.7	3.8	Not Detected U
trans-1,2-Dichloroethene	156-60-5	0.76	1.8	2.0	Not Detected U
Trichloroethene	79-01-6	0.39	2.4	2.7	Not Detected U
Vinyl Chloride	75-01-4	0.59	1.2	1.3	Not Detected U

U = The analyte was not detected above the MDL.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	87
4-Bromofluorobenzene	460-00-4	70-130	94
Toluene-d8	2037-26-5	70-130	102

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/07NOV24.b/a110706h.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 07-NOV-2024 13:34
Operator : MS Inst ID: msda.i
Smp Info : 200mL 6L2284
Misc Info : Humid
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/07NOV24.b/a24q0910a.m
Meth Date : 11-Nov-2024 14:42 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	302347	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	231955			46.45- 106.45	76.72
5.428	5.428 (1.000)	49	586389			167.12- 227.12	193.95
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	1104050	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	180686			0.00- 46.36	16.37
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	1048811	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	585757			27.12- 87.12	55.85
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	455613	21.6608	21.661	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	228113			23.36- 83.36	50.07
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	1177341	25.5763	25.576	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	134084			0.00- 41.92	11.39

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	785346			39.07- 99.07	66.71
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	653916	23.3805	23.380	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	791295			89.27- 149.27	121.01
10.292	10.292 (1.125)	176	627741			66.29- 126.29	96.00

Report Date: 13-Nov-2024 08:42

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110706h.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: Humid

Calibration Date: 07-NOV-2024
Calibration Time: 11:48
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	300803	180482	421124	302347	0.51
126 1,4-Difluorobenze	1130282	678169	1582395	1104050	-2.32
165 Chlorobenzene-d5	1024524	614714	1434334	1048811	2.37

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 08:42

US32TAR1

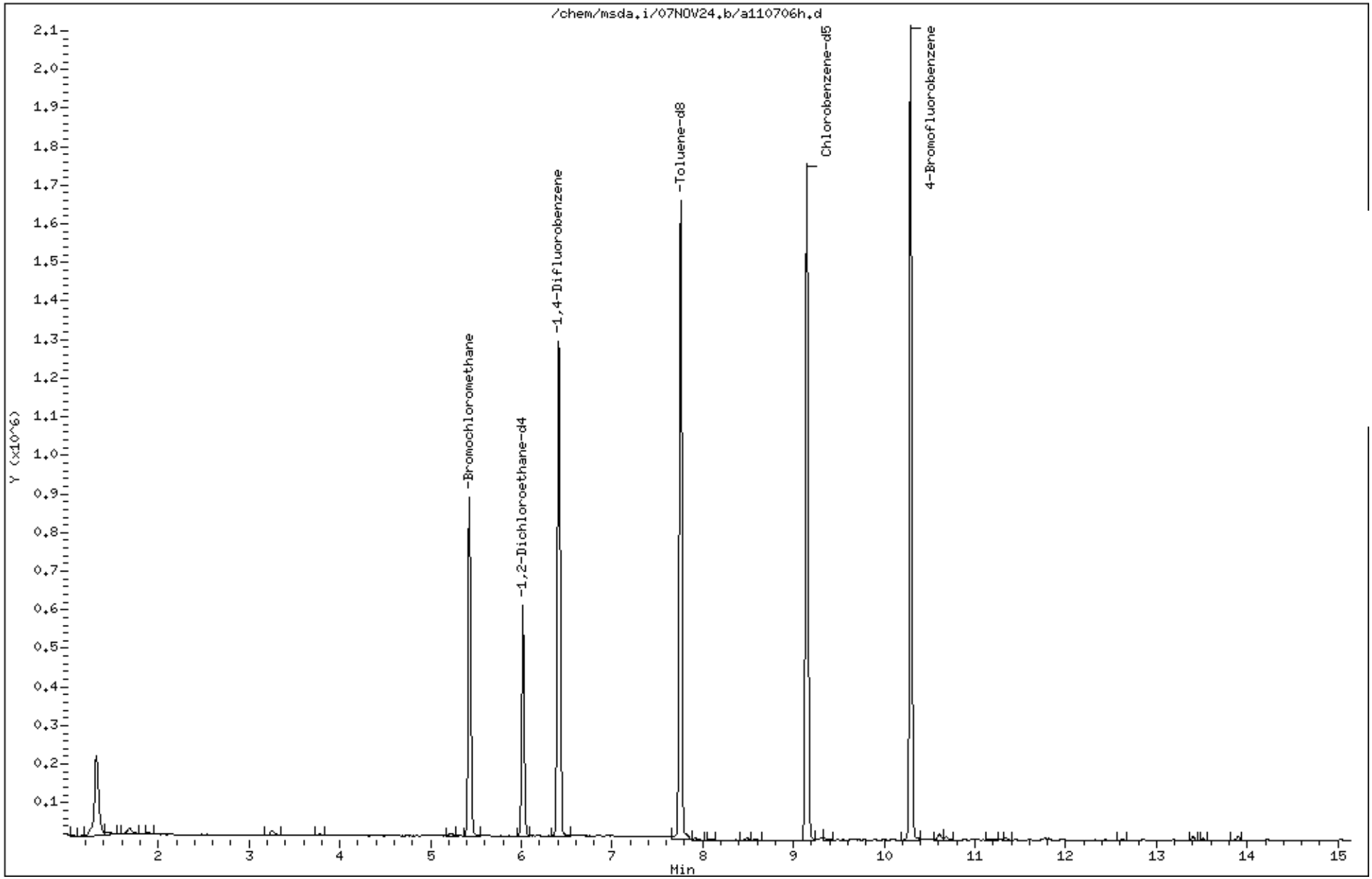
RECOVERY REPORT

Client Name: Client SDG: 07NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: MS
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	21.661	86.64	70-130
$ 152 Toluene-d8	25.000	25.576	102.31	70-130
$ 191 4-Bromofluorobenz	25.000	23.380	93.52	70-130

Data File: /chem/msda.i/07NOV24.b/a110706h.d
Date : 07-NOV-2024 13:34
Client ID: Lab Blank
Sample Info: 200mL 6L2284

Instrument: msda.i
Operator: MS
Column phase: RTX-624
Column diameter: 0.25



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Client ID:	Lab Blank		
Lab ID:	2410702A-17B	**Date/Time Analyzed:**	11/8/24 02:12 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msda.i / a110806a

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.49	1.8	2.0	Not Detected U
1,4-Dichlorobenzene	106-46-7	1.0	2.7	3.0	Not Detected U
Benzene	71-43-2	0.28	1.4	1.6	Not Detected U
cis-1,2-Dichloroethene	156-59-2	0.60	1.8	2.0	Not Detected U
Ethyl Benzene	100-41-4	0.82	2.0	2.2	Not Detected U
m,p-Xylene	108-38-3	0.78	2.0	4.3	Not Detected U
o-Xylene	95-47-6	0.76	2.0	2.2	Not Detected U
Toluene	108-88-3	0.41	1.7	3.8	Not Detected U
trans-1,2-Dichloroethene	156-60-5	0.76	1.8	2.0	Not Detected U
Trichloroethene	79-01-6	0.39	2.4	2.7	Not Detected U
Vinyl Chloride	75-01-4	0.59	1.2	1.3	Not Detected U

U = The analyte was not detected above the MDL.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	87
4-Bromofluorobenzene	460-00-4	70-130	94
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/08NOV24.b/a110806a.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 08-NOV-2024 14:12
Operator : MS Inst ID: msda.i
Smp Info : 200mL 6L2284
Misc Info : Humid
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/08NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:27 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.421 (1.000)	130	288423	25.0000		80.00- 120.00	100.00
5.428	5.421 (1.000)	128	222828			46.45- 106.45	77.26
5.428	5.421 (1.000)	49	558278			167.12- 227.12	193.56
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.417	6.402 (1.000)	114	1059479	25.0000		80.00- 120.00	100.00
6.409	6.402 (1.000)	88	171426			0.00- 46.36	16.18
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.145 (1.000)	117	989606	25.0000		80.00- 120.00	100.00
9.146	9.145 (1.000)	82	547467			27.12- 87.12	55.32
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.008 (1.108)	65	436554	21.7566	21.757	80.00- 120.00	100.00
6.015	6.008 (1.108)	67	219007			23.36- 83.36	50.17
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.749 (1.209)	98	1114534	25.2305	25.230	80.00- 120.00	100.00
7.756	7.749 (1.209)	70	126346			0.00- 41.92	11.34

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.749 (1.209)	100	751830			39.07- 99.07	67.46
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.124)	174	617317	23.3924	23.392	80.00- 120.00	100.00
10.292	10.292 (1.124)	95	748505			89.27- 149.27	121.25
10.292	10.292 (1.124)	176	592204			66.29- 126.29	95.93

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110806a.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: Humid

Calibration Date: 08-NOV-2024
Calibration Time: 12:27
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	291309	174785	407833	288423	-0.99
126 1,4-Difluorobenze	982121	589273	1374969	1059479	7.88
165 Chlorobenzene-d5	925746	555448	1296044	989606	6.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.42	5.09	5.75	5.43	0.14
126 1,4-Difluorobenze	6.40	6.07	6.73	6.42	0.23
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Nov-2024 09:31

US32TAR1

RECOVERY REPORT

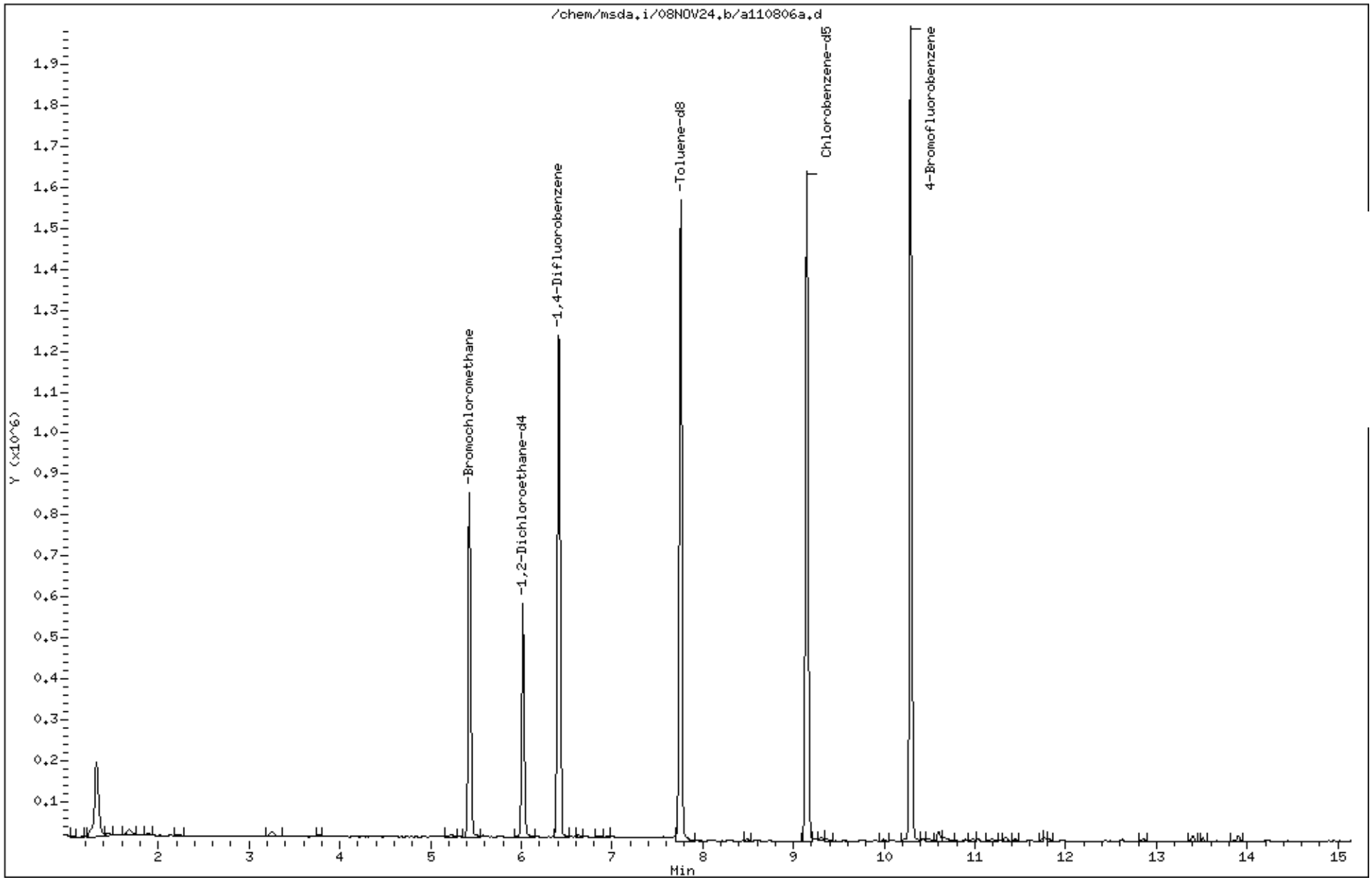
Client Name: Client SDG: 08NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: MS
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	21.757	87.03	70-130
$ 152 Toluene-d8	25.000	25.230	100.92	70-130
$ 191 4-Bromofluorobenz	25.000	23.392	93.57	70-130

Data File: /chem/msda.i/08NOV24.b/a110806a.d
Date : 08-NOV-2024 14:12
Client ID: Lab Blank
Sample Info: 200mL 6L2284

Instrument: msda.i
Operator: MS
Column diameter: 0.25

Column phase: RTX-624



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15

SURROGATE RECOVERY FORM

Lab Name : Eurofins Air Toxics _____ SDG No. :2410702A

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY						
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#	TOTAL OUT
1	T1AMF-SV011_OCT24	88		103		92		
2	T1AMF-SV011_OCT24 Lab Duplicat	89		101		92		
3	T1AMF-SV010_OCT24	87		102		91		
4	T1AMF-SV028_OCT24	90		102		95		
5	T1AMF-SV028_OCT24_FD	89		102		95		
6	T1AMF-SV027_OCT24	88		102		94		
7	T1AMF-SV003_OCT24	88		101		92		
8	T1AMF-SV017B_OCT24	87		103		92		
9	T1AMF-SV031_OCT24	88		101		92		
10	T1AMF-SV032a_OCT24	89		103		90		
11	T1AMF-SV032b_OCT24	88		100		92		
12	T1AMF-SV024_OCT24	88		101		92		
13	T1AMF-SV001_OCT24	90		103		92		
14	T1AMF-SV026_OCT24	88		101		92		
15	T1AMF-SV026_OCT24 Lab Duplicat	88		102		92		
16	T1AMF-SV026_OCT24_FD	87		101		96		
17	T1AMF-SV035_OCT24	87		101		92		
18	T1AMF-SV035_OCT24_FD	89		101		92		
19	Lab Blank	87		102		94		
20	Lab Blank	87		101		94		
21	CCV	88		100		95		
22	CCV	84		101		96		
23	CCV	90		101		96		
24	CCV	92		103		95		
25	LCS	86		101		95		
26	LCSD	87		102		93		
27	LCS	90		102		97		
28	LCSD	88		102		95		

Surrogate Recovery Limits

1,2-Dichloroethane-d4	70 - 130
Toluene-d8	70 - 130
4-Bromofluorobenzene	70 - 130

* Designates Values Outside of QC limits

LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Eurofins Air Toxics File ID: a110703.d Date : 2024-11-07 11:48:00 SDG No. : 2410702A

		Bromochloromethane		RT		1,4-Difluorobenzene		RT		Chlorobenzene-d5		RT	
	24-HOUR CCV	300803		5.43		1130282		6.41		1024524		9.15	
	UPPER LIMIT	421124		5.76		1582394		6.74		1434333		9.48	
	LOWER LIMIT	180481		5.10		678169		6.08		614714		8.82	
	CLIENT SAMPLE NO.												
1	T1AMF-SV011_OCT24	286551		5.43		1046166		6.42		994513		9.15	
2	T1AMF-SV011_OCT24 Lab Duplicat	281121		5.44		1045309		6.42		997040		9.15	
3	T1AMF-SV010_OCT24	284445		5.43		1027132		6.42		974606		9.15	
4	T1AMF-SV028_OCT24	276563		5.44		1048694		6.42		988191		9.15	
5	T1AMF-SV028_OCT24_FD	278405		5.44		1038196		6.41		976907		9.15	
6	T1AMF-SV027_OCT24	278305		5.44		1027505		6.42		963054		9.15	
7	T1AMF-SV003_OCT24	275295		5.43		1014866		6.42		959121		9.15	
8	T1AMF-SV017B_OCT24	279966		5.43		1002814		6.42		965393		9.15	
9	Lab Blank	302347		5.43		1104050		6.42		1048811		9.15	
10	CCV	300803		5.43		1130282		6.41		1024524		9.15	
11	CCV	280517		5.43		1063598		6.41		967521		9.15	
12	LCS	333973		5.43		1195038		6.41		1100775		9.15	
13	LCSD	321228		5.43		1178708		6.41		1097174		9.15	

Area Upper Limit = +40% of intenral standard area

Area Lower Limit = -40% of intenral standard area

RT Upper Limit = +0.33 minutes of internal standard RT

RT Lower Limit = -0.33 minutes of internal standard RT

* Designates Values Outside of QC limits

LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Eurofins Air Toxics File ID: a110803.d Date : 2024-11-08 12:27:00 SDG No. : 2410702A

		Bromochloromethane		RT		1,4-Difluorobenzene		RT		Chlorobenzene-d5		RT	
	24-HOUR CCV	291309		5.42		982121		6.40		925746		9.15	
	UPPER LIMIT	407832		5.75		1374969		6.73		1296044		9.48	
	LOWER LIMIT	174785		5.09		589272		6.07		555447		8.82	
	CLIENT SAMPLE NO.												
1	T1AMF-SV031_OCT24	283030		5.43		1018622		6.41		947576		9.15	
2	T1AMF-SV032a_OCT24	270946		5.43		984213		6.41		926256		9.15	
3	T1AMF-SV032b_OCT24	278312		5.43		1007178		6.41		944272		9.15	
4	T1AMF-SV024_OCT24	269896		5.43		985619		6.41		907693		9.15	
5	T1AMF-SV001_OCT24	267678		5.43		968124		6.41		903483		9.15	
6	T1AMF-SV026_OCT24	286560		5.43		1070783		6.41		998430		9.15	
7	T1AMF-SV026_OCT24 Lab Duplicat	279860		5.44		1039151		6.42		980395		9.15	
8	T1AMF-SV026_OCT24_FD	283546		5.43		1049280		6.42		974530		9.15	
9	T1AMF-SV035_OCT24	282416		5.43		1035556		6.42		965349		9.15	
10	T1AMF-SV035_OCT24_FD	279542		5.43		1026827		6.42		959167		9.15	
11	Lab Blank	288423		5.43		1059479		6.42		989606		9.15	
12	CCV	291309		5.42		982121		6.40		925746		9.15	
13	CCV	273973		5.43		1022849		6.41		938331		9.15	
14	LCS	287300		5.44		1075732		6.42		987120		9.15	
15	LCSD	290728		5.43		1091036		6.41		1015024		9.15	

Area Upper Limit = +40% of intenral standard area

Area Lower Limit = -40% of intenral standard area

RT Upper Limit = +0.33 minutes of internal standard RT

RT Lower Limit = -0.33 minutes of internal standard RT

* Designates Values Outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab File ID: a110719.d & a110720.d

Lab Sample ID: 01A & 01AA

CAS Number	Compound	Original Amount	Duplicate Amount	RPD	Result Less Than 5X RL
75-35-4	1,1-Dichloroethene	ND	ND	0	
106-46-7	1,4-Dichlorobenzene	ND	ND	0	
71-43-2	Benzene	ND	ND	0	
156-59-2	cis-1,2-Dichloroethene	ND	ND	0	
100-41-4	Ethyl Benzene	ND	ND	0	
108-38-3	m,p-Xylene	ND	ND	0	
95-47-6	o-Xylene	ND	ND	0	
108-88-3	Toluene	0.3212	0.3015	6.3	Y
156-60-5	trans-1,2-Dichloroethene	ND	ND	0	
79-01-6	Trichloroethene	ND	ND	0	
75-01-4	Vinyl Chloride	ND	ND	0	

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab File ID: a110807.d & a110808.d

Lab Sample ID: 13A & 13AA

CAS Number	Compound	Original Amount	Duplicate Amount	RPD	Result Less Than 5X RL
75-35-4	1,1-Dichloroethene	ND	ND	0	
106-46-7	1,4-Dichlorobenzene	ND	ND	0	
71-43-2	Benzene	ND	0.2199	-->200<--	Y
156-59-2	cis-1,2-Dichloroethene	ND	ND	0	
100-41-4	Ethyl Benzene	ND	ND	0	
108-38-3	m,p-Xylene	ND	ND	0	
95-47-6	o-Xylene	ND	ND	0	
108-88-3	Toluene	ND	ND	0	
156-60-5	trans-1,2-Dichloroethene	ND	ND	0	
79-01-6	Trichloroethene	149	152	2.0	
75-01-4	Vinyl Chloride	ND	ND	0	

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab File ID: a110704c.d & a110705c.d

Lab Sample ID: 19A & 19AA

CAS Number	Compound	Original Amount	Duplicate Amount	RPD	Result Less Than 5X RL
75-35-4	1,1-Dichloroethene	98	101	3.0	
106-46-7	1,4-Dichlorobenzene	96	96	0	
71-43-2	Benzene	107	109	1.9	
156-59-2	cis-1,2-Dichloroethene	102	107	4.8	
100-41-4	Ethyl Benzene	103	103	0	
108-38-3	m,p-Xylene	101	102	0.99	
95-47-6	o-Xylene	102	103	0.98	
108-88-3	Toluene	100	101	1.00	
156-60-5	trans-1,2-Dichloroethene	102	104	1.9	
79-01-6	Trichloroethene	100	101	1.00	
75-01-4	Vinyl Chloride	97	100	3.0	

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab File ID: a110804c.d & a110805c.d

Lab Sample ID: 19B & 19BB

CAS Number	Compound	Original Amount	Duplicate Amount	RPD	Result Less Than 5X RL
75-35-4	1,1-Dichloroethene	101	101	0	
106-46-7	1,4-Dichlorobenzene	98	96	2.1	
71-43-2	Benzene	108	108	0	
156-59-2	cis-1,2-Dichloroethene	105	106	0.95	
100-41-4	Ethyl Benzene	103	102	0.98	
108-38-3	m,p-Xylene	103	102	0.98	
95-47-6	o-Xylene	104	103	0.97	
108-88-3	Toluene	101	101	0	
156-60-5	trans-1,2-Dichloroethene	104	103	0.97	
79-01-6	Trichloroethene	100	100	0	
75-01-4	Vinyl Chloride	103	118	14	

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Calibration File Names:
Level 2: /chem/msda.i/10SEP24.b/a091005.d
Level 3: /chem/msda.i/10SEP24.b/a091006.d
Level 5: /chem/msda.i/10SEP24.b/a091007.d
Level 6: /chem/msda.i/10SEP24.b/a091008.d
Level 7: /chem/msda.i/10SEP24.b/a091009.d
Level 8: /chem/msda.i/10SEP24.b/a091010.d
Level 9: /chem/msda.i/10SEP24.b/a091011.d

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	RRF	% RSD
	200.000 Level 9							
1 Dimethyl Ether	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
2 Freon 14	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
3 Acetaldehyde	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
4 Hexafluoropropene	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
5 Freon 13	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
6 Freon 134a	*****	1.13532	0.98785	1.17208	1.17139	1.11921		
	0.96484						1.09178	8.429

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
7 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Propylene	+++++	1.20273	1.15940	1.11516	1.08896	1.02378	1.00972	1.09996	6.851
9 1,1-Difluoroethane	+++++	0.66518	0.64447	0.63613	0.63938	0.60845	0.60754	0.63353	3.506
10 Freon 12	3.26680	3.00682	3.07275	2.93198	2.97296	2.84191	2.74872	2.97742	5.594
11 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 Chlorodifluoromethane	+++++	0.27832	0.33509	0.30620	0.31877	0.29763	0.29421	0.30504	6.522
13 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Freon 114	2.18278	1.94178	1.89420	2.02688	1.96397	1.95688	1.95702	1.98907	4.720

US32TAR1

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Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
16 Isobutane	+++++	2.57201	2.45696	2.52656	2.46868	2.36127	2.30513	2.44843	4.084
17 Chloromethane	+++++	+++++	1.08431	1.18960	1.08227	0.95500	0.91591	1.04542	10.544
18 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Butane	+++++	0.29492	0.20518	0.24003	0.22248	0.19155	0.19411	0.22471	17.335
23 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Vinyl Chloride	1.29195	1.04217	0.94965	1.23217	1.21814	0.90066	0.89208	1.07526	15.787

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Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
25 1,3-Butadiene	1.20742	0.93797	0.87324	1.20838	1.20712	0.82683	0.81021	1.01017	18.719
26 Isobutylene	*****	*****	*****	*****	*****	*****	*****	*****	*****
27 3-Methyl-1-butene	*****	*****	*****	*****	*****	*****	*****	*****	*****
28 Methanol	*****	*****	*****	*****	*****	*****	*****	*****	*****
29 Bromomethane	*****	*****	0.67400	0.86540	0.88615	0.86223	0.84493	0.82654	10.468
30 Chloroethane	*****	0.62414	0.46174	0.62382	0.60346	0.59024	0.57250	0.57932	10.518
31 Isopentane	*****	1.86164	1.08960	1.78288	1.67349	1.60574	1.56780	1.59686	17.008
32 Vinyl Bromide	*****	0.98657	0.89918	1.01322	1.06128	1.04542	1.02632	1.00533	5.776
33 Freon 11	3.52740	3.49005	3.15630	3.45522	3.40975	3.32424	3.30757	3.38151	3.794

US32TAR1

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Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
34 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Dichlorofluoromethane	+++++	2.67760	2.11077	2.54126	2.55118	2.46169	2.36992	2.45207	7.991
36 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 Pentane	+++++	2.71956	1.75082	2.67015	2.63961	2.52240	2.50465	2.46786	14.635
38 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Ethanol	+++++	0.25193	0.25651	0.20494	0.21489	0.20330	0.20246	0.22234	11.305

US32TAR1

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Quant Method : ISTD
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Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
43 1,2-Dichloro-1-fluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 Acrolein	+++++	0.46758	0.49358	0.45973	0.46371	0.45985	0.44272	0.46453	3.569
47 Freon 113	2.05054	2.01380	1.99331	2.06936	1.99945	1.92119	1.96685	2.00207	2.487
48 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 1,1-Dichloroethene	0.75620	0.66444	0.66154	0.62813	0.66696	0.65554	0.67514	0.67256	5.912
50 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1

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Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
52 Acetone	+++++	+++++	0.83183	0.73806	0.76382	0.73664	0.75804	0.76568	5.077
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 Carbon Disulfide	+++++	3.24078	3.12651	2.90020	3.02418	2.98323	3.04381	3.05312	3.870
55 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 2-Propanol	+++++	2.81879	2.80487	2.59282	2.68490	2.65001	2.65171	2.70052	3.380
58 3-Chloropropene	0.51844	0.48452	0.50594	0.45984	0.49391	0.49105	0.50043	0.49345	3.741
59 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 Acetonitrile	+++++	0.90082	0.70926	0.62083	0.63489	0.58559	0.56892	0.67005	18.377

US32TAR1

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Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
61 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 Methylene Chloride	+++++	+++++	2.02515	2.00314	1.97648	1.87304	1.80203	1.93597	4.901
65 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
68 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
70 tert-Butyl alcohol	+++++	3.36780	3.14419	3.03318	3.00903	2.95222	3.00168	3.08468	4.949
71 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 Methyl tert-butyl ether	+++++	3.20417	3.17092	3.31205	3.22708	3.18093	3.21940	3.21909	1.566
73 trans-1,2-Dichloroethene	0.77370	0.76441	0.66658	0.69731	0.70467	0.69574	0.71075	0.71617	5.417
74 Acrylonitrile	1.21036	1.00612	1.15748	1.12339	1.13489	1.10222	1.08162	1.11658	5.721
75 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
76 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 Hexane	2.42662	2.40564	2.36303	2.46898	2.42799	2.35540	2.38858	2.40518	1.661

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
79 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
81 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 Isopropyl ether	+++++	5.69742	5.52867	5.63099	5.40342	5.10889	4.97248	5.39031	5.411
83 1,1-Dichloroethane	2.56585	2.48845	2.57808	2.50092	2.49688	2.43893	2.47540	2.50636	1.970
84 Vinyl Acetate	+++++	0.17928	0.23275	0.24628	0.25215	0.25129	0.26165	0.23723	12.613
85 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
86 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
87 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
88 Ethyl-tert-butyl ether	+++++	4.59337	4.78596	4.96704	4.93056	4.69974	4.72775	4.78407	2.980
89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
90 2,2-Dichloropropane	+++++	2.45553	2.40003	2.39866	2.36116	2.29836	2.34179	2.37592	2.293
91 cis-1,2-Dichloroethene	0.75086	0.76644	0.73180	0.73978	0.75983	0.73775	0.76857	0.75072	1.957
92 2-Butanone	+++++	0.57812	0.54391	0.54079	0.55293	0.55717	0.57125	0.55736	2.660
93 Ethyl Acetate	+++++	0.27647	0.25677	0.25868	0.28508	0.28736	0.28021	0.27409	4.833
94 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
97 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
99 Tetrahydrofuran	1.98203	1.94076	1.87040	1.81503	1.82353	1.76775	1.78524	1.85496	4.335
101 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 Chloroform	2.77691	2.87753	2.68759	2.63432	2.68866	2.64916	2.65007	2.70918	3.250
104 Cyclohexane	1.50043	1.34272	1.41473	1.44726	1.40041	1.36687	1.40485	1.41104	3.670
105 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 1,1,1-Trichloroethane	2.84045	2.74934	2.81495	2.86351	2.75490	2.70315	2.69592	2.77460	2.381

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Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
107 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
108 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
109 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
111 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
112 Carbon Tetrachloride	3.14341	3.20518	2.94338	3.09063	3.01442	2.92591	2.91950	3.03463	3.754
113 1,1-Dichloropropene	+++++	0.16358	0.16644	0.17196	0.17473	0.17144	0.16954	0.16962	2.380
114 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
117 2,2,4-Trimethylpentane	7.67692	7.27760	7.22667	7.73660	7.58592	7.33984	7.16658	7.43002	3.115
118 Benzene	0.92134	0.83033	0.87158	0.87903	0.87762	0.86072	0.82246	0.86615	3.828
120 tert-Amyl methyl ether	+++++	0.72632	0.80204	0.83737	0.83776	0.83056	0.84032	0.81240	5.475
121 1,2-Dichloroethane	0.56706	0.59257	0.59201	0.61236	0.61343	0.58877	0.55892	0.58930	3.499
122 Heptane	0.31933	0.27700	0.27915	0.32101	0.31149	0.30944	0.29582	0.30189	6.036
123 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
128 n-Butanol	+++++	0.37713	0.40085	0.37869	0.38572	0.38482	0.37380	0.38350	2.516
129 Trichloroethene	0.50167	0.42015	0.41172	0.43861	0.45091	0.44093	0.42722	0.44160	6.708
130 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 Methylcyclohexane	2.02292	1.97322	1.86386	1.95142	1.92465	1.89805	1.91622	1.93576	2.696
132 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
134 bis(chloromethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
135 1,2-Dichloropropane	0.46426	0.43042	0.42873	0.45379	0.44812	0.43866	0.42477	0.44125	3.319
136 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
137 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 2-Chloroethyl Vinyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 Methyl Methacrylate	+++++	0.34567	0.36688	0.36981	0.37211	0.37030	0.36255	0.36455	2.697
140 1,4-Dioxane	+++++	0.22636	0.22760	0.22900	0.23155	0.22494	0.22209	0.22692	1.445
141 Dibromomethane	0.52569	0.47847	0.47989	0.47365	0.47835	0.44713	0.44520	0.47548	5.618
142 Bromodichloromethane	0.80609	0.77654	0.76181	0.79062	0.80085	0.78250	0.75216	0.78151	2.525
143 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 1-Bromo-2-Chloroethane	+++++	0.86205	0.84611	0.85234	0.85748	0.83557	0.81024	0.84396	2.243
145 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
146 1-Chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 cis-1,3-Dichloropropene	0.58222	0.60349	0.58541	0.62728	0.65230	0.64005	0.62755	0.61690	4.382
150 4-Methyl-2-pentanone	0.40209	0.45689	0.44198	0.44442	0.44096	0.42839	0.41089	0.43223	4.536
151 Octane	0.52799	0.46449	0.43822	0.49726	0.48781	0.45713	0.42490	0.47111	7.581
153 Toluene	1.22109	1.16556	1.07692	1.16636	1.15373	1.12245	1.05846	1.13780	4.948
154 trans-1,3-Dichloropropene	0.61695	0.58414	0.54165	0.59954	0.60959	0.60141	0.58306	0.59091	4.229
155 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
156 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 1,1,2-Trichloroethane	0.47169	0.44219	0.43138	0.44303	0.43218	0.42249	0.41138	0.43633	4.374
159 Tetrachloroethene	0.76069	0.65641	0.62126	0.66324	0.64885	0.62072	0.59243	0.65194	8.270
160 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1,3-Dichloropropane	0.64972	0.57602	0.57103	0.59356	0.59845	0.59523	0.57186	0.59370	4.595
162 2-Hexanone	+++++	0.65717	0.69585	0.67782	0.66934	0.64580	0.61650	0.66041	4.169
163 Dibromochloromethane	0.92799	0.84661	0.90528	0.96498	0.94429	0.91532	0.88459	0.91272	4.287
164 1,2-Dibromoethane (EDB)	0.82729	0.74275	0.77078	0.80257	0.79386	0.76823	0.74250	0.77828	4.041

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
166 Chlorobenzene	1.15093	1.05244	1.02633	1.08722	1.04408	1.00949			
	0.96954							1.04858	5.544
167 Ethyl Benzene	0.54467	0.48020	0.50231	0.56032	0.54139	0.51330			
	0.49751							0.51996	5.629
168 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
169 1,1,1,2-Tetrachloroethane	0.64935	0.57273	0.62627	0.65352	0.63273	0.59515			
	0.56885							0.61409	5.723
170 Nonane	+++++	1.34459	1.34119	1.44819	1.36259	1.22981			
	1.10977							1.30602	9.090
171 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
172 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
173 m,p-Xylene	0.65350	0.59336	0.63987	0.70004	0.67432	0.64698			
	0.62324							0.64733	5.318
174 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
175 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 o-Xylene	0.55766	0.58222	0.59153	0.66497	0.64352	0.61164	0.58795	0.60564	6.161
177 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
178 Styrene	1.03965	0.96489	1.01477	1.11751	1.08243	1.01755	0.97765	1.03064	5.294
179 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
183 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
184 Bromoform	0.99219	0.92297	0.91097	0.99321	0.97364	0.94124	0.91125	0.94935	3.855
185 Cumene	1.94549	1.89981	1.87918	2.08719	2.04835	1.89950	1.75487	1.93063	5.754
186 1-Undecene	*****	*****	*****	*****	*****	*****	*****	*****	*****
187 beta-Pinene	*****	*****	*****	*****	*****	*****	*****	*****	*****
188 4-Chlorotoluene	*****	*****	*****	*****	*****	*****	*****	*****	*****
189 Cyclohexanone	*****	1.03438	1.04002	0.88536	0.86335	0.80431	0.76117	0.89810	12.950
190 Diisobutyl Ketone	*****	*****	*****	*****	*****	*****	*****	*****	*****
192 Bromobenzene	*****	0.64972	0.69432	0.70255	0.66991	0.64111	0.62426	0.66364	4.643
193 Pentachloroethane	*****	*****	*****	*****	*****	*****	*****	*****	*****

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
194 1,1,2,2-Tetrachloroethane	1.13080	1.01980	1.04888	1.10746	1.03954	0.98649			
	0.92963							1.03751	6.618
195 4-Ethyl-1,2-dimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
196 Propylbenzene	0.51587	0.48502	0.52020	0.57188	0.54273	0.51453			
	0.49734							0.52108	5.531
197 1,2,3-Trichloropropane	0.37421	0.33495	0.34280	0.34268	0.32602	0.31357			
	0.30019							0.33349	7.130
198 trans-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
199 Decane	+++++	1.42902	1.52040	1.67681	1.54039	1.39276			
	1.21120							1.46176	10.794
200 4-Ethyltoluene	0.60342	0.54120	0.55296	0.62747	0.58802	0.54686			
	0.51946							0.56848	6.789
201 2-Chlorotoluene	0.48887	0.47651	0.46518	0.50591	0.47550	0.44287			
	0.42697							0.46883	5.723
202 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
203 1,3-Diethylbenzene	*****	*****	*****	*****	*****	*****	*****	*****	*****
204 1,3,5-Trimethylbenzene	0.76789	0.76210	0.77233	0.81952	0.80011	0.75272	0.71901	0.77053	4.215
205 1,4-Diethylbenzene	*****	*****	*****	*****	*****	*****	*****	*****	*****
206 bis(2-Chloroethyl) Ether	*****	*****	*****	*****	*****	*****	*****	*****	*****
207 1,2,3-Trimethylbenzene	*****	*****	*****	*****	*****	*****	*****	*****	*****
208 1,2,4,5-tetramethylbenzene	*****	*****	*****	*****	*****	*****	*****	*****	*****
209 alpha Methyl Styrene	0.76069	0.76907	0.81963	0.91026	0.87438	0.83682	0.80652	0.82534	6.540
210 tert-Butylbenzene	*****	1.50648	1.61086	1.68795	1.61751	1.48487	1.37391	1.54693	7.335
211 1-Dodecene	*****	*****	*****	*****	*****	*****	*****	*****	*****

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
212 1,2,4-Trimethylbenzene	0.67750	0.65030	0.73433	0.79103	0.75356	0.71630	0.68943	0.71606	6.717
213 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 sec-Butylbenzene	0.45167	0.41965	0.47505	0.50485	0.48540	0.46048	0.44386	0.46299	6.095
215 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 p-Cymene	2.04314	1.97318	2.06138	2.22195	2.10889	1.97135	1.79969	2.02565	6.493
217 1,3-Dichlorobenzene	1.09807	1.16190	1.14098	1.22228	1.14543	1.07700	1.01632	1.12314	5.896
218 1,4-Dichlorobenzene	1.16010	1.12172	1.17522	1.23754	1.17431	1.11342	1.05599	1.14833	5.021
219 alpha-Chlorotoluene	1.53687	1.55178	1.62979	1.77581	1.74638	1.65645	1.55566	1.63610	5.882
220 Butylbenzene	0.44845	0.47918	0.51203	0.56247	0.53643	0.51148	0.48720	0.50532	7.476

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
221 Undecane	+++++	1.59317	1.80466	1.92241	1.78874	1.63425	1.46070	1.70065	9.885
222 1,2-Dichlorobenzene	1.12458	1.12411	1.11675	1.16823	1.11595	1.04873	0.99009	1.09835	5.395
223 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,2-Dibromo-3-chloropropane	+++++	0.78312	0.77296	0.77168	0.76914	0.73180	0.70555	0.75571	4.002
227 Dodecane	+++++	1.49830	1.91962	2.09006	2.05230	1.88150	1.68837	1.85502	12.152
228 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
229 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
230 1,2,4-Trichlorobenzene	+++++	0.95822	1.07883	1.04120	1.03558	0.98845	0.93073	1.00550	5.568
231 Hexachlorobutadiene	+++++	0.84669	0.90217	0.90969	0.89662	0.84729	0.78919	0.86528	5.365
232 Naphthalene	+++++	2.29455	2.53806	2.31964	2.43933	2.38701	2.39047	2.39484	3.654
233 1,2,3-Trichlorobenzene	+++++	0.89258	1.06224	0.98510	1.01052	0.96094	0.90874	0.97002	6.554
234 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
235 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
236 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 1,2-Dichloroethene (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 238 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
M 239 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 240 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 Total Volatile Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference to Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TPH reference to Gasoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TPH reference MineralSpirits	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TPH reference to Stoddard	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
248 TVOC reference to Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 TVOC reference to Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 TVOC reference to Toluene-d8	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 NMOC reference to Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 NMOC reference to Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 NMOC reference to Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
254 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
257 C6 - C7 Hydrocarbons	#####	#####	#####	#####	#####	#####	#####	#####	#####
258 C7 - C8 Hydrocarbons	#####	#####	#####	#####	#####	#####	#####	#####	#####
259 C8 - C9 Hydrocarbons	#####	#####	#####	#####	#####	#####	#####	#####	#####
260 C9 - C10 Hydrocarbons	#####	#####	#####	#####	#####	#####	#####	#####	#####
261 C10+ Hydrocarbons	#####	#####	#####	#####	#####	#####	#####	#####	#####
262 C5 - C6 Aliphatic ref C5 + C6	#####	#####	#####	#####	#####	#####	#####	#####	#####
263 C6-C8 Aliphatic ref Heptane	#####	#####	#####	#####	#####	#####	#####	#####	#####
264 C8-C10 Aliphatic ref Decane	#####	#####	#####	#####	#####	#####	#####	#####	#####
265 C10-C12 Aliphatic ref Dodecan	#####	#####	#####	#####	#####	#####	#####	#####	#####

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
266 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
267 C8-C10 Aromatic ref 1,2,3-TMB	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
268 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
269 C10-C12 Aromatic 1,2,4,5-TMB	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
270 C10-C12 Aromatic Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
$ 110 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
$ 119 1,2-Dichloroethane-d4	1.74888	1.77660	1.75855	1.76318	1.74334	1.77685			
	1.60720						1.73923	3.426	
$ 152 Toluene-d8	1.03983	1.03376	1.03563	1.03550	1.04816	1.06590			
	1.03770						1.04236	1.095	
$ 191 4-Bromofluorobenzene	0.65975	0.64361	0.68873	0.66826	0.67803	0.66367			
	0.66464						0.66667	2.131	

Report Date: 10-Sep-2024 18:17

Calibration History

Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Start Cal Date: 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 2 , Cal Amount: 0.50000		
10-SEP-2024 12:43	AT24_Level2	/chem/msda.i/10SEP24.b/a091005.d
Cal Level: 3 , Cal Amount: 1.00000		
10-SEP-2024 13:17	AT24_Level3	/chem/msda.i/10SEP24.b/a091006.d
Cal Level: 5 , Cal Amount: 5.00000		
10-SEP-2024 13:54	AT24ICAL	/chem/msda.i/10SEP24.b/a091007.d
Cal Level: 6 , Cal Amount: 20.00000		
10-SEP-2024 14:27	AT24ICAL	/chem/msda.i/10SEP24.b/a091008.d
Cal Level: 7 , Cal Amount: 50.00000		
10-SEP-2024 15:01	AT24ICAL	/chem/msda.i/10SEP24.b/a091009.d
Cal Level: 8 , Cal Amount: 100.00000		
10-SEP-2024 15:36	AT24ICAL	/chem/msda.i/10SEP24.b/a091010.d
Cal Level: 9 , Cal Amount: 200.00000		
10-SEP-2024 16:14	AT24ICAL	/chem/msda.i/10SEP24.b/a091011.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 7

Ccal Level: 7 , Ccal Amount: 50.000		

10-SEP-2024 15:01	AT24ICAL	/chem/msda.i/10SEP24.b/a091009.d

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Calibration File Names:
Level 2: /chem/msda.i/10SEP24.b/a091005.d
Level 3: /chem/msda.i/10SEP24.b/a091006.d
Level 5: /chem/msda.i/10SEP24.b/a091007.d
Level 6: /chem/msda.i/10SEP24.b/a091008.d
Level 7: /chem/msda.i/10SEP24.b/a091009.d
Level 8: /chem/msda.i/10SEP24.b/a091010.d
Level 9: /chem/msda.i/10SEP24.b/a091011.d

on 9/10/24 to 9/11/24

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Freon 134a	+++++	1.13532	0.98785	1.17208	1.17139	1.11921	0.96484	1.09178	8.429

Initial Calibration Narrative
A24Q0910a.m

A multi-point TO-15 initial calibration was analyzed on MSD-A on 09/10/24.

ICAL: 0 out.
Naph: 3.6% RSD

ICV: 0 out. File: A091014.
Naph Recovery: 93.23%.
DOD QSM: 0 out. File: A091014c.
RCP: 0 out. File A091014d

The low point spike verification file is A091005x for BTEXS.

The concentrations for Acrolein, Ethanol and Naphthalene were adjusted in the ICV due to the certified concentration exceeding more than 10% of the nominal concentration.

The concentrations for Acetonitrile, 2-Propanol, Tert-Butanol, Vinyl Acetate, Naphthalene, Ethanol, Acrolein, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene and Hexachlorobutadiene were adjusted in the calibration due to the certified concentration exceeding more than 10% of the nominal concentration.

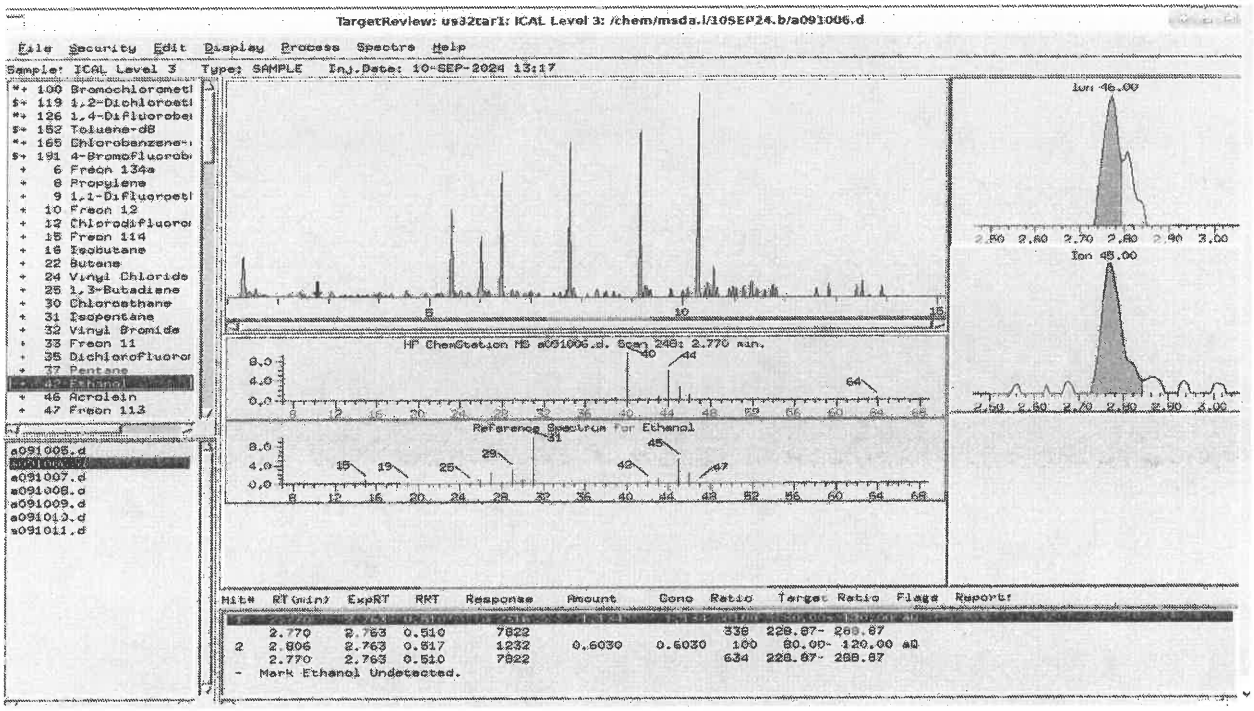
- Acetonitrile was curved at 1.156ppbv→231.2ppbv
- 2-propanol was curved at 1.166ppbv→233.2ppbv
- Tert-Butyl Alcohol was curved at 1.163ppbv→232.6ppbv
- Vinyl Acetate was curved at 1.162ppbv→232.4ppbv
- Ethanol was curved at 1.223ppbv→244.6ppbv
- Acrolein was curved at 1.166ppbv →233.2ppbv
- 1,2,4-Trichlorobenzene was curved at 1.121ppbv→224.2ppbv
- 1,2,3-Trichlorobenzene was curved at 1.127ppbv→225.4ppbv
- Hexachlorobutadiene was curved at 1.127ppbv→225.4ppbv

Naphthalene calibrated 0..118ppbv->23.6ppbv.

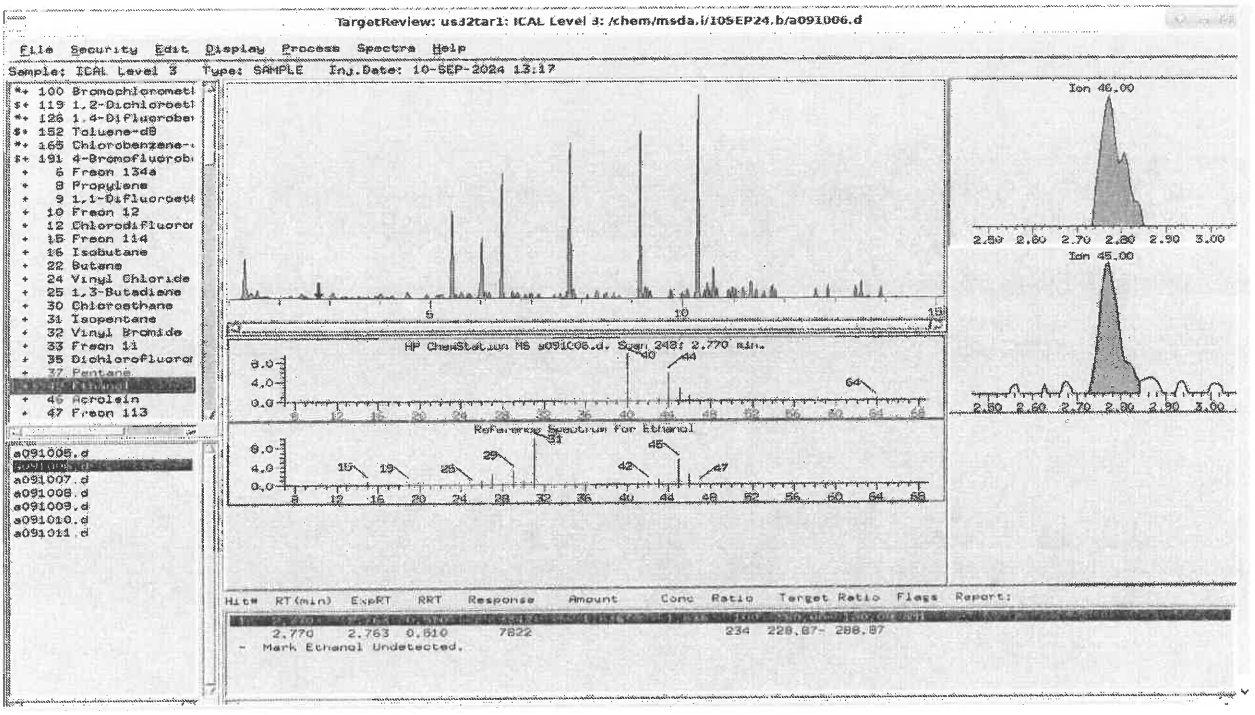
BFB tune file: A091004

The AT24 MDL expires 8/26/25.

Before:



After



Corrected Peak Integration

cm 9/10/24

9/11/24

MSD-A

S:_Screeningseq\MSDA\11Sep2024-A.csv

BFB verification of 176/174 ratio:		(267904/281088) * 100 = 95.31%	
IS/S Std.#:	3169-1048	Exp. Date:	6/9/2025
Bromochloromethane		272599	
1,4-Diflurobenzene		989537	
Chlorobenzene-D5		922551	
verified CCV vs ICAL mid point(+/-40%)		TO	
Method		a24q0910a.m	

Method TO-15			
SOP#	6		
		Load (mLs)	200
Surrogate#	3169-1048	Exp. Date:	6/9/2025
CCV	3018-4808	Exp. Date:	12/9/2024
LCS	3018-4807	Exp. Date:	12/9/2024
CCV sp #1	3380-91	Exp. Date:	10/1/2024
CCV sp #1		Exp. Date:	

Use	File	Lab ID #	Can#/Standard ID#	Cart Pos	Pressure	Amount Loaded	DF	Verify Load By Intials	Loaded By Intials	Date Analyzed	Time Analyzed	Review By Intials	Comments
X	A091001	System Blank	D255	12	Humid	200mL	1.00	TO	TO	09/10/24	0926	TO	IS ok; TCE >RL
X	A091002	System Blank	D255	12	Humid	200mL	1.00	TO	TO	09/10/24	1002	TO	IS ok; TCE >RL
√	A091003	System Blank	D255	11	Humid	200mL	1.00	AB	TO	09/10/24	1133	AB	
√	A091004	BFB Tune Check	3169-1048	11	36ng	50mL	1.00	AB	TO	09/10/24	1209	AB	exp. 6/9/25
√	A091005	ICAL Level 2	3018-4809	1	0.5ppbv(5.0ppbv)	20mL	1.00	AB	TO	09/10/24	1243	AB	exp. 12/9/24
√	A091006	ICAL Level 3	3018-4809	1	1.0ppbv(5.0ppbv)	40mL	1.00	AB	TO	09/10/24	1317	AB	
√	A091007	ICAL Level 5	3018-4809	1	5.0ppbv(5.0ppbv)	200mL	1.00	AB	TO	09/10/24	1354	AB	
√	A091008	ICAL Level 6	3018-4808	13	20ppbv(200ppbv)	20mL	1.00	AB	TO	09/10/24	1427	AB	exp. 12/9/24
√	A091009	ICAL Level 7	3018-4808	13	50ppbv(200ppbv)	50mL	1.00	AB	TO	09/10/24	1501	AB	CCV
√	A091010	ICAL Level 8	3018-4808	13	100ppbv(200ppbv)	100mL	1.00	AB	TO	09/10/24	1536	AB	
√	A091011	ICAL Level 9	3018-4808	13	200ppbv(200ppbv)	200mL	1.00	AB	TO	09/10/24	1614	AB	
√	A091012	System Blank	D255	11	Humid	200mL	1.00	AB	TO	09/10/24	1651	AB	
√	A091013	System Blank	D255	11	Humid	200mL	1.00	AB	TO	09/10/24	1728	AB	
√	A091014	ICV/LCS	3018-4807	14	50ppbv(200ppbv)	50mL	1.00	AB	AB	09/10/24	1855	AB	Exp. 12/09/24

UD 9/11/24

IS and Associated Target Compounds and Surr.
Instruction #: I1.20

Modified EPA Methods TO-14A/TO-15
Internal Standard and Associated Target Compounds and Surrogates

Bromochloromethane*
Target Compounds:
Freon 12
Freon 114
Chloromethane
Vinyl Chloride
1,3-Butadiene
Bromomethane
Chloroethane
Freon 11
Ethanol
Freon 113
1,1-Dichloroethene
Acetone
2-Propanol
Carbon Disulfide
3-Chloropropene
Methylene Chloride
Methyl tert-butyl ether
trans-1,2-Dichloroethene
Hexane
1,1-Dichloroethane
2-Butanone (Methyl Ethyl Ketone)
cis-1,2-Dichloroethene
Tetrahydrofuran
Chloroform
1,1,1-Trichloroethane
Cyclohexane
Carbon Tetrachloride
2,2,4-Trimethylpentane
Surrogates:
1,2-Dichloroethane-d4

1,4-Difluorobenzene
Target Compounds:
Benzene
1,2-Dichloroethane
Heptane
Trichloroethene
1,2-Dichloropropane
1,4-Dioxane
Bromodichloromethane
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene
Surrogates:
Toluene-d8

Chlorobenzene-d5
Target Compounds:
trans-1,3-Dichloropropene
1,1,2-Trichloroethane
Tetrachloroethene
2-Hexanone
Dibromochloromethane
1,2-Dibromoethane (EDB)
Chlorobenzene
Ethyl Benzene
m,p-Xylene
o-Xylene
Styrene
Bromoform
Cumene
1,1,2,2-Tetrachloroethane
Propylbenzene
4-Ethyltoluene
1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
alpha-Chlorotoluene
1,2-Dichlorobenzene
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Surrogates:
Bromofluorobenzene

*Note: If Bromochloromethane (BCM) is required as a target compound, the internal standard mix is blended without BCM. Compounds and surrogates assigned to BCM are re-assigned to 1,4-Difluorobenzene for calibration and subsequent quantitation.

4700 Precision Diluter Standards Preparation Report

Dilution ID: 5311

Canister Size: 6000cc **Canister ID:** 6L0186 **Target Final Psia:** 29.7

Comment: AT24 CCV 5.0 ppbv 100 uL H2O exp:12/09/24

Date: 9/9/2024 11:06:55 PM

Report ID: 3018-4809

Prepared By: mjb

Channel Methods

Ch.	Title	Init. Conc.	Target Conc.	Dilution Factor	Init. Psia	Target Psid	Final Psid	Target Psia	Final Psia	Duration	Final Conc.
1	Diluent	100 percent	100 percent	1	-0.07	11.95	11.95	11.88	11.88	00:07:25	N/A
6	3018-4808	200 ppb	5 ppb	40	11.88	0.74	0.74	12.62	12.62	00:02:56	4.97 ppb
1	Diluent	100 percent	100 percent	1	12.62	17.08	17.07	29.70	29.69	00:13:04	N/A

Total Duration: 00:23:32

Channel Configuration and Standards Inventory

Ch.	Source	Init. Conc.	Cylinder ID	Expiration Date	Notes
1	Diluent	100 percent	488009Y	9/9/9999	E701263095101, Zero Air. No exp. date.
6	3018-4808	200 ppb	33929	12/9/2024	AT24 CCV

D 9/10/24

Verify Lot# of CC#/CAL (unless it is
different from ICV/LCS (secondary)
Initial/Date mjb 09/09/24

Verify Concentration and Expiration date from COA
Initial/date mjb 09/09/24

4700 Precision Diluter Standards Preparation Report

Dilution ID: 5310

Canister Size: 6000cc **Canister ID:** 33929 **Target Final Psia:** 29.7

Comment: AT24 CCV 200 ppbv 100 uL H2O exp:12/09/24

Date: 9/9/2024 10:24:20 PM

Report ID: 3018-4808

Prepared By: mjb

Channel Methods

Ch.	Title	Init. Conc.	Target Conc.	Dilution Factor	Init. Psia	Target Psid	Final Psid	Target Psia	Final Psia	Duration	Final Conc.
1	Diluent	100 percent	100 percent	1	-0.10	11.99	11.99	11.89	11.89	00:07:14	N/A
2	AT24 CCV Part A 3390-418	1000 ppb	200 ppb	5	11.89	5.96	5.96	17.85	17.85	00:07:12	199.94 ppb
3	AT24 CCV Part B 3390-419	1000 ppb	200 ppb	5	17.85	5.96	5.96	23.81	23.81	00:06:02	199.94 ppb
1	Diluent	100 percent	100 percent	1	23.81	5.89	5.90	29.70	29.71	00:04:05	N/A

Total Duration: 00:24:41

Channel Configuration and Standards Inventory

Ch.	Source	Init. Conc.	Cylinder ID	Expiration Date	Notes
1	Diluent	100 percent	488009Y	9/9/9999	Zero Air. E701263095101. Exp. 9/9/9999 = No Exp. Date.
2	AT24 CCV Part A 3390-418	1000 ppb	CC-524920	6/1/2025	Production #1606527
3	AT24 CCV Part B 3390-419	1000 ppb	CC-524929	12/12/2025	Production #1606798

JD 9/10/24

Verify Lot# of CC#/COA (primary, is different than ICV/LCS (secondary)

Initial/date mjb 09/09/24

Verify Concentration and Expiration date from COA

Initial/date mjb 09/09/24

4700 Precision Diluter Standards Preparation Report

Dilution ID: 5309

Canister Size: 6000cc **Canister ID:** 6L0845 **Target Final Psia:** 29.7

Comment: AT24 LCS 200 ppbv 100 uL H2O exp:12/09/24

Date: 9/9/2024 9:49:59 PM

Report ID: 3018-4807

Prepared By: mjb

Channel Methods

Ch.	Title	Init. Conc.	Target Conc.	Dilution Factor	Init. Psia	Target Psid	Final Psid	Target Psia	Final Psia	Duration	Final Conc.
1	Diluent	100 percent	100 percent	1	-0.06	11.90	11.90	11.84	11.84	00:06:37	N/A
2	AT24 LCS 3390-420	1000 ppb	200 ppb	5	11.84	5.95	5.95	17.79	17.79	00:07:07	199.85 ppb
1	Diluent	100 percent	100 percent	1	17.79	11.91	11.92	29.70	29.71	00:06:55	N/A

Total Duration: 00:20:46

Channel Configuration and Standards Inventory

Ch.	Source	Init. Conc.	Cylinder ID	Expiration Date	Notes
1	Diluent	100 percent	488009Y	9/9/9999	Zero Air. N701263095101. 9/9/9999 = no exp.
2	AT24 LCS 3390-420	1000 ppb	CC-524921	12/13/2025	Production # 1609441.

09/10/24

Verify Lot# of OCV/CAL (primary) is different than ICV/LCS (secondary)

initial/date mjb 09/09/24

Verify Concentration and Expiration date from COA

initial/date mjb 09/09/24

ISO 17034 Certificate

AT-24 Primary Part A

Certified Reference Material

Std. ID: 3390-418
Rec'd: 6/25/24
By: MJS

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

PAGE: 1 of 3
Report ID: 39411
Revision: 0

Sales#:	117600304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1606527	**Cylinder # :**	CC-524920
Report Date:	Jun-01-2024	**Cylinder Pressure:**	2000 psig
P.O.#:	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17034	**Cylinder Volume:**	29.5 Liter
Material#:	24108088	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Jun-01-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

1st Review: 5 out 7 ± 10%. MJS 6/25/24
2nd Review: 5 out 7 ± 10% cm 6/26/24

Primary Reference Material intended for the calibration of gas analyzers or instrumentation. General instructions for proper use of gas mixtures are found in "ISO 16664: Gas analysis – handling of calibration gases and gas mixtures".

Contents under pressure, store in secure area and do not expose to temperatures greater than 150 °F.

Recommended Operating temperature within 32°F (0°C) and 125°F (52°C).

Recommended minimum sample size 10 mL.

Except where noted, results are reported in mole/mole ppm as determined by Gas Chromatography using qualified reference standards under ANA-50-741-ALP and ANA-50-742-ALP and meets ISO 17025 requirements. Every cylinder is analyzed and represents one unique lot.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor providing a level of confidence of 95% and has been carried out in accordance with ISO 17025 requirements.

This certificate is issued in accordance with the laboratory accreditation requirements of ANAB. It provides traceability of measurement to recognized national standards, and to units of measurement realized by the National Institute of Standards and Technology (NIST).

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ISO 17034 Certificate

Certified Reference Material

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd, Ste. B
Folsom, CA 95630

PAGE: 2 of 3
Report ID: 39411
Revision: 0

Sales#:	117500304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1606527	**Cylinder # :**	CC-524920
Report Date:	Jun-01-2024	**Cylinder Pressure:**	2000 psig
P.O.#:	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17034	**Cylinder Volume:**	29.5 Liter
Material#:	24108088	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Jun-01-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	(k @ 95%)	Certified Conc	Uncertainty
Acetonitrile	75-05-8	1.000 ppm	2.571	1.156 ppm	± 0.038 ppm
Acetone	67-64-1	1.000 ppm	2.571	1.049 ppm	± 0.030 ppm
Isopropyl Alcohol	67-63-0	1.000 ppm	2.571	1.166 ppm	± 0.032 ppm
Methylene Chloride	75-09-2	1.000 ppm	2.571	1.056 ppm	± 0.032 ppm
Tert-Butanol	75-65-0	1.000 ppm	2.571	1.163 ppm	± 0.022 ppm
Methyl Tert Butyl Ether	1634-04-4	1.000 ppm	2.571	1.054 ppm	± 0.028 ppm
Vinyl Acetate	108-05-4	1.000 ppm	2.571	1.162 ppm	± 0.032 ppm
Methyl Ethyl Ketone	78-93-3	1.000 ppm	2.571	1.053 ppm	± 0.027 ppm
n-Hexane	110-54-3	1.000 ppm	2.571	1.054 ppm	± 0.027 ppm
Chloroform	67-66-3	1.000 ppm	2.571	1.059 ppm	± 0.029 ppm
Ethyl Acetate	141-78-6	1.000 ppm	2.571	1.052 ppm	± 0.029 ppm
Diisopropyl Ether	108-20-3	1.000 ppm	2.571	1.057 ppm	± 0.027 ppm
Tetrahydrofuran	109-99-9	1.000 ppm	2.571	1.049 ppm	± 0.028 ppm
1,2-Dichloroethane	107-06-2	1.000 ppm	2.571	1.055 ppm	± 0.028 ppm
Benzene	71-43-2	1.000 ppm	2.571	1.052 ppm	± 0.028 ppm
1-Butanol	71-36-3	1.000 ppm	2.571	1.056 ppm	± 0.033 ppm
Cyclohexane	110-82-7	1.000 ppm	2.571	1.051 ppm	± 0.027 ppm
1,2-Dichloropropane	78-87-5	1.000 ppm	2.571	1.053 ppm	± 0.029 ppm
Trichloroethylene	79-01-6	1.000 ppm	2.571	1.055 ppm	± 0.029 ppm
1,4-Dioxane	123-91-1	1.000 ppm	2.571	1.055 ppm	± 0.029 ppm
2,2,4-Trimethylpentane	540-84-1	1.000 ppm	2.571	1.054 ppm	± 0.028 ppm
n-Heptane	142-82-5	1.000 ppm	2.571	1.045 ppm	± 0.030 ppm
Methyl Isobutyl Ketone	108-10-1	1.000 ppm	2.571	1.051 ppm	± 0.027 ppm
Toluene	108-88-3	1.000 ppm	2.571	1.052 ppm	± 0.028 ppm
Methyl Butyl Ketone	591-78-6	1.000 ppm	2.571	1.047 ppm	± 0.027 ppm
Tetrachloroethylene	127-18-4	1.000 ppm	2.571	1.060 ppm	± 0.028 ppm
Chlorobenzene	108-90-7	1.000 ppm	2.571	1.058 ppm	± 0.028 ppm

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ISO 17034 Certificate

Certified Reference Material

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

Report ID: 39411
Revision: 0

Sales#:	117500304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1606527	**Cylinder # :**	CC-524920
Report Date:	Jun-01-2024	**Cylinder Pressure:**	2000 psig
P.O.#:	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17034	**Cylinder Volume:**	29.5 Liter
Material#:	24108088	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Jun-01-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	(k @ 95%)	Certified Conc	Uncertainty
Ethylbenzene	100-41-4	1.000 ppm	2.571	1.041 ppm	± 0.027 ppm
p-Xylene	106-42-3	0.500 ppm	2.571	0.531 ppm	± 0.014 ppm
m-Xylene	108-38-3	0.500 ppm	2.571	0.527 ppm	± 0.014 ppm
o-Xylene	95-47-6	1.000 ppm	2.571	1.056 ppm	± 0.028 ppm
Cumene	98-82-8	1.000 ppm	2.571	1.070 ppm	± 0.029 ppm
Naphthalene	91-20-3	0.100 ppm	2.571	0.118 ppm	± 0.006 ppm *
Nitrogen	7727-37-9	Balance		Balance	

Lou Lorenzetti

ANALYST: Lou Lorenzetti

DATE: Jun-01-2024

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ISO/IEC 17025

Analysis Report

IS/surr.

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

PAGE: 1 of 2
Report ID: 37632
Revision: 0

Sales#:	117476494	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1588213	**Cylinder # :**	CC-524286
Report Date:	Jun-09-2023	**Cylinder Pressure:**	2000 psig
P.O.#:	75517354	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17025	**Cylinder Volume:**	29.5 Liter
Material#:	24100578	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Jun-09-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

Std. ID: 3169-1048
Rec'd: 8/9/23
By: MJB

Primary Reference Material intended for the calibration of gas analyzers or instrumentation. General instructions for proper use of gas mixtures are found in "ISO 16664: Gas analysis – handling of calibration gases and gas mixtures".

Contents under pressure, store in secure area and do not expose to temperatures greater than 150 °F.

Recommended Operating temperature within 32°F (0°C) and 125°F (52°C).

Recommended minimum sample size 10 mL.

Except where noted, results are reported in mole/mole ppm as determined by Gas Chromatography using qualified reference standards under ANA-50-741-ALP and ANA-50-742-ALP and meets ISO/IEC 17025 requirements. Every cylinder is analyzed and represents one unique lot.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor providing a level of confidence of 95% and has been carried out in accordance with ISO/IEC 17025 requirements.

This report is issued in accordance with the laboratory accreditation requirements of ANAB. It provides traceability of measurement to recognized national standards, and to units of measurement realized by the National Institute of Standards and Technology (NIST).

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ISO/IEC 17025

Analysis Report

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Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

PAGE: 2 of 2
Report ID: 37832
Revision: 0

Sales#:	117476494	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1588213	**Cylinder # :**	CC-524296
Report Date:	Jun-09-2023	**Cylinder Pressure:**	2000 psig
P.O.#:	75517354	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17025	**Cylinder Volume:**	29.5 Liter
Material#:	24100578	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Jun-09-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	(k @ 95%)	Reported Conc	Uncertainty
Bromochloromethane	74-97-5	25.0 ppb	2.571	23.4 ppb	± 0.7 ppb
1,2-Dichloroethane-d4	17060-07-0	25.0 ppb	2.571	24.2 ppb	± 0.9 ppb
1,4-Difluorobenzene	540-36-3	25.0 ppb	2.571	23.7 ppb	± 0.8 ppb
Toluene-d8	2037-26-5	25.0 ppb	2.571	25.3 ppb	± 1.2 ppb
Chlorobenzene-d5	3114-55-4	25.0 ppb	2.571	24.3 ppb	± 0.8 ppb
4-Bromofluorobenzene	460-00-4	25.0 ppb	2.571	24.5 ppb	± 0.9 ppb
Nitrogen	7727-37-9	Balance		Balance	

1st Review: All w/in ±15%, MSB 8/9/23

2nd Review: All w/in ±15% 8/ 8/9/23

ANALYST: Lou Lorenzetti

DATE: Jun-09-2023

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ISO/IEC 17025

AT-23 Source Part B MJS 6/25/24

AT-24 Primary Part B

Analysis Report

Std. ID: 3390-419 Rec'd: 6/26/24 Analyzed By: MJS

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

PAGE: 1 of 5
Report ID: 39430
Revision: 0

Sales#:	117500304	Cylinder Size:	152 (8" X 47.5")
Production#:	1606798	Cylinder # :	CC-524929
Report Date:	Jun-12-2024	Cylinder Pressure:	2000 psig
P.O.#:	75793440	Cylinder Valve:	CGA 350 / Steel
Blend Type:	ISO-17025	Cylinder Volume:	29.5 Liter
Material#:	24099162	Cylinder Material:	Aluminum
Traceability:	NIST by weight	Gas Volume:	4000 Liters
Expiration Date:	Dec-12-2025	Blend Tolerance:	10% Relative
Do NOT use under:	150 psig	Method of Analysis:	GC-FID

1st Review: Sout ≥ ±10%, MJS 6/25/24
2nd Review: Sout ≥ ±10% QR 6/26/24

Primary Reference Material intended for the calibration of gas analyzers or instrumentation. General instructions for proper use of gas mixtures are found in "ISO 16664: Gas analysis – handling of calibration gases and gas mixtures".

Contents under pressure, store in secure area and do not expose to temperatures greater than 150 °F

Recommended Operating temperature within 32°F (0°C) and 125°F (52°C).

Recommended minimum sample size 10 mL.

Except where noted, results are reported in mole/mole ppm as determined by Gas Chromatography using qualified reference standards under ANA-50-741-ALP and ANA-50-742-ALP and meets ISO/IEC 17025 requirements. Every cylinder is analyzed and represents one unique lot.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor providing a level of confidence of 95% and has been carried out in accordance with ISO/IEC 17025 requirements.

This report is issued in accordance with the laboratory accreditation requirements of ANAB. It provides traceability of measurement to recognized national standards, and to units of measurement realized by the National Institute of Standards and Technology (NIST).

Linde Spectra Environmental Gases

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ISO/IEC 17025

Analysis Report

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

Report ID: 39430
Revision: 0

Sales#:	117500304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1606798	**Cylinder # :**	CC-524929
Report Date:	Jun-12-2024	**Cylinder Pressure:**	2000 psig
P.O.#:	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17025	**Cylinder Volume:**	29.5 Liter
Material#:	24099162	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Dec-12-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	(k @ 95%)	Reported Conc	Uncertainty
1,1,1,2-Tetrafluoroethane	811-97-2	1.000 ppm	2.571	1.066 ppm	± 0.039 ppm
1,1-Difluoroethane	75-37-6	1.000 ppm	2.571	1.059 ppm	± 0.036 ppm
Propylene	115-07-1	1.000 ppm	2.571	1.065 ppm	± 0.036 ppm
Chlorodifluoromethane	75-45-6	1.000 ppm	2.571	1.060 ppm	± 0.033 ppm
Freon-12	75-71-8	1.000 ppm	2.571	1.054 ppm	± 0.032 ppm
Chloromethane	74-87-3	1.000 ppm	2.571	1.050 ppm	± 0.034 ppm
Isobutane	75-28-5	1.000 ppm	2.571	1.059 ppm	± 0.036 ppm
Freon-114	76-14-2	1.000 ppm	2.571	1.046 ppm	± 0.044 ppm
Vinyl Chloride	75-01-4	1.000 ppm	2.571	1.056 ppm	± 0.046 ppm
1,3-Butadiene	106-99-0	1.000 ppm	2.571	1.063 ppm	± 0.039 ppm
n-Butane	106-97-8	1.000 ppm	2.571	1.061 ppm	± 0.038 ppm
Bromomethane	74-83-9	1.000 ppm	2.571	1.059 ppm	± 0.046 ppm
Chloroethane	75-00-3	1.000 ppm	2.571	1.060 ppm	± 0.038 ppm
Dichlorofluoromethane	75-43-4	1.000 ppm	2.571	1.062 ppm	± 0.037 ppm
Vinyl Bromide	593-60-2	1.000 ppm	2.571	1.060 ppm	± 0.037 ppm
Ethanol (No Stability Guarantee)	64-17-5	1.000 ppm	2.571	1.223 ppm	± 0.076 ppm *
Acrolein	107-02-8	1.000 ppm	2.571	1.166 ppm	± 0.054 ppm *
Isopentane	78-78-4	1.000 ppm	2.571	1.028 ppm	± 0.030 ppm
Freon-11	75-69-4	1.000 ppm	2.571	1.060 ppm	± 0.022 ppm
n-Pentane	109-66-0	1.000 ppm	2.571	1.067 ppm	± 0.040 ppm
Acrylonitrile	107-13-1	1.000 ppm	2.571	1.066 ppm	± 0.039 ppm
1,1-Dichloroethene	75-35-4	1.000 ppm	2.571	1.062 ppm	± 0.037 ppm
Carbon Disulfide	75-15-0	1.000 ppm	2.571	1.058 ppm	± 0.037 ppm
3-Chloropropene	107-05-1	1.000 ppm	2.571	1.057 ppm	± 0.043 ppm
Freon-113	76-13-1	1.000 ppm	2.571	1.059 ppm	± 0.035 ppm
Trans-1,2-Dichloroethene	156-60-5	1.000 ppm	2.571	1.082 ppm	± 0.039 ppm
1,1-Dichloroethane	75-34-3	1.000 ppm	2.571	1.064 ppm	± 0.039 ppm

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ISO/IEC 17025

Analysis Report

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

PAGE: 3 of 5
Report ID: 39430
Revision: 0

Sales#:	117600304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1606798	**Cylinder # :**	CC-524029
Report Date:	Jun-12-2024	**Cylinder Pressure:**	2000 psig
P.O.#:	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17025	**Cylinder Volume:**	29.5 Liter
Material#:	24099162	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Dec-12-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	(k @ 95%)	Reported Conc	Uncertainty
Cis-1,2-Dichloroethene	156-59-2	1.000 ppm	2.571	1.062 ppm	± 0.039 ppm
2,2-Dichloropropane	594-20-7	1.000 ppm	2.571	1.074 ppm	± 0.043 ppm
Ethyl Tert Butyl Ether	637-92-3	1.000 ppm	2.571	1.072 ppm	± 0.042 ppm
1,1,1-Trichloroethane	71-55-6	1.000 ppm	2.571	1.057 ppm	± 0.038 ppm
1,1-Dichloropropene	563-58-6	1.000 ppm	2.571	1.063 ppm	± 0.040 ppm
Carbon Tetrachloride	56-23-5	1.000 ppm	2.571	1.060 ppm	± 0.043 ppm
Tert Amyl Methyl Ether	994-05-8	1.000 ppm	2.571	1.059 ppm	± 0.039 ppm
Dibromomethane	74-95-3	1.000 ppm	2.571	1.064 ppm	± 0.039 ppm
Bromodichloromethane	75-27-4	1.000 ppm	2.571	1.060 ppm	± 0.034 ppm
Methyl Methacrylate	80-62-6	1.000 ppm	2.571	1.067 ppm	± 0.041 ppm
1-Bromo-2-Chloroethane	107-04-0	1.000 ppm	2.571	1.065 ppm	± 0.042 ppm
Cis-1,3-Dichloropropene	10061-01-5	1.000 ppm	2.571	1.061 ppm	± 0.041 ppm
Methylcyclohexane	108-87-2	1.000 ppm	2.571	1.067 ppm	± 0.038 ppm
Trans-1,3-Dichloropropene	10061-02-6	1.000 ppm	2.571	1.062 ppm	± 0.043 ppm
1,1,2-Trichloroethane	79-00-5	1.000 ppm	2.571	1.060 ppm	± 0.038 ppm
1,3-Dichloropropane	142-28-9	1.000 ppm	2.571	1.061 ppm	± 0.039 ppm
Dibromochloromethane	124-48-1	1.000 ppm	2.571	1.055 ppm	± 0.041 ppm
1,2-Dibromoethane	106-93-4	1.000 ppm	2.571	1.065 ppm	± 0.040 ppm
n-Octane	111-65-9	1.000 ppm	2.571	1.056 ppm	± 0.034 ppm
1,1,1,2-Tetrachloroethane	630-20-6	1.000 ppm	2.571	1.062 ppm	± 0.031 ppm
Bromoform	75-25-2	1.000 ppm	2.571	1.040 ppm	± 0.031 ppm
Cyclohexanone	108-94-1	1.000 ppm	2.571	1.064 ppm	± 0.038 ppm
Styrene	100-42-5	1.000 ppm	2.571	1.061 ppm	± 0.032 ppm
1,1,2,2-Tetrachloroethane	79-34-5	1.000 ppm	2.571	1.060 ppm	± 0.030 ppm
1,2,3-Trichloropropane	96-18-4	1.000 ppm	2.571	1.073 ppm	± 0.031 ppm
Nonane	111-84-2	1.000 ppm	2.571	1.058 ppm	± 0.029 ppm
Bromobenzene	108-86-1	1.000 ppm	2.571	1.062 ppm	± 0.031 ppm

Linde Spectra Environmental Gases

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Linde North America, Inc.

80 Industrial Drive, Alpha, NJ 08865
Phone: +1.908.329-9700 FAX: +1.908.329-9740

ISO/IEC 17025

Analysis Report

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

PAGE: 4 of 5
Report ID: 39430
Revision: 0

Sales#:	117500304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1606798	**Cylinder # :**	CC-524929
Report Date:	Jun-12-2024	**Cylinder Pressure:**	2000 psig
P.O.#:	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17025	**Cylinder Volume:**	29.6 Liter
Material#:	24099162	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Dec-12-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	(k @ 95%)	Reported Conc	Uncertainty
2-Chlorotoluene	95-49-8	1.000 ppm	2.571	1.058 ppm	± 0.032 ppm
n-Propylbenzene	103-65-1	1.000 ppm	2.571	1.061 ppm	± 0.032 ppm
4-Ethyltoluene	622-96-8	1.000 ppm	2.571	1.061 ppm	± 0.039 ppm
1,3,5-Trimethylbenzene	108-67-8	1.000 ppm	2.571	1.055 ppm	± 0.029 ppm
alpha-Methyl Styrene (No Stability G	98-83-9	1.000 ppm	2.571	1.052 ppm	± 0.029 ppm
Tert-Butyl Benzene	98-06-6	1.000 ppm	2.571	1.054 ppm	± 0.028 ppm
1,2,4-Trimethylbenzene	95-63-6	1.000 ppm	2.571	1.057 ppm	± 0.028 ppm
1,3-Dichlorobenzene	541-73-1	1.000 ppm	2.571	1.063 ppm	± 0.028 ppm
Benzyl Chloride	100-44-7	1.000 ppm	2.571	1.064 ppm	± 0.028 ppm
n-Decane	124-18-5	1.000 ppm	2.571	1.057 ppm	± 0.028 ppm
1,4-Dichlorobenzene	106-46-7	1.000 ppm	2.571	1.050 ppm	± 0.040 ppm
sec-Butylbenzene	135-98-8	1.000 ppm	2.571	1.063 ppm	± 0.028 ppm
4-Isopropyltoluene	99-87-6	1.000 ppm	2.571	1.058 ppm	± 0.026 ppm
1,2-Dichlorobenzene	95-50-1	1.000 ppm	2.571	1.055 ppm	± 0.025 ppm
n-Butylbenzene	104-51-8	1.000 ppm	2.571	1.046 ppm	± 0.023 ppm
1,2-Dibromo-3-Chloropropane	96-12-8	1.000 ppm	2.571	1.059 ppm	± 0.025 ppm
n-Undecane	1120-21-4	1.000 ppm	2.571	1.050 ppm	± 0.023 ppm
1,2,4-Trichlorobenzene	120-82-1	1.000 ppm	2.571	1.121 ppm	± 0.023 ppm
n-Dodecane	112-40-3	1.000 ppm	2.571	1.074 ppm	± 0.018 ppm

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ISO/IEC 17025

Analysis Report

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

PAGE: 5 of 5
Report ID: 39430
Revision: 0

Sales#:	117500304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1606798	**Cylinder # :**	CC-524929
Report Date:	Jun-12-2024	**Cylinder Pressure:**	2000 psig
P.O.#:	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17025	**Cylinder Volume:**	29.5 Liter
Material#:	24099162	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Dec-12-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	(k @ 95%)	Reported Conc	Uncertainty
1,2,3-Trichlorobenzene	87-61-6	1.000 ppm	2.571	1.127 ppm	± 0.024 ppm *
Hexachloro-1,3-Butadiene	87-68-3	1.000 ppm	2.571	1.127 ppm	± 0.020 ppm *
Nitrogen	7727-37-9	Balance		Balance	

ANALYST: Lou Lorenzetti

DATE: Jun-12-2024

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SHIPPED TO:
AT-24 Secondary
Std. ID: 3390-420
Rec'd: 6/25/24
By: MJB

Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

ANALYSIS REPORT

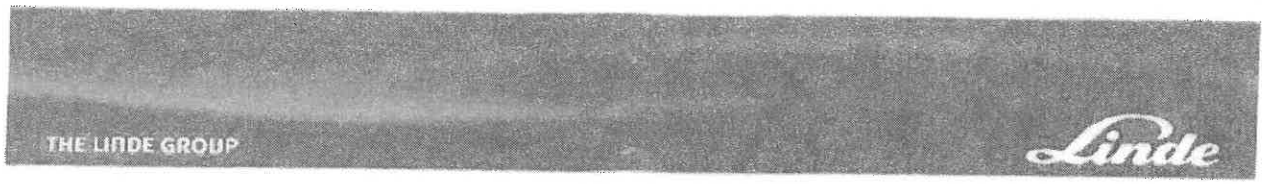
Sales#:	117500304
Production#:	1609441
Report Date:	Jun-13-2024
P.O.# :	75783440
Blend Type:	QUALIFIED
Material#:	24086943
Traceability:	NIST by weight
Expiration Date:	Dec-13-2025
Do NOT use under:	150 psig

Cylinder Size:	152 (8" X 47.5")
Cylinder # :	CC-524921
Cylinder Pressure:	2000 psig
Cylinder Valve:	CGA 350 / Steel
Cylinder Volume:	29.5 Liter
Cylinder Material:	Aluminum
Gas Volume:	4000 Liters
Blend Tolerance:	10% Relative
Analytical Accuracy:	5% Relative

1st Review: 3 out 7 ± 10%. MJB 6/25/24
2nd Review: 3 out 7 ± 10% ok 6/26/24

COMPONENT	CAS NUMBER	REQUESTED CONC	QUALIFIED CONC
1,1,1,2-Tetrafluoroethane	811-97-2	1.00 ppm	1.04 ppm
1,1-Difluoroethane	75-37-6	1.00 ppm	1.05 ppm
Propylene	115-07-1	1.00 ppm	1.05 ppm
Chlorodifluoromethane	75-45-6	1.00 ppm	1.03 ppm
Freon-12	75-71-8	1.00 ppm	1.03 ppm
Chloromethane	74-87-3	1.00 ppm	1.04 ppm
Isobutane	75-28-5	1.00 ppm	1.04 ppm
Freon-114	76-14-2	1.00 ppm	1.04 ppm
Vinyl Chloride	75-01-4	1.00 ppm	1.06 ppm
1,3-Butadiene	106-99-0	1.00 ppm	1.04 ppm
n-Butane	106-97-8	1.00 ppm	1.02 ppm
Bromomethane	74-83-9	1.00 ppm	1.04 ppm
Chloroethane	75-00-3	1.00 ppm	1.04 ppm
Dichlorofluoromethane	75-43-4	1.00 ppm	1.03 ppm
Vinyl Bromide	593-60-2	1.00 ppm	1.04 ppm
Ethanol (No Stability Guarantee)	64-17-5	1.00 ppm	1.16 ppm *
Acetonitrile (Analytical Accuracy ± 10%)	75-05-8	1.00 ppm	1.05 ppm
Acrolein (Analytical Accuracy ± 10%)	107-02-8	1.00 ppm	1.16 ppm *
Isopentane	78-78-4	1.00 ppm	1.05 ppm
Acetone	67-64-1	1.00 ppm	1.05 ppm
Freon-11	75-69-4	1.00 ppm	1.05 ppm
Isopropyl Alcohol	67-63-0	1.00 ppm	1.10 ppm
Acrylonitrile	107-13-1	1.00 ppm	1.04 ppm
n-Pentane	109-66-0	1.00 ppm	1.04 ppm
1,1-Dichloroethene	75-35-4	1.00 ppm	1.02 ppm
Carbon Disulfide (Analytical Accuracy ± 10%)	75-15-0	1.00 ppm	1.04 ppm
Methylene Chloride	75-09-2	1.00 ppm	0.95 ppm
Tert-Butanol	75-65-0	1.00 ppm	1.06 ppm
3-Chloropropene	107-05-1	1.00 ppm	1.04 ppm
Freon-113	76-13-1	1.00 ppm	1.02 ppm

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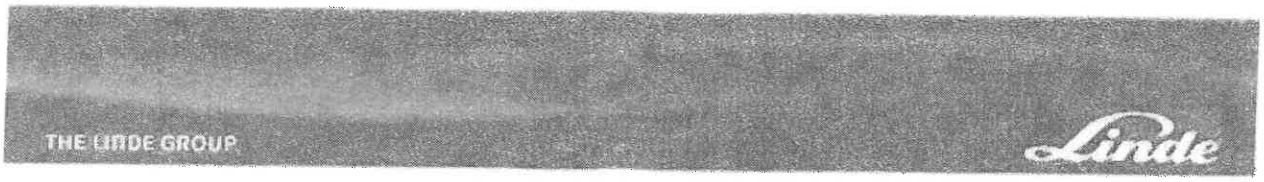


SHIPPED TO: Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

ANALYSIS REPORT

Sales#:	117500304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1609441	**Cylinder # :**	CC-524921
Report Date:	Jun-13-2024	**Cylinder Pressure:**	2000 psig
P.O.# :	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	QUALIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	24086943	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Dec-13-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	QUALIFIED CONC
Trans-1,2-Dichloroethene	156-60-5	1.00 ppm	1.03 ppm
1,1-Dichloroethane	75-34-3	1.00 ppm	1.07 ppm
Methyl Tert Butyl Ether	1634-04-4	1.00 ppm	1.02 ppm
Vinyl Acetate	108-05-4	1.00 ppm	1.10 ppm
Methyl Ethyl Ketone	78-93-3	1.00 ppm	1.04 ppm
Cis-1,2-Dichloroethene	156-59-2	1.00 ppm	1.05 ppm
n-Hexane	110-54-3	1.00 ppm	1.02 ppm
Chloroform	67-66-3	1.00 ppm	1.02 ppm
Ethyl Acetate	141-78-6	1.00 ppm	1.02 ppm
2,2-Dichloropropane	594-20-7	1.00 ppm	1.02 ppm
Diisopropyl Ether	108-20-3	1.00 ppm	1.01 ppm
Tetrahydrofuran	109-99-9	1.00 ppm	1.03 ppm
Ethyl Tert Butyl Ether	637-92-3	1.00 ppm	1.01 ppm
1,2-Dichloroethane	107-06-2	1.00 ppm	1.03 ppm
1,1,1-Trichloroethane	71-55-6	1.00 ppm	1.04 ppm
1,1-Dichloropropene	563-58-6	1.00 ppm	1.05 ppm
Benzene	71-43-2	1.00 ppm	1.07 ppm
1-Butanol	71-36-3	1.00 ppm	1.10 ppm
Carbon Tetrachloride	56-23-5	1.00 ppm	1.04 ppm
Cyclohexane	110-82-7	1.00 ppm	1.03 ppm
Tert Amyl Methyl Ether	994-05-8	1.00 ppm	1.04 ppm
Dibromomethane	74-95-3	1.00 ppm	1.03 ppm
1,2-Dichloropropane	78-87-5	1.00 ppm	1.04 ppm
Trichloroethylene	79-01-6	1.00 ppm	1.05 ppm
Bromodichloromethane	75-27-4	1.00 ppm	1.05 ppm
1,4-Dioxane	123-91-1	1.00 ppm	1.04 ppm
2,2,4-Trimethylpentane	540-84-1	1.00 ppm	1.04 ppm
Methyl Methacrylate	80-62-6	1.00 ppm	1.04 ppm
Heptane	142-82-5	1.00 ppm	1.03 ppm
1-Bromo-2-Chloroethane	107-04-0	1.00 ppm	1.03 ppm



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180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

ANALYSIS REPORT

Sales#:	117500804	**Cylinder Size:**	152 (9" X 47.5")
Production#:	1609441	**Cylinder # :**	CC-524921
Report Date:	Jun-13-2024	**Cylinder Pressure:**	2000 psig
P.O.# :	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	QUALIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	24086943	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Dec-13-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	QUALIFIED CONC
Cis-1,3-Dichloropropene	10061-01-5	1.00 ppm	1.05 ppm
Methylcyclohexane	108-87-2	1.00 ppm	1.05 ppm
Methyl Isobutyl Ketone	108-10-1	1.00 ppm	1.05 ppm
Trans-1,3-Dichloropropene	10061-02-6	1.00 ppm	0.94 ppm
1,1,2-Trichloroethane	79-00-5	1.00 ppm	1.05 ppm
Toluene	108-88-3	1.00 ppm	1.05 ppm
1,3-Dichloropropane	142-28-9	1.00 ppm	1.04 ppm
Methyl Butyl Ketone	591-78-6	1.00 ppm	1.00 ppm
Dibromochloromethane	124-48-1	1.00 ppm	1.03 ppm
1,2-Dibromoethane	106-93-4	1.00 ppm	1.03 ppm
n-Octane	111-65-9	1.00 ppm	1.03 ppm
Tetrachloroethylene	127-18-4	1.00 ppm	1.07 ppm
1,1,1,2-Tetrachloroethane	630-20-6	1.00 ppm	1.03 ppm
Chlorobenzene	108-90-7	1.00 ppm	1.03 ppm
Ethylbenzene	100-41-4	1.00 ppm	1.05 ppm
p-xylene	106-42-3	0.50 ppm	0.52 ppm
m-xylene	108-38-3	0.50 ppm	0.53 ppm
Bromoform	75-25-2	1.00 ppm	1.05 ppm
Cyclohexanone	108-94-1	1.00 ppm	1.07 ppm
Styrene	100-42-5	1.00 ppm	1.05 ppm
o-xylene	95-47-6	1.00 ppm	1.05 ppm
1,1,2,2-Tetrachloroethane	79-34-5	1.00 ppm	1.05 ppm
1,2,3-Trichloropropane	96-18-4	1.00 ppm	1.02 ppm
Nonane	111-84-2	1.00 ppm	1.02 ppm
Cumene	98-82-8	1.00 ppm	1.03 ppm
Bromobenzene	108-86-1	1.00 ppm	1.04 ppm
2-Chlorotoluene	95-49-8	1.00 ppm	1.06 ppm
n-Propylbenzene	103-65-1	1.00 ppm	1.05 ppm

THE LINDE GROUP

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SHIPPED TO: Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

ANALYSIS REPORT

Sales#:	117500304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1809441	**Cylinder # :**	CC-524921
Report Date:	Jun-13-2024	**Cylinder Pressure:**	2000 psig
P.O.# :	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	QUALIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	24086943	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Dec-13-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	QUALIFIED CONC
4-Ethyltoluene	622-96-8	1.00 ppm	1.05 ppm
1,3,5-Trimethylbenzene	108-67-8	1.00 ppm	1.06 ppm
alpha-Methyl Styrene (No Stability Guarantee)	98-83-9	1.00 ppm	1.06 ppm
Tert-Butyl Benzene	98-06-6	1.00 ppm	1.06 ppm
1,2,4-Trimethylbenzene	95-63-6	1.00 ppm	1.06 ppm
1,3-Dichlorobenzene	541-73-1	1.00 ppm	1.06 ppm
Benzyl Chloride (Analytical Accuracy ± 10%)	100-44-7	1.00 ppm	1.06 ppm
n-Decane	124-18-5	1.00 ppm	1.06 ppm
1,4-Dichlorobenzene	106-46-7	1.00 ppm	1.06 ppm
sec-Butylbenzene	135-98-8	1.00 ppm	1.04 ppm
4-Isopropyltoluene	99-87-6	1.00 ppm	1.04 ppm
1,2-Dichlorobenzene	95-50-1	1.00 ppm	1.07 ppm
n-Butylbenzene	104-51-8	1.00 ppm	1.05 ppm
1,2-Dibromo-3-Chloropropane	96-12-8	1.00 ppm	1.07 ppm
n-Undecane	1120-21-4	1.00 ppm	1.05 ppm
1,2,4-Trichlorobenzene	120-82-1	1.00 ppm	1.07 ppm
Naphthalene (Analytical Accuracy ± 10%)	91-20-3	0.10 ppm	0.12 ppm *
n-Dodecane	112-40-3	1.00 ppm	1.05 ppm
1,2,3-Trichlorobenzene	87-61-6	1.00 ppm	1.09 ppm
Hexachloro-1,3-Butadiene	87-68-3	1.00 ppm	1.07 ppm
Nitrogen	7727-37-9	Balance	Balance

ANALYST: Lou Lorenzetti

Lou Lorenzetti

DATE: Jun-13-2024

Linde Gas North America LLC

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US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/10SEP24.b/a091005.d
Lab Smp Id: ICAL Level 2 Client Smp ID: ICAL Level 2
Inj Date : 10-SEP-2024 12:43
Operator : TO Inst ID: msda.i
Smp Info : 20mL 3018-4809
Misc Info : 0.5ppbv(5.0ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Meth Date : 10-Sep-2024 18:16 h6wn Quant Type: ISTD
Cal Date : 10-SEP-2024 12:43 Cal File: a091005.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24_Level2.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	271489	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	211296			46.45- 106.45	77.83
5.428	5.428 (1.000)	49	557521			167.12- 227.12	205.36
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	995665	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	166959			0.00- 46.36	16.77
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.153 (1.000)	117	916605	25.0000		80.00- 120.00	100.00
9.153	9.153 (1.000)	82	525368			27.12- 87.12	57.32
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	474802	25.0000	25.040	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	221397			23.36- 83.36	46.63
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.210)	98	1035318	25.0000	24.900	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	117574			0.00- 41.92	11.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.210)	100	704322			39.07- 99.07	68.03
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.299	10.299 (1.125)	174	604734	25.0000	24.658	80.00- 120.00	100.00
10.292	10.299 (1.124)	95	726167			89.27- 149.27	120.08
10.299	10.299 (1.125)	176	581240			66.29- 126.29	96.11
10 Freon 12					CAS #: 75-71-8		
1.445	1.452 (0.266)	85	17738	0.50000	0.5235	80.00- 120.00	100.00
1.445	1.452 (0.266)	87	5606			1.90- 61.90	31.60
15 Freon 114					CAS #: 76-14-2		
1.560	1.560 (0.287)	135	11852	0.50000	0.5264	80.00- 120.00	100.00
1.560	1.560 (0.287)	137	3429			1.76- 61.76	28.93
24 Vinyl Chloride					CAS #: 75-01-4		
1.746	1.746 (0.322)	62	7015	0.50000	0.5147	80.00- 120.00	100.00(Q)
1.732	1.746 (0.319)	64	5191			0.00- 59.56	74.00
25 1,3-Butadiene					CAS #: 106-99-0		
1.768	1.768 (0.326)	54	6556	0.50000	0.5001	80.00- 120.00	100.00
1.768	1.768 (0.326)	39	7734			64.19- 124.19	117.97
33 Freon 11					CAS #: 75-69-4		
2.441	2.448 (0.450)	101	19153	0.50000	0.5085	80.00- 120.00	100.00
2.441	2.448 (0.450)	103	12717			35.49- 95.49	66.40
47 Freon 113					CAS #: 76-13-1		
3.057	3.057 (0.563)	151	11134	0.50000	0.5063	80.00- 120.00	100.00
3.057	3.057 (0.563)	153	7394			33.72- 93.72	66.41
3.057	3.057 (0.563)	101	15086			94.86- 154.86	135.49
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.086	3.086 (0.568)	98	4106	0.50000	0.5314	80.00- 120.00	100.00(Q)
3.086	3.086 (0.568)	96	5286			127.35- 187.35	128.74
3.086	3.086 (0.568)	61	13162			327.38- 387.38	320.56
58 3-Chloropropene					CAS #: 107-05-1		
3.580	3.573 (0.660)	76	2815	0.50000	0.5121	80.00- 120.00	100.00
3.573	3.573 (0.658)	41	10929			369.70- 429.70	388.24
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	4201	0.50000	0.5233	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	12135			282.80- 342.80	288.86
4.024	4.024 (0.741)	96	5628			122.91- 182.91	133.97

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
74 Acrylonitrile						CAS #: 107-13-1	
4.131	4.131 (0.761)	52	6572	0.50000	0.5161	80.00- 120.00	100.00
4.138	4.131 (0.762)	53	7791			88.44- 148.44	118.55
78 Hexane						CAS #: 110-54-3	
4.246	4.246 (0.782)	57	13176	0.50000	0.4998	80.00- 120.00	100.00(a)
4.246	4.246 (0.782)	43	9462			34.01- 94.01	71.81
4.246	4.246 (0.782)	86	1541			0.00- 40.22	11.70
83 1,1-Dichloroethane						CAS #: 75-34-3	
4.547	4.547 (0.838)	63	13932	0.50000	0.5068	80.00- 120.00	100.00
4.547	4.547 (0.838)	65	3897			0.00- 59.58	27.97
91 cis-1,2-Dichloroethene						CAS #: 156-59-2	
5.177	5.177 (0.954)	98	4077	0.50000	0.4970	80.00- 120.00	100.00(a)
5.177	5.177 (0.954)	96	6604			123.49- 183.49	161.98
5.177	5.177 (0.954)	61	14615			310.35- 370.35	358.47
99 Tetrahydrofuran						CAS #: 109-99-9	
5.428	5.414 (1.000)	42	10762	0.50000	0.5208	80.00- 120.00	100.00
5.428	5.414 (1.000)	71	2201			0.00- 56.60	20.45
5.435	5.414 (1.001)	72	2680			0.00- 56.86	24.90
103 Chloroform						CAS #: 67-66-3	
5.507	5.507 (1.015)	83	15078	0.50000	0.5081	80.00- 120.00	100.00
5.507	5.507 (1.015)	85	9634			34.90- 94.90	63.89
104 Cyclohexane						CAS #: 110-82-7	
5.607	5.600 (1.033)	84	8147	0.50000	0.5172	80.00- 120.00	100.00
5.600	5.600 (1.032)	56	14471			152.85- 212.85	177.62
5.600	5.600 (1.032)	41	8309			65.81- 125.81	101.99
106 1,1,1-Trichloroethane						CAS #: 71-55-6	
5.628	5.629 (1.037)	97	15423	0.50000	0.5076	80.00- 120.00	100.00
5.628	5.629 (1.037)	99	10488			34.79- 94.79	68.00
112 Carbon Tetrachloride						CAS #: 56-23-5	
5.750	5.750 (1.059)	119	17068	0.50000	0.5105	80.00- 120.00	100.00
5.750	5.750 (1.059)	117	17105			73.63- 133.63	100.22
117 2,2,4-Trimethylpentane						CAS #: 540-84-1	
5.965	5.972 (1.099)	57	41684	0.50000	0.5030	80.00- 120.00	100.00
5.965	5.972 (1.099)	56	14273			2.18- 62.18	34.24
5.965	5.972 (1.099)	41	12379			0.00- 55.61	29.70
118 Benzene						CAS #: 71-43-2	
5.987	5.987 (0.934)	78	18347	0.50000	0.5122	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
118 Benzene (continued)							
5.987	5.987 (0.934)	77	4212			0.00- 53.99	22.96
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.094	6.094 (0.951)	62	11292	0.50000	0.4804	80.00- 120.00	100.00(a)
6.094	6.094 (0.951)	64	5190			1.65- 61.65	45.96
122 Heptane					CAS #: 142-82-5		
6.166	6.166 (0.962)	71	6359	0.50000	0.5062	80.00- 120.00	100.00
6.158	6.166 (0.961)	43	16379			240.22- 300.22	257.57
6.166	6.166 (0.962)	57	9248			110.36- 170.36	145.43
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	9990	0.50000	0.5266	80.00- 120.00	100.00
6.617	6.617 (1.032)	130	7885			67.98- 127.98	78.93
6.624	6.617 (1.034)	97	5058			34.45- 94.45	50.63
131 Methylcyclohexane					CAS #: 108-87-2		
6.717	6.724 (1.238)	83	10984	0.50000	0.5124	80.00- 120.00	100.00(a)
6.717	6.724 (1.238)	98	4967			14.33- 74.33	45.22
6.717	6.724 (1.238)	55	13081			96.87- 156.87	119.09
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.073)	63	9245	0.50000	0.5088	80.00- 120.00	100.00
6.882	6.875 (1.074)	62	6563			41.06- 101.06	70.99
6.875	6.875 (1.073)	41	6178			28.31- 88.31	66.83
141 Dibromomethane					CAS #: 74-95-3		
7.004	7.004 (0.765)	174	9637	0.50000	0.5236	80.00- 120.00	100.00
6.997	6.997 (0.764)	93	8811			66.30- 126.30	91.43
6.997	6.997 (0.764)	95	7116			49.87- 109.87	73.84
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.114)	83	16052	0.50000	0.5016	80.00- 120.00	100.00
7.140	7.140 (1.114)	85	10712			34.86- 94.86	66.73
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.562	7.563 (1.180)	75	11594	0.50000	0.4716	80.00- 120.00	100.00(a)
7.562	7.563 (1.180)	77	4144			1.88- 61.88	35.74
7.562	7.563 (1.180)	39	7677			33.29- 93.29	66.22
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.691	7.691 (1.200)	58	8007	0.50000	0.4769	80.00- 120.00	100.00(aQ)
7.691	7.691 (1.200)	43	24207			235.08- 295.08	302.32
7.691	7.691 (1.200)	85	2628			0.69- 60.69	32.82

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
153 Toluene						CAS #: 108-88-3	
7.820	7.820 (1.220)	91	24316	0.50000	0.5142	80.00- 120.00	100.00
7.820	7.820 (1.220)	92	14130			27.69- 87.69	58.11
151 Octane						CAS #: 111-65-9	
7.849	7.849 (1.225)	57	10514	0.50000	0.5198	80.00- 120.00	100.00
7.849	7.849 (1.225)	85	7764			46.75- 106.75	73.84
7.842	7.842 (1.224)	43	24964			221.22- 281.22	237.44
154 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
8.114	8.114 (0.887)	75	11310	0.50000	0.5030	80.00- 120.00	100.00
8.114	8.114 (0.887)	77	3593			1.61- 61.61	31.77
8.114	8.114 (0.887)	39	6124			26.86- 86.86	54.15
158 1,1,2-Trichloroethane						CAS #: 79-00-5	
8.279	8.279 (0.905)	97	8647	0.50000	0.5218	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	5983			32.96- 92.96	69.19
8.279	8.279 (0.905)	83	7986			59.05- 119.05	92.36
159 Tetrachloroethene						CAS #: 127-18-4	
8.307	8.308 (0.908)	166	13945	0.50000	0.5397	80.00- 120.00	100.00
8.307	8.308 (0.908)	129	8824			46.43- 106.43	63.28
8.307	8.308 (0.908)	131	9098			45.56- 105.56	65.24
161 1,3-Dichloropropane						CAS #: 142-28-9	
8.443	8.444 (1.317)	76	12938	0.50000	0.5205	80.00- 120.00	100.00(a)
8.443	8.444 (1.317)	41	13414			59.80- 119.80	103.68
8.443	8.444 (1.317)	78	3775			2.58- 62.58	29.18
163 Dibromochloromethane						CAS #: 124-48-1	
8.623	8.630 (0.942)	129	17012	0.50000	0.4956	80.00- 120.00	100.00(a)
8.630	8.630 (0.943)	127	13649			47.90- 107.90	80.23
164 1,2-Dibromoethane (EDB)						CAS #: 106-93-4	
8.744	8.744 (0.955)	107	15166	0.50000	0.5103	80.00- 120.00	100.00
8.744	8.744 (0.955)	109	14284			64.00- 124.00	94.18
166 Chlorobenzene						CAS #: 108-90-7	
9.174	9.181 (1.002)	112	21099	0.50000	0.5243	80.00- 120.00	100.00(Q)
9.181	9.181 (1.003)	114	7805			2.75- 62.75	36.99
9.167	9.181 (1.002)	77	21683			30.27- 90.27	102.77
167 Ethyl Benzene						CAS #: 100-41-4	
9.246	9.246 (1.010)	106	9985	0.50000	0.5015	80.00- 120.00	100.00
9.246	9.246 (1.010)	91	31655			281.27- 341.27	317.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	11904	0.50000	0.5065	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	10496			34.91- 94.91	88.17
9.267	9.267 (1.013)	95	4913			10.71- 70.71	41.27
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.361 (1.023)	106	11980	0.50000	0.4922	80.00- 120.00	100.00(a)
9.360	9.361 (1.023)	91	26220			176.41- 236.41	218.86
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	10223	0.50000	0.4642	80.00- 120.00	100.00(a)
9.747	9.747 (1.065)	91	24488			186.60- 246.60	239.54
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.068)	104	19059	0.50000	0.4899	80.00- 120.00	100.00(a)
9.776	9.776 (1.068)	78	9632			26.08- 86.08	50.54
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	18189	0.50000	0.5047	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	9226			22.58- 82.58	50.72
185 Cumene					CAS #: 98-82-8		
10.084	10.091 (1.102)	105	35665	0.50000	0.4871	80.00- 120.00	100.00(a)
10.084	10.091 (1.102)	120	9425			0.00- 55.43	26.43
10.084	10.091 (1.102)	51	5462			0.00- 44.39	15.31
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.144)	83	20730	0.50000	0.5210	80.00- 120.00	100.00
10.471	10.471 (1.144)	85	12991			35.63- 95.63	62.67
196 Propylbenzene					CAS #: 103-65-1		
10.485	10.492 (1.146)	120	9457	0.50000	0.4873	80.00- 120.00	100.00(a)
10.485	10.492 (1.146)	91	43233			403.96- 463.96	457.15
10.485	10.492 (1.146)	105	1555			0.00- 46.94	16.44
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.149)	110	6860	0.50000	0.5344	80.00- 120.00	100.00
10.521	10.521 (1.149)	75	18294			232.06- 292.06	266.68
10.521	10.521 (1.149)	61	5853			62.53- 122.53	85.32
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.158)	120	11062	0.50000	0.5065	80.00- 120.00	100.00
10.600	10.600 (1.158)	105	37193			317.00- 377.00	336.22
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.159)	126	8962	0.50000	0.5069	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.607	10.607 (1.159)	91	33077			317.25- 377.25	369.08
10.600	10.607 (1.158)	65	5465			32.33- 92.33	60.98
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.664	10.671 (1.165)	120	14077	0.50000	0.4897	80.00- 120.00	100.00(a)
10.664	10.671 (1.165)	105	32161			190.09- 250.09	228.46
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.900	10.901 (1.191)	118	13945	0.50000	0.4652	80.00- 120.00	100.00(a)
10.900	10.901 (1.191)	103	8910			32.49- 92.49	63.89
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.206)	120	12420	0.50000	0.4734	80.00- 120.00	100.00(a)
11.037	11.037 (1.206)	105	32212			204.98- 264.98	259.36
214 sec-Butylbenzene					CAS #: 135-98-8		
11.187	11.194 (1.222)	134	8280	0.50000	0.4820	80.00- 120.00	100.00(a)
11.187	11.194 (1.222)	105	44503			484.40- 544.40	537.48
11.187	11.187 (1.222)	91	7430			54.94- 114.94	89.73
216 p-Cymene					CAS #: 99-87-6		
11.330	11.337 (1.238)	119	37455	0.50000	0.4921	80.00- 120.00	100.00(a)
11.330	11.337 (1.238)	134	8637			0.00- 55.89	23.06
11.330	11.330 (1.238)	91	9724			0.00- 56.21	25.96
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.240)	146	20130	0.50000	0.4894	80.00- 120.00	100.00(a)
11.352	11.352 (1.240)	148	13834			33.67- 93.67	68.72
11.352	11.352 (1.240)	111	10191			13.82- 73.82	50.63
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.250)	146	21267	0.50000	0.4970	80.00- 120.00	100.00(a)
11.445	11.445 (1.250)	148	12855			34.50- 94.50	60.45
11.445	11.445 (1.250)	111	8984			12.20- 72.20	42.24
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.595	11.595 (1.267)	91	28174	0.50000	0.4681	80.00- 120.00	100.00(a)
11.595	11.595 (1.267)	126	6115			0.00- 50.42	21.70
220 Butylbenzene					CAS #: 104-51-8		
11.738	11.739 (1.283)	134	8221	0.50000	0.4553	80.00- 120.00	100.00(aQ)
11.738	11.739 (1.283)	91	36633			345.70- 405.70	445.60
11.738	11.739 (1.283)	92	18558			168.03- 228.03	225.74
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.817	11.817 (1.291)	146	20616	0.50000	0.5019	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
222 1,2-Dichlorobenzene (continued)							
11.824	11.817 (1.292)	148	14031			33.89- 93.89	68.06
11.817	11.817 (1.291)	111	9096			15.34- 75.34	44.12

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a091005.d
Lab Smp Id: ICAL Level 2
Analysis Type: VOA
Quant Type: ISTD
Operator: TO
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 0.5ppbv(5.0ppbv)

Calibration Date: 10-SEP-2024
Calibration Time: 15:01
Client Smp ID: ICAL Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	272599	163559	381639	271489	-0.41
126 1,4-Difluorobenze	989537	593722	1385352	995665	0.62
165 Chlorobenzene-d5	922551	553531	1291571	916605	-0.64

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	-0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	-0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/10SEP24.b/a091005.d

Date : 10-SEP-2024 12:43

Client ID: ICAL Level 2

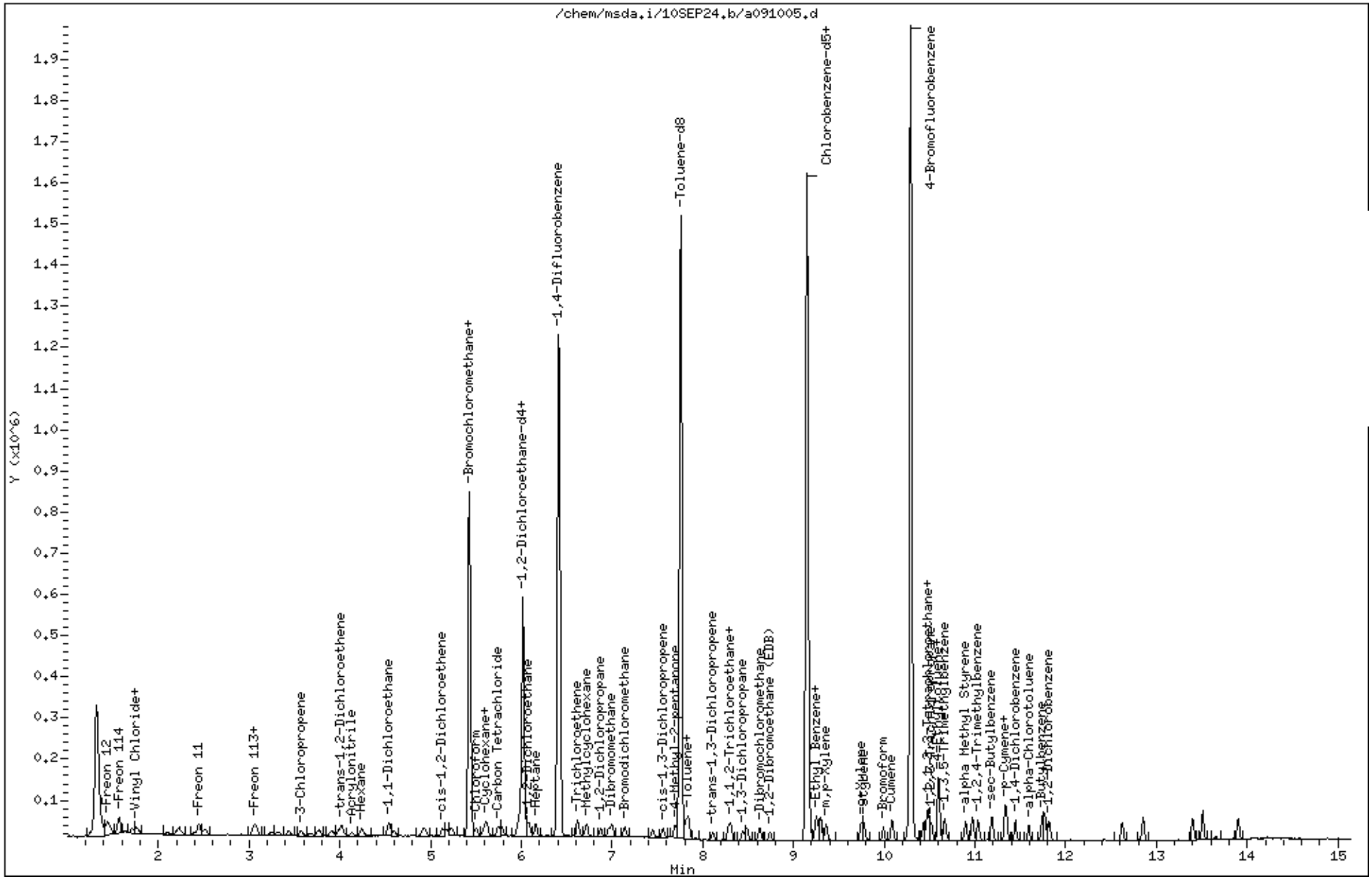
Sample Info: 20mL 3018-4809

Column phase: RTX-624

Instrument: msda.i

Operator: TO

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/10SEP24.b/a091006.d
Lab Smp Id: ICAL Level 3 Client Smp ID: ICAL Level 3
Inj Date : 10-SEP-2024 13:17
Operator : TO Inst ID: msda.i
Smp Info : 40mL 3018-4809
Misc Info : 1.0ppbv(5.0ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Meth Date : 10-Sep-2024 18:16 h6wn Quant Type: ISTD
Cal Date : 10-SEP-2024 13:17 Cal File: a091006.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24_Level3.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 100 Bromochloromethane						CAS #: 74-97-5	
5.428	5.428 (1.000)	130	271092	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	213498			46.45- 106.45	78.75
5.428	5.428 (1.000)	49	566005			167.12- 227.12	208.79
$ 119 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
6.015	6.015 (1.108)	65	481623	25.0000	25.289	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	227661			23.36- 83.36	47.27
* 126 1,4-Difluorobenzene						CAS #: 540-36-3	
6.409	6.409 (1.000)	114	1030217	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	166272			0.00- 46.36	16.14
$ 152 Toluene-d8						CAS #: 2037-26-5	
7.756	7.756 (1.210)	98	1065000	25.0000	24.836	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	130733			0.00- 41.92	12.28
7.756	7.756 (1.210)	100	728391			39.07- 99.07	68.39
* 165 Chlorobenzene-d5						CAS #: 3114-55-4	
9.153	9.153 (1.000)	117	953714	25.0000		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 165 Chlorobenzene-d5 (continued)							
9.153	9.153 (1.000)	82	542365			27.12- 87.12	56.87
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.299	10.299 (1.125)	174	613824	25.0000	24.362	80.00- 120.00	100.00
10.292	10.299 (1.124)	95	753275			89.27- 149.27	122.72
10.299	10.299 (1.125)	176	604512			66.29- 126.29	98.48
6 Freon 134a					CAS #: 811-97-2		
1.381	1.388 (0.254)	83	12311	1.00000	0.9844	80.00- 120.00	100.00(a)
1.381	1.388 (0.254)	69	10161			41.53- 101.53	82.54
1.381	1.388 (0.254)	63	1206			0.00- 42.30	9.80
8 Propylene					CAS #: 115-07-1		
1.417	1.424 (0.261)	41	13042	1.00000	1.050	80.00- 120.00	100.00(a)
1.417	1.424 (0.261)	42	8083			38.18- 98.18	61.98
1.417	1.424 (0.261)	39	8947			40.18- 100.18	68.60
9 1,1-Difluoroethane					CAS #: 75-37-6		
1.431	1.431 (0.264)	65	7213	1.00000	1.020	80.00- 120.00	100.00(a)
1.474	1.474 (0.272)	51	29243			362.20- 422.20	405.42
1.431	1.438 (0.264)	47	5112			41.18- 101.18	70.87
10 Freon 12					CAS #: 75-71-8		
1.445	1.452 (0.266)	85	32605	1.00000	0.9755	80.00- 120.00	100.00
1.445	1.452 (0.266)	87	11308			1.90- 61.90	34.68
12 Chlorodifluoromethane					CAS #: 75-45-6		
1.474	1.481 (0.272)	67	3018	1.00000	0.9322	80.00- 120.00	100.00(Q)
1.474	1.474 (0.272)	51	29243			756.67- 816.67	968.95
15 Freon 114					CAS #: 76-14-2		
1.560	1.560 (0.287)	135	21056	1.00000	0.9568	80.00- 120.00	100.00
1.560	1.560 (0.287)	137	6994			1.76- 61.76	33.22
16 Isobutane					CAS #: 75-28-5		
1.567	1.574 (0.289)	43	27890	1.00000	1.020	80.00- 120.00	100.00(a)
1.567	1.574 (0.289)	42	10007			2.85- 62.85	35.88
1.574	1.574 (0.290)	58	818			0.00- 33.52	2.93
22 Butane					CAS #: 106-97-8		
1.703	1.703 (0.314)	58	3198	1.00000	1.140	80.00- 120.00	100.00(aQ)
1.703	1.703 (0.314)	43	17942			706.79- 766.79	561.04
24 Vinyl Chloride					CAS #: 75-01-4		
1.739	1.746 (0.320)	62	11301	1.00000	0.8802	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
24 Vinyl Chloride (continued)							
1.739	1.746 (0.320)	64	3778			0.00- 59.56	33.43
25 1,3-Butadiene					CAS #: 106-99-0		
1.760	1.768 (0.324)	54	10171	1.00000	0.8393	80.00- 120.00	100.00
1.760	1.768 (0.324)	39	9936			64.19- 124.19	97.69
30 Chloroethane					CAS #: 75-00-3		
2.197	2.205 (0.405)	64	6768	1.00000	1.017	80.00- 120.00	100.00(a)
2.204	2.205 (0.406)	66	2297			0.20- 60.20	33.94
2.197	2.205 (0.405)	49	3117			7.38- 67.38	46.05
31 Isopentane					CAS #: 78-78-4		
2.226	2.233 (0.410)	43	20187	1.00000	1.053	80.00- 120.00	100.00(a)
2.226	2.233 (0.410)	57	11800			38.61- 98.61	58.45
32 Vinyl Bromide					CAS #: 593-60-2		
2.391	2.398 (0.440)	106	10698	1.00000	0.9635	80.00- 120.00	100.00
2.398	2.398 (0.442)	108	9841			62.27- 122.27	91.99
33 Freon 11					CAS #: 75-69-4		
2.441	2.448 (0.450)	101	37845	1.00000	1.004	80.00- 120.00	100.00
2.441	2.448 (0.450)	103	26044			35.49- 95.49	68.82
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.448	2.455 (0.451)	67	29035	1.00000	1.024	80.00- 120.00	100.00(a)
2.448	2.455 (0.451)	69	8646			0.95- 60.95	29.78
37 Pentane					CAS #: 109-66-0		
2.513	2.513 (0.463)	43	29490	1.00000	1.015	80.00- 120.00	100.00
2.513	2.513 (0.463)	57	4634			0.00- 45.38	15.71
2.505	2.520 (0.462)	72	2020			0.00- 37.02	6.85
42 Ethanol					CAS #: 64-17-5		
2.770	2.763 (0.510)	46	3341	1.22300	1.320	80.00- 120.00	100.00(aM1)
2.770	2.763 (0.510)	45	7822			225.08- 285.08	234.12
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.562)	55	5912	1.16600	1.171	80.00- 120.00	100.00(a)
3.057	3.050 (0.563)	56	8794			109.39- 169.39	148.75
47 Freon 113					CAS #: 76-13-1		
3.050	3.057 (0.562)	151	21837	1.00000	0.9963	80.00- 120.00	100.00
3.057	3.057 (0.563)	153	12691			33.72- 93.72	58.12
3.057	3.057 (0.563)	101	28357			94.86- 154.86	129.86

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.086	3.086 (0.568)	98	7205	1.00000	0.9548	80.00- 120.00	100.00
3.086	3.086 (0.568)	96	11371			127.35- 187.35	157.82
3.086	3.086 (0.568)	61	24249			327.38- 387.38	336.56
54 Carbon Disulfide					CAS #: 75-15-0		
3.322	3.322 (0.612)	76	35142	1.00000	1.034	80.00- 120.00	100.00(a)
57 2-Propanol					CAS #: 67-63-0		
3.437	3.422 (0.633)	45	35640	1.16600	1.194	80.00- 120.00	100.00(a)
3.437	3.422 (0.633)	43	7992			0.00- 48.07	22.42
3.437	3.422 (0.633)	59	1205			0.00- 33.65	3.38
58 3-Chloropropene					CAS #: 107-05-1		
3.573	3.573 (0.658)	76	5254	1.00000	0.9711	80.00- 120.00	100.00(Q)
3.573	3.573 (0.658)	41	23183			369.70- 429.70	441.24
60 Acetonitrile					CAS #: 75-05-8		
3.673	3.673 (0.677)	40	11292	1.15600	1.356	80.00- 120.00	100.00(aQ)
3.680	3.673 (0.678)	41	17900			161.56- 221.56	158.52
3.766	3.773 (0.694)	38	247			0.00- 31.07	2.19
70 tert-Butyl alcohol					CAS #: 75-65-0		
3.909	3.902 (0.720)	59	42472	1.16300	1.228	80.00- 120.00	100.00(a)
3.909	3.902 (0.720)	41	10138			0.00- 51.01	23.87
3.916	3.902 (0.722)	57	4644			0.00- 41.01	10.93
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.995	3.995 (0.736)	73	34745	1.00000	0.9964	80.00- 120.00	100.00
3.995	3.995 (0.736)	57	12136			0.93- 60.93	34.93
3.995	3.995 (0.736)	41	12943			0.00- 59.87	37.25
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	8289	1.00000	1.022	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	23469			282.80- 342.80	283.13
4.024	4.024 (0.741)	96	11264			122.91- 182.91	135.89
74 Acrylonitrile					CAS #: 107-13-1		
4.131	4.131 (0.761)	52	10910	1.00000	0.9006	80.00- 120.00	100.00
4.131	4.131 (0.761)	53	14963			88.44- 148.44	137.15
78 Hexane					CAS #: 110-54-3		
4.239	4.246 (0.781)	57	26086	1.00000	0.9940	80.00- 120.00	100.00
4.239	4.246 (0.781)	43	18127			34.01- 94.01	69.49
4.246	4.246 (0.782)	86	2756			0.00- 40.22	10.57

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
82 Isopropyl ether						CAS #: 108-20-3	
4.540	4.540 (0.836)	45	61781	1.00000	1.026	80.00- 120.00	100.00(a)
4.532	4.540 (0.835)	87	9055			0.00- 47.08	14.66
4.540	4.540 (0.836)	59	6988			0.00- 40.83	11.31
83 1,1-Dichloroethane						CAS #: 75-34-3	
4.547	4.547 (0.838)	63	26984	1.00000	0.9886	80.00- 120.00	100.00
4.547	4.547 (0.838)	65	7859			0.00- 59.58	29.12
84 Vinyl Acetate						CAS #: 108-05-4	
4.597	4.597 (0.847)	86	2259	1.16200	0.9657	80.00- 120.00	100.00(aQ)
4.597	4.597 (0.847)	43	47948			1663.30-1723.30	2122.53
88 Ethyl-tert-butyl ether						CAS #: 637-92-3	
4.926	4.927 (0.908)	59	49809	1.00000	0.9646	80.00- 120.00	100.00(a)
4.926	4.927 (0.908)	87	15966			0.00- 58.78	32.05
4.926	4.927 (0.908)	41	11804			0.00- 48.47	23.70
90 2,2-Dichloropropane						CAS #: 594-20-7	
5.134	5.134 (0.946)	77	26627	1.00000	1.020	80.00- 120.00	100.00(a)
5.127	5.134 (0.945)	79	8757			2.20- 62.20	32.89
5.127	5.134 (0.945)	97	4410			0.00- 50.29	16.56
91 cis-1,2-Dichloroethene						CAS #: 156-59-2	
5.177	5.177 (0.954)	98	8311	1.00000	1.010	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	13239			123.49- 183.49	159.29
5.177	5.177 (0.954)	61	28908			310.35- 370.35	347.83
92 2-Butanone						CAS #: 78-93-3	
5.213	5.206 (0.960)	72	6269	1.00000	1.022	80.00- 120.00	100.00(aQ)
5.227	5.206 (0.963)	43	79424			1272.59-1332.59	1266.93
5.206	5.206 (0.959)	57	2618			18.61- 78.61	41.76
93 Ethyl Acetate						CAS #: 141-78-6	
5.234	5.227 (0.964)	70	2998	1.00000	0.9847	80.00- 120.00	100.00(aQ)
5.177	5.177 (0.954)	61	28908			877.60- 937.60	964.24
5.234	5.227 (0.964)	45	8274			179.24- 239.24	275.98
99 Tetrahydrofuran						CAS #: 109-99-9	
5.428	5.414 (1.000)	42	21045	1.00000	1.013	80.00- 120.00	100.00
5.428	5.414 (1.000)	71	5516			0.00- 56.60	26.21
5.428	5.414 (1.000)	72	4834			0.00- 56.86	22.97
103 Chloroform						CAS #: 67-66-3	
5.507	5.507 (1.014)	83	31203	1.00000	1.035	80.00- 120.00	100.00
5.507	5.507 (1.014)	85	20307			34.90- 94.90	65.08

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
104 Cyclohexane					CAS #: 110-82-7		
5.600	5.600 (1.032)	84	14560	1.00000	0.9492	80.00- 120.00	100.00
5.600	5.600 (1.032)	56	29014			152.85- 212.85	199.27
5.600	5.600 (1.032)	41	15594			65.81- 125.81	107.10
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.628	5.629 (1.037)	97	29813	1.00000	0.9884	80.00- 120.00	100.00
5.628	5.629 (1.037)	99	19067			34.79- 94.79	63.96
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.750	5.750 (1.059)	119	34756	1.00000	1.027	80.00- 120.00	100.00
5.750	5.750 (1.059)	117	35881			73.63- 133.63	103.24
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.786	5.793 (0.903)	110	6741	1.00000	0.9670	80.00- 120.00	100.00(a)
5.786	5.793 (0.903)	75	20071			260.30- 320.30	297.75
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.972	5.972 (1.100)	57	78916	1.00000	0.9686	80.00- 120.00	100.00
5.972	5.972 (1.100)	56	26066			2.18- 62.18	33.03
5.972	5.972 (1.100)	41	22867			0.00- 55.61	28.98
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	34217	1.00000	0.9474	80.00- 120.00	100.00
5.987	5.987 (0.934)	77	8592			0.00- 53.99	25.11
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.080	6.073 (1.120)	87	7876	1.00000	0.9288	80.00- 120.00	100.00(aQ)
6.073	6.073 (1.119)	73	35212			362.99- 422.99	447.08
6.073	6.073 (1.119)	55	16267			122.42- 182.42	206.54
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.094	6.094 (0.951)	62	24419	1.00000	1.003	80.00- 120.00	100.00
6.094	6.094 (0.951)	64	7635			1.65- 61.65	31.27
122 Heptane					CAS #: 142-82-5		
6.158	6.166 (0.961)	71	11415	1.00000	0.9154	80.00- 120.00	100.00
6.158	6.166 (0.961)	43	33202			240.22- 300.22	290.86
6.158	6.166 (0.961)	57	16323			110.36- 170.36	143.00
128 n-Butanol					CAS #: 71-36-3		
6.624	6.617 (1.034)	56	15541	1.00000	0.9887	80.00- 120.00	100.00(a)
6.624	6.617 (1.034)	41	13363			39.42- 99.42	85.99
6.624	6.617 (1.034)	43	9604			25.37- 85.37	61.80
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	17314	1.00000	0.9182	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
129 Trichloroethene (continued)							
6.624	6.617 (1.034)	130	16652			67.98- 127.98	96.18
6.617	6.617 (1.032)	97	11076			34.45- 94.45	63.97
131 Methylcyclohexane					CAS #: 108-87-2		
6.717	6.724 (1.238)	83	21397	1.00000	0.9998	80.00- 120.00	100.00(a)
6.717	6.724 (1.238)	98	9711			14.33- 74.33	45.38
6.717	6.724 (1.238)	55	25235			96.87- 156.87	117.94
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.073)	63	17737	1.00000	0.9616	80.00- 120.00	100.00
6.875	6.875 (1.073)	62	12681			41.06- 101.06	71.49
6.875	6.875 (1.073)	41	9996			28.31- 88.31	56.36
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	13187	1.00000	0.9632	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	26041			153.10- 213.10	197.47
6.961	6.961 (0.761)	100	4826			8.18- 68.18	36.60
140 1,4-Dioxane					CAS #: 123-91-1		
6.989	6.982 (1.091)	88	9328	1.00000	0.9887	80.00- 120.00	100.00
6.989	6.982 (1.091)	58	9247			74.98- 134.98	99.13
6.997	6.982 (1.092)	57	3382			8.55- 68.55	36.26
141 Dibromomethane					CAS #: 74-95-3		
7.004	7.004 (0.765)	174	18253	1.00000	0.9682	80.00- 120.00	100.00
6.997	6.997 (0.764)	93	17415			66.30- 126.30	95.41
6.997	6.997 (0.764)	95	14392			49.87- 109.87	78.85
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.114)	83	32000	1.00000	0.9774	80.00- 120.00	100.00
7.140	7.140 (1.114)	85	19551			34.86- 94.86	61.10
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.162)	63	35524	1.00000	1.003	80.00- 120.00	100.00(a)
7.448	7.448 (1.162)	65	10142			0.00- 58.67	28.55
7.448	7.448 (1.162)	144	2663			0.00- 39.14	7.50
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.562	7.563 (1.180)	75	24869	1.00000	0.9850	80.00- 120.00	100.00
7.562	7.563 (1.180)	77	7718			1.88- 61.88	31.03
7.562	7.563 (1.180)	39	16830			33.29- 93.29	67.67
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.691	7.691 (1.200)	58	18828	1.00000	1.054	80.00- 120.00	100.00
7.691	7.691 (1.200)	43	52853			235.08- 295.08	280.71

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
150 4-Methyl-2-pentanone (continued)							
7.691	7.691 (1.200)	85	5450			0.69- 60.69	28.95
153 Toluene					CAS #: 108-88-3		
7.820	7.820 (1.220)	91	48031	1.00000	0.9876	80.00- 120.00	100.00
7.813	7.820 (1.219)	92	26155			27.69- 87.69	54.45
151 Octane					CAS #: 111-65-9		
7.842	7.849 (1.224)	57	19141	1.00000	0.9414	80.00- 120.00	100.00
7.849	7.849 (1.225)	85	14570			46.75- 106.75	76.12
7.842	7.842 (1.224)	43	50021			221.22- 281.22	261.33
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.114	8.114 (0.887)	75	22284	1.00000	0.9678	80.00- 120.00	100.00
8.114	8.114 (0.887)	77	6546			1.61- 61.61	29.38
8.114	8.114 (0.887)	39	12900			26.86- 86.86	57.89
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	16869	1.00000	0.9855	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	10097			32.96- 92.96	59.86
8.279	8.279 (0.905)	83	13939			59.05- 119.05	82.63
159 Tetrachloroethene					CAS #: 127-18-4		
8.307	8.308 (0.908)	166	25041	1.00000	0.9532	80.00- 120.00	100.00
8.307	8.308 (0.908)	129	19224			46.43- 106.43	76.77
8.307	8.308 (0.908)	131	18335			45.56- 105.56	73.22
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.317)	76	23737	1.00000	0.9473	80.00- 120.00	100.00(a)
8.444	8.444 (1.317)	41	22274			59.80- 119.80	93.84
8.444	8.444 (1.317)	78	8548			2.58- 62.58	36.01
162 2-Hexanone					CAS #: 591-78-6		
8.479	8.479 (0.926)	58	25070	1.00000	0.9908	80.00- 120.00	100.00(a)
8.486	8.479 (0.927)	43	50926			159.07- 219.07	203.14
8.486	8.479 (0.927)	100	3946			0.00- 43.98	15.74
163 Dibromochloromethane					CAS #: 124-48-1		
8.630	8.630 (0.943)	129	32297	1.00000	0.9341	80.00- 120.00	100.00
8.623	8.630 (0.942)	127	27467			47.90- 107.90	85.05
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.744	8.744 (0.955)	107	28335	1.00000	0.9426	80.00- 120.00	100.00
8.744	8.744 (0.955)	109	27851			64.00- 124.00	98.29
166 Chlorobenzene					CAS #: 108-90-7		
9.174	9.181 (1.002)	112	40149	1.00000	0.9722	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
166 Chlorobenzene (continued)							
9.174	9.181 (1.002)	114	13088			2.75- 62.75	32.60
9.174	9.181 (1.002)	77	34347			30.27- 90.27	85.55
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.010)	106	18319	1.00000	0.9198	80.00- 120.00	100.00(Q)
9.246	9.246 (1.010)	91	62645			281.27- 341.27	341.97
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	21849	1.00000	0.9263	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	17834			34.91- 94.91	81.62
9.267	9.267 (1.013)	95	10016			10.71- 70.71	45.84
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.016)	43	51294	1.00000	0.9933	80.00- 120.00	100.00
9.303	9.303 (1.016)	57	40174			57.91- 117.91	78.32
9.303	9.303 (1.016)	85	10321			0.00- 52.91	20.12
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.361 (1.023)	106	22636	1.00000	0.9266	80.00- 120.00	100.00
9.360	9.361 (1.023)	91	50156			176.41- 236.41	221.58
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	22211	1.00000	0.9794	80.00- 120.00	100.00
9.747	9.747 (1.065)	91	49747			186.60- 246.60	223.97
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.068)	104	36809	1.00000	0.9377	80.00- 120.00	100.00
9.776	9.776 (1.068)	78	20459			26.08- 86.08	55.58
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	35210	1.00000	0.9585	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	17117			22.58- 82.58	48.61
185 Cumene					CAS #: 98-82-8		
10.084	10.091 (1.102)	105	72475	1.00000	0.9670	80.00- 120.00	100.00
10.091	10.091 (1.103)	120	17513			0.00- 55.43	24.16
10.084	10.091 (1.102)	51	10924			0.00- 44.39	15.07
189 Cyclohexanone					CAS #: 108-94-1		
10.263	10.263 (1.121)	55	39460	1.00000	1.090	80.00- 120.00	100.00(a)
10.263	10.263 (1.121)	98	9593			0.00- 57.69	24.31
10.263	10.256 (1.121)	42	24721			32.21- 92.21	62.65
192 Bromobenzene					CAS #: 108-86-1		
10.435	10.435 (1.140)	156	24786	1.00000	0.9847	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
192 Bromobenzene (continued)							
10.435	10.435 (1.140)	158	24288			68.15- 128.15	97.99
10.428	10.428 (1.139)	77	37918			125.89- 185.89	152.98
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.144)	83	38904	1.00000	0.9590	80.00- 120.00	100.00
10.471	10.471 (1.144)	85	25277			35.63- 95.63	64.97
196 Propylbenzene					CAS #: 103-65-1		
10.485	10.492 (1.146)	120	18503	1.00000	0.9426	80.00- 120.00	100.00(Q)
10.485	10.492 (1.146)	91	86693			403.96- 463.96	468.53
10.492	10.492 (1.146)	105	2529			0.00- 46.94	13.67
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.149)	110	12778	1.00000	0.9707	80.00- 120.00	100.00
10.521	10.521 (1.149)	75	31155			232.06- 292.06	243.82
10.521	10.521 (1.149)	61	11514			62.53- 122.53	90.11
199 Decane					CAS #: 124-18-5		
10.600	10.600 (1.158)	57	54515	1.00000	0.9625	80.00- 120.00	100.00
10.600	10.600 (1.158)	71	15613			0.00- 56.58	28.64
10.600	10.600 (1.158)	142	1787			0.00- 33.23	3.28
200 4-Ethyltoluene					CAS #: 622-96-8		
10.607	10.600 (1.159)	120	20646	1.00000	0.9371	80.00- 120.00	100.00
10.600	10.600 (1.158)	105	73805			317.00- 377.00	357.48
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.159)	126	18178	1.00000	0.9921	80.00- 120.00	100.00
10.607	10.607 (1.159)	91	64310			317.25- 377.25	353.78
10.607	10.607 (1.159)	65	10491			32.33- 92.33	57.71
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.664	10.671 (1.165)	120	29073	1.00000	0.9812	80.00- 120.00	100.00
10.664	10.671 (1.165)	105	64151			190.09- 250.09	220.65
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.900	10.901 (1.191)	118	29339	1.00000	0.9597	80.00- 120.00	100.00
10.900	10.901 (1.191)	103	16372			32.49- 92.49	55.80
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.199)	119	57470	1.00000	0.9644	80.00- 120.00	100.00
10.972	10.972 (1.199)	134	14413			0.00- 53.10	25.08
10.972	10.972 (1.199)	91	42158			40.97- 100.97	73.36
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.206)	120	24808	1.00000	0.9373	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
212 1,2,4-Trimethylbenzene (continued)							
11.037	11.037 (1.206)	105	61222			204.98- 264.98	246.78
214 sec-Butylbenzene					CAS #: 135-98-8		
11.187	11.194 (1.222)	134	16009	1.00000	0.9279	80.00- 120.00	100.00(Q)
11.187	11.194 (1.222)	105	90692			484.40- 544.40	566.51
11.187	11.187 (1.222)	91	14379			54.94- 114.94	89.82
216 p-Cymene					CAS #: 99-87-6		
11.330	11.337 (1.238)	119	75274	1.00000	0.9664	80.00- 120.00	100.00
11.337	11.337 (1.239)	134	19318			0.00- 55.89	25.66
11.330	11.330 (1.238)	91	20516			0.00- 56.21	27.26
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.240)	146	44325	1.00000	1.024	80.00- 120.00	100.00
11.352	11.352 (1.240)	148	27977			33.67- 93.67	63.12
11.352	11.352 (1.240)	111	18601			13.82- 73.82	41.97
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.250)	146	42792	1.00000	0.9737	80.00- 120.00	100.00
11.445	11.445 (1.250)	148	27077			34.50- 94.50	63.28
11.445	11.445 (1.250)	111	17847			12.20- 72.20	41.71
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.595	11.595 (1.267)	91	59198	1.00000	0.9628	80.00- 120.00	100.00
11.595	11.595 (1.267)	126	12973			0.00- 50.42	21.91
220 Butylbenzene					CAS #: 104-51-8		
11.739	11.739 (1.283)	134	18280	1.00000	0.9819	80.00- 120.00	100.00
11.739	11.739 (1.283)	91	71085			345.70- 405.70	388.87
11.739	11.739 (1.283)	92	36490			168.03- 228.03	199.62
221 Undecane					CAS #: 1120-21-4		
11.774	11.774 (1.286)	57	60777	1.00000	0.9422	80.00- 120.00	100.00(a)
11.774	11.774 (1.286)	43	56380			57.09- 117.09	92.77
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.817	11.817 (1.291)	146	42883	1.00000	1.002	80.00- 120.00	100.00
11.817	11.817 (1.291)	148	25594			33.89- 93.89	59.68
11.817	11.817 (1.291)	111	18466			15.34- 75.34	43.06
227 Dodecane					CAS #: 112-40-3		
12.856	12.856 (1.405)	57	57158	1.00000	0.8440	80.00- 120.00	100.00
12.856	12.856 (1.405)	43	47233			50.33- 110.33	82.64
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.620	12.620 (1.379)	157	29875	1.00000	1.009	80.00- 120.00	100.00(a)

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
226 1,2-Dibromo-3-chloropropane (continued)							
12.620	12.620 (1.379)	75	27652			65.80- 125.80	92.56
12.620	12.620 (1.379)	155	20346			47.61- 107.61	68.10
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.400	13.400 (1.464)	180	40978	1.12100	1.078	80.00- 120.00	100.00(a)
13.407	13.400 (1.465)	182	39211			65.96- 125.96	95.69
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.515	13.515 (1.477)	225	36402	1.12700	1.095	80.00- 120.00	100.00(a)
13.515	13.515 (1.477)	223	23073			33.50- 93.50	63.38
232 Naphthalene					CAS #: 91-20-3		
13.651	13.651 (1.491)	128	10329	0.11800	0.1144	80.00- 120.00	100.00(a)
13.651	13.651 (1.491)	127	1554			0.00- 42.81	15.05
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.902	13.902 (1.519)	180	38375	1.12700	1.057	80.00- 120.00	100.00(a)
13.902	13.902 (1.519)	182	38456			64.83- 124.83	100.21
13.902	13.902 (1.519)	145	14601			3.99- 63.99	38.05

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M1- Compound response manually integrated because
Target system did not integrate.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a091006.d
Lab Smp Id: ICAL Level 3
Analysis Type: VOA
Quant Type: ISTD
Operator: TO
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 1.0ppbv(5.0ppbv)

Calibration Date: 10-SEP-2024
Calibration Time: 15:01
Client Smp ID: ICAL Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	272599	163559	381639	271092	-0.55
126 1,4-Difluorobenze	989537	593722	1385352	1030217	4.11
165 Chlorobenzene-d5	922551	553531	1291571	953714	3.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	-0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	-0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/10SEP24.b/a091006.d

Date : 10-SEP-2024 13:17

Client ID: ICAL Level 3

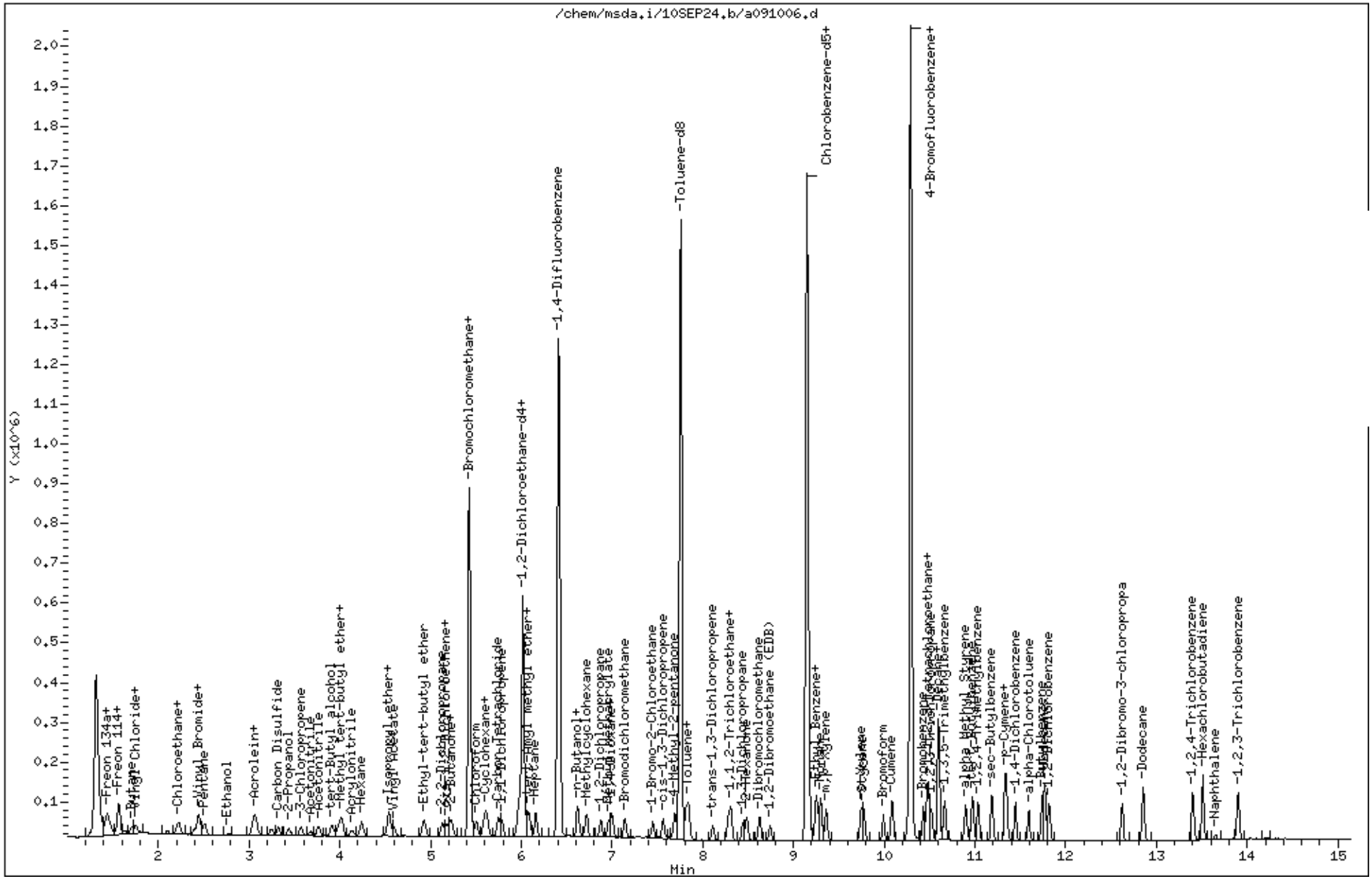
Sample Info: 40mL 3018-4809

Column phase: RTX-624

Instrument: msda.i

Operator: TO

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/10SEP24.b/a091007.d
Lab Smp Id: ICAL Level 5 Client Smp ID: ICAL Level 5
Inj Date : 10-SEP-2024 13:54
Operator : TO Inst ID: msda.i
Smp Info : 200mL 3018-4809
Misc Info : 5.0ppbv(5.0ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Meth Date : 10-Sep-2024 18:16 h6wn Quant Type: ISTD
Cal Date : 10-SEP-2024 13:54 Cal File: a091007.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	264813	25.0000		80.00- 120.00	100.00
5.421	5.428 (1.000)	128	210002			46.45- 106.45	79.30
5.421	5.428 (1.000)	49	556009			167.12- 227.12	209.96
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	465686	25.0000	25.024	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	226298			23.36- 83.36	48.59
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	987004	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	163807			0.00- 46.36	16.60
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.210)	98	1022175	25.0000	24.911	80.00- 120.00	100.00
7.749	7.756 (1.209)	70	119189			0.00- 41.92	11.66
7.756	7.756 (1.210)	100	692080			39.07- 99.07	67.71
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.153 (1.000)	117	887941	25.0000		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 165 Chlorobenzene-d5 (continued)							
9.146	9.153 (1.000)	82	518897			27.12- 87.12	58.44
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.299 (1.125)	174	611552	25.0000	25.794	80.00- 120.00	100.00
10.292	10.299 (1.125)	95	734975			89.27- 149.27	120.18
10.292	10.299 (1.125)	176	566664			66.29- 126.29	92.66
6 Freon 134a					CAS #: 811-97-2		
1.374	1.388 (0.253)	83	52319	5.00000	4.498	80.00- 120.00	100.00
1.374	1.388 (0.253)	69	36847			41.53- 101.53	70.43
1.374	1.388 (0.253)	63	5715			0.00- 42.30	10.92
8 Propylene					CAS #: 115-07-1		
1.410	1.424 (0.260)	41	61405	5.00000	5.039	80.00- 120.00	100.00
1.410	1.424 (0.260)	42	41463			38.18- 98.18	67.52
1.410	1.424 (0.260)	39	41665			40.18- 100.18	67.85
9 1,1-Difluoroethane					CAS #: 75-37-6		
1.424	1.431 (0.262)	65	34133	5.00000	4.960	80.00- 120.00	100.00
1.467	1.474 (0.270)	51	129629			362.20- 422.20	379.78
1.424	1.438 (0.262)	47	24033			41.18- 101.18	70.41
10 Freon 12					CAS #: 75-71-8		
1.438	1.452 (0.265)	85	162741	5.00000	4.988	80.00- 120.00	100.00
1.438	1.452 (0.265)	87	50535			1.90- 61.90	31.05
12 Chlorodifluoromethane					CAS #: 75-45-6		
1.467	1.481 (0.270)	67	17747	5.00000	5.392	80.00- 120.00	100.00(Q)
1.467	1.474 (0.270)	51	129629			756.67- 816.67	730.43
15 Freon 114					CAS #: 76-14-2		
1.553	1.560 (0.286)	135	100322	5.00000	4.746	80.00- 120.00	100.00
1.553	1.560 (0.286)	137	32439			1.76- 61.76	32.33
16 Isobutane					CAS #: 75-28-5		
1.567	1.574 (0.289)	43	130127	5.00000	4.915	80.00- 120.00	100.00
1.567	1.574 (0.289)	42	40966			2.85- 62.85	31.48
1.567	1.574 (0.289)	58	4432			0.00- 33.52	3.41
17 Chloromethane					CAS #: 74-87-3		
1.624	1.632 (0.299)	50	57428	5.00000	5.005	80.00- 120.00	100.00
1.624	1.632 (0.299)	52	18701			2.14- 62.14	32.56
22 Butane					CAS #: 106-97-8		
1.703	1.703 (0.314)	58	10867	5.00000	4.259	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
22 Butane (continued)							
1.703	1.703 (0.314)	43	76921			706.79- 766.79	707.84
24 Vinyl Chloride					CAS #: 75-01-4		
1.732	1.746 (0.319)	62	50296	5.00000	4.219	80.00- 120.00	100.00
1.732	1.746 (0.319)	64	16524			0.00- 59.56	32.85
25 1,3-Butadiene					CAS #: 106-99-0		
1.760	1.768 (0.324)	54	46249	5.00000	4.133	80.00- 120.00	100.00
1.760	1.768 (0.324)	39	41440			64.19- 124.19	89.60
29 Bromomethane					CAS #: 74-83-9		
2.083	2.104 (0.384)	94	35697	5.00000	4.320	80.00- 120.00	100.00
2.083	2.104 (0.384)	96	34315			63.72- 123.72	96.13
30 Chloroethane					CAS #: 75-00-3		
2.190	2.205 (0.404)	64	24455	5.00000	4.100	80.00- 120.00	100.00
2.190	2.205 (0.404)	66	8199			0.20- 60.20	33.53
2.190	2.205 (0.404)	49	8926			7.38- 67.38	36.50
31 Isopentane					CAS #: 78-78-4		
2.212	2.233 (0.407)	43	57708	5.00000	3.534	80.00- 120.00	100.00
2.212	2.233 (0.407)	57	44732			38.61- 98.61	77.51
32 Vinyl Bromide					CAS #: 593-60-2		
2.384	2.398 (0.439)	106	47623	5.00000	4.577	80.00- 120.00	100.00
2.384	2.398 (0.439)	108	42342			62.27- 122.27	88.91
33 Freon 11					CAS #: 75-69-4		
2.427	2.448 (0.447)	101	167166	5.00000	4.647	80.00- 120.00	100.00
2.427	2.448 (0.447)	103	109732			35.49- 95.49	65.64
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.441	2.455 (0.450)	67	111792	5.00000	4.314	80.00- 120.00	100.00
2.441	2.455 (0.450)	69	36366			0.95- 60.95	32.53
37 Pentane					CAS #: 109-66-0		
2.491	2.513 (0.459)	43	92728	5.00000	3.694	80.00- 120.00	100.00
2.491	2.513 (0.459)	57	18010			0.00- 45.38	19.42
2.491	2.520 (0.459)	72	8137			0.00- 37.02	8.78
42 Ethanol					CAS #: 64-17-5		
2.806	2.763 (0.517)	46	16615	6.11500	6.506	80.00- 120.00	100.00
2.799	2.763 (0.516)	45	37570			225.08- 285.08	226.12
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.562)	55	30481	5.83000	6.059	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Acrolein (continued)							
3.050	3.050 (0.562)	56	39035			109.39- 169.39	128.06
47 Freon 113						CAS #: 76-13-1	
3.036	3.057 (0.559)	151	105571	5.00000	4.948	80.00- 120.00	100.00
3.036	3.057 (0.559)	153	66662			33.72- 93.72	63.14
3.028	3.057 (0.558)	101	136363			94.86- 154.86	129.17
49 1,1-Dichloroethene						CAS #: 75-35-4	
3.071	3.086 (0.566)	98	35037	5.00000	4.813	80.00- 120.00	100.00
3.071	3.086 (0.566)	96	53329			127.35- 187.35	152.21
3.071	3.086 (0.566)	61	124564			327.38- 387.38	355.52
52 Acetone						CAS #: 67-64-1	
3.250	3.236 (0.599)	58	44056	5.00000	5.213	80.00- 120.00	100.00
3.250	3.236 (0.599)	43	136274			290.16- 350.16	309.32
54 Carbon Disulfide						CAS #: 75-15-0	
3.308	3.322 (0.609)	76	165588	5.00000	4.994	80.00- 120.00	100.00
57 2-Propanol						CAS #: 67-63-0	
3.465	3.422 (0.638)	45	173213	5.83000	5.904	80.00- 120.00	100.00
3.465	3.422 (0.638)	43	33385			0.00- 48.07	19.27
3.472	3.422 (0.640)	59	6806			0.00- 33.65	3.93
58 3-Chloropropene						CAS #: 107-05-1	
3.566	3.573 (0.657)	76	26796	5.00000	5.052	80.00- 120.00	100.00
3.566	3.573 (0.657)	41	103022			369.70- 429.70	384.47
60 Acetonitrile						CAS #: 75-05-8	
3.680	3.673 (0.678)	40	43424	5.78000	5.478	80.00- 120.00	100.00
3.687	3.673 (0.679)	41	78776			161.56- 221.56	181.41
3.759	3.773 (0.693)	38	577			0.00- 31.07	1.33
64 Methylene Chloride						CAS #: 75-09-2	
3.759	3.766 (0.693)	49	107257	5.00000	5.061	80.00- 120.00	100.00
3.759	3.766 (0.693)	84	50211			18.48- 78.48	46.81
3.759	3.766 (0.693)	51	34866			0.91- 60.91	32.51
70 tert-Butyl alcohol						CAS #: 75-65-0	
3.938	3.902 (0.726)	59	193668	5.81500	5.761	80.00- 120.00	100.00
3.938	3.902 (0.726)	41	40925			0.00- 51.01	21.13
3.938	3.902 (0.726)	57	21065			0.00- 41.01	10.88
72 Methyl tert-butyl ether						CAS #: 1634-04-4	
3.995	3.995 (0.736)	73	167940	5.00000	4.953	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.995	3.995 (0.736)	57	56589			0.93- 60.93	33.70
3.995	3.995 (0.736)	41	61439			0.00- 59.87	36.58
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.017	4.024 (0.740)	98	35304	5.00000	4.582	80.00- 120.00	100.00
4.017	4.024 (0.740)	61	118347			282.80- 342.80	335.22
4.017	4.024 (0.740)	96	60990			122.91- 182.91	172.76
74 Acrylonitrile					CAS #: 107-13-1		
4.139	4.131 (0.762)	52	61303	5.00000	5.134	80.00- 120.00	100.00
4.139	4.131 (0.762)	53	72125			88.44- 148.44	117.65
78 Hexane					CAS #: 110-54-3		
4.232	4.246 (0.780)	57	125152	5.00000	4.911	80.00- 120.00	100.00
4.232	4.246 (0.780)	43	82250			34.01- 94.01	65.72
4.232	4.246 (0.780)	86	13209			0.00- 40.22	10.55
82 Isopropyl ether					CAS #: 108-20-3		
4.540	4.540 (0.836)	45	292813	5.00000	4.987	80.00- 120.00	100.00
4.540	4.540 (0.836)	87	49235			0.00- 47.08	16.81
4.540	4.540 (0.836)	59	29546			0.00- 40.83	10.09
83 1,1-Dichloroethane					CAS #: 75-34-3		
4.540	4.547 (0.836)	63	136542	5.00000	5.090	80.00- 120.00	100.00
4.540	4.547 (0.836)	65	39753			0.00- 59.58	29.11
84 Vinyl Acetate					CAS #: 108-05-4		
4.597	4.597 (0.847)	86	14324	5.81000	6.108	80.00- 120.00	100.00
4.597	4.597 (0.847)	43	246279			1663.30-1723.30	1719.35
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.927	4.927 (0.908)	59	253477	5.00000	5.017	80.00- 120.00	100.00
4.927	4.927 (0.908)	87	75391			0.00- 58.78	29.74
4.927	4.927 (0.908)	41	51594			0.00- 48.47	20.35
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.127	5.134 (0.945)	77	127112	5.00000	4.988	80.00- 120.00	100.00
5.127	5.134 (0.945)	79	40062			2.20- 62.20	31.52
5.127	5.134 (0.945)	97	25692			0.00- 50.29	20.21
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	38758	5.00000	4.864	80.00- 120.00	100.00(Q)
5.177	5.177 (0.954)	96	62654			123.49- 183.49	161.65
5.177	5.177 (0.954)	61	119695			310.35- 370.35	308.83

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
5.213	5.206 (0.960)	72	28807	5.00000	4.871	80.00- 120.00	100.00(Q)
5.227	5.206 (0.963)	43	384183			1272.59-1332.59	1333.64
5.213	5.206 (0.960)	57	15059			18.61- 78.61	52.28
93 Ethyl Acetate					CAS #: 141-78-6		
5.235	5.227 (0.964)	70	13599	5.00000	4.706	80.00- 120.00	100.00(Q)
5.177	5.177 (0.954)	61	119695			877.60- 937.60	880.18
5.235	5.227 (0.964)	45	32979			179.24- 239.24	242.51
99 Tetrahydrofuran					CAS #: 109-99-9		
5.428	5.414 (1.000)	42	99061	5.00000	4.911	80.00- 120.00	100.00
5.428	5.414 (1.000)	71	24704			0.00- 56.60	24.94
5.428	5.414 (1.000)	72	25406			0.00- 56.86	25.65
103 Chloroform					CAS #: 67-66-3		
5.500	5.507 (1.013)	83	142342	5.00000	4.873	80.00- 120.00	100.00
5.500	5.507 (1.013)	85	92084			34.90- 94.90	64.69
104 Cyclohexane					CAS #: 110-82-7		
5.593	5.600 (1.030)	84	74928	5.00000	5.000	80.00- 120.00	100.00
5.593	5.600 (1.030)	56	135428			152.85- 212.85	180.74
5.593	5.600 (1.030)	41	71281			65.81- 125.81	95.13
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.621	5.629 (1.036)	97	149087	5.00000	5.045	80.00- 120.00	100.00
5.621	5.629 (1.036)	99	98192			34.79- 94.79	65.86
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.743	5.750 (1.058)	119	155889	5.00000	4.783	80.00- 120.00	100.00
5.743	5.750 (1.058)	117	165067			73.63- 133.63	105.89
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.786	5.793 (0.903)	110	32855	5.00000	4.946	80.00- 120.00	100.00
5.786	5.793 (0.903)	75	91940			260.30- 320.30	279.84
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.958	5.972 (1.098)	57	382743	5.00000	4.855	80.00- 120.00	100.00
5.958	5.972 (1.098)	56	125281			2.18- 62.18	32.73
5.958	5.972 (1.098)	41	103115			0.00- 55.61	26.94
118 Benzene					CAS #: 71-43-2		
5.980	5.987 (0.933)	78	172051	5.00000	4.979	80.00- 120.00	100.00
5.980	5.987 (0.933)	77	41286			0.00- 53.99	24.00
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.073	6.073 (1.119)	87	42478	5.00000	5.084	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.073	6.073 (1.119)	73	170555			362.99- 422.99	401.51
6.073	6.073 (1.119)	55	70497			122.42- 182.42	165.96
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.087	6.094 (0.950)	62	116863	5.00000	5.006	80.00- 120.00	100.00
6.094	6.094 (0.951)	64	36850			1.65- 61.65	31.53
122 Heptane					CAS #: 142-82-5		
6.159	6.166 (0.961)	71	55105	5.00000	4.704	80.00- 120.00	100.00
6.159	6.166 (0.961)	43	148239			240.22- 300.22	269.01
6.159	6.166 (0.961)	57	78394			110.36- 170.36	142.26
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	81274	5.00000	4.614	80.00- 120.00	100.00
6.617	6.617 (1.032)	130	79692			67.98- 127.98	98.05
6.617	6.617 (1.032)	97	56257			34.45- 94.45	69.22
128 n-Butanol					CAS #: 71-36-3		
6.631	6.617 (1.035)	56	79128	5.00000	5.167	80.00- 120.00	100.00
6.631	6.617 (1.035)	41	59338			39.42- 99.42	74.99
6.631	6.617 (1.035)	43	48115			25.37- 85.37	60.81
131 Methylcyclohexane					CAS #: 108-87-2		
6.717	6.724 (1.238)	83	98715	5.00000	4.788	80.00- 120.00	100.00
6.717	6.724 (1.238)	98	44613			14.33- 74.33	45.19
6.717	6.724 (1.238)	55	130598			96.87- 156.87	132.30
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.073)	63	84631	5.00000	4.840	80.00- 120.00	100.00
6.875	6.875 (1.073)	62	58533			41.06- 101.06	69.16
6.875	6.875 (1.073)	41	50627			28.31- 88.31	59.82
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	65153	5.00000	5.074	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	118006			153.10- 213.10	181.12
6.961	6.961 (0.761)	100	23622			8.18- 68.18	36.26
140 1,4-Dioxane					CAS #: 123-91-1		
6.990	6.982 (1.091)	88	44928	5.00000	4.980	80.00- 120.00	100.00
6.990	6.982 (1.091)	58	45270			74.98- 134.98	100.76
6.990	6.982 (1.091)	57	17766			8.55- 68.55	39.54
141 Dibromomethane					CAS #: 74-95-3		
6.997	7.004 (0.765)	174	85222	5.00000	4.891	80.00- 120.00	100.00
6.997	6.997 (0.765)	93	83328			66.30- 126.30	97.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
141 Dibromomethane (continued)							
6.997	6.997 (0.765)	95	68150			49.87- 109.87	79.97
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.114)	83	150382	5.00000	4.844	80.00- 120.00	100.00
7.140	7.140 (1.114)	85	95938			34.86- 94.86	63.80
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.162)	63	167022	5.00000	4.947	80.00- 120.00	100.00(a)
7.448	7.448 (1.162)	65	46421			0.00- 58.67	27.79
7.448	7.448 (1.162)	144	14585			0.00- 39.14	8.73
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.563	7.563 (1.180)	75	115561	5.00000	4.831	80.00- 120.00	100.00
7.563	7.563 (1.180)	77	36418			1.88- 61.88	31.51
7.563	7.563 (1.180)	39	73911			33.29- 93.29	63.96
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.691	7.691 (1.200)	58	87248	5.00000	5.075	80.00- 120.00	100.00
7.691	7.691 (1.200)	43	240450			235.08- 295.08	275.59
7.699	7.691 (1.201)	85	26314			0.69- 60.69	30.16
153 Toluene					CAS #: 108-88-3		
7.813	7.820 (1.219)	91	212585	5.00000	4.665	80.00- 120.00	100.00
7.813	7.820 (1.219)	92	123695			27.69- 87.69	58.19
151 Octane					CAS #: 111-65-9		
7.842	7.849 (1.224)	57	86505	5.00000	4.568	80.00- 120.00	100.00
7.842	7.849 (1.224)	85	67151			46.75- 106.75	77.63
7.842	7.842 (1.224)	43	214614			221.22- 281.22	248.09
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.107	8.114 (0.886)	75	96190	5.00000	4.605	80.00- 120.00	100.00
8.107	8.114 (0.886)	77	33492			1.61- 61.61	34.82
8.107	8.114 (0.886)	39	60126			26.86- 86.86	62.51
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	76608	5.00000	4.854	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	45786			32.96- 92.96	59.77
8.279	8.279 (0.905)	83	68008			59.05- 119.05	88.77
159 Tetrachloroethene					CAS #: 127-18-4		
8.308	8.308 (0.908)	166	110328	5.00000	4.624	80.00- 120.00	100.00
8.308	8.308 (0.908)	129	82221			46.43- 106.43	74.52
8.308	8.308 (0.908)	131	83498			45.56- 105.56	75.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.317)	76	112722	5.00000	4.768	80.00- 120.00	100.00
8.444	8.444 (1.317)	41	102563			59.80- 119.80	90.99
8.444	8.444 (1.317)	78	36227			2.58- 62.58	32.14
162 2-Hexanone					CAS #: 591-78-6		
8.479	8.479 (0.927)	58	123575	5.00000	5.161	80.00- 120.00	100.00
8.479	8.479 (0.927)	43	251926			159.07- 219.07	203.86
8.487	8.479 (0.928)	100	16426			0.00- 43.98	13.29
163 Dibromochloromethane					CAS #: 124-48-1		
8.623	8.630 (0.943)	129	160767	5.00000	4.996	80.00- 120.00	100.00
8.623	8.630 (0.943)	127	122644			47.90- 107.90	76.29
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.737	8.744 (0.955)	107	136881	5.00000	4.918	80.00- 120.00	100.00
8.737	8.744 (0.955)	109	127825			64.00- 124.00	93.38
166 Chlorobenzene					CAS #: 108-90-7		
9.174	9.181 (1.003)	112	182264	5.00000	4.803	80.00- 120.00	100.00
9.174	9.181 (1.003)	114	58563			2.75- 62.75	32.13
9.174	9.181 (1.003)	77	119296			30.27- 90.27	65.45
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.011)	106	89204	5.00000	4.856	80.00- 120.00	100.00
9.246	9.246 (1.011)	91	282831			281.27- 341.27	317.06
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	111218	5.00000	5.048	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	79160			34.91- 94.91	71.18
9.267	9.267 (1.013)	95	43629			10.71- 70.71	39.23
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.017)	43	238179	5.00000	4.969	80.00- 120.00	100.00
9.303	9.303 (1.017)	57	195145			57.91- 117.91	81.93
9.303	9.303 (1.017)	85	49910			0.00- 52.91	20.95
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.361 (1.023)	106	113634	5.00000	4.997	80.00- 120.00	100.00
9.360	9.361 (1.023)	91	239045			176.41- 236.41	210.36
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.066)	106	105048	5.00000	4.981	80.00- 120.00	100.00
9.747	9.747 (1.066)	91	229473			186.60- 246.60	218.45
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.069)	104	180211	5.00000	4.948	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.776	9.776 (1.069)	78	99229			26.08- 86.08	55.06
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	161777	5.00000	4.795	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	85229			22.58- 82.58	52.68
185 Cumene					CAS #: 98-82-8		
10.084	10.091 (1.103)	105	333721	5.00000	4.835	80.00- 120.00	100.00
10.084	10.091 (1.103)	120	84745			0.00- 55.43	25.39
10.084	10.091 (1.103)	51	50878			0.00- 44.39	15.25
189 Cyclohexanone					CAS #: 108-94-1		
10.263	10.263 (1.122)	55	184696	5.00000	5.310	80.00- 120.00	100.00
10.263	10.263 (1.122)	98	51462			0.00- 57.69	27.86
10.263	10.256 (1.122)	42	117592			32.21- 92.21	63.67
192 Bromobenzene					CAS #: 108-86-1		
10.435	10.435 (1.141)	156	123303	5.00000	5.171	80.00- 120.00	100.00
10.435	10.435 (1.141)	158	112486			68.15- 128.15	91.23
10.428	10.428 (1.140)	77	179072			125.89- 185.89	145.23
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.145)	83	186268	5.00000	4.949	80.00- 120.00	100.00
10.471	10.471 (1.145)	85	120739			35.63- 95.63	64.82
196 Propylbenzene					CAS #: 103-65-1		
10.485	10.492 (1.146)	120	92381	5.00000	5.041	80.00- 120.00	100.00
10.485	10.492 (1.146)	91	403759			403.96- 463.96	437.06
10.485	10.492 (1.146)	105	16362			0.00- 46.94	17.71
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.150)	110	60878	5.00000	4.975	80.00- 120.00	100.00
10.521	10.521 (1.150)	75	147162			232.06- 292.06	241.73
10.521	10.521 (1.150)	61	53815			62.53- 122.53	88.40
199 Decane					CAS #: 124-18-5		
10.600	10.600 (1.159)	57	270005	5.00000	5.080	80.00- 120.00	100.00
10.600	10.600 (1.159)	71	69212			0.00- 56.58	25.63
10.600	10.600 (1.159)	142	8773			0.00- 33.23	3.25
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.159)	120	98199	5.00000	4.839	80.00- 120.00	100.00
10.600	10.600 (1.159)	105	354698			317.00- 377.00	361.20
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.160)	126	82611	5.00000	4.881	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.607	10.607 (1.160)	91	290574			317.25- 377.25	351.74
10.600	10.607 (1.159)	65	52079			32.33- 92.33	63.04
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.664	10.671 (1.166)	120	137157	5.00000	4.979	80.00- 120.00	100.00
10.664	10.671 (1.166)	105	305987			190.09- 250.09	223.09
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.901	10.901 (1.192)	118	145557	5.00000	5.085	80.00- 120.00	100.00
10.901	10.901 (1.192)	103	89752			32.49- 92.49	61.66
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.200)	119	286069	5.00000	5.103	80.00- 120.00	100.00
10.972	10.972 (1.200)	134	64608			0.00- 53.10	22.58
10.972	10.972 (1.200)	91	200486			40.97- 100.97	70.08
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.207)	120	130408	5.00000	5.216	80.00- 120.00	100.00
11.037	11.037 (1.207)	105	309080			204.98- 264.98	237.01
214 sec-Butylbenzene					CAS #: 135-98-8		
11.194	11.194 (1.224)	134	84363	5.00000	5.187	80.00- 120.00	100.00
11.187	11.194 (1.223)	105	431698			484.40- 544.40	511.71
11.187	11.187 (1.223)	91	73902			54.94- 114.94	87.60
216 p-Cymene					CAS #: 99-87-6		
11.330	11.337 (1.239)	119	366076	5.00000	5.036	80.00- 120.00	100.00
11.330	11.337 (1.239)	134	89856			0.00- 55.89	24.55
11.330	11.330 (1.239)	91	97862			0.00- 56.21	26.73
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.241)	146	202625	5.00000	5.019	80.00- 120.00	100.00
11.352	11.352 (1.241)	148	132485			33.67- 93.67	65.38
11.352	11.352 (1.241)	111	88097			13.82- 73.82	43.48
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.251)	146	208705	5.00000	5.075	80.00- 120.00	100.00
11.445	11.445 (1.251)	148	131365			34.50- 94.50	62.94
11.445	11.445 (1.251)	111	85524			12.20- 72.20	40.98
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.595	11.595 (1.268)	91	289431	5.00000	5.042	80.00- 120.00	100.00
11.595	11.595 (1.268)	126	57315			0.00- 50.42	19.80
220 Butylbenzene					CAS #: 104-51-8		
11.739	11.739 (1.284)	134	90930	5.00000	5.182	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
220 Butylbenzene (continued)							
11.739	11.739 (1.284)	91	348991			345.70- 405.70	383.80
11.739	11.739 (1.284)	92	181371			168.03- 228.03	199.46
221 Undecane					CAS #: 1120-21-4		
11.774	11.774 (1.287)	57	320486	5.00000	5.219	80.00- 120.00	100.00
11.774	11.774 (1.287)	43	282681			57.09- 117.09	88.20
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.817	11.817 (1.292)	146	198321	5.00000	4.984	80.00- 120.00	100.00
11.817	11.817 (1.292)	148	126066			33.89- 93.89	63.57
11.817	11.817 (1.292)	111	92034			15.34- 75.34	46.41
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.620	12.620 (1.380)	157	137269	5.00000	4.986	80.00- 120.00	100.00
12.620	12.620 (1.380)	75	132434			65.80- 125.80	96.48
12.620	12.620 (1.380)	155	105777			47.61- 107.61	77.06
227 Dodecane					CAS #: 112-40-3		
12.856	12.856 (1.406)	57	340902	5.00000	5.264	80.00- 120.00	100.00
12.856	12.856 (1.406)	43	286635			50.33- 110.33	84.08
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.400	13.400 (1.465)	180	214770	5.60500	5.904	80.00- 120.00	100.00
13.400	13.400 (1.465)	182	196331			65.96- 125.96	91.41
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.515	13.515 (1.478)	225	180563	5.63500	5.765	80.00- 120.00	100.00
13.515	13.515 (1.478)	223	114608			33.50- 93.50	63.47
232 Naphthalene					CAS #: 91-20-3		
13.651	13.651 (1.493)	128	53186	0.59000	0.6178	80.00- 120.00	100.00
13.651	13.651 (1.493)	127	7252			0.00- 42.81	13.64
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.902	13.902 (1.520)	180	212598	5.63500	6.056	80.00- 120.00	100.00
13.902	13.902 (1.520)	182	201841			64.83- 124.83	94.94
13.902	13.902 (1.520)	145	68463			3.99- 63.99	32.20

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a091007.d
Lab Smp Id: ICAL Level 5
Analysis Type: VOA
Quant Type: ISTD
Operator: TO
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 5.0ppbv(5.0ppbv)

Calibration Date: 10-SEP-2024
Calibration Time: 15:01
Client Smp ID: ICAL Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	272599	163559	381639	264813	-2.86
126 1,4-Difluorobenze	989537	593722	1385352	987004	-0.26
165 Chlorobenzene-d5	922551	553531	1291571	887941	-3.75

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	-0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.08

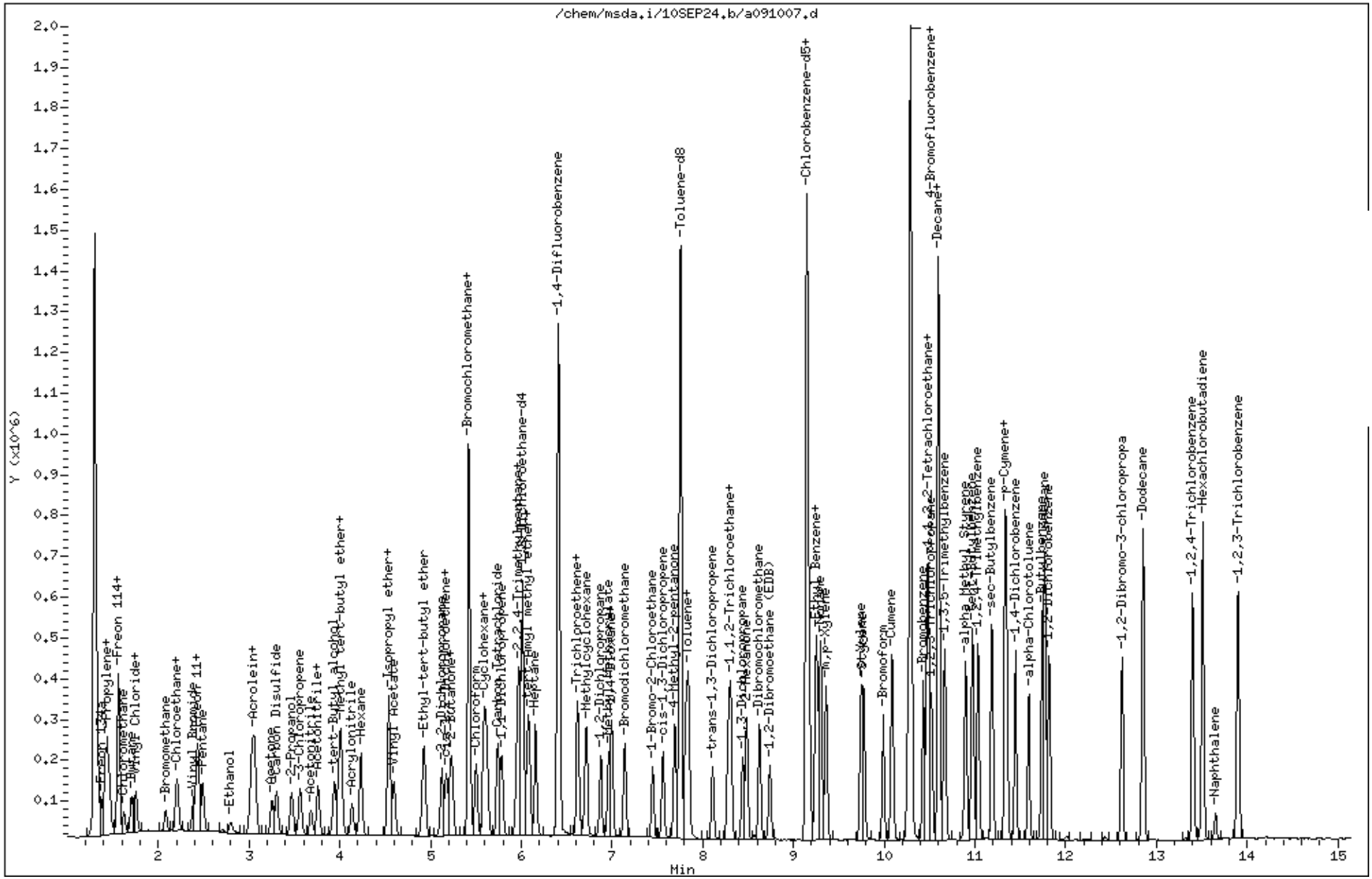
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/10SEP24.b/a091007.d
Date : 10-SEP-2024 13:54
Client ID: ICAL Level 5
Sample Info: 200mL 3018-4809

Instrument: msda.i

Operator: TO

Column phase: RTX-624
Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/10SEP24.b/a091008.d
Lab Smp Id: ICAL Level 6 Client Smp ID: ICAL Level 6
Inj Date : 10-SEP-2024 14:27
Operator : TO Inst ID: msda.i
Smp Info : 20mL 3018-4808
Misc Info : 20ppbv(200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Meth Date : 10-Sep-2024 18:16 h6wn Quant Type: ISTD
Cal Date : 10-SEP-2024 14:27 Cal File: a091008.d
Als bottle: 13 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	265321	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	206408			46.45- 106.45	77.80
5.428	5.428 (1.000)	49	542375			167.12- 227.12	204.42
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	467809	25.0000	25.072	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	233954			23.36- 83.36	50.01
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	984060	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	158121			0.00- 46.36	16.07
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.210)	98	1018999	25.0000	24.926	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	123128			0.00- 41.92	12.08
7.756	7.756 (1.210)	100	696359			39.07- 99.07	68.34
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.153 (1.000)	117	893246	25.0000		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 165 Chlorobenzene-d5 (continued)							
9.153	9.153 (1.000)	82	506967			27.12- 87.12	56.76
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.299	10.299 (1.125)	174	596918	25.0000	25.022	80.00- 120.00	100.00
10.292	10.299 (1.124)	95	728592			89.27- 149.27	122.06
10.299	10.299 (1.125)	176	581990			66.29- 126.29	97.50
6 Freon 134a					CAS #: 811-97-2		
1.381	1.388 (0.254)	83	248782	20.0000	20.993	80.00- 120.00	100.00
1.381	1.388 (0.254)	69	180340			41.53- 101.53	72.49
1.381	1.388 (0.254)	63	30003			0.00- 42.30	12.06
8 Propylene					CAS #: 115-07-1		
1.424	1.424 (0.262)	41	236701	20.0000	19.537	80.00- 120.00	100.00
1.424	1.424 (0.262)	42	157810			38.18- 98.18	66.67
1.424	1.424 (0.262)	39	165396			40.18- 100.18	69.88
9 1,1-Difluoroethane					CAS #: 75-37-6		
1.431	1.431 (0.264)	65	135022	20.0000	19.685	80.00- 120.00	100.00
1.474	1.474 (0.272)	51	528314			362.20- 422.20	391.28
1.431	1.438 (0.264)	47	97575			41.18- 101.18	72.27
10 Freon 12					CAS #: 75-71-8		
1.445	1.452 (0.266)	85	622332	20.0000	19.224	80.00- 120.00	100.00
1.445	1.452 (0.266)	87	202702			1.90- 61.90	32.57
12 Chlorodifluoromethane					CAS #: 75-45-6		
1.474	1.481 (0.272)	67	64993	20.0000	19.781	80.00- 120.00	100.00
1.474	1.474 (0.272)	51	528314			756.67- 816.67	812.88
15 Freon 114					CAS #: 76-14-2		
1.560	1.560 (0.287)	135	430219	20.0000	20.249	80.00- 120.00	100.00
1.560	1.560 (0.287)	137	133359			1.76- 61.76	31.00
16 Isobutane					CAS #: 75-28-5		
1.574	1.574 (0.290)	43	536280	20.0000	20.164	80.00- 120.00	100.00
1.574	1.574 (0.290)	42	179407			2.85- 62.85	33.45
1.574	1.574 (0.290)	58	18084			0.00- 33.52	3.37
17 Chloromethane					CAS #: 74-87-3		
1.632	1.632 (0.301)	50	252500	20.0000	21.267	80.00- 120.00	100.00
1.632	1.632 (0.301)	52	81821			2.14- 62.14	32.40
22 Butane					CAS #: 106-97-8		
1.710	1.703 (0.315)	58	50947	20.0000	19.948	80.00- 120.00	100.00(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
22 Butane (continued)							
1.703	1.703 (0.314)	43	425022			706.79- 766.79	834.24
24 Vinyl Chloride					CAS #: 75-01-4		
1.746	1.746 (0.322)	62	261536	20.0000	21.488	80.00- 120.00	100.00
1.739	1.746 (0.320)	64	80141			0.00- 59.56	30.64
25 1,3-Butadiene					CAS #: 106-99-0		
1.768	1.768 (0.326)	54	256486	20.0000	22.237	80.00- 120.00	100.00
1.768	1.768 (0.326)	39	239860			64.19- 124.19	93.52
29 Bromomethane					CAS #: 74-83-9		
2.104	2.104 (0.388)	94	183687	20.0000	21.407	80.00- 120.00	100.00
2.104	2.104 (0.388)	96	176258			63.72- 123.72	95.96
30 Chloroethane					CAS #: 75-00-3		
2.205	2.205 (0.406)	64	132411	20.0000	21.575	80.00- 120.00	100.00
2.205	2.205 (0.406)	66	36655			0.20- 60.20	27.68
2.205	2.205 (0.406)	49	46204			7.38- 67.38	34.89
31 Isopentane					CAS #: 78-78-4		
2.233	2.233 (0.411)	43	378429	20.0000	22.260	80.00- 120.00	100.00
2.233	2.233 (0.411)	57	252183			38.61- 98.61	66.64
32 Vinyl Bromide					CAS #: 593-60-2		
2.398	2.398 (0.442)	106	215063	20.0000	20.468	80.00- 120.00	100.00
2.398	2.398 (0.442)	108	200952			62.27- 122.27	93.44
33 Freon 11					CAS #: 75-69-4		
2.448	2.448 (0.451)	101	733395	20.0000	20.279	80.00- 120.00	100.00
2.448	2.448 (0.451)	103	471858			35.49- 95.49	64.34
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.448	2.455 (0.451)	67	539400	20.0000	20.575	80.00- 120.00	100.00
2.448	2.455 (0.451)	69	158735			0.95- 60.95	29.43
37 Pentane					CAS #: 109-66-0		
2.513	2.513 (0.463)	43	566758	20.0000	21.841	80.00- 120.00	100.00
2.513	2.513 (0.463)	57	88447			0.00- 45.38	15.61
2.520	2.520 (0.464)	72	36842			0.00- 37.02	6.50
42 Ethanol					CAS #: 64-17-5		
2.756	2.763 (0.508)	46	53201	24.4600	21.601	80.00- 120.00	100.00
2.756	2.763 (0.508)	45	139999			225.08- 285.08	263.15
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.562)	55	113779	23.3200	22.755	80.00- 120.00	100.00

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========		=======	=======	==========	=====
46 Acrolein (continued)								
3.050	3.050 (0.562)	56	153927				109.39- 169.39	135.29
47 Freon 113						CAS #: 76-13-1		
3.057	3.057 (0.563)	151	439235	20.0000	20.435		80.00- 120.00	100.00
3.057	3.057 (0.563)	153	280615				33.72- 93.72	63.89
3.057	3.057 (0.563)	101	553948				94.86- 154.86	126.12
49 1,1-Dichloroethene						CAS #: 75-35-4		
3.086	3.086 (0.568)	98	133324	20.0000	18.599		80.00- 120.00	100.00
3.086	3.086 (0.568)	96	212517				127.35- 187.35	159.40
3.086	3.086 (0.568)	61	498124				327.38- 387.38	373.62
52 Acetone						CAS #: 67-64-1		
3.236	3.236 (0.596)	58	156659	20.0000	18.976		80.00- 120.00	100.00
3.236	3.236 (0.596)	43	514146				290.16- 350.16	328.19
54 Carbon Disulfide						CAS #: 75-15-0		
3.322	3.322 (0.612)	76	615587	20.0000	18.876		80.00- 120.00	100.00
57 2-Propanol						CAS #: 67-63-0		
3.422	3.422 (0.630)	45	641701	23.3200	22.186		80.00- 120.00	100.00
3.422	3.422 (0.630)	43	120281				0.00- 48.07	18.74
3.422	3.422 (0.630)	59	23611				0.00- 33.65	3.68
58 3-Chloropropene						CAS #: 107-05-1		
3.573	3.573 (0.658)	76	97604	20.0000	18.672		80.00- 120.00	100.00
3.573	3.573 (0.658)	41	413089				369.70- 429.70	423.23
60 Acetonitrile						CAS #: 75-05-8		
3.673	3.673 (0.677)	40	152332	23.1200	20.034		80.00- 120.00	100.00
3.673	3.673 (0.677)	41	298180				161.56- 221.56	195.74
3.759	3.773 (0.693)	38	1929				0.00- 31.07	1.27
64 Methylene Chloride						CAS #: 75-09-2		
3.766	3.766 (0.694)	49	425180	20.0000	20.015		80.00- 120.00	100.00
3.766	3.766 (0.694)	84	192465				18.48- 78.48	45.27
3.766	3.766 (0.694)	51	130618				0.91- 60.91	30.72
70 tert-Butyl alcohol						CAS #: 75-65-0		
3.902	3.902 (0.719)	59	748755	23.2600	22.479		80.00- 120.00	100.00
3.902	3.902 (0.719)	41	165729				0.00- 51.01	22.13
3.902	3.902 (0.719)	57	82163				0.00- 41.01	10.97
72 Methyl tert-butyl ether						CAS #: 1634-04-4		
3.995	3.995 (0.736)	73	703005	20.0000	20.517		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.995	3.995 (0.736)	57	222328			0.93- 60.93	31.63
3.995	3.995 (0.736)	41	216098			0.00- 59.87	30.74
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	148008	20.0000	19.334	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	459537			282.80- 342.80	310.48
4.024	4.024 (0.741)	96	226676			122.91- 182.91	153.15
74 Acrylonitrile					CAS #: 107-13-1		
4.132	4.131 (0.761)	52	238447	20.0000	19.946	80.00- 120.00	100.00
4.132	4.131 (0.761)	53	280662			88.44- 148.44	117.70
78 Hexane					CAS #: 110-54-3		
4.246	4.246 (0.782)	57	524058	20.0000	20.418	80.00- 120.00	100.00
4.246	4.246 (0.782)	43	336722			34.01- 94.01	64.25
4.246	4.246 (0.782)	86	53881			0.00- 40.22	10.28
82 Isopropyl ether					CAS #: 108-20-3		
4.540	4.540 (0.836)	45	1195216	20.0000	20.237	80.00- 120.00	100.00
4.540	4.540 (0.836)	87	199780			0.00- 47.08	16.71
4.540	4.540 (0.836)	59	125902			0.00- 40.83	10.53
83 1,1-Dichloroethane					CAS #: 75-34-3		
4.547	4.547 (0.838)	63	530837	20.0000	19.801	80.00- 120.00	100.00
4.547	4.547 (0.838)	65	156966			0.00- 59.58	29.57
84 Vinyl Acetate					CAS #: 108-05-4		
4.597	4.597 (0.847)	86	60744	23.2400	25.146	80.00- 120.00	100.00
4.590	4.597 (0.846)	43	1043654			1663.30-1723.30	1718.12
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.927	4.927 (0.908)	59	1054289	20.0000	20.613	80.00- 120.00	100.00
4.927	4.927 (0.908)	87	307009			0.00- 58.78	29.12
4.927	4.927 (0.908)	41	196270			0.00- 48.47	18.62
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.134	5.134 (0.946)	77	509132	20.0000	19.957	80.00- 120.00	100.00
5.134	5.134 (0.946)	79	162607			2.20- 62.20	31.94
5.134	5.134 (0.946)	97	103031			0.00- 50.29	20.24
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	157023	20.0000	19.734	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	242611			123.49- 183.49	154.51
5.177	5.177 (0.954)	61	545732			310.35- 370.35	347.55

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
5.206	5.206 (0.959)	72	114787	20.0000	19.525	80.00- 120.00	100.00(Q)
5.220	5.206 (0.962)	43	1539333			1272.59-1332.59	1341.03
5.206	5.206 (0.959)	57	57944			18.61- 78.61	50.48
93 Ethyl Acetate					CAS #: 141-78-6		
5.228	5.227 (0.963)	70	54906	20.0000	19.215	80.00- 120.00	100.00(Q)
5.177	5.177 (0.954)	61	545677			877.60- 937.60	993.84
5.228	5.227 (0.963)	45	126342			179.24- 239.24	230.11
99 Tetrahydrofuran					CAS #: 109-99-9		
5.421	5.414 (0.999)	42	385253	20.0000	19.244	80.00- 120.00	100.00
5.421	5.414 (0.999)	71	100953			0.00- 56.60	26.20
5.421	5.414 (0.999)	72	101384			0.00- 56.86	26.32
103 Chloroform					CAS #: 67-66-3		
5.507	5.507 (1.014)	83	559153	20.0000	19.278	80.00- 120.00	100.00
5.507	5.507 (1.014)	85	371934			34.90- 94.90	66.52
104 Cyclohexane					CAS #: 110-82-7		
5.600	5.600 (1.032)	84	307190	20.0000	20.368	80.00- 120.00	100.00
5.600	5.600 (1.032)	56	564948			152.85- 212.85	183.91
5.600	5.600 (1.032)	41	302991			65.81- 125.81	98.63
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.629	5.629 (1.037)	97	607800	20.0000	20.420	80.00- 120.00	100.00
5.629	5.629 (1.037)	99	386442			34.79- 94.79	63.58
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.750	5.750 (1.059)	119	656007	20.0000	20.073	80.00- 120.00	100.00
5.750	5.750 (1.059)	117	689309			73.63- 133.63	105.08
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.793	5.793 (0.904)	110	135379	20.0000	20.329	80.00- 120.00	100.00
5.786	5.793 (0.903)	75	387596			260.30- 320.30	286.30
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.972	5.972 (1.100)	57	1642146	20.0000	20.629	80.00- 120.00	100.00
5.972	5.972 (1.100)	56	529509			2.18- 62.18	32.24
5.972	5.972 (1.100)	41	424473			0.00- 55.61	25.85
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	692013	20.0000	20.070	80.00- 120.00	100.00
5.987	5.987 (0.934)	77	164795			0.00- 53.99	23.81
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.073	6.073 (1.119)	87	177738	20.0000	20.911	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.073	6.073 (1.119)	73	701262			362.99- 422.99	394.55
6.073	6.073 (1.119)	55	287054			122.42- 182.42	161.50
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.094	6.094 (0.951)	62	482082	20.0000	20.567	80.00- 120.00	100.00
6.094	6.094 (0.951)	64	147731			1.65- 61.65	30.64
122 Heptane					CAS #: 142-82-5		
6.166	6.166 (0.962)	71	252714	20.0000	21.287	80.00- 120.00	100.00
6.166	6.166 (0.962)	43	682190			240.22- 300.22	269.95
6.166	6.166 (0.962)	57	344518			110.36- 170.36	136.33
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	345298	20.0000	19.730	80.00- 120.00	100.00
6.624	6.617 (1.034)	130	343006			67.98- 127.98	99.34
6.617	6.617 (1.032)	97	219959			34.45- 94.45	63.70
128 n-Butanol					CAS #: 71-36-3		
6.617	6.617 (1.032)	56	298123	20.0000	19.642	80.00- 120.00	100.00
6.617	6.617 (1.032)	41	204366			39.42- 99.42	68.55
6.617	6.617 (1.032)	43	164096			25.37- 85.37	55.04
131 Methylcyclohexane					CAS #: 108-87-2		
6.725	6.724 (1.239)	83	414202	20.0000	20.043	80.00- 120.00	100.00
6.725	6.724 (1.239)	98	180742			14.33- 74.33	43.64
6.717	6.724 (1.238)	55	539975			96.87- 156.87	130.37
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.073)	63	357249	20.0000	20.392	80.00- 120.00	100.00
6.875	6.875 (1.073)	62	250788			41.06- 101.06	70.20
6.875	6.875 (1.073)	41	215921			28.31- 88.31	60.44
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	264263	20.0000	20.340	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	496436			153.10- 213.10	187.86
6.961	6.961 (0.761)	100	106249			8.18- 68.18	40.21
140 1,4-Dioxane					CAS #: 123-91-1		
6.982	6.982 (1.089)	88	180280	20.0000	20.033	80.00- 120.00	100.00
6.982	6.982 (1.089)	58	193625			74.98- 134.98	107.40
6.982	6.982 (1.089)	57	69198			8.55- 68.55	38.38
141 Dibromomethane					CAS #: 74-95-3		
7.004	7.004 (0.765)	174	338469	20.0000	19.443	80.00- 120.00	100.00
6.997	6.997 (0.764)	93	333461			66.30- 126.30	98.52

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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141 Dibromomethane (continued)							
6.997	6.997 (0.764)	95	272727			49.87- 109.87	80.58
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.114)	83	622413	20.0000	20.087	80.00- 120.00	100.00
7.140	7.140 (1.114)	85	395130			34.86- 94.86	63.48
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.162)	63	671000	20.0000	19.950	80.00- 120.00	100.00
7.448	7.448 (1.162)	65	197778			0.00- 58.67	29.48
7.448	7.448 (1.162)	144	57773			0.00- 39.14	8.61
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.563	7.563 (1.180)	75	493824	20.0000	20.562	80.00- 120.00	100.00
7.563	7.563 (1.180)	77	160335			1.88- 61.88	32.47
7.563	7.563 (1.180)	39	319488			33.29- 93.29	64.70
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.692	7.691 (1.200)	58	349871	20.0000	20.327	80.00- 120.00	100.00
7.692	7.691 (1.200)	43	946232			235.08- 295.08	270.45
7.692	7.691 (1.200)	85	104795			0.69- 60.69	29.95
153 Toluene					CAS #: 108-88-3		
7.821	7.820 (1.220)	91	918214	20.0000	20.166	80.00- 120.00	100.00
7.821	7.820 (1.220)	92	530124			27.69- 87.69	57.73
151 Octane					CAS #: 111-65-9		
7.842	7.849 (1.224)	57	391467	20.0000	20.584	80.00- 120.00	100.00
7.849	7.849 (1.225)	85	296486			46.75- 106.75	75.74
7.842	7.842 (1.224)	43	997308			221.22- 281.22	254.76
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.114	8.114 (0.887)	75	428428	20.0000	20.310	80.00- 120.00	100.00
8.114	8.114 (0.887)	77	138059			1.61- 61.61	32.22
8.114	8.114 (0.887)	39	246733			26.86- 86.86	57.59
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	316591	20.0000	19.952	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	198374			32.96- 92.96	62.66
8.279	8.279 (0.905)	83	281160			59.05- 119.05	88.81
159 Tetrachloroethene					CAS #: 127-18-4		
8.308	8.308 (0.908)	166	473948	20.0000	19.796	80.00- 120.00	100.00
8.308	8.308 (0.908)	129	362705			46.43- 106.43	76.53
8.308	8.308 (0.908)	131	360708			45.56- 105.56	76.11

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.317)	76	467278	20.0000	19.860	80.00- 120.00	100.00
8.444	8.444 (1.317)	41	433210			59.80- 119.80	92.71
8.444	8.444 (1.317)	78	152314			2.58- 62.58	32.60
162 2-Hexanone					CAS #: 591-78-6		
8.480	8.479 (0.926)	58	484365	20.0000	20.082	80.00- 120.00	100.00
8.480	8.479 (0.926)	43	947745			159.07- 219.07	195.67
8.480	8.479 (0.926)	100	65393			0.00- 43.98	13.50
163 Dibromochloromethane					CAS #: 124-48-1		
8.630	8.630 (0.943)	129	689572	20.0000	21.027	80.00- 120.00	100.00
8.630	8.630 (0.943)	127	525209			47.90- 107.90	76.16
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.745	8.744 (0.955)	107	573511	20.0000	20.384	80.00- 120.00	100.00
8.745	8.744 (0.955)	109	528047			64.00- 124.00	92.07
166 Chlorobenzene					CAS #: 108-90-7		
9.174	9.181 (1.002)	112	776924	20.0000	20.280	80.00- 120.00	100.00
9.174	9.181 (1.002)	114	243252			2.75- 62.75	31.31
9.174	9.181 (1.002)	77	473703			30.27- 90.27	60.97
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.010)	106	400404	20.0000	21.314	80.00- 120.00	100.00
9.246	9.246 (1.010)	91	1258239			281.27- 341.27	314.24
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	467001	20.0000	20.848	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	309377			34.91- 94.91	66.25
9.267	9.267 (1.013)	95	187562			10.71- 70.71	40.16
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.016)	43	1034874	20.0000	21.078	80.00- 120.00	100.00
9.303	9.303 (1.016)	57	889715			57.91- 117.91	85.97
9.303	9.303 (1.016)	85	235654			0.00- 52.91	22.77
173 m,p-Xylene					CAS #: 108-38-3		
9.361	9.361 (1.023)	106	500247	20.0000	21.466	80.00- 120.00	100.00
9.361	9.361 (1.023)	91	1041818			176.41- 236.41	208.26
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	475187	20.0000	21.875	80.00- 120.00	100.00
9.747	9.747 (1.065)	91	1033184			186.60- 246.60	217.43
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.068)	104	798571	20.0000	21.411	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.776	9.776 (1.068)	78	440137			26.08- 86.08	55.12
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	709747	20.0000	20.722	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	363342			22.58- 82.58	51.19
185 Cumene					CAS #: 98-82-8		
10.084	10.091 (1.102)	105	1491499	20.0000	21.168	80.00- 120.00	100.00
10.084	10.091 (1.102)	120	385409			0.00- 55.43	25.84
10.084	10.091 (1.102)	51	220464			0.00- 44.39	14.78
189 Cyclohexanone					CAS #: 108-94-1		
10.263	10.263 (1.121)	55	632675	20.0000	18.526	80.00- 120.00	100.00
10.263	10.263 (1.121)	98	176462			0.00- 57.69	27.89
10.256	10.256 (1.121)	42	402396			32.21- 92.21	63.60
192 Bromobenzene					CAS #: 108-86-1		
10.435	10.435 (1.140)	156	502037	20.0000	20.690	80.00- 120.00	100.00
10.435	10.435 (1.140)	158	475537			68.15- 128.15	94.72
10.428	10.428 (1.139)	77	765146			125.89- 185.89	152.41
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.144)	83	791387	20.0000	20.714	80.00- 120.00	100.00
10.471	10.471 (1.144)	85	509914			35.63- 95.63	64.43
196 Propylbenzene					CAS #: 103-65-1		
10.492	10.492 (1.146)	120	408663	20.0000	21.697	80.00- 120.00	100.00
10.485	10.492 (1.146)	91	1768533			403.96- 463.96	432.76
10.485	10.492 (1.146)	105	67256			0.00- 46.94	16.46
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.149)	110	244875	20.0000	19.915	80.00- 120.00	100.00
10.521	10.521 (1.149)	75	631871			232.06- 292.06	258.04
10.521	10.521 (1.149)	61	224123			62.53- 122.53	91.53
199 Decane					CAS #: 124-18-5		
10.600	10.600 (1.158)	57	1198245	20.0000	21.753	80.00- 120.00	100.00
10.600	10.600 (1.158)	71	305987			0.00- 56.58	25.54
10.600	10.600 (1.158)	142	38149			0.00- 33.23	3.18
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.158)	120	448387	20.0000	21.540	80.00- 120.00	100.00
10.600	10.600 (1.158)	105	1553481			317.00- 377.00	346.46
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.159)	126	361524	20.0000	20.975	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.607	10.607 (1.159)	91	1275197			317.25- 377.25	352.73
10.600	10.607 (1.158)	65	218642			32.33- 92.33	60.48
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.671	10.671 (1.166)	120	585628	20.0000	20.896	80.00- 120.00	100.00
10.664	10.671 (1.165)	105	1302686			190.09- 250.09	222.44
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.901	10.901 (1.191)	118	650471	20.0000	22.019	80.00- 120.00	100.00
10.901	10.901 (1.191)	103	398244			32.49- 92.49	61.22
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.199)	119	1206204	20.0000	21.024	80.00- 120.00	100.00
10.972	10.972 (1.199)	134	273276			0.00- 53.10	22.66
10.972	10.972 (1.199)	91	857412			40.97- 100.97	71.08
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.206)	120	565264	20.0000	21.932	80.00- 120.00	100.00
11.037	11.037 (1.206)	105	1331093			204.98- 264.98	235.48
214 sec-Butylbenzene					CAS #: 135-98-8		
11.194	11.194 (1.223)	134	360765	20.0000	21.606	80.00- 120.00	100.00
11.187	11.194 (1.222)	105	1870551			484.40- 544.40	518.50
11.187	11.187 (1.222)	91	302177			54.94- 114.94	83.76
216 p-Cymene					CAS #: 99-87-6		
11.330	11.337 (1.238)	119	1587798	20.0000	21.347	80.00- 120.00	100.00
11.330	11.337 (1.238)	134	416608			0.00- 55.89	26.24
11.330	11.330 (1.238)	91	411109			0.00- 56.21	25.89
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.240)	146	873439	20.0000	21.188	80.00- 120.00	100.00
11.352	11.352 (1.240)	148	547605			33.67- 93.67	62.70
11.352	11.352 (1.240)	111	382629			13.82- 73.82	43.81
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.250)	146	884345	20.0000	21.086	80.00- 120.00	100.00
11.445	11.445 (1.250)	148	557519			34.50- 94.50	63.04
11.445	11.445 (1.250)	111	372420			12.20- 72.20	42.11
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.595	11.595 (1.267)	91	1268989	20.0000	21.549	80.00- 120.00	100.00
11.595	11.595 (1.267)	126	255089			0.00- 50.42	20.10
220 Butylbenzene					CAS #: 104-51-8		
11.739	11.739 (1.283)	134	401941	20.0000	22.157	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
220 Butylbenzene (continued)							
11.739	11.739 (1.283)	91	1523991			345.70- 405.70	379.16
11.739	11.739 (1.283)	92	788043			168.03- 228.03	196.06
221 Undecane					CAS #: 1120-21-4		
11.775	11.774 (1.286)	57	1373750	20.0000	21.634	80.00- 120.00	100.00
11.775	11.774 (1.286)	43	1212161			57.09- 117.09	88.24
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.817	11.817 (1.291)	146	834810	20.0000	20.678	80.00- 120.00	100.00
11.817	11.817 (1.291)	148	536871			33.89- 93.89	64.31
11.817	11.817 (1.291)	111	377456			15.34- 75.34	45.21
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.620	12.620 (1.379)	157	551442	20.0000	19.934	80.00- 120.00	100.00
12.620	12.620 (1.379)	75	539327			65.80- 125.80	97.80
12.620	12.620 (1.379)	155	425181			47.61- 107.61	77.10
227 Dodecane					CAS #: 112-40-3		
12.856	12.856 (1.405)	57	1493548	20.0000	22.116	80.00- 120.00	100.00
12.856	12.856 (1.405)	43	1232203			50.33- 110.33	82.50
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.401	13.400 (1.464)	180	834070	22.4200	22.698	80.00- 120.00	100.00
13.401	13.400 (1.464)	182	790363			65.96- 125.96	94.76
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.515	13.515 (1.477)	225	732617	22.5400	23.070	80.00- 120.00	100.00
13.515	13.515 (1.477)	223	462259			33.50- 93.50	63.10
232 Naphthalene					CAS #: 91-20-3		
13.651	13.651 (1.491)	128	195598	2.36000	2.283	80.00- 120.00	100.00
13.651	13.651 (1.491)	127	25445			0.00- 42.81	13.01
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.902	13.902 (1.519)	180	793351	22.5400	22.483	80.00- 120.00	100.00
13.902	13.902 (1.519)	182	762288			64.83- 124.83	96.08
13.902	13.902 (1.519)	145	268857			3.99- 63.99	33.89

QC Flag Legend

Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a091008.d
Lab Smp Id: ICAL Level 6
Analysis Type: VOA
Quant Type: ISTD
Operator: TO
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 20ppbv(200ppbv)

Calibration Date: 10-SEP-2024
Calibration Time: 15:01
Client Smp ID: ICAL Level 6
Level: LOW
Sample Type: AIR

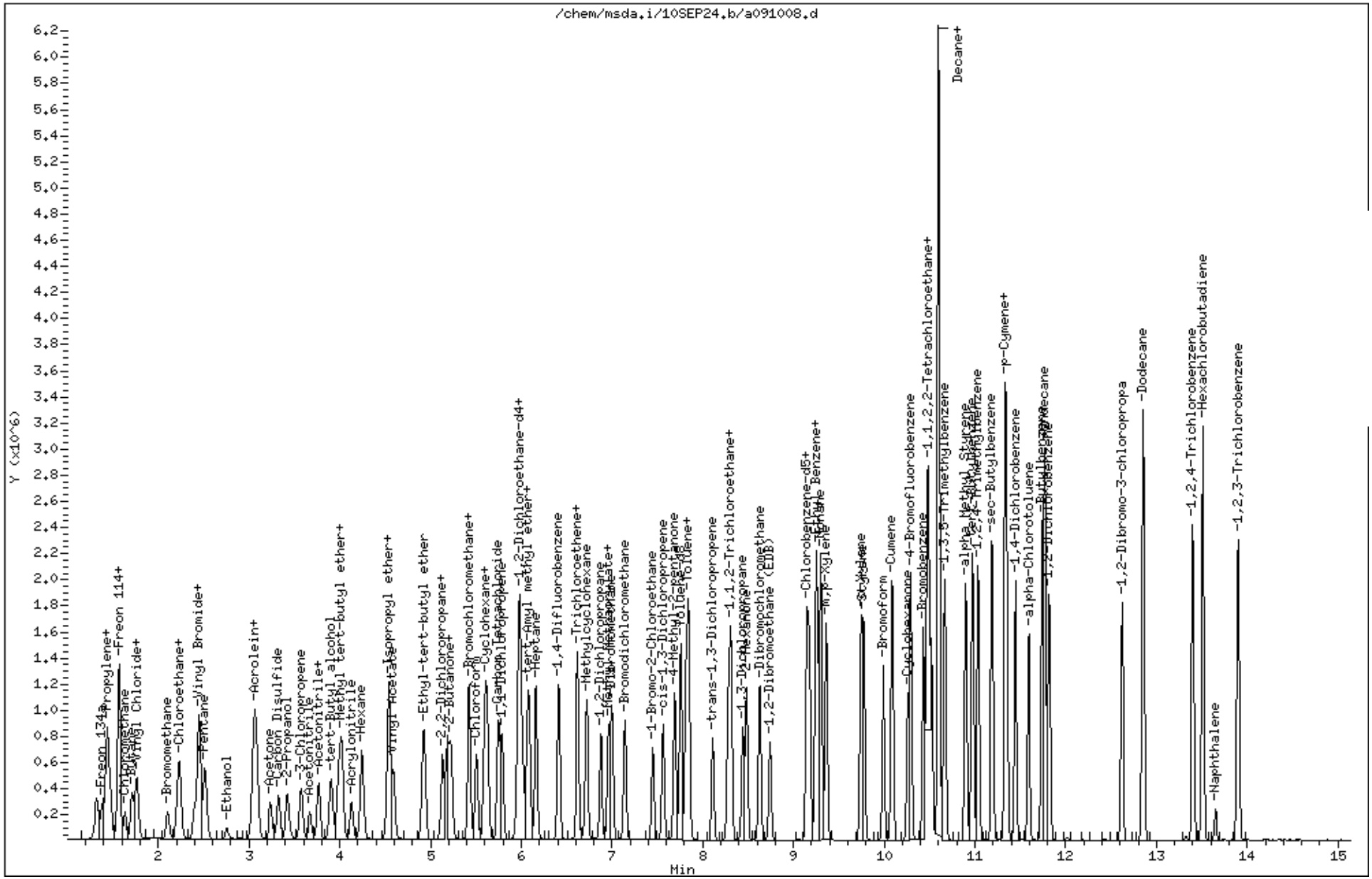
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	272599	163559	381639	265321	-2.67
126 1,4-Difluorobenze	989537	593722	1385352	984060	-0.55
165 Chlorobenzene-d5	922551	553531	1291571	893246	-3.18

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/10SEP24.b/a091008.d
Date : 10-SEP-2024 14:27
Client ID: ICAL Level 6
Sample Info: 20mL 3018-4808

Instrument: msda.i
Operator: TO
Column phase: RTX-624
Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/10SEP24.b/a091009.d
Lab Smp Id: ICAL Level 7
Inj Date : 10-SEP-2024 15:01
Operator : TO Inst ID: msda.i
Smp Info : 50mL 3018-4808
Misc Info : 50ppbv(200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Meth Date : 10-Sep-2024 18:14 h6wn Quant Type: ISTD
Cal Date : 10-SEP-2024 15:01 Cal File: a091009.d
Als bottle: 13 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 100 Bromochloromethane						CAS #: 74-97-5	
5.428	5.428 (1.000)	130	272599	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	208398			46.45- 106.45	76.45
5.428	5.428 (1.000)	49	537360			167.12- 227.12	197.12
$ 119 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
6.015	6.015 (1.108)	65	475233	25.0000	25.000	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	253577			23.36- 83.36	53.36
* 126 1,4-Difluorobenzene						CAS #: 540-36-3	
6.409	6.409 (1.000)	114	989537	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	161926			0.00- 46.36	16.36
$ 152 Toluene-d8						CAS #: 2037-26-5	
7.756	7.756 (1.210)	98	1037190	25.0000	25.000	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	123684			0.00- 41.92	11.92
7.756	7.756 (1.210)	100	716397			39.07- 99.07	69.07
* 165 Chlorobenzene-d5						CAS #: 3114-55-4	
9.153	9.153 (1.000)	117	922551	25.0000		80.00- 120.00	100.00

					AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE					
==	====== ========	====	========	=======	=======	=======	==========	=====
* 165 Chlorobenzene-d5 (continued)								
9.153	9.153 (1.000)	82	526975				27.12- 87.12	57.12
$ 191 4-Bromofluorobenzene						CAS #: 460-00-4		
10.299	10.299 (1.125)	174	625517	25.0000	25.000	80.00- 120.00		100.00
10.292	10.292 (1.124)	95	746044				89.27- 149.27	119.27
10.299	10.299 (1.125)	176	602296				66.29- 126.29	96.29
6 Freon 134a						CAS #: 811-97-2		
1.388	1.388 (0.256)	83	638638	50.0000	50.000	80.00- 120.00		100.00
1.388	1.388 (0.256)	69	456799				41.53- 101.53	71.53
1.388	1.388 (0.256)	63	78536				0.00- 42.30	12.30
8 Propylene						CAS #: 115-07-1		
1.424	1.424 (0.262)	41	593697	50.0000	50.000	80.00- 120.00		100.00
1.424	1.424 (0.262)	42	404800				38.18- 98.18	68.18
1.424	1.424 (0.262)	39	416638				40.18- 100.18	70.18
9 1,1-Difluoroethane						CAS #: 75-37-6		
1.431	1.431 (0.264)	65	348588	50.0000	50.000	80.00- 120.00		100.00
1.474	1.474 (0.272)	51	1367170				362.20- 422.20	392.20
1.438	1.438 (0.265)	47	248129				41.18- 101.18	71.18
10 Freon 12						CAS #: 75-71-8		
1.452	1.452 (0.268)	85	1620853	50.0000	50.000	80.00- 120.00		100.00
1.452	1.452 (0.268)	87	517035				1.90- 61.90	31.90
12 Chlorodifluoromethane						CAS #: 75-45-6		
1.481	1.481 (0.273)	67	173793	50.0000	50.000	80.00- 120.00		100.00
1.474	1.474 (0.272)	51	1367170				756.67- 816.67	786.67
15 Freon 114						CAS #: 76-14-2		
1.560	1.560 (0.287)	135	1070753	50.0000	50.000	80.00- 120.00		100.00
1.560	1.560 (0.287)	137	340020				1.76- 61.76	31.76
16 Isobutane						CAS #: 75-28-5		
1.574	1.574 (0.290)	43	1345917	50.0000	50.000	80.00- 120.00		100.00
1.574	1.574 (0.290)	42	442142				2.85- 62.85	32.85
1.574	1.574 (0.290)	58	47403				0.00- 33.52	3.52
17 Chloromethane						CAS #: 74-87-3		
1.632	1.632 (0.301)	50	590049	50.0000	50.000	80.00- 120.00		100.00
1.639	1.639 (0.302)	52	189654				2.14- 62.14	32.14
22 Butane						CAS #: 106-97-8		
1.703	1.703 (0.314)	58	121298	50.0000	50.000	80.00- 120.00		100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
22 Butane (continued)							
1.703	1.703 (0.314)	43	893711			706.79- 766.79	736.79
24 Vinyl Chloride					CAS #: 75-01-4		
1.746	1.746 (0.322)	62	664125	50.0000	50.000	80.00- 120.00	100.00
1.746	1.746 (0.322)	64	196321			0.00- 59.56	29.56
25 1,3-Butadiene					CAS #: 106-99-0		
1.768	1.768 (0.326)	54	658120	50.0000	50.000	80.00- 120.00	100.00
1.768	1.768 (0.326)	39	619912			64.19- 124.19	94.19
29 Bromomethane					CAS #: 74-83-9		
2.104	2.104 (0.388)	94	483125	50.0000	50.000	80.00- 120.00	100.00
2.104	2.104 (0.388)	96	452785			63.72- 123.72	93.72
30 Chloroethane					CAS #: 75-00-3		
2.205	2.205 (0.406)	64	329004	50.0000	50.000	80.00- 120.00	100.00
2.205	2.205 (0.406)	66	99366			0.20- 60.20	30.20
2.205	2.205 (0.406)	49	122973			7.38- 67.38	37.38
31 Isopentane					CAS #: 78-78-4		
2.233	2.233 (0.411)	43	912386	50.0000	50.000	80.00- 120.00	100.00
2.233	2.233 (0.411)	57	625986			38.61- 98.61	68.61
32 Vinyl Bromide					CAS #: 593-60-2		
2.398	2.398 (0.442)	106	578608	50.0000	50.000	80.00- 120.00	100.00
2.398	2.398 (0.442)	108	533902			62.27- 122.27	92.27
33 Freon 11					CAS #: 75-69-4		
2.448	2.448 (0.451)	101	1858987	50.0000	50.000	80.00- 120.00	100.00
2.448	2.448 (0.451)	103	1217376			35.49- 95.49	65.49
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.455	2.455 (0.452)	67	1390900	50.0000	50.000	80.00- 120.00	100.00
2.455	2.455 (0.452)	69	430534			0.95- 60.95	30.95
37 Pentane					CAS #: 109-66-0		
2.513	2.513 (0.463)	43	1439110	50.0000	50.000	80.00- 120.00	100.00
2.513	2.513 (0.463)	57	221303			0.00- 45.38	15.38
2.520	2.520 (0.464)	72	101049			0.00- 37.02	7.02
42 Ethanol					CAS #: 64-17-5		
2.763	2.763 (0.509)	46	143281	61.1500	61.150	80.00- 120.00	100.00
2.763	2.763 (0.509)	45	365488			225.08- 285.08	255.08
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.562)	55	294778	58.3000	58.300	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Acrolein (continued)							
3.050	3.050 (0.562)	56	410888			109.39- 169.39	139.39
47 Freon 113						CAS #: 76-13-1	
3.057	3.057 (0.563)	151	1090097	50.0000	50.000	80.00- 120.00	100.00
3.057	3.057 (0.563)	153	694664			33.72- 93.72	63.72
3.057	3.057 (0.563)	101	1361129			94.86- 154.86	124.86
49 1,1-Dichloroethene						CAS #: 75-35-4	
3.086	3.086 (0.568)	98	363625	50.0000	50.000	80.00- 120.00	100.00
3.086	3.086 (0.568)	96	572177			127.35- 187.35	157.35
3.086	3.086 (0.568)	61	1299505			327.38- 387.38	357.38
52 Acetone						CAS #: 67-64-1	
3.236	3.236 (0.596)	58	416433	50.0000	50.000	80.00- 120.00	100.00
3.236	3.236 (0.596)	43	1333255			290.16- 350.16	320.16
54 Carbon Disulfide						CAS #: 75-15-0	
3.322	3.322 (0.612)	76	1648777	50.0000	50.000	80.00- 120.00	100.00
57 2-Propanol						CAS #: 67-63-0	
3.422	3.422 (0.630)	45	1706796	58.3000	58.300	80.00- 120.00	100.00
3.422	3.422 (0.630)	43	308409			0.00- 48.07	18.07
3.422	3.422 (0.630)	59	62340			0.00- 33.65	3.65
58 3-Chloropropene						CAS #: 107-05-1	
3.573	3.573 (0.658)	76	269280	50.0000	50.000	80.00- 120.00	100.00
3.573	3.573 (0.658)	41	1076304			369.70- 429.70	399.70
60 Acetonitrile						CAS #: 75-05-8	
3.673	3.673 (0.677)	40	400138	57.8000	57.800	80.00- 120.00	100.00
3.673	3.673 (0.677)	41	766494			161.56- 221.56	191.56
3.773	3.773 (0.695)	38	4276			0.00- 31.07	1.07
64 Methylene Chloride						CAS #: 75-09-2	
3.766	3.766 (0.694)	49	1077573	50.0000	50.000	80.00- 120.00	100.00
3.766	3.766 (0.694)	84	522389			18.48- 78.48	48.48
3.766	3.766 (0.694)	51	333123			0.91- 60.91	30.91
70 tert-Butyl alcohol						CAS #: 75-65-0	
3.902	3.902 (0.719)	59	1907921	58.1500	58.150	80.00- 120.00	100.00
3.902	3.902 (0.719)	41	400813			0.00- 51.01	21.01
3.902	3.902 (0.719)	57	210044			0.00- 41.01	11.01
72 Methyl tert-butyl ether						CAS #: 1634-04-4	
3.995	3.995 (0.736)	73	1759399	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.995	3.995 (0.736)	57	544195			0.93- 60.93	30.93
3.995	3.995 (0.736)	41	525456			0.00- 59.87	29.87
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	384187	50.0000	50.000	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	1201755			282.80- 342.80	312.80
4.024	4.024 (0.741)	96	587477			122.91- 182.91	152.91
74 Acrylonitrile					CAS #: 107-13-1		
4.131	4.131 (0.761)	52	618740	50.0000	50.000	80.00- 120.00	100.00
4.131	4.131 (0.761)	53	732820			88.44- 148.44	118.44
78 Hexane					CAS #: 110-54-3		
4.246	4.246 (0.782)	57	1323736	50.0000	50.000	80.00- 120.00	100.00
4.246	4.246 (0.782)	43	847307			34.01- 94.01	64.01
4.246	4.246 (0.782)	86	135310			0.00- 40.22	10.22
82 Isopropyl ether					CAS #: 108-20-3		
4.540	4.540 (0.836)	45	2945932	50.0000	50.000	80.00- 120.00	100.00
4.540	4.540 (0.836)	87	503233			0.00- 47.08	17.08
4.540	4.540 (0.836)	59	319053			0.00- 40.83	10.83
83 1,1-Dichloroethane					CAS #: 75-34-3		
4.547	4.547 (0.838)	63	1361293	50.0000	50.000	80.00- 120.00	100.00
4.547	4.547 (0.838)	65	402649			0.00- 59.58	29.58
84 Vinyl Acetate					CAS #: 108-05-4		
4.597	4.597 (0.847)	86	159740	58.1000	58.100	80.00- 120.00	100.00
4.597	4.597 (0.847)	43	2704878			1663.30-1723.30	1693.30
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.927	4.927 (0.908)	59	2688132	50.0000	50.000	80.00- 120.00	100.00
4.927	4.927 (0.908)	87	773665			0.00- 58.78	28.78
4.927	4.927 (0.908)	41	496617			0.00- 48.47	18.47
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.134	5.134 (0.946)	77	1287299	50.0000	50.000	80.00- 120.00	100.00
5.134	5.134 (0.946)	79	414531			2.20- 62.20	32.20
5.134	5.134 (0.946)	97	261217			0.00- 50.29	20.29
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	414256	50.0000	50.000	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	635827			123.49- 183.49	153.49
5.177	5.177 (0.954)	61	1409908			310.35- 370.35	340.35

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
5.206	5.206 (0.959)	72	301455	50.0000	50.000	80.00- 120.00	100.00
5.220	5.220 (0.962)	43	3926734			1272.59-1332.59	1302.59
5.206	5.206 (0.959)	57	146529			18.61- 78.61	48.61
93 Ethyl Acetate					CAS #: 141-78-6		
5.227	5.227 (0.963)	70	155424	50.0000	50.000	80.00- 120.00	100.00
5.177	5.177 (0.954)	61	1410634			877.60- 937.60	907.60
5.227	5.227 (0.963)	45	325205			179.24- 239.24	209.24
99 Tetrahydrofuran					CAS #: 109-99-9		
5.414	5.414 (0.997)	42	994186	50.0000	50.000	80.00- 120.00	100.00
5.414	5.414 (0.997)	71	264476			0.00- 56.60	26.60
5.421	5.421 (0.999)	72	267013			0.00- 56.86	26.86
103 Chloroform					CAS #: 67-66-3		
5.507	5.507 (1.015)	83	1465853	50.0000	50.000	80.00- 120.00	100.00
5.507	5.507 (1.015)	85	951359			34.90- 94.90	64.90
104 Cyclohexane					CAS #: 110-82-7		
5.600	5.600 (1.032)	84	763500	50.0000	50.000	80.00- 120.00	100.00
5.600	5.600 (1.032)	56	1396074			152.85- 212.85	182.85
5.600	5.600 (1.032)	41	731477			65.81- 125.81	95.81
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.629	5.629 (1.037)	97	1501966	50.0000	50.000	80.00- 120.00	100.00
5.629	5.629 (1.037)	99	973070			34.79- 94.79	64.79
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.750	5.750 (1.059)	119	1643456	50.0000	50.000	80.00- 120.00	100.00
5.750	5.750 (1.059)	117	1703042			73.63- 133.63	103.63
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.793	5.793 (0.904)	110	345805	50.0000	50.000	80.00- 120.00	100.00
5.793	5.793 (0.904)	75	1003871			260.30- 320.30	290.30
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.972	5.972 (1.100)	57	4135831	50.0000	50.000	80.00- 120.00	100.00
5.972	5.972 (1.100)	56	1330959			2.18- 62.18	32.18
5.972	5.972 (1.100)	41	1059218			0.00- 55.61	25.61
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	1736868	50.0000	50.000	80.00- 120.00	100.00
5.987	5.987 (0.934)	77	416739			0.00- 53.99	23.99
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.073	6.073 (1.119)	87	456745	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.073	6.073 (1.119)	73	1794973			362.99- 422.99	392.99
6.073	6.073 (1.119)	55	696160			122.42- 182.42	152.42
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.094	6.094 (0.951)	62	1214032	50.0000	50.000	80.00- 120.00	100.00
6.094	6.094 (0.951)	64	384254			1.65- 61.65	31.65
122 Heptane					CAS #: 142-82-5		
6.166	6.166 (0.962)	71	616464	50.0000	50.000	80.00- 120.00	100.00
6.166	6.166 (0.962)	43	1665790			240.22- 300.22	270.22
6.166	6.166 (0.962)	57	865273			110.36- 170.36	140.36
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	892378	50.0000	50.000	80.00- 120.00	100.00
6.624	6.624 (1.034)	130	874381			67.98- 127.98	97.98
6.617	6.617 (1.032)	97	575176			34.45- 94.45	64.45
128 n-Butanol					CAS #: 71-36-3		
6.617	6.617 (1.032)	56	763373	50.0000	50.000	80.00- 120.00	100.00
6.617	6.617 (1.032)	41	529913			39.42- 99.42	69.42
6.617	6.617 (1.032)	43	422673			25.37- 85.37	55.37
131 Methylcyclohexane					CAS #: 108-87-2		
6.724	6.724 (1.239)	83	1049314	50.0000	50.000	80.00- 120.00	100.00
6.724	6.724 (1.239)	98	465200			14.33- 74.33	44.33
6.724	6.724 (1.239)	55	1331229			96.87- 156.87	126.87
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.073)	63	886871	50.0000	50.000	80.00- 120.00	100.00
6.875	6.875 (1.073)	62	630218			41.06- 101.06	71.06
6.875	6.875 (1.073)	41	517147			28.31- 88.31	58.31
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	686575	50.0000	50.000	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	1257108			153.10- 213.10	183.10
6.961	6.961 (0.761)	100	262129			8.18- 68.18	38.18
140 1,4-Dioxane					CAS #: 123-91-1		
6.982	6.982 (1.089)	88	458257	50.0000	50.000	80.00- 120.00	100.00
6.982	6.982 (1.089)	58	481081			74.98- 134.98	104.98
6.982	6.982 (1.089)	57	176657			8.55- 68.55	38.55
141 Dibromomethane					CAS #: 74-95-3		
7.004	7.004 (0.765)	174	882611	50.0000	50.000	80.00- 120.00	100.00
6.997	6.997 (0.764)	93	849992			66.30- 126.30	96.30

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
141 Dibromomethane (continued)							
6.997	6.997 (0.764)	95	704954			49.87- 109.87	79.87
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.114)	83	1584945	50.0000	50.000	80.00- 120.00	100.00
7.140	7.140 (1.114)	85	1028044			34.86- 94.86	64.86
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.162)	63	1697011	50.0000	50.000	80.00- 120.00	100.00
7.448	7.448 (1.162)	65	486613			0.00- 58.67	28.67
7.448	7.448 (1.162)	144	155179			0.00- 39.14	9.14
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.563	7.563 (1.180)	75	1290947	50.0000	50.000	80.00- 120.00	100.00
7.563	7.563 (1.180)	77	411597			1.88- 61.88	31.88
7.563	7.563 (1.180)	39	817018			33.29- 93.29	63.29
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.691	7.691 (1.200)	58	872689	50.0000	50.000	80.00- 120.00	100.00
7.691	7.691 (1.200)	43	2313326			235.08- 295.08	265.08
7.691	7.691 (1.200)	85	267834			0.69- 60.69	30.69
153 Toluene					CAS #: 108-88-3		
7.820	7.820 (1.220)	91	2283320	50.0000	50.000	80.00- 120.00	100.00
7.820	7.820 (1.220)	92	1317188			27.69- 87.69	57.69
151 Octane					CAS #: 111-65-9		
7.849	7.849 (1.225)	57	965406	50.0000	50.000	80.00- 120.00	100.00
7.849	7.849 (1.225)	85	740980			46.75- 106.75	76.75
7.842	7.842 (1.224)	43	2425329			221.22- 281.22	251.22
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.114	8.114 (0.887)	75	1124758	50.0000	50.000	80.00- 120.00	100.00
8.114	8.114 (0.887)	77	355507			1.61- 61.61	31.61
8.114	8.114 (0.887)	39	639552			26.86- 86.86	56.86
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	797413	50.0000	50.000	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	502062			32.96- 92.96	62.96
8.279	8.279 (0.905)	83	710087			59.05- 119.05	89.05
159 Tetrachloroethene					CAS #: 127-18-4		
8.308	8.308 (0.908)	166	1197190	50.0000	50.000	80.00- 120.00	100.00
8.308	8.308 (0.908)	129	915026			46.43- 106.43	76.43
8.308	8.308 (0.908)	131	904631			45.56- 105.56	75.56

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.317)	76	1184372	50.0000	50.000	80.00- 120.00	100.00
8.444	8.444 (1.317)	41	1063567			59.80- 119.80	89.80
8.444	8.444 (1.317)	78	385812			2.58- 62.58	32.58
162 2-Hexanone					CAS #: 591-78-6		
8.479	8.479 (0.926)	58	1235008	50.0000	50.000	80.00- 120.00	100.00
8.479	8.479 (0.926)	43	2335088			159.07- 219.07	189.07
8.479	8.479 (0.926)	100	172656			0.00- 43.98	13.98
163 Dibromochloromethane					CAS #: 124-48-1		
8.630	8.630 (0.943)	129	1742311	50.0000	50.000	80.00- 120.00	100.00
8.630	8.630 (0.943)	127	1357206			47.90- 107.90	77.90
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.744	8.744 (0.955)	107	1464750	50.0000	50.000	80.00- 120.00	100.00
8.744	8.744 (0.955)	109	1376803			64.00- 124.00	94.00
166 Chlorobenzene					CAS #: 108-90-7		
9.181	9.181 (1.003)	112	1926438	50.0000	50.000	80.00- 120.00	100.00
9.181	9.181 (1.003)	114	630866			2.75- 62.75	32.75
9.174	9.174 (1.002)	77	1161081			30.27- 90.27	60.27
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.010)	106	998927	50.0000	50.000	80.00- 120.00	100.00
9.246	9.246 (1.010)	91	3109364			281.27- 341.27	311.27
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	1167449	50.0000	50.000	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	757759			34.91- 94.91	64.91
9.267	9.267 (1.013)	95	475314			10.71- 70.71	40.71
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.016)	43	2514119	50.0000	50.000	80.00- 120.00	100.00
9.303	9.303 (1.016)	57	2210264			57.91- 117.91	87.91
9.303	9.303 (1.016)	85	576094			0.00- 52.91	22.91
173 m,p-Xylene					CAS #: 108-38-3		
9.361	9.361 (1.023)	106	1244195	50.0000	50.000	80.00- 120.00	100.00
9.361	9.361 (1.023)	91	2568115			176.41- 236.41	206.41
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	1187357	50.0000	50.000	80.00- 120.00	100.00
9.747	9.747 (1.065)	91	2571792			186.60- 246.60	216.60
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.068)	104	1997198	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.776	9.776 (1.068)	78	1120098			26.08- 86.08	56.08
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	1796457	50.0000	50.000	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	944628			22.58- 82.58	52.58
185 Cumene					CAS #: 98-82-8		
10.091	10.091 (1.103)	105	3779417	50.0000	50.000	80.00- 120.00	100.00
10.091	10.091 (1.103)	120	961268			0.00- 55.43	25.43
10.084	10.084 (1.102)	51	543806			0.00- 44.39	14.39
189 Cyclohexanone					CAS #: 108-94-1		
10.263	10.263 (1.121)	55	1592970	50.0000	50.000	80.00- 120.00	100.00
10.263	10.263 (1.121)	98	441084			0.00- 57.69	27.69
10.256	10.256 (1.121)	42	991017			32.21- 92.21	62.21
192 Bromobenzene					CAS #: 108-86-1		
10.435	10.435 (1.140)	156	1236059	50.0000	50.000	80.00- 120.00	100.00
10.435	10.435 (1.140)	158	1213150			68.15- 128.15	98.15
10.428	10.428 (1.139)	77	1926946			125.89- 185.89	155.89
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.144)	83	1918058	50.0000	50.000	80.00- 120.00	100.00
10.471	10.471 (1.144)	85	1258793			35.63- 95.63	65.63
196 Propylbenzene					CAS #: 103-65-1		
10.492	10.492 (1.146)	120	1001398	50.0000	50.000	80.00- 120.00	100.00
10.485	10.485 (1.146)	91	4345620			403.96- 463.96	433.96
10.492	10.492 (1.146)	105	169636			0.00- 46.94	16.94
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.149)	110	601531	50.0000	50.000	80.00- 120.00	100.00
10.521	10.521 (1.149)	75	1576356			232.06- 292.06	262.06
10.521	10.521 (1.149)	61	556607			62.53- 122.53	92.53
199 Decane					CAS #: 124-18-5		
10.600	10.600 (1.158)	57	2842177	50.0000	50.000	80.00- 120.00	100.00
10.600	10.600 (1.158)	71	755546			0.00- 56.58	26.58
10.600	10.600 (1.158)	142	91852			0.00- 33.23	3.23
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.158)	120	1084964	50.0000	50.000	80.00- 120.00	100.00
10.600	10.600 (1.158)	105	3764779			317.00- 377.00	347.00
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.159)	126	877351	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.607	10.607 (1.159)	91	3046579			317.25- 377.25	347.25
10.607	10.607 (1.159)	65	546847			32.33- 92.33	62.33
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.671	10.671 (1.166)	120	1476283	50.0000	50.000	80.00- 120.00	100.00
10.671	10.671 (1.166)	105	3249178			190.09- 250.09	220.09
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.901	10.901 (1.191)	118	1613325	50.0000	50.000	80.00- 120.00	100.00
10.901	10.901 (1.191)	103	1008231			32.49- 92.49	62.49
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.199)	119	2984472	50.0000	50.000	80.00- 120.00	100.00
10.972	10.972 (1.199)	134	689272			0.00- 53.10	23.10
10.972	10.972 (1.199)	91	2117958			40.97- 100.97	70.97
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.206)	120	1390397	50.0000	50.000	80.00- 120.00	100.00
11.037	11.037 (1.206)	105	3267178			204.98- 264.98	234.98
214 sec-Butylbenzene					CAS #: 135-98-8		
11.194	11.194 (1.223)	134	895607	50.0000	50.000	80.00- 120.00	100.00
11.194	11.194 (1.223)	105	4607030			484.40- 544.40	514.40
11.187	11.187 (1.222)	91	760737			54.94- 114.94	84.94
216 p-Cymene					CAS #: 99-87-6		
11.337	11.337 (1.239)	119	3891109	50.0000	50.000	80.00- 120.00	100.00
11.337	11.337 (1.239)	134	1007486			0.00- 55.89	25.89
11.330	11.330 (1.238)	91	1019747			0.00- 56.21	26.21
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.240)	146	2113442	50.0000	50.000	80.00- 120.00	100.00
11.352	11.352 (1.240)	148	1345734			33.67- 93.67	63.67
11.352	11.352 (1.240)	111	926097			13.82- 73.82	43.82
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.250)	146	2166727	50.0000	50.000	80.00- 120.00	100.00
11.445	11.445 (1.250)	148	1397438			34.50- 94.50	64.50
11.445	11.445 (1.250)	111	914393			12.20- 72.20	42.20
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.595	11.595 (1.267)	91	3222251	50.0000	50.000	80.00- 120.00	100.00
11.595	11.595 (1.267)	126	657903			0.00- 50.42	20.42
220 Butylbenzene					CAS #: 104-51-8		
11.739	11.739 (1.283)	134	989763	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
220 Butylbenzene (continued)							
11.739	11.739 (1.283)	91	3718521			345.70- 405.70	375.70
11.739	11.739 (1.283)	92	1960012			168.03- 228.03	198.03
221 Undecane					CAS #: 1120-21-4		
11.774	11.774 (1.286)	57	3300405	50.0000	50.000	80.00- 120.00	100.00
11.774	11.774 (1.286)	43	2874240			57.09- 117.09	87.09
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.817	11.817 (1.291)	146	2059046	50.0000	50.000	80.00- 120.00	100.00
11.817	11.817 (1.291)	148	1315534			33.89- 93.89	63.89
11.817	11.817 (1.291)	111	933668			15.34- 75.34	45.34
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.620	12.620 (1.379)	157	1419136	50.0000	50.000	80.00- 120.00	100.00
12.620	12.620 (1.379)	75	1359596			65.80- 125.80	95.80
12.620	12.620 (1.379)	155	1101454			47.61- 107.61	77.61
227 Dodecane					CAS #: 112-40-3		
12.856	12.856 (1.405)	57	3786708	50.0000	50.000	80.00- 120.00	100.00
12.856	12.856 (1.405)	43	3042015			50.33- 110.33	80.33
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.400	13.400 (1.464)	180	2141945	56.0500	56.050	80.00- 120.00	100.00
13.400	13.400 (1.464)	182	2055354			65.96- 125.96	95.96
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.515	13.515 (1.477)	225	1864468	56.3500	56.350	80.00- 120.00	100.00
13.515	13.515 (1.477)	223	1183911			33.50- 93.50	63.50
232 Naphthalene					CAS #: 91-20-3		
13.651	13.651 (1.491)	128	531096	5.90000	5.900	80.00- 120.00	100.00
13.651	13.651 (1.491)	127	68047			0.00- 42.81	12.81
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.902	13.902 (1.519)	180	2101312	56.3500	56.350	80.00- 120.00	100.00
13.902	13.902 (1.519)	182	1992703			64.83- 124.83	94.83
13.902	13.902 (1.519)	145	714326			3.99- 63.99	33.99

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a091009.d
Lab Smp Id: ICAL Level 7
Analysis Type: VOA
Quant Type: ISTD
Operator: TO
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 50ppbv(200ppbv)

Calibration Date: 10-SEP-2024
Calibration Time: 15:01
Level: LOW
Sample Type: AIR

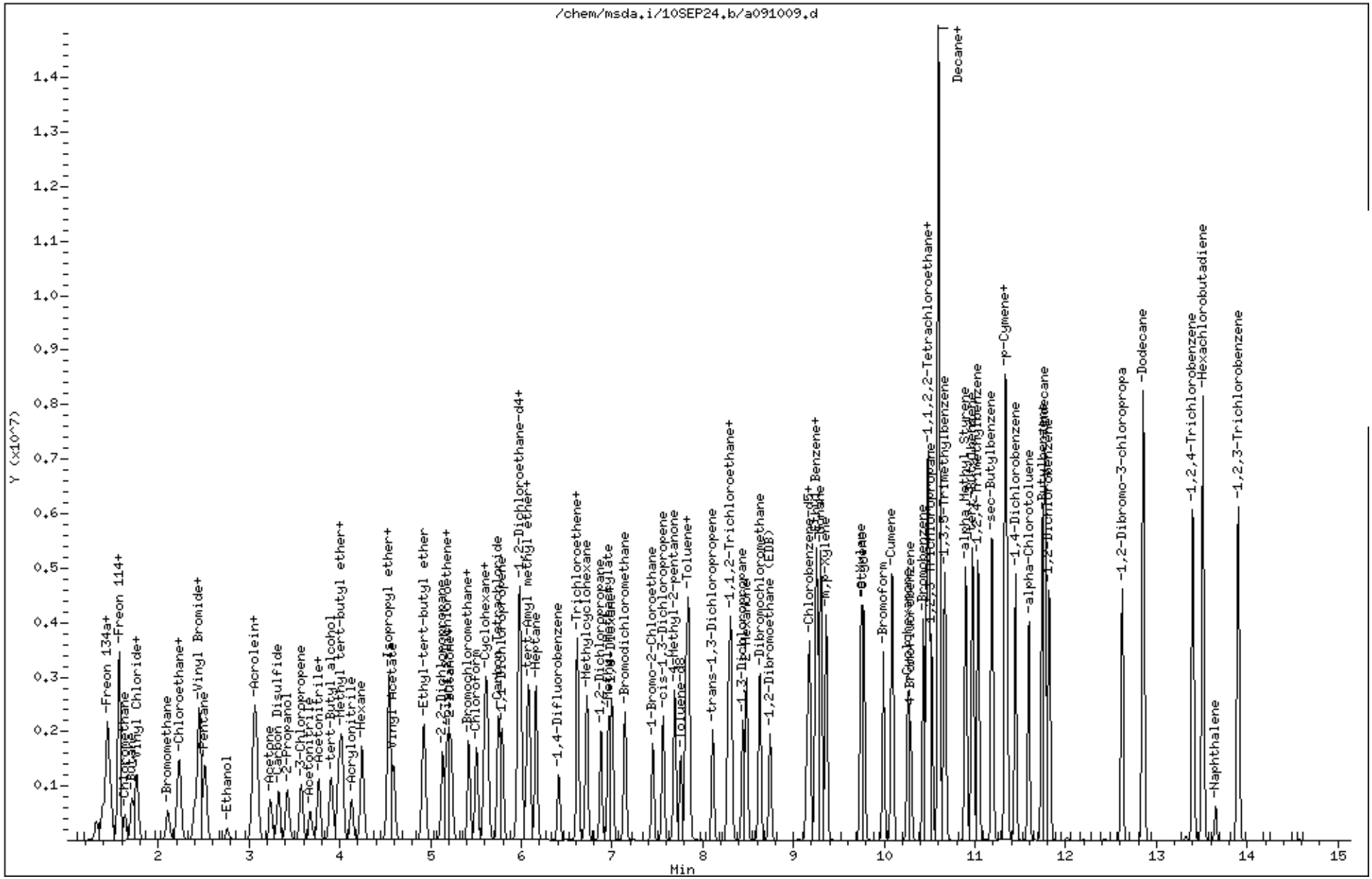
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	272599	163559	381639	272599	0.00
126 1,4-Difluorobenze	989537	593722	1385352	989537	0.00
165 Chlorobenzene-d5	922551	553531	1291571	922551	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/10SEP24.b/a091009.d
Date : 10-SEP-2024 15:01
Client ID:
Sample Info: 50mL 3018-4808

Instrument: msda.i
Operator: TO
Column phase: RTX-624
Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/10SEP24.b/a091010.d
Lab Smp Id: ICAL Level 8
Inj Date : 10-SEP-2024 15:36
Operator : TO Inst ID: msda.i
Smp Info : 100mL 3018-4808
Misc Info : 100ppbv(200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Meth Date : 10-Sep-2024 18:16 h6wn Quant Type: ISTD
Cal Date : 10-SEP-2024 15:36 Cal File: a091010.d
Als bottle: 13 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	281597	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	215382			46.45- 106.45	76.49
5.428	5.428 (1.000)	49	552122			167.12- 227.12	196.07
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.022	6.015 (1.110)	65	500355	25.0000	25.222	80.00- 120.00	100.00
6.022	6.015 (1.110)	67	247854			23.36- 83.36	49.54
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	1043733	25.0000		80.00- 120.00	100.00
6.416	6.409 (1.000)	88	168642			0.00- 46.36	16.16
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	1112519	25.0000	25.546	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	124301			0.00- 41.92	11.17
7.756	7.756 (1.209)	100	773141			39.07- 99.07	69.49
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.153 (1.000)	117	987271	25.0000		80.00- 120.00	100.00

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========		=======	=======	==========	=====
* 165 Chlorobenzene-d5 (continued)								
9.153	9.153 (1.000)	82	567645				27.12- 87.12	57.50
$ 191 4-Bromofluorobenzene						CAS #: 460-00-4		
10.299	10.299 (1.125)	174	655222		25.0000	24.875	80.00- 120.00	100.00
10.292	10.299 (1.124)	95	777095				89.27- 149.27	118.60
10.299	10.299 (1.125)	176	626676				66.29- 126.29	95.64
6 Freon 134a						CAS #: 811-97-2		
1.388	1.388 (0.256)	83	1260662		100.000	100.18	80.00- 120.00	100.00
1.388	1.388 (0.256)	69	888794				41.53- 101.53	70.50
1.388	1.388 (0.256)	63	154257				0.00- 42.30	12.24
8 Propylene						CAS #: 115-07-1		
1.424	1.424 (0.262)	41	1153177		100.000	91.572	80.00- 120.00	100.00
1.424	1.424 (0.262)	42	776426				38.18- 98.18	67.33
1.424	1.424 (0.262)	39	807877				40.18- 100.18	70.06
9 1,1-Difluoroethane						CAS #: 75-37-6		
1.438	1.431 (0.265)	65	685353		100.000	95.261	80.00- 120.00	100.00
1.481	1.474 (0.273)	51	2749427				362.20- 422.20	401.17
1.438	1.438 (0.265)	47	482388				41.18- 101.18	70.39
10 Freon 12						CAS #: 75-71-8		
1.452	1.452 (0.268)	85	3201095		100.000	94.242	80.00- 120.00	100.00
1.452	1.452 (0.268)	87	1036506				1.90- 61.90	32.38
12 Chlorodifluoromethane						CAS #: 75-45-6		
1.481	1.481 (0.273)	67	335250		100.000	96.885	80.00- 120.00	100.00(Q)
1.481	1.474 (0.273)	51	2749427				756.67- 816.67	820.11
15 Freon 114						CAS #: 76-14-2		
1.560	1.560 (0.287)	135	2204208		100.000	98.118	80.00- 120.00	100.00
1.560	1.560 (0.287)	137	692131				1.76- 61.76	31.40
16 Isobutane						CAS #: 75-28-5		
1.574	1.574 (0.290)	43	2659709		100.000	95.324	80.00- 120.00	100.00
1.574	1.574 (0.290)	42	868793				2.85- 62.85	32.66
1.574	1.574 (0.290)	58	94497				0.00- 33.52	3.55
17 Chloromethane						CAS #: 74-87-3		
1.639	1.632 (0.302)	50	1075701		100.000	88.607	80.00- 120.00	100.00
1.639	1.632 (0.302)	52	360904				2.14- 62.14	33.55
22 Butane						CAS #: 106-97-8		
1.710	1.703 (0.315)	58	215755		100.000	82.981	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
22 Butane (continued)							
1.703	1.703 (0.314)	43	1535978			706.79- 766.79	711.91
24 Vinyl Chloride					CAS #: 75-01-4		
1.739	1.746 (0.320)	62	1014493	100.000	81.450	80.00- 120.00	100.00
1.739	1.746 (0.320)	64	310554			0.00- 59.56	30.61
25 1,3-Butadiene					CAS #: 106-99-0		
1.760	1.768 (0.324)	54	931335	100.000	79.237	80.00- 120.00	100.00
1.760	1.768 (0.324)	39	838846			64.19- 124.19	90.07
29 Bromomethane					CAS #: 74-83-9		
2.104	2.104 (0.388)	94	971211	100.000	104.90	80.00- 120.00	100.00
2.104	2.104 (0.388)	96	911904			63.72- 123.72	93.89
30 Chloroethane					CAS #: 75-00-3		
2.205	2.205 (0.406)	64	664839	100.000	101.65	80.00- 120.00	100.00
2.205	2.205 (0.406)	66	192727			0.20- 60.20	28.99
2.205	2.205 (0.406)	49	240030			7.38- 67.38	36.10
31 Isopentane					CAS #: 78-78-4		
2.233	2.233 (0.411)	43	1808683	100.000	100.19	80.00- 120.00	100.00
2.233	2.233 (0.411)	57	1228545			38.61- 98.61	67.92
32 Vinyl Bromide					CAS #: 593-60-2		
2.398	2.398 (0.442)	106	1177552	100.000	104.42	80.00- 120.00	100.00
2.398	2.398 (0.442)	108	1083620			62.27- 122.27	92.02
33 Freon 11					CAS #: 75-69-4		
2.441	2.448 (0.450)	101	3744386	100.000	97.950	80.00- 120.00	100.00
2.441	2.448 (0.450)	103	2446984			35.49- 95.49	65.35
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.455	2.455 (0.452)	67	2772813	100.000	99.724	80.00- 120.00	100.00
2.455	2.455 (0.452)	69	868417			0.95- 60.95	31.32
37 Pentane					CAS #: 109-66-0		
2.513	2.513 (0.463)	43	2841202	100.000	102.52	80.00- 120.00	100.00
2.513	2.513 (0.463)	57	446685			0.00- 45.38	15.72
2.513	2.520 (0.463)	72	208588			0.00- 37.02	7.34
42 Ethanol					CAS #: 64-17-5		
2.770	2.763 (0.510)	46	280057	122.300	109.86	80.00- 120.00	100.00
2.770	2.763 (0.510)	45	734828			225.08- 285.08	262.39
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.562)	55	603953	116.600	114.35	80.00- 120.00	100.00

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
46 Acrolein (continued)								
3.050	3.050 (0.562)	56	820620				109.39- 169.39	135.87
47 Freon 113							CAS #: 76-13-1	
3.057	3.057 (0.563)	151	2164003	100.000		95.679	80.00- 120.00	100.00
3.057	3.057 (0.563)	153	1396726				33.72- 93.72	64.54
3.057	3.057 (0.563)	101	2679637				94.86- 154.86	123.83
49 1,1-Dichloroethene							CAS #: 75-35-4	
3.086	3.086 (0.568)	98	738391	100.000		97.531	80.00- 120.00	100.00
3.086	3.086 (0.568)	96	1163618				127.35- 187.35	157.59
3.086	3.086 (0.568)	61	2622107				327.38- 387.38	355.11
52 Acetone							CAS #: 67-64-1	
3.236	3.236 (0.596)	58	829744	100.000		95.968	80.00- 120.00	100.00
3.236	3.236 (0.596)	43	2667602				290.16- 350.16	321.50
54 Carbon Disulfide							CAS #: 75-15-0	
3.322	3.322 (0.612)	76	3360279	100.000		97.651	80.00- 120.00	100.00
57 2-Propanol							CAS #: 67-63-0	
3.429	3.422 (0.632)	45	3480442	116.600		114.01	80.00- 120.00	100.00
3.429	3.422 (0.632)	43	626284				0.00- 48.07	17.99
3.429	3.422 (0.632)	59	130966				0.00- 33.65	3.76
58 3-Chloropropene							CAS #: 107-05-1	
3.580	3.573 (0.660)	76	553109	100.000		99.749	80.00- 120.00	100.00
3.573	3.573 (0.658)	41	2153519				369.70- 429.70	389.35
60 Acetonitrile							CAS #: 75-05-8	
3.680	3.673 (0.678)	40	762499	115.600		98.068	80.00- 120.00	100.00
3.680	3.673 (0.678)	41	1467216				161.56- 221.56	192.42
3.766	3.773 (0.694)	38	10111				0.00- 31.07	1.33
64 Methylene Chloride							CAS #: 75-09-2	
3.766	3.766 (0.694)	49	2109767	100.000		95.104	80.00- 120.00	100.00
3.766	3.766 (0.694)	84	1051928				18.48- 78.48	49.86
3.766	3.766 (0.694)	51	655033				0.91- 60.91	31.05
70 tert-Butyl alcohol							CAS #: 75-65-0	
3.909	3.902 (0.720)	59	3867382	116.300		110.71	80.00- 120.00	100.00
3.909	3.902 (0.720)	41	801051				0.00- 51.01	20.71
3.909	3.902 (0.720)	57	426496				0.00- 41.01	11.03
72 Methyl tert-butyl ether							CAS #: 1634-04-4	
3.995	3.995 (0.736)	73	3582964	100.000		98.816	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.995	3.995 (0.736)	57	1117788			0.93- 60.93	31.20
3.995	3.995 (0.736)	41	1025694			0.00- 59.87	28.63
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	783671	100.000	97.025	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	2439623			282.80- 342.80	311.31
4.024	4.024 (0.741)	96	1225464			122.91- 182.91	156.37
74 Acrylonitrile					CAS #: 107-13-1		
4.131	4.131 (0.761)	52	1241533	100.000	98.202	80.00- 120.00	100.00
4.131	4.131 (0.761)	53	1464462			88.44- 148.44	117.96
78 Hexane					CAS #: 110-54-3		
4.246	4.246 (0.782)	57	2653094	100.000	97.818	80.00- 120.00	100.00
4.246	4.246 (0.782)	43	1682692			34.01- 94.01	63.42
4.246	4.246 (0.782)	86	287334			0.00- 40.22	10.83
82 Isopropyl ether					CAS #: 108-20-3		
4.540	4.540 (0.836)	45	5754591	100.000	93.332	80.00- 120.00	100.00
4.540	4.540 (0.836)	87	1044615			0.00- 47.08	18.15
4.540	4.540 (0.836)	59	629166			0.00- 40.83	10.93
83 1,1-Dichloroethane					CAS #: 75-34-3		
4.547	4.547 (0.838)	63	2747179	100.000	97.110	80.00- 120.00	100.00
4.547	4.547 (0.838)	65	821560			0.00- 59.58	29.91
84 Vinyl Acetate					CAS #: 108-05-4		
4.597	4.597 (0.847)	86	328905	116.200	125.67	80.00- 120.00	100.00(Q)
4.597	4.597 (0.847)	43	5372592			1663.30-1723.30	1633.48
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.927	4.927 (0.908)	59	5293731	100.000	98.006	80.00- 120.00	100.00
4.927	4.927 (0.908)	87	1578195			0.00- 58.78	29.81
4.927	4.927 (0.908)	41	948009			0.00- 48.47	17.91
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.134	5.134 (0.946)	77	2588840	100.000	96.458	80.00- 120.00	100.00
5.134	5.134 (0.946)	79	831735			2.20- 62.20	32.13
5.134	5.134 (0.946)	97	519711			0.00- 50.29	20.08
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	830990	100.000	98.663	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	1301338			123.49- 183.49	156.60
5.177	5.177 (0.954)	61	2845872			310.35- 370.35	342.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
5.206	5.206 (0.959)	72	627595	100.000	100.47	80.00- 120.00	100.00(Q)
5.220	5.206 (0.962)	43	7814985			1272.59-1332.59	1245.23
5.206	5.206 (0.959)	57	300387			18.61- 78.61	47.86
93 Ethyl Acetate					CAS #: 141-78-6		
5.227	5.227 (0.963)	70	323677	100.000	105.31	80.00- 120.00	100.00
5.177	5.177 (0.954)	61	2845872			877.60- 937.60	879.23
5.227	5.227 (0.963)	45	648519			179.24- 239.24	200.36
99 Tetrahydrofuran					CAS #: 109-99-9		
5.414	5.414 (0.997)	42	1991167	100.000	94.705	80.00- 120.00	100.00
5.421	5.414 (0.999)	71	539771			0.00- 56.60	27.11
5.414	5.414 (0.997)	72	552832			0.00- 56.86	27.76
103 Chloroform					CAS #: 67-66-3		
5.507	5.507 (1.015)	83	2983985	100.000	97.430	80.00- 120.00	100.00
5.507	5.507 (1.015)	85	1954932			34.90- 94.90	65.51
104 Cyclohexane					CAS #: 110-82-7		
5.600	5.600 (1.032)	84	1539622	100.000	96.799	80.00- 120.00	100.00
5.600	5.600 (1.032)	56	2771531			152.85- 212.85	180.01
5.600	5.600 (1.032)	41	1433976			65.81- 125.81	93.14
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.629	5.629 (1.037)	97	3044801	100.000	96.966	80.00- 120.00	100.00
5.629	5.629 (1.037)	99	1958892			34.79- 94.79	64.34
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.750	5.750 (1.059)	119	3295712	100.000	95.811	80.00- 120.00	100.00
5.750	5.750 (1.059)	117	3428726			73.63- 133.63	104.04
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.793	5.793 (0.903)	110	715746	100.000	101.06	80.00- 120.00	100.00
5.793	5.793 (0.903)	75	2053006			260.30- 320.30	286.83
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.972	5.972 (1.100)	57	8267510	100.000	98.206	80.00- 120.00	100.00
5.972	5.972 (1.100)	56	2681450			2.18- 62.18	32.43
5.972	5.972 (1.100)	41	2084421			0.00- 55.61	25.21
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.933)	78	3593438	100.000	98.544	80.00- 120.00	100.00
5.987	5.987 (0.933)	77	851572			0.00- 53.99	23.70
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.073	6.073 (1.119)	87	935533	100.000	102.94	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.073	6.073 (1.119)	73	3661061			362.99- 422.99	391.33
6.073	6.073 (1.119)	55	1370963			122.42- 182.42	146.54
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.094	6.094 (0.950)	62	2458065	100.000	99.058	80.00- 120.00	100.00
6.094	6.094 (0.950)	64	777953			1.65- 61.65	31.65
122 Heptane					CAS #: 142-82-5		
6.166	6.166 (0.961)	71	1291880	100.000	102.16	80.00- 120.00	100.00
6.166	6.166 (0.961)	43	3313965			240.22- 300.22	256.52
6.166	6.166 (0.961)	57	1758706			110.36- 170.36	136.14
129 Trichloroethene					CAS #: 79-01-6		
6.624	6.617 (1.032)	95	1840839	100.000	99.308	80.00- 120.00	100.00
6.624	6.617 (1.032)	130	1793499			67.98- 127.98	97.43
6.624	6.617 (1.032)	97	1210870			34.45- 94.45	65.78
128 n-Butanol					CAS #: 71-36-3		
6.617	6.617 (1.031)	56	1606609	100.000	99.839	80.00- 120.00	100.00
6.617	6.617 (1.031)	41	1083242			39.42- 99.42	67.42
6.617	6.617 (1.031)	43	879955			25.37- 85.37	54.77
131 Methylcyclohexane					CAS #: 108-87-2		
6.724	6.724 (1.239)	83	2137938	100.000	97.887	80.00- 120.00	100.00
6.724	6.724 (1.239)	98	968211			14.33- 74.33	45.29
6.724	6.724 (1.239)	55	2656562			96.87- 156.87	124.26
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.071)	63	1831395	100.000	98.799	80.00- 120.00	100.00
6.875	6.875 (1.071)	62	1303209			41.06- 101.06	71.16
6.875	6.875 (1.071)	41	1047566			28.31- 88.31	57.20
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	1462362	100.000	101.46	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	2570341			153.10- 213.10	175.77
6.961	6.961 (0.761)	100	554216			8.18- 68.18	37.90
140 1,4-Dioxane					CAS #: 123-91-1		
6.982	6.982 (1.088)	88	939097	100.000	98.704	80.00- 120.00	100.00
6.982	6.982 (1.088)	58	978839			74.98- 134.98	104.23
6.982	6.982 (1.088)	57	353566			8.55- 68.55	37.65
141 Dibromomethane					CAS #: 74-95-3		
7.004	7.004 (0.765)	174	1765750	100.000	93.049	80.00- 120.00	100.00
6.997	6.997 (0.764)	93	1737879			66.30- 126.30	98.42

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
141 Dibromomethane (continued)							
6.997	6.997 (0.764)	95	1446897			49.87- 109.87	81.94
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.113)	83	3266874	100.000	99.504	80.00- 120.00	100.00
7.140	7.140 (1.113)	85	2115329			34.86- 94.86	64.75
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.161)	63	3488435	100.000	98.220	80.00- 120.00	100.00
7.448	7.448 (1.161)	65	1018054			0.00- 58.67	29.18
7.448	7.448 (1.161)	144	320494			0.00- 39.14	9.19
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.563	7.563 (1.179)	75	2672155	100.000	104.05	80.00- 120.00	100.00
7.563	7.563 (1.179)	77	835025			1.88- 61.88	31.25
7.563	7.563 (1.179)	39	1654386			33.29- 93.29	61.91
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.691	7.691 (1.199)	58	1788510	100.000	98.302	80.00- 120.00	100.00
7.691	7.691 (1.199)	43	4617764			235.08- 295.08	258.19
7.691	7.691 (1.199)	85	572010			0.69- 60.69	31.98
153 Toluene					CAS #: 108-88-3		
7.820	7.820 (1.219)	91	4686152	100.000	97.518	80.00- 120.00	100.00
7.820	7.820 (1.219)	92	2734331			27.69- 87.69	58.35
151 Octane					CAS #: 111-65-9		
7.849	7.849 (1.223)	57	1908507	100.000	95.472	80.00- 120.00	100.00
7.849	7.849 (1.223)	85	1509009			46.75- 106.75	79.07
7.849	7.842 (1.223)	43	4694655			221.22- 281.22	245.99
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.114	8.114 (0.887)	75	2375037	100.000	101.55	80.00- 120.00	100.00
8.114	8.114 (0.887)	77	759139			1.61- 61.61	31.96
8.114	8.114 (0.887)	39	1309345			26.86- 86.86	55.13
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	1668444	100.000	95.913	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	1047820			32.96- 92.96	62.80
8.279	8.279 (0.905)	83	1492368			59.05- 119.05	89.45
159 Tetrachloroethene					CAS #: 127-18-4		
8.308	8.308 (0.908)	166	2451291	100.000	93.785	80.00- 120.00	100.00
8.308	8.308 (0.908)	129	1922483			46.43- 106.43	78.43
8.308	8.308 (0.908)	131	1875959			45.56- 105.56	76.53

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.316)	76	2485063	100.000	99.648	80.00- 120.00	100.00
8.444	8.444 (1.316)	41	2175640			59.80- 119.80	87.55
8.444	8.444 (1.316)	78	803848			2.58- 62.58	32.35
162 2-Hexanone					CAS #: 591-78-6		
8.479	8.479 (0.926)	58	2550326	100.000	96.504	80.00- 120.00	100.00
8.479	8.479 (0.926)	43	4692384			159.07- 219.07	183.99
8.479	8.479 (0.926)	100	358329			0.00- 43.98	14.05
163 Dibromochloromethane					CAS #: 124-48-1		
8.630	8.630 (0.943)	129	3614676	100.000	99.772	80.00- 120.00	100.00
8.630	8.630 (0.943)	127	2815114			47.90- 107.90	77.88
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.744	8.744 (0.955)	107	3033789	100.000	97.957	80.00- 120.00	100.00
8.744	8.744 (0.955)	109	2855819			64.00- 124.00	94.13
166 Chlorobenzene					CAS #: 108-90-7		
9.174	9.181 (1.002)	112	3986543	100.000	95.078	80.00- 120.00	100.00
9.181	9.181 (1.003)	114	1292605			2.75- 62.75	32.42
9.174	9.181 (1.002)	77	2404131			30.27- 90.27	60.31
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.010)	106	2027055	100.000	98.014	80.00- 120.00	100.00
9.246	9.246 (1.010)	91	6292543			281.27- 341.27	310.43
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	2350293	100.000	95.741	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	1527656			34.91- 94.91	65.00
9.267	9.267 (1.013)	95	944552			10.71- 70.71	40.19
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.016)	43	4856616	100.000	91.417	80.00- 120.00	100.00
9.303	9.303 (1.016)	57	4361284			57.91- 117.91	89.80
9.303	9.303 (1.016)	85	1167498			0.00- 52.91	24.04
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.361 (1.023)	106	2554994	100.000	99.330	80.00- 120.00	100.00
9.360	9.361 (1.023)	91	5213233			176.41- 236.41	204.04
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	2415429	100.000	100.50	80.00- 120.00	100.00
9.747	9.747 (1.065)	91	5202307			186.60- 246.60	215.38
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.068)	104	4018408	100.000	97.892	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.776	9.776 (1.068)	78	2261973			26.08- 86.08	56.29
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	3717032	100.000	98.486	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	1934084			22.58- 82.58	52.03
185 Cumene					CAS #: 98-82-8		
10.091	10.091 (1.103)	105	7501268	100.000	96.917	80.00- 120.00	100.00
10.091	10.091 (1.103)	120	1942028			0.00- 55.43	25.89
10.084	10.091 (1.102)	51	1065308			0.00- 44.39	14.20
189 Cyclohexanone					CAS #: 108-94-1		
10.263	10.263 (1.121)	55	3176305	100.000	86.907	80.00- 120.00	100.00
10.263	10.263 (1.121)	98	912606			0.00- 57.69	28.73
10.263	10.256 (1.121)	42	1980702			32.21- 92.21	62.36
192 Bromobenzene					CAS #: 108-86-1		
10.435	10.435 (1.140)	156	2531787	100.000	95.471	80.00- 120.00	100.00
10.435	10.435 (1.140)	158	2463793			68.15- 128.15	97.31
10.435	10.428 (1.140)	77	3882928			125.89- 185.89	153.37
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.144)	83	3895713	100.000	93.462	80.00- 120.00	100.00
10.471	10.471 (1.144)	85	2498189			35.63- 95.63	64.13
196 Propylbenzene					CAS #: 103-65-1		
10.492	10.492 (1.146)	120	2031937	100.000	97.999	80.00- 120.00	100.00
10.492	10.492 (1.146)	91	8593682			403.96- 463.96	422.93
10.492	10.492 (1.146)	105	339587			0.00- 46.94	16.71
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.149)	110	1238334	100.000	92.490	80.00- 120.00	100.00
10.521	10.521 (1.149)	75	3179587			232.06- 292.06	256.76
10.521	10.521 (1.149)	61	1111307			62.53- 122.53	89.74
199 Decane					CAS #: 124-18-5		
10.600	10.600 (1.158)	57	5500145	100.000	92.122	80.00- 120.00	100.00
10.600	10.600 (1.158)	71	1501910			0.00- 56.58	27.31
10.600	10.600 (1.158)	142	187670			0.00- 33.23	3.41
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.158)	120	2159590	100.000	94.833	80.00- 120.00	100.00
10.600	10.600 (1.158)	105	7430477			317.00- 377.00	344.07
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.159)	126	1748947	100.000	93.078	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.607	10.607 (1.159)	91	6143793			317.25- 377.25	351.29
10.607	10.607 (1.159)	65	1107287			32.33- 92.33	63.31
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.671	10.671 (1.166)	120	2972555	100.000	96.612	80.00- 120.00	100.00
10.671	10.671 (1.166)	105	6512181			190.09- 250.09	219.08
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.901	10.901 (1.191)	118	3304676	100.000	101.01	80.00- 120.00	100.00
10.901	10.901 (1.191)	103	2072943			32.49- 92.49	62.73
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.199)	119	5863886	100.000	93.888	80.00- 120.00	100.00
10.972	10.972 (1.199)	134	1388286			0.00- 53.10	23.68
10.972	10.972 (1.199)	91	4218205			40.97- 100.97	71.94
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.206)	120	2828733	100.000	99.417	80.00- 120.00	100.00
11.037	11.037 (1.206)	105	6523996			204.98- 264.98	230.63
214 sec-Butylbenzene					CAS #: 135-98-8		
11.194	11.194 (1.223)	134	1818470	100.000	98.777	80.00- 120.00	100.00
11.194	11.194 (1.223)	105	9039179			484.40- 544.40	497.08
11.194	11.187 (1.223)	91	1538579			54.94- 114.94	84.61
216 p-Cymene					CAS #: 99-87-6		
11.337	11.337 (1.239)	119	7785024	100.000	95.543	80.00- 120.00	100.00
11.337	11.337 (1.239)	134	2056691			0.00- 55.89	26.42
11.337	11.330 (1.239)	91	2078908			0.00- 56.21	26.70
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.240)	146	4253152	100.000	94.395	80.00- 120.00	100.00
11.352	11.352 (1.240)	148	2698751			33.67- 93.67	63.45
11.352	11.352 (1.240)	111	1867856			13.82- 73.82	43.92
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.452	11.445 (1.251)	146	4396973	100.000	95.677	80.00- 120.00	100.00
11.452	11.445 (1.251)	148	2752588			34.50- 94.50	62.60
11.445	11.445 (1.250)	111	1845365			12.20- 72.20	41.97
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.595	11.595 (1.267)	91	6541462	100.000	100.42	80.00- 120.00	100.00
11.595	11.595 (1.267)	126	1341990			0.00- 50.42	20.52
220 Butylbenzene					CAS #: 104-51-8		
11.739	11.739 (1.283)	134	2019889	100.000	100.62	80.00- 120.00	100.00

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
220 Butylbenzene (continued)								
11.739	11.739 (1.283)	91	7421434			345.70- 405.70		367.42
11.739	11.739 (1.283)	92	3981939			168.03- 228.03		197.14
221 Undecane					CAS #: 1120-21-4			
11.774	11.774 (1.286)	57	6453771	100.000	93.458	80.00- 120.00		100.00
11.774	11.774 (1.286)	43	5437735			57.09- 117.09		84.26
222 1,2-Dichlorobenzene					CAS #: 95-50-1			
11.817	11.817 (1.291)	146	4141518	100.000	93.939	80.00- 120.00		100.00
11.825	11.817 (1.292)	148	2638343			33.89- 93.89		63.70
11.817	11.817 (1.291)	111	1875872			15.34- 75.34		45.29
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8			
12.620	12.620 (1.379)	157	2889924	100.000	95.567	80.00- 120.00		100.00
12.620	12.620 (1.379)	75	2748446			65.80- 125.80		95.10
12.620	12.620 (1.379)	155	2247368			47.61- 107.61		77.77
227 Dodecane					CAS #: 112-40-3			
12.856	12.856 (1.405)	57	7430201	100.000	99.637	80.00- 120.00		100.00
12.856	12.856 (1.405)	43	5872390			50.33- 110.33		79.03
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1			
13.408	13.400 (1.465)	180	4375811	112.100	108.58	80.00- 120.00		100.00
13.408	13.400 (1.465)	182	4144254			65.96- 125.96		94.71
231 Hexachlorobutadiene					CAS #: 87-68-3			
13.515	13.515 (1.477)	225	3770974	112.700	108.45	80.00- 120.00		100.00
13.515	13.515 (1.477)	223	2393241			33.50- 93.50		63.46
232 Naphthalene					CAS #: 91-20-3			
13.651	13.651 (1.491)	128	1112326	11.8000	11.757	80.00- 120.00		100.00
13.651	13.651 (1.491)	127	143775			0.00- 42.81		12.93
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6			
13.902	13.902 (1.519)	180	4276782	112.700	110.25	80.00- 120.00		100.00
13.902	13.902 (1.519)	182	4021953			64.83- 124.83		94.04
13.902	13.902 (1.519)	145	1461294			3.99- 63.99		34.17

QC Flag Legend

Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

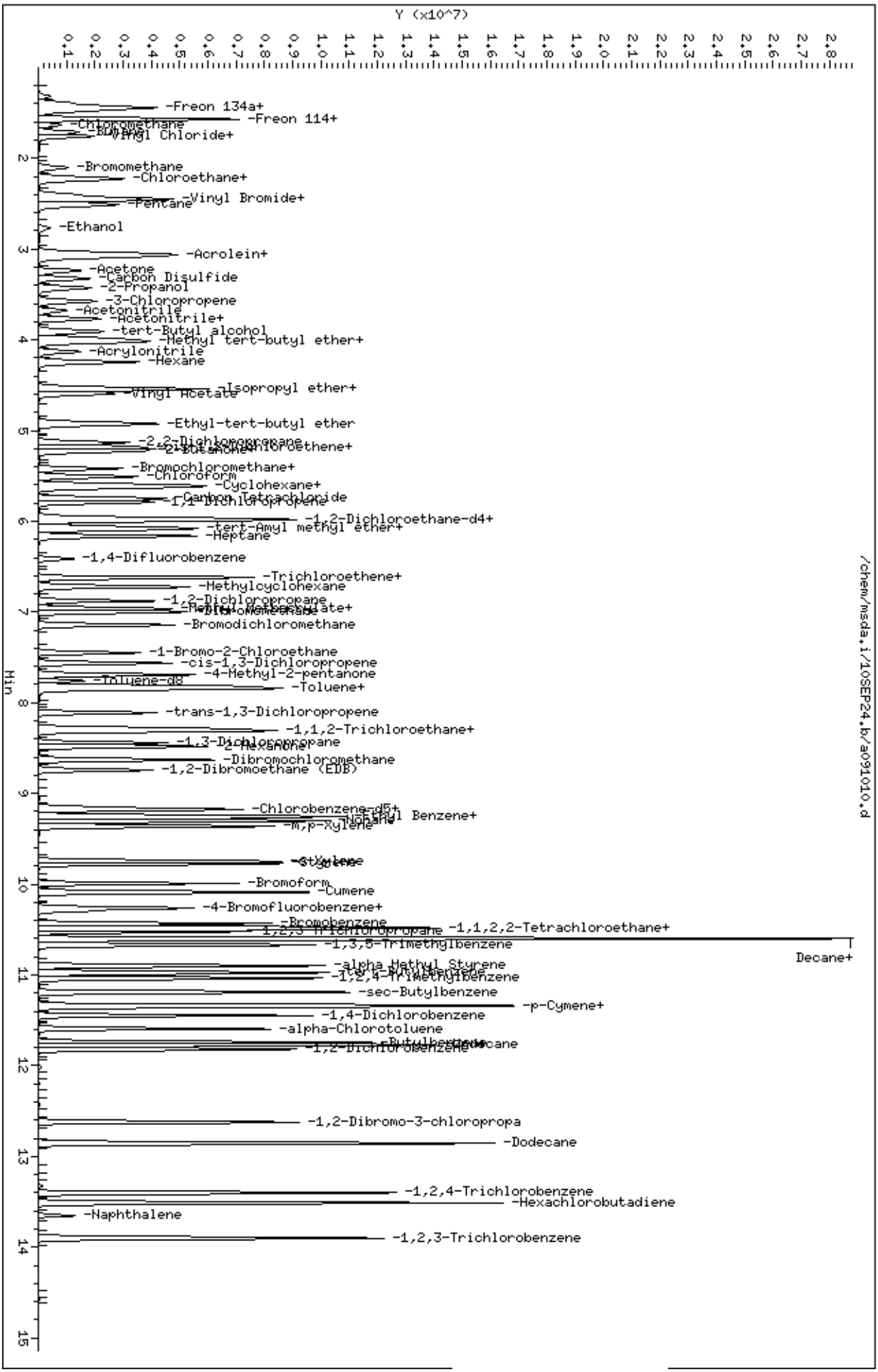
Instrument ID: msda.i
Lab File ID: a091010.d
Lab Smp Id: ICAL Level 8
Analysis Type: VOA
Quant Type: ISTD
Operator: TO
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 100ppbv(200ppbv)

Calibration Date: 10-SEP-2024
Calibration Time: 15:01
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	272599	163559	381639	281597	3.30
126 1,4-Difluorobenze	989537	593722	1385352	1043733	5.48
165 Chlorobenzene-d5	922551	553531	1291571	987271	7.02

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	-0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Data File: /chem/msda.i/10SEP24.b/a091010.d
Date : 10-SEP-2024 15:36
Client ID:
Sample Info: 100mL 3018-4808
Column phase: RTX-624
Instrument: msda.i
Operator: TO
Column diameter: 0.25
/chem/msda.i/10SEP24.b/a091010.d
Y (x10^7)
Min
-Freon 134a+
-Freon 114+
-Chloromethane
-Vinyl Chloride+
-Bromomethane
-Chloroethane+
-Vinyl Bromide+
-Pentane
-Ethanol
-Acrolein+
-Acetone
-Carbon Disulfide
-2-Propanol
-3-Chloropropene
-Acetonitrile
-Acetonitrile+
-tert-Butyl alcohol
-Methyl tert-butyl ether+
-Acrylonitrile
-Hexane
-Isopropyl ether+
-Vinyl Acetate
-Ethyl-tert-butyl ether
-2,2-Dichloropropane
-Bromochloromethane+
-Chloroform
-Cyclohexane+
-1,1-Dichloropropene
-1,2-Dichloroethane-d4+
-tert-Amyl methyl ether+
-Heptane
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane
-1,2-Dichloropropane
-Bromodichloromethane
-1-Bromo-2-Chloroethane
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene+
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane+
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane (EDB)
-Chlorobenzene-d5+
-Ethyl Benzene+
-m,p-Xylene
-o-Xylene
-Bromoform
-Cumene
-4-Bromofluorobenzene+
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-1,2,3-Trichloropropane
-1,3,5-Trimethylbenzene
Decane+
-alpha Methyl Styrene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Cymene+
-1,4-Dichlorobenzene
-alpha-Chlorotoluene
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-Dodecane
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
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EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/10SEP24.b/a091011.d
Lab Smp Id: ICAL Level 9
Inj Date : 10-SEP-2024 16:14
Operator : TO Inst ID: msda.i
Smp Info : 200mL 3018-4808
Misc Info : 200ppbv(200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Meth Date : 10-Sep-2024 18:16 h6wn Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 13 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 100 Bromochloromethane					CAS #: 74-97-5		
5.435	5.428 (1.000)	130	289433	25.0000		80.00- 120.00	100.00
5.435	5.428 (1.000)	128	229816			46.45- 106.45	79.40
5.428	5.428 (1.000)	49	576388			167.12- 227.12	199.14
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.023	6.015 (1.108)	65	465178	25.0000	23.102	80.00- 120.00	100.00
6.023	6.015 (1.108)	67	258383			23.36- 83.36	55.54
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.417	6.409 (1.000)	114	1109115	25.0000		80.00- 120.00	100.00
6.417	6.409 (1.000)	88	180558			0.00- 46.36	16.28
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	1150927	25.0000	24.888	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	130579			0.00- 41.92	11.35
7.756	7.756 (1.209)	100	797283			39.07- 99.07	69.27
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.153 (1.000)	117	1041656	25.0000		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 165 Chlorobenzene-d5 (continued)							
9.153	9.153 (1.000)	82	596018			27.12- 87.12	57.22
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.299	10.299 (1.125)	174	692325	25.0000	24.924	80.00- 120.00	100.00
10.292	10.299 (1.124)	95	830372			89.27- 149.27	119.94
10.299	10.299 (1.125)	176	666184			66.29- 126.29	96.22
6 Freon 134a					CAS #: 811-97-2		
1.395	1.388 (0.257)	83	2234063	200.000	176.75	80.00- 120.00	100.00
1.388	1.388 (0.255)	69	1605065			41.53- 101.53	71.85
1.395	1.388 (0.257)	63	280035			0.00- 42.30	12.53
8 Propylene					CAS #: 115-07-1		
1.424	1.424 (0.262)	41	2337963	200.000	183.59	80.00- 120.00	100.00
1.424	1.424 (0.262)	42	1561716			38.18- 98.18	66.80
1.424	1.424 (0.262)	39	1635812			40.18- 100.18	69.97
9 1,1-Difluoroethane					CAS #: 75-37-6		
1.438	1.431 (0.265)	65	1406743	200.000	191.80	80.00- 120.00	100.00
1.481	1.474 (0.273)	51	5818013			362.20- 422.20	413.58
1.445	1.438 (0.266)	47	969184			41.18- 101.18	68.90
10 Freon 12					CAS #: 75-71-8		
1.453	1.452 (0.267)	85	6364557	200.000	184.64	80.00- 120.00	100.00
1.453	1.452 (0.267)	87	2091571			1.90- 61.90	32.86
12 Chlorodifluoromethane					CAS #: 75-45-6		
1.481	1.481 (0.273)	67	681224	200.000	192.90	80.00- 120.00	100.00(Q)
1.481	1.474 (0.273)	51	5818013			756.67- 816.67	854.05
15 Freon 114					CAS #: 76-14-2		
1.567	1.560 (0.288)	135	4531403	200.000	196.78	80.00- 120.00	100.00
1.567	1.560 (0.288)	137	1474332			1.76- 61.76	32.54
16 Isobutane					CAS #: 75-28-5		
1.574	1.574 (0.290)	43	5337454	200.000	188.29	80.00- 120.00	100.00
1.574	1.574 (0.290)	42	1736139			2.85- 62.85	32.53
1.574	1.574 (0.290)	58	194440			0.00- 33.52	3.64
17 Chloromethane					CAS #: 74-87-3		
1.639	1.632 (0.301)	50	2120760	200.000	175.22	80.00- 120.00	100.00
1.639	1.632 (0.301)	52	690559			2.14- 62.14	32.56
22 Butane					CAS #: 106-97-8		
1.710	1.703 (0.315)	58	449444	200.000	172.76	80.00- 120.00	100.00(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
	22 Butane (continued)						
1.710	1.703 (0.315)	43	3104980			706.79- 766.79	690.85
	24 Vinyl Chloride				CAS #: 75-01-4		
1.739	1.746 (0.320)	62	2065583	200.000	165.93	80.00- 120.00	100.00
1.739	1.746 (0.320)	64	624194			0.00- 59.56	30.22
	25 1,3-Butadiene				CAS #: 106-99-0		
1.761	1.768 (0.324)	54	1876018	200.000	160.41	80.00- 120.00	100.00
1.761	1.768 (0.324)	39	1664126			64.19- 124.19	88.71
	29 Bromomethane				CAS #: 74-83-9		
2.097	2.104 (0.386)	94	1956412	200.000	204.45	80.00- 120.00	100.00(A)
2.104	2.104 (0.387)	96	1840920			63.72- 123.72	94.10
	30 Chloroethane				CAS #: 75-00-3		
2.212	2.205 (0.407)	64	1325599	200.000	197.64	80.00- 120.00	100.00
2.212	2.205 (0.407)	66	390540			0.20- 60.20	29.46
2.212	2.205 (0.407)	49	454989			7.38- 67.38	34.32
	31 Isopentane				CAS #: 78-78-4		
2.226	2.233 (0.410)	43	3630179	200.000	196.36	80.00- 120.00	100.00
2.226	2.233 (0.410)	57	2543177			38.61- 98.61	70.06
	32 Vinyl Bromide				CAS #: 593-60-2		
2.398	2.398 (0.441)	106	2376396	200.000	204.17	80.00- 120.00	100.00(A)
2.398	2.398 (0.441)	108	2208258			62.27- 122.27	92.92
	33 Freon 11				CAS #: 75-69-4		
2.441	2.448 (0.449)	101	7658562	200.000	195.63	80.00- 120.00	100.00
2.441	2.448 (0.449)	103	5010560			35.49- 95.49	65.42
	35 Dichlorofluoromethane				CAS #: 75-43-4		
2.455	2.455 (0.452)	67	5487473	200.000	193.30	80.00- 120.00	100.00
2.455	2.455 (0.452)	69	1703451			0.95- 60.95	31.04
	37 Pentane				CAS #: 109-66-0		
2.513	2.513 (0.462)	43	5799425	200.000	202.98	80.00- 120.00	100.00(A)
2.513	2.513 (0.462)	57	938015			0.00- 45.38	16.17
2.513	2.520 (0.462)	72	442648			0.00- 37.02	7.63
	42 Ethanol				CAS #: 64-17-5		
2.778	2.763 (0.511)	46	573329	244.600	222.73	80.00- 120.00	100.00(A)
2.778	2.763 (0.511)	45	1478417			225.08- 285.08	257.87
	46 Acrolein				CAS #: 107-02-8		
3.050	3.050 (0.561)	55	1195280	233.200	222.25	80.00- 120.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Acrolein (continued)							
3.050	3.050 (0.561)	56	1660681			109.39- 169.39	138.94
47 Freon 113						CAS #: 76-13-1	
3.050	3.057 (0.561)	151	4554163	200.000	196.48	80.00- 120.00	100.00
3.050	3.057 (0.561)	153	2896030			33.72- 93.72	63.59
3.050	3.057 (0.561)	101	5608484			94.86- 154.86	123.15
49 1,1-Dichloroethene						CAS #: 75-35-4	
3.086	3.086 (0.568)	98	1563269	200.000	200.77	80.00- 120.00	100.00(A)
3.086	3.086 (0.568)	96	2409171			127.35- 187.35	154.11
3.086	3.086 (0.568)	61	5398852			327.38- 387.38	345.36
52 Acetone						CAS #: 67-64-1	
3.243	3.236 (0.597)	58	1755220	200.000	198.00	80.00- 120.00	100.00
3.243	3.236 (0.597)	43	5408160			290.16- 350.16	308.12
54 Carbon Disulfide						CAS #: 75-15-0	
3.322	3.322 (0.611)	76	7047832	200.000	199.39	80.00- 120.00	100.00
57 2-Propanol						CAS #: 67-63-0	
3.437	3.422 (0.632)	45	7159179	233.200	228.98	80.00- 120.00	100.00(A)
3.430	3.422 (0.631)	43	1269038			0.00- 48.07	17.73
3.437	3.422 (0.632)	59	276637			0.00- 33.65	3.86
58 3-Chloropropene						CAS #: 107-05-1	
3.573	3.573 (0.657)	76	1158728	200.000	202.83	80.00- 120.00	100.00(A)
3.573	3.573 (0.657)	41	4434230			369.70- 429.70	382.68
60 Acetonitrile						CAS #: 75-05-8	
3.680	3.673 (0.677)	40	1522813	231.200	196.30	80.00- 120.00	100.00
3.680	3.673 (0.677)	41	2932587			161.56- 221.56	192.58
3.773	3.773 (0.694)	38	20840			0.00- 31.07	1.37
64 Methylene Chloride						CAS #: 75-09-2	
3.773	3.766 (0.694)	49	4172538	200.000	186.16	80.00- 120.00	100.00
3.773	3.766 (0.694)	84	2126105			18.48- 78.48	50.95
3.773	3.766 (0.694)	51	1309874			0.91- 60.91	31.39
70 tert-Butyl alcohol						CAS #: 75-65-0	
3.909	3.902 (0.719)	59	8083189	232.600	226.34	80.00- 120.00	100.00(A)
3.909	3.902 (0.719)	41	1681043			0.00- 51.01	20.80
3.909	3.902 (0.719)	57	888812			0.00- 41.01	11.00
72 Methyl tert-butyl ether						CAS #: 1634-04-4	
3.995	3.995 (0.735)	73	7454396	200.000	200.02	80.00- 120.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.988	3.995 (0.734)	57	2316040			0.93- 60.93	31.07
3.988	3.995 (0.734)	41	2076975			0.00- 59.87	27.86
73 trans-1,2-Dichloroethene						CAS #: 156-60-5	
4.024	4.024 (0.740)	98	1645712	200.000	198.49	80.00- 120.00	100.00
4.024	4.024 (0.740)	61	5011744			282.80- 342.80	304.53
4.024	4.024 (0.740)	96	2579616			122.91- 182.91	156.75
74 Acrylonitrile						CAS #: 107-13-1	
4.139	4.131 (0.761)	52	2504454	200.000	193.74	80.00- 120.00	100.00
4.139	4.131 (0.761)	53	2958569			88.44- 148.44	118.13
78 Hexane						CAS #: 110-54-3	
4.246	4.246 (0.781)	57	5530662	200.000	198.62	80.00- 120.00	100.00
4.246	4.246 (0.781)	43	3467626			34.01- 94.01	62.70
4.246	4.246 (0.781)	86	594372			0.00- 40.22	10.75
82 Isopropyl ether						CAS #: 108-20-3	
4.540	4.540 (0.835)	45	11513607	200.000	184.50	80.00- 120.00	100.00
4.540	4.540 (0.835)	87	2173346			0.00- 47.08	18.88
4.540	4.540 (0.835)	59	1298887			0.00- 40.83	11.28
83 1,1-Dichloroethane						CAS #: 75-34-3	
4.547	4.547 (0.837)	63	5731700	200.000	197.53	80.00- 120.00	100.00
4.547	4.547 (0.837)	65	1721809			0.00- 59.58	30.04
84 Vinyl Acetate						CAS #: 108-05-4	
4.597	4.597 (0.846)	86	703983	232.400	256.32	80.00- 120.00	100.00(AQ)
4.597	4.597 (0.846)	43	10760902			1663.30-1723.30	1528.57
88 Ethyl-tert-butyl ether						CAS #: 637-92-3	
4.919	4.927 (0.905)	59	10946928	200.000	197.64	80.00- 120.00	100.00
4.927	4.927 (0.906)	87	3341768			0.00- 58.78	30.53
4.919	4.927 (0.905)	41	1918761			0.00- 48.47	17.53
90 2,2-Dichloropropane						CAS #: 594-20-7	
5.134	5.134 (0.945)	77	5422326	200.000	197.13	80.00- 120.00	100.00
5.134	5.134 (0.945)	79	1778719			2.20- 62.20	32.80
5.134	5.134 (0.945)	97	1114168			0.00- 50.29	20.55
91 cis-1,2-Dichloroethene						CAS #: 156-59-2	
5.177	5.177 (0.953)	98	1779591	200.000	204.76	80.00- 120.00	100.00(AQ)
5.177	5.177 (0.953)	96	2721310			123.49- 183.49	152.92
5.177	5.177 (0.953)	61	5216569			310.35- 370.35	293.13

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
5.206	5.206 (0.958)	72	1322707	200.000	204.98	80.00- 120.00	100.00(AQ)
5.220	5.206 (0.960)	43	15538663			1272.59-1332.59	1174.76
5.206	5.206 (0.958)	57	634442			18.61- 78.61	47.97
93 Ethyl Acetate					CAS #: 141-78-6		
5.227	5.227 (0.962)	70	648810	200.000	204.46	80.00- 120.00	100.00(AQ)
5.177	5.177 (0.953)	61	5215845			877.60- 937.60	803.91
5.227	5.227 (0.962)	45	1316112			179.24- 239.24	202.85
99 Tetrahydrofuran					CAS #: 109-99-9		
5.414	5.414 (0.996)	42	4133652	200.000	192.48	80.00- 120.00	100.00
5.414	5.414 (0.996)	71	1171227			0.00- 56.60	28.33
5.414	5.414 (0.996)	72	1204734			0.00- 56.86	29.14
103 Chloroform					CAS #: 67-66-3		
5.507	5.507 (1.013)	83	6136147	200.000	195.64	80.00- 120.00	100.00
5.507	5.507 (1.013)	85	4033201			34.90- 94.90	65.73
104 Cyclohexane					CAS #: 110-82-7		
5.600	5.600 (1.030)	84	3252880	200.000	199.12	80.00- 120.00	100.00
5.600	5.600 (1.030)	56	5711601			152.85- 212.85	175.59
5.600	5.600 (1.030)	41	2895220			65.81- 125.81	89.00
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.629	5.629 (1.036)	97	6242296	200.000	194.33	80.00- 120.00	100.00
5.629	5.629 (1.036)	99	4030197			34.79- 94.79	64.56
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.750	5.750 (1.058)	119	6760000	200.000	192.41	80.00- 120.00	100.00
5.750	5.750 (1.058)	117	7049299			73.63- 133.63	104.28
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.793	5.793 (0.903)	110	1504357	200.000	199.92	80.00- 120.00	100.00
5.793	5.793 (0.903)	75	4286009			260.30- 320.30	284.91
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.972	5.972 (1.099)	57	16593964	200.000	192.91	80.00- 120.00	100.00
5.972	5.972 (1.099)	56	5462588			2.18- 62.18	32.92
5.965	5.972 (1.098)	41	4203659			0.00- 55.61	25.33
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.933)	78	7297597	200.000	189.91	80.00- 120.00	100.00
5.987	5.987 (0.933)	77	1761110			0.00- 53.99	24.13
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.073	6.073 (1.117)	87	1945732	200.000	206.87	80.00- 120.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.073	6.073 (1.117)	73	7609187			362.99- 422.99	391.07
6.073	6.073 (1.117)	55	2758159			122.42- 182.42	141.75
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.094	6.094 (0.950)	62	4959214	200.000	189.69	80.00- 120.00	100.00
6.094	6.094 (0.950)	64	1558196			1.65- 61.65	31.42
122 Heptane					CAS #: 142-82-5		
6.166	6.166 (0.961)	71	2624767	200.000	195.98	80.00- 120.00	100.00
6.166	6.166 (0.961)	43	6492237			240.22- 300.22	247.35
6.166	6.166 (0.961)	57	3509334			110.36- 170.36	133.70
129 Trichloroethene					CAS #: 79-01-6		
6.624	6.617 (1.032)	95	3790646	200.000	193.48	80.00- 120.00	100.00
6.624	6.617 (1.032)	130	3698731			67.98- 127.98	97.58
6.624	6.617 (1.032)	97	2472144			34.45- 94.45	65.22
128 n-Butanol					CAS #: 71-36-3		
6.624	6.617 (1.032)	56	3316736	200.000	194.94	80.00- 120.00	100.00
6.624	6.617 (1.032)	41	2160690			39.42- 99.42	65.15
6.624	6.617 (1.032)	43	1753955			25.37- 85.37	52.88
131 Methylcyclohexane					CAS #: 108-87-2		
6.725	6.724 (1.237)	83	4436928	200.000	197.98	80.00- 120.00	100.00
6.725	6.724 (1.237)	98	2016444			14.33- 74.33	45.45
6.717	6.724 (1.236)	55	5373901			96.87- 156.87	121.12
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.882	6.875 (1.073)	63	3768952	200.000	192.53	80.00- 120.00	100.00
6.882	6.875 (1.073)	62	2694304			41.06- 101.06	71.49
6.875	6.875 (1.071)	41	2104058			28.31- 88.31	55.83
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	3021257	200.000	198.90	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	5089348			153.10- 213.10	168.45
6.961	6.961 (0.761)	100	1145847			8.18- 68.18	37.93
140 1,4-Dioxane					CAS #: 123-91-1		
6.982	6.982 (1.088)	88	1970628	200.000	195.74	80.00- 120.00	100.00
6.982	6.982 (1.088)	58	1976526			74.98- 134.98	100.30
6.982	6.982 (1.088)	57	717891			8.55- 68.55	36.43
141 Dibromomethane					CAS #: 74-95-3		
7.004	7.004 (0.765)	174	3709968	200.000	187.26	80.00- 120.00	100.00
7.004	6.997 (0.765)	93	3536929			66.30- 126.30	95.34

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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141 Dibromomethane (continued)							
7.004	6.997 (0.765)	95	2940829			49.87- 109.87	79.27
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.113)	83	6673823	200.000	192.49	80.00- 120.00	100.00
7.140	7.140 (1.113)	85	4338967			34.86- 94.86	65.01
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.161)	63	7189173	200.000	192.01	80.00- 120.00	100.00
7.448	7.448 (1.161)	65	2142287			0.00- 58.67	29.80
7.448	7.448 (1.161)	144	666348			0.00- 39.14	9.27
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.563	7.563 (1.179)	75	5568197	200.000	203.45	80.00- 120.00	100.00(A)
7.563	7.563 (1.179)	77	1792037			1.88- 61.88	32.18
7.563	7.563 (1.179)	39	3344548			33.29- 93.29	60.07
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.692	7.691 (1.199)	58	3645829	200.000	190.12	80.00- 120.00	100.00
7.692	7.691 (1.199)	43	9015722			235.08- 295.08	247.29
7.692	7.691 (1.199)	85	1171313			0.69- 60.69	32.13
153 Toluene					CAS #: 108-88-3		
7.821	7.820 (1.219)	91	9391601	200.000	186.05	80.00- 120.00	100.00
7.821	7.820 (1.219)	92	5553020			27.69- 87.69	59.13
151 Octane					CAS #: 111-65-9		
7.849	7.849 (1.223)	57	3770085	200.000	180.38	80.00- 120.00	100.00
7.849	7.849 (1.223)	85	3067145			46.75- 106.75	81.35
7.849	7.842 (1.223)	43	8959275			221.22- 281.22	237.64
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.114	8.114 (0.887)	75	4858766	200.000	197.34	80.00- 120.00	100.00
8.114	8.114 (0.887)	77	1576764			1.61- 61.61	32.45
8.114	8.114 (0.887)	39	2647161			26.86- 86.86	54.48
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	3428153	200.000	188.56	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	2136205			32.96- 92.96	62.31
8.279	8.279 (0.905)	83	3051956			59.05- 119.05	89.03
159 Tetrachloroethene					CAS #: 127-18-4		
8.308	8.308 (0.908)	166	4936871	200.000	181.74	80.00- 120.00	100.00
8.308	8.308 (0.908)	129	3849643			46.43- 106.43	77.98
8.308	8.308 (0.908)	131	3796051			45.56- 105.56	76.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.316)	76	5074076	200.000	192.64	80.00- 120.00	100.00
8.444	8.444 (1.316)	41	4576190			59.80- 119.80	90.19
8.444	8.444 (1.316)	78	1674139			2.58- 62.58	32.99
162 2-Hexanone					CAS #: 591-78-6		
8.479	8.479 (0.926)	58	5137474	200.000	186.70	80.00- 120.00	100.00
8.479	8.479 (0.926)	43	9127583			159.07- 219.07	177.67
8.487	8.479 (0.927)	100	744660			0.00- 43.98	14.49
163 Dibromochloromethane					CAS #: 124-48-1		
8.630	8.630 (0.943)	129	7371531	200.000	193.84	80.00- 120.00	100.00
8.630	8.630 (0.943)	127	5770399			47.90- 107.90	78.28
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.745	8.744 (0.955)	107	6187411	200.000	190.80	80.00- 120.00	100.00
8.745	8.744 (0.955)	109	5869854			64.00- 124.00	94.87
166 Chlorobenzene					CAS #: 108-90-7		
9.181	9.181 (1.003)	112	8079443	200.000	184.92	80.00- 120.00	100.00
9.181	9.181 (1.003)	114	2676990			2.75- 62.75	33.13
9.174	9.181 (1.002)	77	4909411			30.27- 90.27	60.76
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.010)	106	4145844	200.000	191.36	80.00- 120.00	100.00
9.246	9.246 (1.010)	91	12398256			281.27- 341.27	299.05
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	4740354	200.000	185.27	80.00- 120.00	100.00(A)
9.267	9.267 (1.013)	117	3105040			34.91- 94.91	65.50
9.267	9.267 (1.013)	95	1907058			10.71- 70.71	40.23
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.016)	43	9247948	200.000	169.94	80.00- 120.00	100.00
9.303	9.303 (1.016)	57	8537040			57.91- 117.91	92.31
9.303	9.303 (1.016)	85	2429486			0.00- 52.91	26.27
173 m,p-Xylene					CAS #: 108-38-3		
9.361	9.361 (1.023)	106	5193590	200.000	192.56	80.00- 120.00	100.00
9.361	9.361 (1.023)	91	10351157			176.41- 236.41	199.31
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	4899564	200.000	194.16	80.00- 120.00	100.00
9.747	9.747 (1.065)	91	10359699			186.60- 246.60	211.44
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.068)	104	8146989	200.000	189.72	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.776	9.776 (1.068)	78	4644251			26.08- 86.08	57.01
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	7593671	200.000	191.97	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	3991109			22.58- 82.58	52.56
185 Cumene					CAS #: 98-82-8		
10.091	10.091 (1.103)	105	14623750	200.000	181.79	80.00- 120.00	100.00
10.091	10.091 (1.103)	120	3981745			0.00- 55.43	27.23
10.084	10.091 (1.102)	51	2092290			0.00- 44.39	14.31
189 Cyclohexanone					CAS #: 108-94-1		
10.263	10.263 (1.121)	55	6342997	200.000	169.51	80.00- 120.00	100.00
10.263	10.263 (1.121)	98	1883014			0.00- 57.69	29.69
10.263	10.256 (1.121)	42	3938836			32.21- 92.21	62.10
192 Bromobenzene					CAS #: 108-86-1		
10.435	10.435 (1.140)	156	5202111	200.000	188.13	80.00- 120.00	100.00
10.435	10.435 (1.140)	158	4974998			68.15- 128.15	95.63
10.435	10.428 (1.140)	77	7889169			125.89- 185.89	151.65
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.478	10.471 (1.145)	83	7746861	200.000	179.20	80.00- 120.00	100.00
10.478	10.471 (1.145)	85	5100139			35.63- 95.63	65.83
196 Propylbenzene					CAS #: 103-65-1		
10.492	10.492 (1.146)	120	4144457	200.000	190.89	80.00- 120.00	100.00(Q)
10.492	10.492 (1.146)	91	16261506			403.96- 463.96	392.37
10.492	10.492 (1.146)	105	699624			0.00- 46.94	16.88
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.149)	110	2501533	200.000	180.03	80.00- 120.00	100.00
10.521	10.521 (1.149)	75	6413773			232.06- 292.06	256.39
10.521	10.521 (1.149)	61	2275267			62.53- 122.53	90.95
199 Decane					CAS #: 124-18-5		
10.600	10.600 (1.158)	57	10093207	200.000	165.72	80.00- 120.00	100.00
10.600	10.600 (1.158)	71	3030339			0.00- 56.58	30.02
10.600	10.600 (1.158)	142	372708			0.00- 33.23	3.69
200 4-Ethyltoluene					CAS #: 622-96-8		
10.607	10.600 (1.159)	120	4328770	200.000	182.75	80.00- 120.00	100.00
10.607	10.600 (1.159)	105	14275438			317.00- 377.00	329.78
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.159)	126	3558034	200.000	182.14	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.607	10.607 (1.159)	91	12001605			317.25- 377.25	337.31
10.607	10.607 (1.159)	65	2193511			32.33- 92.33	61.65
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.671	10.671 (1.166)	120	5991704	200.000	186.63	80.00- 120.00	100.00
10.671	10.671 (1.166)	105	12810842			190.09- 250.09	213.81
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.901	10.901 (1.191)	118	6720946	200.000	195.44	80.00- 120.00	100.00
10.901	10.901 (1.191)	103	4203416			32.49- 92.49	62.54
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.199)	119	11449161	200.000	177.63	80.00- 120.00	100.00
10.972	10.972 (1.199)	134	2781143			0.00- 53.10	24.29
10.972	10.972 (1.199)	91	8280834			40.97- 100.97	72.33
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.206)	120	5745214	200.000	192.56	80.00- 120.00	100.00
11.037	11.037 (1.206)	105	12770608			204.98- 264.98	222.28
214 sec-Butylbenzene					CAS #: 135-98-8		
11.194	11.194 (1.223)	134	3698809	200.000	191.74	80.00- 120.00	100.00(Q)
11.194	11.194 (1.223)	105	17109475			484.40- 544.40	462.57
11.194	11.187 (1.223)	91	3072936			54.94- 114.94	83.08
216 p-Cymene					CAS #: 99-87-6		
11.338	11.337 (1.239)	119	14997298	200.000	177.69	80.00- 120.00	100.00
11.338	11.337 (1.239)	134	4147507			0.00- 55.89	27.66
11.338	11.330 (1.239)	91	4143744			0.00- 56.21	27.63
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.240)	146	8469267	200.000	180.98	80.00- 120.00	100.00
11.352	11.352 (1.240)	148	5478179			33.67- 93.67	64.68
11.352	11.352 (1.240)	111	3790007			13.82- 73.82	44.75
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.452	11.445 (1.251)	146	8799799	200.000	183.92	80.00- 120.00	100.00
11.452	11.445 (1.251)	148	5675094			34.50- 94.50	64.49
11.452	11.445 (1.251)	111	3783409			12.20- 72.20	42.99
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.595	11.595 (1.267)	91	12963659	200.000	190.16	80.00- 120.00	100.00
11.595	11.595 (1.267)	126	2790021			0.00- 50.42	21.52
220 Butylbenzene					CAS #: 104-51-8		
11.746	11.739 (1.283)	134	4059964	200.000	192.83	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
220 Butylbenzene (continued)							
11.739	11.739 (1.283)	91	14190767			345.70- 405.70	349.53
11.739	11.739 (1.283)	92	7894432			168.03- 228.03	194.45
221 Undecane					CAS #: 1120-21-4		
11.774	11.774 (1.286)	57	12172399	200.000	171.78	80.00- 120.00	100.00
11.774	11.774 (1.286)	43	10003034			57.09- 117.09	82.18
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.825	11.817 (1.292)	146	8250695	200.000	180.29	80.00- 120.00	100.00
11.825	11.817 (1.292)	148	5317239			33.89- 93.89	64.45
11.817	11.817 (1.291)	111	3826195			15.34- 75.34	46.37
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.620	12.620 (1.379)	157	5879541	200.000	186.72	80.00- 120.00	100.00
12.620	12.620 (1.379)	75	5579336			65.80- 125.80	94.89
12.620	12.620 (1.379)	155	4599066			47.61- 107.61	78.22
227 Dodecane					CAS #: 112-40-3		
12.856	12.856 (1.405)	57	14069570	200.000	182.03	80.00- 120.00	100.00
12.856	12.856 (1.405)	43	10905116			50.33- 110.33	77.51
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.408	13.400 (1.465)	180	8694472	224.200	207.53	80.00- 120.00	100.00(A)
13.408	13.400 (1.465)	182	8325869			65.96- 125.96	95.76
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.515	13.515 (1.477)	225	7411759	225.400	205.58	80.00- 120.00	100.00(A)
13.515	13.515 (1.477)	223	4873334			33.50- 93.50	65.75
232 Naphthalene					CAS #: 91-20-3		
13.651	13.651 (1.491)	128	2350603	23.6000	23.557	80.00- 120.00	100.00
13.651	13.651 (1.491)	127	305908			0.00- 42.81	13.01
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.902	13.902 (1.519)	180	8534536	225.400	211.16	80.00- 120.00	100.00(A)
13.902	13.902 (1.519)	182	8180802			64.83- 124.83	95.86
13.902	13.902 (1.519)	145	3019168			3.99- 63.99	35.38

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

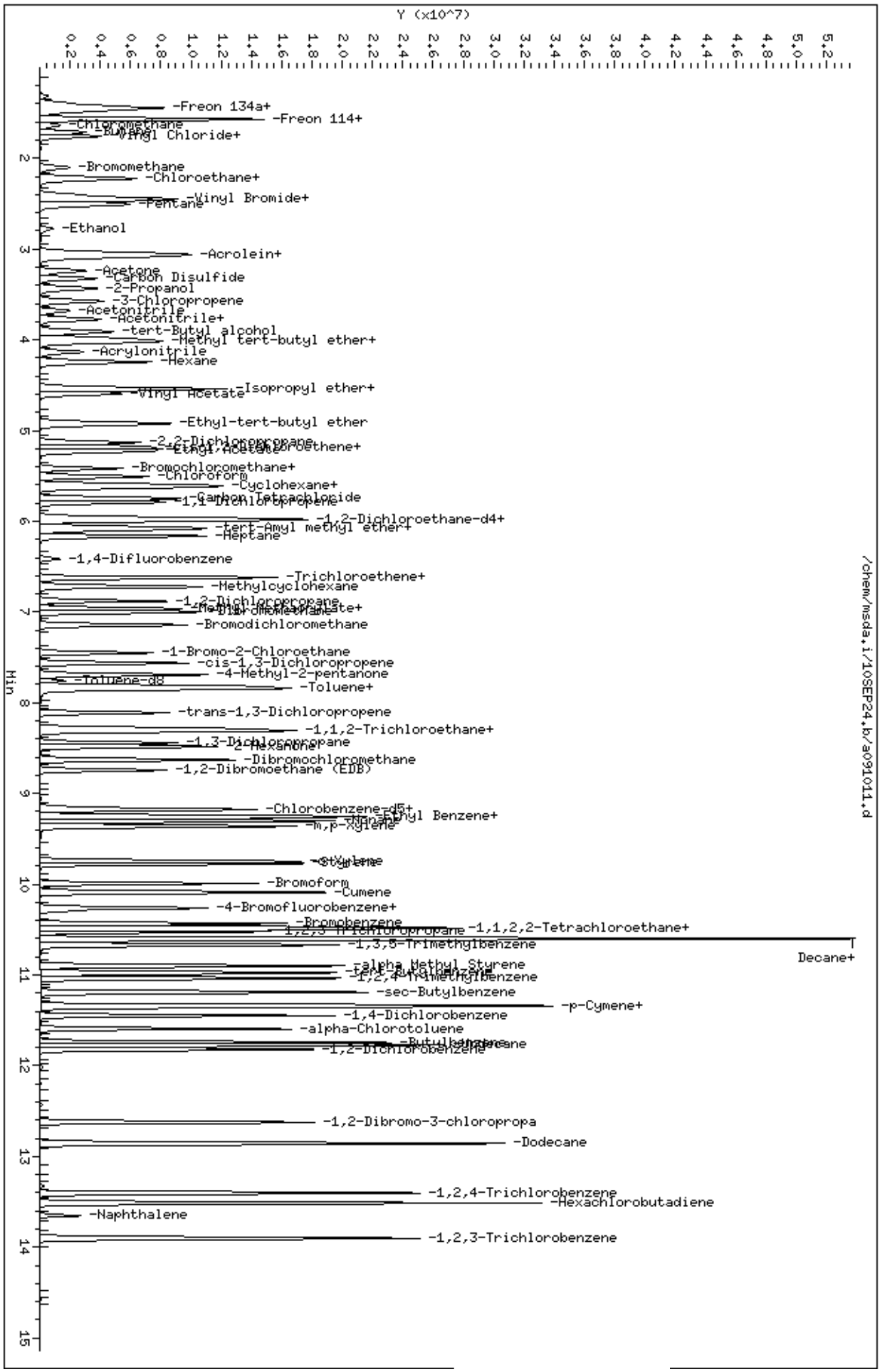
Instrument ID: msda.i
Lab File ID: a091011.d
Lab Smp Id: ICAL Level 9
Analysis Type: VOA
Quant Type: ISTD
Operator: TO
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 200ppbv(200ppbv)

Calibration Date: 10-SEP-2024
Calibration Time: 15:01
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	272599	163559	381639	289433	6.18
126 1,4-Difluorobenze	989537	593722	1385352	1109115	12.08
165 Chlorobenzene-d5	922551	553531	1291571	1041656	12.91

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.44	0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Data File: /chem/msda.i/10SEP24.b/a091011.d
Date : 10-SEP-2024 16:14
Client ID:
Sample Info: 200mL 3018-4808
Column phase: RTX-624
Instrument: msda.i
Operator: TO
Column diameter: 0.25
Page 1
Y (x10^7)
Min
/chem/msda.i/10SEP24.b/a091011.d
-Freon 134a+
-Freon 114+
-Chloromethane
-Vinyl Chloride+
-Bromomethane
-Chloroethane+
-Vinyl Bromide+
-Pentane
-Ethanol
-Acrolein+
-Acetone
-Carbon Disulfide
-2-Propanol
-3-Chloropropene
-Acetonitrile
-Acetonitrile+
-tert-Butyl alcohol
-Methyl tert-butyl ether+
-Acrylonitrile
-Hexane
-Isopropyl ether+
-Vinyl Acetate
-Ethyl-tert-butyl ether
-Bromochloromethane+
-Chloroform
-Cyclohexane+
-1,1-Dichloropropene
-1,2-Dichloroethane-d4+
-tert-Amyl methyl ether+
-Heptane
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane
-Bromodichloromethane
-1-Bromo-2-Chloroethane
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene+
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane+
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane (EDB)
-Chlorobenzene-d5+
-Ethyl Benzene+
-m,p-Xylene
-Styrene
-Bromoform
-Cumene
-4-Bromofluorobenzene+
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-1,3,5-Trimethylbenzene
Decane+
-alpha Methyl Styrene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Cymene+
-1,4-Dichlorobenzene
-alpha-Chlorotoluene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-Dodecane
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/10SEP24.b/a091014.d
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 10-SEP-2024 18:55
Operator : AB Inst ID: msda.i
Smp Info : 50mL 3018-4807
Misc Info : 50ppbv(200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Meth Date : 10-Sep-2024 21:25 h6wn Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	309435	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	245104			46.45- 106.45	79.21
5.428	5.428 (1.000)	49	591386			167.12- 227.12	191.12
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	1175491	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	195062			0.00- 46.36	16.59
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.153 (1.000)	117	1083461	25.0000		80.00- 120.00	100.00
9.153	9.153 (1.000)	82	611261			27.12- 87.12	56.42
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	519462	24.1306	24.130	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	283757			23.36- 83.36	54.63
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.210)	98	1220612	24.9048	24.905	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	136956			0.00- 41.92	11.22

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.210)	100	837776			39.07- 99.07	68.64
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.299	10.299 (1.125)	174	701346	24.2743	24.274	80.00- 120.00	100.00
10.292	10.292 (1.124)	95	844976			89.27- 149.27	120.48
10.299	10.299 (1.125)	176	672065			66.29- 126.29	95.83
6 Freon 134a					CAS #: 811-97-2		
1.381	1.388 (0.254)	83	681836	50.4562	50.456	80.00- 120.00	100.00
1.381	1.388 (0.254)	69	510704			41.53- 101.53	74.90
1.381	1.388 (0.254)	63	69503			0.00- 42.30	10.19
8 Propylene					CAS #: 115-07-1		
1.424	1.424 (0.262)	41	641980	47.1537	47.154	80.00- 120.00	100.00
1.424	1.424 (0.262)	42	437711			38.18- 98.18	68.18
1.424	1.424 (0.262)	39	445221			40.18- 100.18	69.35
9 1,1-Difluoroethane					CAS #: 75-37-6		
1.431	1.431 (0.264)	65	393672	50.2043	50.204	80.00- 120.00	100.00
1.474	1.474 (0.272)	51	1437186			362.20- 422.20	365.07
1.438	1.438 (0.265)	47	261917			41.18- 101.18	66.53
10 Freon 12					CAS #: 75-71-8		
1.445	1.452 (0.266)	85	1798944	48.8144	48.814	80.00- 120.00	100.00
1.445	1.452 (0.266)	87	577038			1.90- 61.90	32.08
12 Chlorodifluoromethane					CAS #: 75-45-6		
1.474	1.481 (0.272)	67	183377	48.5696	48.570	80.00- 120.00	100.00
1.474	1.474 (0.272)	51	1437186			756.67- 816.67	783.73
15 Freon 114					CAS #: 76-14-2		
1.560	1.560 (0.287)	135	1236733	50.2337	50.234	80.00- 120.00	100.00
1.560	1.560 (0.287)	137	398234			1.76- 61.76	32.20
16 Isobutane					CAS #: 75-28-5		
1.567	1.574 (0.289)	43	1480194	48.8427	48.843	80.00- 120.00	100.00
1.574	1.574 (0.290)	42	482917			2.85- 62.85	32.63
1.567	1.574 (0.289)	58	55337			0.00- 33.52	3.74
17 Chloromethane					CAS #: 74-87-3		
1.632	1.632 (0.301)	50	632342	48.8689	48.869	80.00- 120.00	100.00
1.632	1.639 (0.301)	52	201216			2.14- 62.14	31.82
22 Butane					CAS #: 106-97-8		
1.703	1.703 (0.314)	58	122297	43.9708	43.971	80.00- 120.00	100.00(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
22 Butane (continued)							
1.703	1.703 (0.314)	43	854627			706.79- 766.79	698.81
24 Vinyl Chloride					CAS #: 75-01-4		
1.739	1.746 (0.320)	62	588619	44.2274	44.227	80.00- 120.00	100.00
1.739	1.746 (0.320)	64	184771			0.00- 59.56	31.39
25 1,3-Butadiene					CAS #: 106-99-0		
1.760	1.768 (0.324)	54	513050	41.0334	41.033	80.00- 120.00	100.00
1.760	1.768 (0.324)	39	461569			64.19- 124.19	89.97
29 Bromomethane					CAS #: 74-83-9		
2.097	2.104 (0.386)	94	571046	55.8182	55.818	80.00- 120.00	100.00
2.097	2.104 (0.386)	96	523643			63.72- 123.72	91.70
30 Chloroethane					CAS #: 75-00-3		
2.205	2.205 (0.406)	64	391037	54.5345	54.534	80.00- 120.00	100.00
2.197	2.205 (0.405)	66	118994			0.20- 60.20	30.43
2.205	2.205 (0.406)	49	134358			7.38- 67.38	34.36
31 Isopentane					CAS #: 78-78-4		
2.226	2.233 (0.410)	43	1019429	51.5775	51.578	80.00- 120.00	100.00
2.226	2.233 (0.410)	57	713462			38.61- 98.61	69.99
32 Vinyl Bromide					CAS #: 593-60-2		
2.398	2.398 (0.442)	106	666095	53.5300	53.530	80.00- 120.00	100.00
2.398	2.398 (0.442)	108	621547			62.27- 122.27	93.31
33 Freon 11					CAS #: 75-69-4		
2.441	2.448 (0.450)	101	2056989	49.1464	49.146	80.00- 120.00	100.00
2.441	2.448 (0.450)	103	1335626			35.49- 95.49	64.93
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.448	2.455 (0.451)	67	1581329	52.1026	52.102	80.00- 120.00	100.00
2.448	2.455 (0.451)	69	485302			0.95- 60.95	30.69
37 Pentane					CAS #: 109-66-0		
2.513	2.513 (0.463)	43	1557691	50.9953	50.995	80.00- 120.00	100.00
2.513	2.513 (0.463)	57	246938			0.00- 45.38	15.85
2.513	2.520 (0.463)	72	113162			0.00- 37.02	7.26
42 Ethanol					CAS #: 64-17-5		
2.763	2.763 (0.509)	46	153302	55.7067	55.707	80.00- 120.00	100.00
2.763	2.763 (0.509)	45	396440			225.08- 285.08	258.60
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.562)	55	338390	58.8539	58.854	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
46 Acrolein (continued)							
3.050	3.050 (0.562)	56	462833			109.39- 169.39	136.77
47 Freon 113					CAS #: 76-13-1		
3.057	3.057 (0.563)	151	1217584	49.1348	49.135	80.00- 120.00	100.00
3.057	3.057 (0.563)	153	781382			33.72- 93.72	64.17
3.050	3.057 (0.562)	101	1521652			94.86- 154.86	124.97
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.086	3.086 (0.568)	98	402653	48.3691	48.369	80.00- 120.00	100.00
3.086	3.086 (0.568)	96	643232			127.35- 187.35	159.75
3.086	3.086 (0.568)	61	1406158			327.38- 387.38	349.22
52 Acetone					CAS #: 67-64-1		
3.236	3.236 (0.596)	58	466582	49.2324	49.232	80.00- 120.00	100.00
3.236	3.236 (0.596)	43	1442287			290.16- 350.16	309.12
54 Carbon Disulfide					CAS #: 75-15-0		
3.322	3.322 (0.612)	76	1914291	50.6564	50.656	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.429	3.422 (0.632)	45	1787630	53.4811	53.481	80.00- 120.00	100.00
3.429	3.422 (0.632)	43	317680			0.00- 48.07	17.77
3.429	3.422 (0.632)	59	66346			0.00- 33.65	3.71
58 3-Chloropropene					CAS #: 107-05-1		
3.573	3.573 (0.658)	76	314488	51.4914	51.491	80.00- 120.00	100.00
3.573	3.573 (0.658)	41	1189643			369.70- 429.70	378.28
60 Acetonitrile					CAS #: 75-05-8		
3.673	3.673 (0.677)	40	409317	49.3540	49.354	80.00- 120.00	100.00
3.673	3.673 (0.677)	41	780275			161.56- 221.56	190.63
3.766	3.773 (0.694)	38	5684			0.00- 31.07	1.39
64 Methylene Chloride					CAS #: 75-09-2		
3.766	3.766 (0.694)	49	1160905	48.4472	48.447	80.00- 120.00	100.00
3.766	3.766 (0.694)	84	599880			18.48- 78.48	51.67
3.766	3.766 (0.694)	51	368783			0.91- 60.91	31.77
70 tert-Butyl alcohol					CAS #: 75-65-0		
3.909	3.902 (0.720)	59	1996035	52.2790	52.279	80.00- 120.00	100.00
3.902	3.902 (0.719)	41	409034			0.00- 51.01	20.49
3.909	3.902 (0.720)	57	208564			0.00- 41.01	10.45
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.995	3.995 (0.736)	73	1965585	49.3320	49.332	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.995	3.995 (0.736)	57	611506			0.93- 60.93	31.11
3.995	3.995 (0.736)	41	565696			0.00- 59.87	28.78
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	449946	50.7596	50.760	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	1355233			282.80- 342.80	301.20
4.024	4.024 (0.741)	96	694284			122.91- 182.91	154.30
74 Acrylonitrile					CAS #: 107-13-1		
4.131	4.131 (0.761)	52	686289	49.6576	49.658	80.00- 120.00	100.00
4.131	4.131 (0.761)	53	824453			88.44- 148.44	120.13
78 Hexane					CAS #: 110-54-3		
4.246	4.246 (0.782)	57	1449873	48.7027	48.703	80.00- 120.00	100.00
4.239	4.246 (0.781)	43	902944			34.01- 94.01	62.28
4.246	4.246 (0.782)	86	157849			0.00- 40.22	10.89
83 1,1-Dichloroethane					CAS #: 75-34-3		
4.547	4.547 (0.838)	63	1536112	49.5165	49.516	80.00- 120.00	100.00
4.547	4.547 (0.838)	65	461009			0.00- 59.58	30.01
82 Isopropyl ether					CAS #: 108-20-3		
4.533	4.540 (0.835)	45	3203790	48.0198	48.020	80.00- 120.00	100.00
4.540	4.540 (0.836)	87	589367			0.00- 47.08	18.40
4.540	4.540 (0.836)	59	349522			0.00- 40.83	10.91
84 Vinyl Acetate					CAS #: 108-05-4		
4.597	4.597 (0.847)	86	184738	62.9145	62.914	80.00- 120.00	100.00(Q)
4.590	4.597 (0.846)	43	2920360			1663.30-1723.30	1580.81
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.927	4.927 (0.908)	59	2899117	48.9596	48.960	80.00- 120.00	100.00
4.927	4.927 (0.908)	87	884232			0.00- 58.78	30.50
4.919	4.927 (0.906)	41	511642			0.00- 48.47	17.65
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.134	5.134 (0.946)	77	1398123	47.5426	47.543	80.00- 120.00	100.00
5.134	5.134 (0.946)	79	453894			2.20- 62.20	32.46
5.134	5.134 (0.946)	97	291508			0.00- 50.29	20.85
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	478777	51.5261	51.526	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	739911			123.49- 183.49	154.54
5.177	5.177 (0.954)	61	1610062			310.35- 370.35	336.29

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
5.206	5.206 (0.959)	72	349717	50.6931	50.693	80.00- 120.00	100.00(Q)
5.220	5.220 (0.962)	43	4300662			1272.59-1332.59	1229.75
5.206	5.206 (0.959)	57	167869			18.61- 78.61	48.00
93 Ethyl Acetate					CAS #: 141-78-6		
5.227	5.227 (0.963)	70	183644	54.1312	54.131	80.00- 120.00	100.00(Q)
5.177	5.177 (0.954)	61	1610062			877.60- 937.60	876.73
5.227	5.227 (0.963)	45	349986			179.24- 239.24	190.58
99 Tetrahydrofuran					CAS #: 109-99-9		
5.414	5.414 (0.997)	42	1085484	47.2779	47.278	80.00- 120.00	100.00
5.414	5.414 (0.997)	71	311153			0.00- 56.60	28.66
5.414	5.421 (0.997)	72	322400			0.00- 56.86	29.70
103 Chloroform					CAS #: 67-66-3		
5.507	5.507 (1.015)	83	1600238	47.7218	47.722	80.00- 120.00	100.00
5.507	5.507 (1.015)	85	1035708			34.90- 94.90	64.72
104 Cyclohexane					CAS #: 110-82-7		
5.600	5.600 (1.032)	84	881778	50.4883	50.488	80.00- 120.00	100.00
5.600	5.600 (1.032)	56	1566015			152.85- 212.85	177.60
5.600	5.600 (1.032)	41	790949			65.81- 125.81	89.70
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.629	5.629 (1.037)	97	1679728	48.9112	48.911	80.00- 120.00	100.00
5.629	5.629 (1.037)	99	1069448			34.79- 94.79	63.67
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.750	5.750 (1.059)	119	1778504	47.3499	47.350	80.00- 120.00	100.00
5.750	5.750 (1.059)	117	1871987			73.63- 133.63	105.26
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.786	5.793 (0.903)	110	406395	50.9567	50.957	80.00- 120.00	100.00
5.786	5.793 (0.903)	75	1141195			260.30- 320.30	280.81
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.972	5.972 (1.100)	57	4620136	50.2383	50.238	80.00- 120.00	100.00
5.972	5.972 (1.100)	56	1489417			2.18- 62.18	32.24
5.972	5.972 (1.100)	41	1125161			0.00- 55.61	24.35
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	2070094	50.8295	50.829	80.00- 120.00	100.00
5.987	5.987 (0.934)	77	490088			0.00- 53.99	23.67
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.073	6.073 (1.119)	87	514276	51.1446	51.144	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.073	6.073 (1.119)	73	2019508			362.99- 422.99	392.69
6.073	6.073 (1.119)	55	742097			122.42- 182.42	144.30
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.087	6.094 (0.950)	62	1332357	48.0843	48.084	80.00- 120.00	100.00
6.094	6.094 (0.951)	64	410229			1.65- 61.65	30.79
122 Heptane					CAS #: 142-82-5		
6.166	6.166 (0.962)	71	732170	51.5799	51.580	80.00- 120.00	100.00
6.159	6.166 (0.961)	43	1811381			240.22- 300.22	247.40
6.166	6.166 (0.962)	57	970944			110.36- 170.36	132.61
128 n-Butanol					CAS #: 71-36-3		
6.617	6.617 (1.032)	56	912916	50.6271	50.627	80.00- 120.00	100.00
6.617	6.617 (1.032)	41	607645			39.42- 99.42	66.56
6.617	6.617 (1.032)	43	489582			25.37- 85.37	53.63
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	1025102	49.3693	49.369	80.00- 120.00	100.00
6.617	6.624 (1.032)	130	1008404			67.98- 127.98	98.37
6.617	6.617 (1.032)	97	657053			34.45- 94.45	64.10
131 Methylcyclohexane					CAS #: 108-87-2		
6.717	6.724 (1.238)	83	1176258	49.0931	49.093	80.00- 120.00	100.00
6.724	6.724 (1.239)	98	533830			14.33- 74.33	45.38
6.717	6.724 (1.238)	55	1435919			96.87- 156.87	122.08
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.073)	63	1030356	49.6617	49.662	80.00- 120.00	100.00
6.875	6.875 (1.073)	62	736596			41.06- 101.06	71.49
6.875	6.875 (1.073)	41	563309			28.31- 88.31	54.67
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	810861	51.3229	51.323	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	1397901			153.10- 213.10	172.40
6.961	6.961 (0.761)	100	313581			8.18- 68.18	38.67
140 1,4-Dioxane					CAS #: 123-91-1		
6.982	6.982 (1.089)	88	513765	48.1511	48.151	80.00- 120.00	100.00
6.982	6.982 (1.089)	58	530266			74.98- 134.98	103.21
6.982	6.982 (1.089)	57	190213			8.55- 68.55	37.02
141 Dibromomethane					CAS #: 74-95-3		
6.997	7.004 (0.764)	174	1001175	48.5850	48.585	80.00- 120.00	100.00
6.997	6.997 (0.764)	93	962955			66.30- 126.30	96.18

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
141 Dibromomethane (continued)							
6.997	6.997 (0.764)	95	792186			49.87- 109.87	79.13
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.114)	83	1792340	48.7761	48.776	80.00- 120.00	100.00
7.140	7.140 (1.114)	85	1141632			34.86- 94.86	63.70
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.563	7.563 (1.180)	75	1509744	52.0486	52.049	80.00- 120.00	100.00
7.563	7.563 (1.180)	77	475695			1.88- 61.88	31.51
7.563	7.563 (1.180)	39	898775			33.29- 93.29	59.53
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.691	7.691 (1.200)	58	1010173	49.7047	49.705	80.00- 120.00	100.00
7.691	7.691 (1.200)	43	2573872			235.08- 295.08	254.80
7.691	7.691 (1.200)	85	316876			0.69- 60.69	31.37
153 Toluene					CAS #: 108-88-3		
7.820	7.820 (1.220)	91	2638922	49.3268	49.327	80.00- 120.00	100.00
7.820	7.820 (1.220)	92	1539326			27.69- 87.69	58.33
151 Octane					CAS #: 111-65-9		
7.842	7.849 (1.224)	57	1079346	48.7254	48.725	80.00- 120.00	100.00
7.842	7.849 (1.224)	85	862747			46.75- 106.75	79.93
7.842	7.842 (1.224)	43	2621471			221.22- 281.22	242.88
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.114	8.114 (0.887)	75	1317947	51.4644	51.464	80.00- 120.00	100.00
8.114	8.114 (0.887)	77	424915			1.61- 61.61	32.24
8.114	8.114 (0.887)	39	715959			26.86- 86.86	54.32
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	947820	50.1225	50.122	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	587162			32.96- 92.96	61.95
8.279	8.279 (0.905)	83	848830			59.05- 119.05	89.56
159 Tetrachloroethene					CAS #: 127-18-4		
8.308	8.308 (0.908)	166	1383119	48.9528	48.953	80.00- 120.00	100.00
8.308	8.308 (0.908)	129	1061758			46.43- 106.43	76.77
8.308	8.308 (0.908)	131	1039171			45.56- 105.56	75.13
162 2-Hexanone					CAS #: 591-78-6		
8.479	8.479 (0.926)	58	1412861	49.3639	49.364	80.00- 120.00	100.00
8.479	8.479 (0.926)	43	2588030			159.07- 219.07	183.18
8.479	8.479 (0.926)	100	206100			0.00- 43.98	14.59

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.317)	76	1394760	49.9639	49.964	80.00- 120.00	100.00
8.444	8.444 (1.317)	41	1187255			59.80- 119.80	85.12
8.444	8.444 (1.317)	78	460888			2.58- 62.58	33.04
163 Dibromochloromethane					CAS #: 124-48-1		
8.630	8.630 (0.943)	129	1979510	50.0432	50.043	80.00- 120.00	100.00
8.630	8.630 (0.943)	127	1539979			47.90- 107.90	77.80
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.744	8.744 (0.955)	107	1691311	50.1434	50.143	80.00- 120.00	100.00
8.744	8.744 (0.955)	109	1595773			64.00- 124.00	94.35
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.162)	63	1963651	49.4837	49.484	80.00- 120.00	100.00
7.448	7.448 (1.162)	65	565577			0.00- 58.67	28.80
7.448	7.448 (1.162)	144	174825			0.00- 39.14	8.90
166 Chlorobenzene					CAS #: 108-90-7		
9.174	9.181 (1.002)	112	2265081	49.8437	49.844	80.00- 120.00	100.00
9.174	9.181 (1.002)	114	735707			2.75- 62.75	32.48
9.174	9.174 (1.002)	77	1359043			30.27- 90.27	60.00
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.010)	106	1177291	52.2447	52.245	80.00- 120.00	100.00
9.246	9.246 (1.010)	91	3642446			281.27- 341.27	309.39
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.016)	43	2741846	48.4417	48.442	80.00- 120.00	100.00
9.303	9.303 (1.016)	57	2483635			57.91- 117.91	90.58
9.303	9.303 (1.016)	85	675429			0.00- 52.91	24.63
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	1310134	49.2281	49.228	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	861591			34.91- 94.91	65.76
9.267	9.267 (1.013)	95	517035			10.71- 70.71	39.46
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.361 (1.023)	106	1441936	51.3979	51.398	80.00- 120.00	100.00
9.360	9.361 (1.023)	91	2958564			176.41- 236.41	205.18
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	1364286	51.9776	51.978	80.00- 120.00	100.00
9.747	9.747 (1.065)	91	2941781			186.60- 246.60	215.63
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.068)	104	2334389	52.2630	52.263	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.776	9.776 (1.068)	78	1268938			26.08- 86.08	54.36
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	2036512	49.4978	49.498	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	1040764			22.58- 82.58	51.11
185 Cumene					CAS #: 98-82-8		
10.084	10.091 (1.102)	105	4208629	50.3001	50.300	80.00- 120.00	100.00
10.091	10.091 (1.103)	120	1080252			0.00- 55.43	25.67
10.084	10.084 (1.102)	51	570328			0.00- 44.39	13.55
189 Cyclohexanone					CAS #: 108-94-1		
10.263	10.263 (1.121)	55	1764493	45.3338	45.334	80.00- 120.00	100.00
10.263	10.263 (1.121)	98	507568			0.00- 57.69	28.77
10.263	10.256 (1.121)	42	1067838			32.21- 92.21	60.52
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.144)	83	2238947	49.7939	49.794	80.00- 120.00	100.00
10.471	10.471 (1.144)	85	1459094			35.63- 95.63	65.17
192 Bromobenzene					CAS #: 108-86-1		
10.435	10.435 (1.140)	156	1406437	48.9002	48.900	80.00- 120.00	100.00
10.435	10.435 (1.140)	158	1343044			68.15- 128.15	95.49
10.428	10.428 (1.139)	77	2149423			125.89- 185.89	152.83
196 Propylbenzene					CAS #: 103-65-1		
10.492	10.492 (1.146)	120	1151371	50.9841	50.984	80.00- 120.00	100.00
10.492	10.485 (1.146)	91	4865217			403.96- 463.96	422.56
10.492	10.492 (1.146)	105	192275			0.00- 46.94	16.70
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.149)	110	669165	46.2998	46.300	80.00- 120.00	100.00
10.521	10.521 (1.149)	75	1737622			232.06- 292.06	259.67
10.521	10.521 (1.149)	61	606779			62.53- 122.53	90.68
199 Decane					CAS #: 124-18-5		
10.600	10.600 (1.158)	57	3224087	50.8928	50.893	80.00- 120.00	100.00
10.600	10.600 (1.158)	71	871985			0.00- 56.58	27.05
10.600	10.600 (1.158)	142	108539			0.00- 33.23	3.37
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.158)	120	1215539	49.3375	49.337	80.00- 120.00	100.00
10.600	10.600 (1.158)	105	4245510			317.00- 377.00	349.27
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.159)	126	1001939	49.3119	49.312	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.607	10.607 (1.159)	91	3461336			317.25- 377.25	345.46
10.607	10.607 (1.159)	65	601555			32.33- 92.33	60.04
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.671	10.671 (1.166)	120	1676965	50.2184	50.218	80.00- 120.00	100.00
10.671	10.671 (1.166)	105	3726224			190.09- 250.09	222.20
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.901	10.901 (1.191)	118	1862813	52.0790	52.079	80.00- 120.00	100.00
10.901	10.901 (1.191)	103	1151607			32.49- 92.49	61.82
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.199)	119	3305729	49.3086	49.309	80.00- 120.00	100.00
10.972	10.972 (1.199)	134	780936			0.00- 53.10	23.62
10.972	10.972 (1.199)	91	2329513			40.97- 100.97	70.47
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.206)	120	1606897	51.7801	51.780	80.00- 120.00	100.00
11.037	11.037 (1.206)	105	3732017			204.98- 264.98	232.25
214 sec-Butylbenzene					CAS #: 135-98-8		
11.194	11.194 (1.223)	134	1000659	49.8698	49.870	80.00- 120.00	100.00
11.194	11.194 (1.223)	105	5063481			484.40- 544.40	506.01
11.187	11.187 (1.222)	91	824497			54.94- 114.94	82.40
216 p-Cymene					CAS #: 99-87-6		
11.337	11.337 (1.239)	119	4332631	49.3529	49.353	80.00- 120.00	100.00
11.337	11.337 (1.239)	134	1139702			0.00- 55.89	26.31
11.330	11.330 (1.238)	91	1113519			0.00- 56.21	25.70
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.240)	146	2389073	49.0819	49.082	80.00- 120.00	100.00
11.352	11.352 (1.240)	148	1518369			33.67- 93.67	63.55
11.352	11.352 (1.240)	111	1042918			13.82- 73.82	43.65
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.452	11.445 (1.251)	146	2471951	49.6707	49.671	80.00- 120.00	100.00
11.452	11.445 (1.251)	148	1563977			34.50- 94.50	63.27
11.445	11.445 (1.250)	111	1024116			12.20- 72.20	41.43
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.595	11.595 (1.267)	91	3572727	50.3866	50.387	80.00- 120.00	100.00
11.595	11.595 (1.267)	126	742768			0.00- 50.42	20.79
221 Undecane					CAS #: 1120-21-4		
11.774	11.774 (1.286)	57	3699582	50.1953	50.195	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
221 Undecane (continued)							
11.774	11.774 (1.286)	43	3116428			57.09- 117.09	84.24
220 Butylbenzene					CAS #: 104-51-8		
11.739	11.739 (1.283)	134	1106507	50.5260	50.526	80.00- 120.00	100.00
11.739	11.739 (1.283)	91	4182904			345.70- 405.70	378.03
11.739	11.739 (1.283)	92	2204622			168.03- 228.03	199.24
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.817	11.817 (1.291)	146	2301793	48.3563	48.356	80.00- 120.00	100.00
11.817	11.817 (1.291)	148	1455564			33.89- 93.89	63.24
11.817	11.817 (1.291)	111	1021674			15.34- 75.34	44.39
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.620	12.620 (1.379)	157	1547694	47.2560	47.256	80.00- 120.00	100.00
12.620	12.620 (1.379)	75	1449827			65.80- 125.80	93.68
12.620	12.620 (1.379)	155	1218603			47.61- 107.61	78.74
227 Dodecane					CAS #: 112-40-3		
12.856	12.856 (1.405)	57	4101235	51.0143	51.014	80.00- 120.00	100.00
12.856	12.856 (1.405)	43	3219022			50.33- 110.33	78.49
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.408	13.400 (1.465)	180	2415069	55.4208	55.421	80.00- 120.00	100.00
13.408	13.400 (1.465)	182	2291112			65.96- 125.96	94.87
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.515	13.515 (1.477)	225	2083999	55.5737	55.574	80.00- 120.00	100.00
13.515	13.515 (1.477)	223	1304395			33.50- 93.50	62.59
232 Naphthalene					CAS #: 91-20-3		
13.651	13.651 (1.491)	128	580585	5.59391	5.594	80.00- 120.00	100.00
13.651	13.651 (1.491)	127	71826			0.00- 42.81	12.37
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.902	13.902 (1.519)	180	2281215	54.2640	54.264	80.00- 120.00	100.00
13.902	13.902 (1.519)	182	2184029			64.83- 124.83	95.74
13.902	13.902 (1.519)	145	772696			3.99- 63.99	33.87

QC Flag Legend

Q - Qualifier signal failed the ratio test.

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a091014.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: AB
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 50ppbv(200ppbv)

Calibration Date: 10-SEP-2024
Calibration Time: 15:01
Client Smp ID: ICV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	272599	163559	381639	309435	13.51
126 1,4-Difluorobenze	989537	593722	1385352	1175491	18.79
165 Chlorobenzene-d5	922551	553531	1291571	1083461	17.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

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RECOVERY REPORT

Client Name: Client SDG: 10SEP24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: ICV Client Smp ID: ICV
Level: LOW Operator: AB
Data Type: MS DATA SampleType: LCS
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: AT24.sub
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 50ppbv(200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Freon 134a	50.000	50.456	100.91	70-130
8 Propylene	50.000	47.154	94.31	70-130
9 1,1-Difluoroethan	50.000	50.204	100.41	70-130
10 Freon 12	50.000	48.814	97.63	70-130
12 Chlorodifluoromet	50.000	48.570	97.14	70-130
15 Freon 114	50.000	50.234	100.47	70-130
16 Isobutane	50.000	48.843	97.69	70-130
17 Chloromethane	50.000	48.869	97.74	70-130
22 Butane	50.000	43.971	87.94	70-130
24 Vinyl Chloride	50.000	44.227	88.45	70-130
25 1,3-Butadiene	50.000	41.033	82.07	70-130
29 Bromomethane	50.000	55.818	111.64	70-130
30 Chloroethane	50.000	54.534	109.07	70-130
31 Isopentane	50.000	51.578	103.16	70-130
32 Vinyl Bromide	50.000	53.530	107.06	70-130
33 Freon 11	50.000	49.146	98.29	70-130
35 Dichlorofluoromet	50.000	52.102	104.21	70-130
37 Pentane	50.000	50.995	101.99	70-130
42 Ethanol	58.000	55.707	96.05	70-130
46 Acrolein	58.000	58.854	101.47	70-130
47 Freon 113	50.000	49.135	98.27	70-130
49 1,1-Dichloroethen	50.000	48.369	96.74	70-130
52 Acetone	50.000	49.232	98.46	70-130
54 Carbon Disulfide	50.000	50.656	101.31	70-130
57 2-Propanol	50.000	53.481	106.96	70-130
58 3-Chloropropene	50.000	51.491	102.98	70-130
60 Acetonitrile	50.000	49.354	98.71	70-130
64 Methylene Chlorid	50.000	48.447	96.89	70-130
70 tert-Butyl alcoho	50.000	52.279	104.56	70-130
72 Methyl tert-butyl	50.000	49.332	98.66	70-130
73 trans-1,2-Dichlor	50.000	50.760	101.52	70-130
74 Acrylonitrile	50.000	49.658	99.32	70-130
78 Hexane	50.000	48.703	97.41	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
83	1,1-Dichloroethan	50.000	49.516	99.03	70-130
82	Isopropyl ether	50.000	48.020	96.04	70-130
84	Vinyl Acetate	50.000	62.914	125.83	70-130
88	Ethyl-tert-butyl	50.000	48.960	97.92	70-130
90	2,2-Dichloropropa	50.000	47.543	95.09	70-130
91	cis-1,2-Dichloroe	50.000	51.526	103.05	70-130
92	2-Butanone	50.000	50.693	101.39	70-130
93	Ethyl Acetate	50.000	54.131	108.26	70-130
99	Tetrahydrofuran	50.000	47.278	94.56	70-130
103	Chloroform	50.000	47.722	95.44	70-130
104	Cyclohexane	50.000	50.488	100.98	70-130
106	1,1,1-Trichloroet	50.000	48.911	97.82	70-130
113	1,1-Dichloroprope	50.000	50.957	101.91	70-130
112	Carbon Tetrachlor	50.000	47.350	94.70	70-130
117	2,2,4-Trimethylpe	50.000	50.238	100.48	70-130
118	Benzene	50.000	50.829	101.66	70-130
120	tert-Amyl methyl	50.000	51.144	102.29	70-130
121	1,2-Dichloroethan	50.000	48.084	96.17	70-130
122	Heptane	50.000	51.580	103.16	70-130
128	n-Butanol	50.000	50.627	101.25	70-130
129	Trichloroethene	50.000	49.369	98.74	70-130
141	Dibromomethane	50.000	48.585	97.17	70-130
131	Methylcyclohexane	50.000	49.093	98.19	70-130
135	1,2-Dichloropropa	50.000	49.662	99.32	70-130
139	Methyl Methacryla	50.000	51.323	102.65	70-130
140	1,4-Dioxane	50.000	48.151	96.30	70-130
142	Bromodichlorometh	50.000	48.776	97.55	70-130
149	cis-1,3-Dichlorop	50.000	52.049	104.10	70-130
150	4-Methyl-2-pentan	50.000	49.705	99.41	70-130
151	Octane	50.000	48.725	97.45	70-130
153	Toluene	50.000	49.327	98.65	70-130
154	trans-1,3-Dichlor	50.000	51.464	102.93	70-130
158	1,1,2-Trichloroet	50.000	50.122	100.25	70-130
159	Tetrachloroethene	50.000	48.953	97.91	70-130
162	2-Hexanone	50.000	49.364	98.73	70-130
161	1,3-Dichloropropa	50.000	49.964	99.93	70-130
163	Dibromochlorometh	50.000	50.043	100.09	70-130
164	1,2-Dibromoethane	50.000	50.143	100.29	70-130
144	1-Bromo-2-Chloroe	50.000	49.484	98.97	70-130
166	Chlorobenzene	50.000	49.844	99.69	70-130
167	Ethyl Benzene	50.000	52.245	104.49	70-130
170	Nonane	50.000	48.442	96.88	70-130
169	1,1,1,2-Tetrachlo	50.000	49.228	98.46	70-130
173	m,p-Xylene	50.000	51.398	102.80	70-130
176	o-Xylene	50.000	51.978	103.96	70-130
178	Styrene	50.000	52.263	104.53	70-130
184	Bromoform	50.000	49.498	99.00	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
185 Cumene	50.000	50.300	100.60	70-130
189 Cyclohexanone	50.000	45.334	90.67	70-130
194 1,1,2,2-Tetrachlo	50.000	49.794	99.59	70-130
192 Bromobenzene	50.000	48.900	97.80	70-130
196 Propylbenzene	50.000	50.984	101.97	70-130
197 1,2,3-Trichloropr	50.000	46.300	92.60	70-130
199 Decane	50.000	50.893	101.79	70-130
200 4-Ethyltoluene	50.000	49.337	98.67	70-130
201 2-Chlorotoluene	50.000	49.312	98.62	70-130
204 1,3,5-Trimethylbe	50.000	50.218	100.44	70-130
209 alpha Methyl Styr	50.000	52.079	104.16	70-130
210 tert-Butylbenzene	50.000	49.309	98.62	70-130
212 1,2,4-Trimethylbe	50.000	51.780	103.56	70-130
214 sec-Butylbenzene	50.000	49.870	99.74	70-130
216 p-Cymene	50.000	49.353	98.71	70-130
217 1,3-Dichlorobenze	50.000	49.082	98.16	70-130
218 1,4-Dichlorobenze	50.000	49.671	99.34	70-130
219 alpha-Chlorotolue	50.000	50.387	100.77	70-130
221 Undecane	50.000	50.195	100.39	70-130
220 Butylbenzene	50.000	50.526	101.05	70-130
222 1,2-Dichlorobenze	50.000	48.356	96.71	70-130
226 1,2-Dibromo-3-chl	50.000	47.256	94.51	70-130
227 Dodecane	50.000	51.014	102.03	70-130
230 1,2,4-Trichlorobe	50.000	55.421	110.84	70-130
231 Hexachlorobutadie	50.000	55.574	111.15	70-130
232 Naphthalene	6.000	5.594	93.23	60-140
233 1,2,3-Trichlorobe	50.000	54.264	108.53	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	24.130	96.52	70-130
$ 152 Toluene-d8	25.000	24.905	99.62	70-130
$ 191 4-Bromofluorobenz	25.000	24.274	97.10	70-130

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RECOVERY REPORT

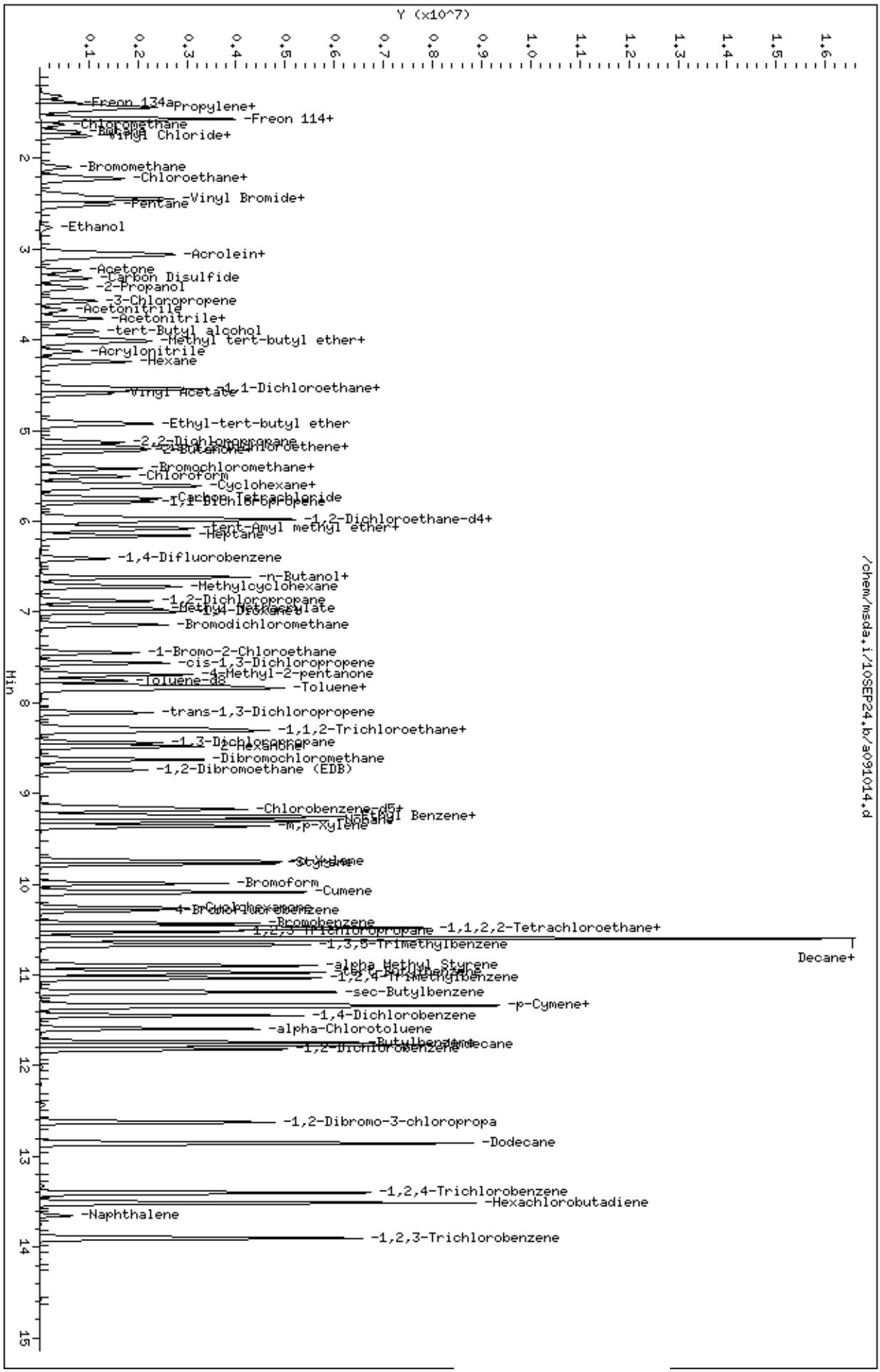
Client Name: Client SDG: 10SEP24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: AB
Data Type: MS DATA SampleType: LCS
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: AT24.sub
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 50ppbv(200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Freon 134a	50.000	50.456	100.91	70-130
8 Propylene	50.000	47.154	94.31	70-130
9 1,1-Difluoroethan	50.000	50.204	100.41	70-130
10 Freon 12	50.000	48.814	97.63	70-130
12 Chlorodifluoromet	50.000	48.570	97.14	70-130
15 Freon 114	50.000	50.234	100.47	70-130
16 Isobutane	50.000	48.843	97.69	70-130
17 Chloromethane	50.000	48.869	97.74	70-130
22 Butane	50.000	43.971	87.94	70-130
24 Vinyl Chloride	50.000	44.227	88.45	70-130
25 1,3-Butadiene	50.000	41.033	82.07	70-130
29 Bromomethane	50.000	55.818	111.64	70-130
30 Chloroethane	50.000	54.534	109.07	70-130
31 Isopentane	50.000	51.578	103.16	70-130
32 Vinyl Bromide	50.000	53.530	107.06	70-130
33 Freon 11	50.000	49.146	98.29	70-130
35 Dichlorofluoromet	50.000	52.103	104.21	70-130
37 Pentane	50.000	50.995	101.99	70-130
42 Ethanol	58.000	55.706	96.05	70-130
46 Acrolein	58.000	58.854	101.47	70-130
47 Freon 113	50.000	49.135	98.27	70-130
49 1,1-Dichloroethen	50.000	48.369	96.74	70-130
52 Acetone	50.000	49.232	98.46	70-130
54 Carbon Disulfide	50.000	50.656	101.31	70-130
57 2-Propanol	50.000	53.481	106.96	70-130
58 3-Chloropropene	50.000	51.491	102.98	70-130
60 Acetonitrile	50.000	49.354	98.71	70-130
64 Methylene Chlorid	50.000	48.447	96.89	70-130
70 tert-Butyl alcoho	50.000	52.279	104.56	70-130
72 Methyl tert-butyl	50.000	49.332	98.66	70-130
73 trans-1,2-Dichlor	50.000	50.760	101.52	70-130
74 Acrylonitrile	50.000	49.658	99.32	70-130
78 Hexane	50.000	48.703	97.41	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
83	1,1-Dichloroethan	50.000	49.516	99.03	70-130
82	Isopropyl ether	50.000	48.020	96.04	70-130
84	Vinyl Acetate	50.000	62.914	125.83	70-130
88	Ethyl-tert-butyl	50.000	48.960	97.92	70-130
90	2,2-Dichloropropa	50.000	47.543	95.09	70-130
91	cis-1,2-Dichloroe	50.000	51.526	103.05	70-130
92	2-Butanone	50.000	50.693	101.39	70-130
93	Ethyl Acetate	50.000	54.131	108.26	70-130
99	Tetrahydrofuran	50.000	47.278	94.56	70-130
103	Chloroform	50.000	47.722	95.44	70-130
104	Cyclohexane	50.000	50.488	100.98	70-130
106	1,1,1-Trichloroet	50.000	48.911	97.82	70-130
113	1,1-Dichloroprope	50.000	50.957	101.91	70-130
112	Carbon Tetrachlor	50.000	47.350	94.70	70-130
117	2,2,4-Trimethylpe	50.000	50.238	100.48	70-130
118	Benzene	50.000	50.829	101.66	70-130
120	tert-Amyl methyl	50.000	51.144	102.29	70-130
121	1,2-Dichloroethan	50.000	48.084	96.17	70-130
122	Heptane	50.000	51.580	103.16	70-130
128	n-Butanol	50.000	50.627	101.25	70-130
129	Trichloroethene	50.000	49.369	98.74	70-130
141	Dibromomethane	50.000	48.585	97.17	70-130
131	Methylcyclohexane	50.000	49.093	98.19	70-130
135	1,2-Dichloropropa	50.000	49.662	99.32	70-130
139	Methyl Methacryla	50.000	51.323	102.65	70-130
140	1,4-Dioxane	50.000	48.151	96.30	70-130
142	Bromodichlorometh	50.000	48.776	97.55	70-130
149	cis-1,3-Dichlorop	50.000	52.049	104.10	70-130
150	4-Methyl-2-pentan	50.000	49.705	99.41	70-130
151	Octane	50.000	48.725	97.45	70-130
153	Toluene	50.000	49.327	98.65	70-130
154	trans-1,3-Dichlor	50.000	51.464	102.93	70-130
158	1,1,2-Trichloroet	50.000	50.122	100.25	70-130
159	Tetrachloroethene	50.000	48.953	97.91	70-130
162	2-Hexanone	50.000	49.364	98.73	70-130
161	1,3-Dichloropropa	50.000	49.964	99.93	70-130
163	Dibromochlorometh	50.000	50.043	100.09	70-130
164	1,2-Dibromoethane	50.000	50.143	100.29	70-130
144	1-Bromo-2-Chloroe	50.000	49.484	98.97	70-130
166	Chlorobenzene	50.000	49.844	99.69	70-130
167	Ethyl Benzene	50.000	52.245	104.49	70-130
170	Nonane	50.000	48.442	96.88	70-130
169	1,1,1,2-Tetrachlo	50.000	49.228	98.46	70-130
173	m,p-Xylene	50.000	51.398	102.80	70-130
176	o-Xylene	50.000	51.978	103.96	70-130
178	Styrene	50.000	52.263	104.53	70-130
184	Bromoform	50.000	49.498	99.00	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
185 Cumene	50.000	50.300	100.60	70-130
189 Cyclohexanone	50.000	45.334	90.67	70-130
194 1,1,2,2-Tetrachlo	50.000	49.794	99.59	70-130
192 Bromobenzene	50.000	48.900	97.80	70-130
196 Propylbenzene	50.000	50.984	101.97	70-130
197 1,2,3-Trichloropr	50.000	46.300	92.60	70-130
199 Decane	50.000	50.893	101.79	70-130
200 4-Ethyltoluene	50.000	49.338	98.68	70-130
201 2-Chlorotoluene	50.000	49.312	98.62	70-130
204 1,3,5-Trimethylbe	50.000	50.218	100.44	70-130
209 alpha Methyl Styr	50.000	52.079	104.16	70-130
210 tert-Butylbenzene	50.000	49.309	98.62	70-130
212 1,2,4-Trimethylbe	50.000	51.780	103.56	70-130
214 sec-Butylbenzene	50.000	49.870	99.74	70-130
216 p-Cymene	50.000	49.353	98.71	70-130
217 1,3-Dichlorobenze	50.000	49.082	98.16	70-130
218 1,4-Dichlorobenze	50.000	49.671	99.34	70-130
219 alpha-Chlorotolue	50.000	50.387	100.77	70-130
221 Undecane	50.000	50.195	100.39	70-130
220 Butylbenzene	50.000	50.526	101.05	70-130
222 1,2-Dichlorobenze	50.000	48.356	96.71	70-130
226 1,2-Dibromo-3-chl	50.000	47.256	94.51	70-130
227 Dodecane	50.000	51.014	102.03	70-130
230 1,2,4-Trichlorobe	50.000	55.421	110.84	70-130
231 Hexachlorobutadie	50.000	55.574	111.15	70-130
232 Naphthalene	6.000	5.594	93.23	60-140
233 1,2,3-Trichlorobe	50.000	54.264	108.53	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	24.130	96.52	70-130
$ 152 Toluene-d8	25.000	24.905	99.62	70-130
$ 191 4-Bromofluorobenz	25.000	24.274	97.10	70-130


Data File: /chem/msda.i/10SEP24.b/a091014.d
Date : 10-SEP-2024 18:55
Client ID: ICV
Sample Info: 50mL 3018-4807
Column phase: RTX-624
Instrument: msda.i
Operator: AB
Column diameter: 0.25
/chem/msda.i/10SEP24.b/a091014.d
Y (x10^7)
Min
Freon 134a
Propylene+
Chloromethane
Freon 114+
Butane
Vinyl Chloride+
Bromomethane
Chloroethane+
Pentane
Vinyl Bromide+
Ethanol
Acrolein+
Acetone
Carbon Disulfide
2-Propanol
3-Chloropropene
Acetonitrile
Acetonitrile+
tert-Butyl alcohol
Methyl tert-butyl ether+
Acrylonitrile
Hexane
Vinyl Acetate
1,1-Dichloroethane+
Ethyl-tert-butyl ether
2,2-Dichloropropane
2-Butanone+
Bromochloromethane+
Chloroform
Cyclohexane+
1,1-Dichloropropene
Carbon Tetrachloride
1,2-Dichloroethane-d4+
tert-Amyl methyl ether+
Heptane
1,4-Difluorobenzene
n-Butanol+
Methylcyclohexane
1,2-Dichloropropane
Dibromofluoromethane
Ethyl Acetate
Bromodichloromethane
1-Bromo-2-Chloroethane
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene-d8
Toluene+
trans-1,3-Dichloropropene
1,1,2-Trichloroethane+
1,3-Dichloropropane
2-Hexanone
Dibromochloromethane
1,2-Dibromoethane (EDB)
Chlorobenzene-d5+
Ethyl Benzene+
m,p-Xylene
Styrene
Bromoform
Cumene
4-Bromofluorobenzene
Cyclohexanone
Bromobenzene
1,1,2,2-Tetrachloroethane+
1,2,3-Trichloropropane
1,3,5-Trimethylbenzene
Decane+
alpha Methyl Styrene
1,2,4-Trimethylbenzene
sec-Butylbenzene
p-Cymene+
1,4-Dichlorobenzene
alpha-Chlorotoluene
Butylbenzene
1,2-Dichlorobenzene
1,2-Dibromo-3-chloropropa
Dodecane
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene

TO-15 QUAD POOLED MDL CASE NARRATIVE

A Method Detection Limit Study for TO-15 Quad method was analyzed 7/23/24-8/26/24 for MSDA, MSD3, MSDP, MSDJ, MSD17, and MSD91.

0.5ppbv MDL: Standard #3018-4652, 3018-4681, 3018-4685 (5.0ppbv); 20mL load volume. Spike amount of 0.5ppbv.

Notes:

1. MDL verification was analyzed on 8/16/24. Standard #3018-4761; 1.0ppbv, 90mL load volume; file #j081608; spike concentration of 0.45ppbv.
2. MDL spike calculated on file #91072309x

1.0ppbv MDL: Standard #3018-4652, 3018-4681, 3018-4685 (5.0ppbv); 40mL load volume. Spike amount of 1.0ppbv.

Notes:

1. MDL verification was analyzed on 8/16/24. Standard #3018-4761; 1.0ppbv,150mL load volume; file #j081609; spike concentration of 0.75ppbv. (for all 1.0-2.0ppbv RLs except Butane and Chloroethane).
2. MDL verification was analyzed on 8/21/24. Standard #3018-4681; 5.0ppbv, 50mL load volume; file #j082135; spike concentration of 1.25ppbv. (For Butane and Chloroethane only).
3. MDL spike calculated on file #91072310x
4. MDL verification for Napthalene was analyzed on 8/20/24. Standard #3380-115; 1.0ppbv, 200ml load volume; file #j082021; spike concentration of 1.0ppbv (0.10ppbv for Naphthalene).
5. MDL spike calculated on file #91072310y.

2.0ppbv MDL: Standard #3018-4770, 3018-4772, 3018-4774 (5.0ppbv); 80mL load volume. Spike amount of 2.0ppbv.

Notes:

1. MDL Verification was analyzed on 8/27/24. Standard #3018-4774 (5.0ppbv), load volume of 160mL; Spike concentration of 4.0ppbv. file #j082707.

2. MDL spike calculated on file #j082307x.

5.0ppbv MDL: Standard #3018-4652, 3018-4681, 3018-4685 (5.0ppbv); 200mL load volume. Spike amount of 5.0ppbv.

Notes:

1. MDL verification was analyzed on 8/20/24. Standard #3018-4718 (50ppbv), 19mL load volume; file #j082008; spike concentration of 4.76ppbv.
2. MDL spike calculated on file #91072311x.

The concentrations for Acetonitrile, 2-Propanol, tert-Butyl Alcohol, Vinyl Acetate, Naphthalene, Ethanol, Acrolein, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzne and Hexachlorobutadiene. were adjusted in the MDL spike recovery reports due to the certified concentration exceeding more than 10% of nominal concentration.

MDL values for the following compounds were taken from the MDL blank:

Benzene (0.087ppbv) Carbon Disulfide (0.468ppbv) 2-Propanol (0.273ppbv) n-Butanol (0.704ppbv)

Isobutane (0.472ppbv) Acetone (2.330ppbv)

The ratio of the mean recovered concentration was between 1 and 20 for all compounds except Dodecane and Acetone.

MDL Expires 8/26/25

AT-24 0.5ppbv Quad Pooled MDL

MDL Verification for 0.5ppbv MDL
Standard #3018-4761 (1.0ppbv), load volume 90mL.
Spike Concentration of 0.45ppbv, File #: j081608.

The ratio of the mean reccovered concentration and the MDL was between 1 and 20 for all compounds

Student T 2.718 for 12 Replicates with 99% Confidence

$\bar{x} = 0.156$, $2\bar{x} = 0.313$, $3\bar{x} = 0.469$, $4\bar{x} = 0.626$

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL010	MDL11	MDL12						
FILENAME:	91072309	91072409	17073008	17073108	a080109	a080607	j080508	j080608	p080809	p080909	3080835	3081207						
INJ.DATE:	23-Jul-24	24-Jul-24	30-Jul-24	31-Jul-24	1-Aug-24	6-Aug-24	5-Aug-24	6-Aug-24	8-Aug-24	9-Aug-24	9-Aug-24	12-Aug-24						
INJ.TIME:	12:39	11:39	14:10	13:40	15:46	18:20	12:32	12:30	13:08	12:53	15:17	17:24			(ppbv)		(ppbv)	(ppbv) MDL
Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL10	MDL11	MDL12	AVG CONC	STD DEV	RL	RATIO	MDL	Blank
1 Freon 12	0.449	0.487	0.629	0.608	0.545	0.534	0.554	0.514	0.467	0.526	0.567	0.541	0.535	0.053	0.500	3.740	0.143	
2 Freon 114	0.569	0.597	0.511	0.526	0.592	0.544	0.549	0.544	0.498	0.570	0.521	0.519	0.545	0.032	0.500	6.350	0.086	
3 Vinyl Chloride	0.336	0.411	0.488	0.523	0.627	0.635	0.460	0.501	0.438	0.474	0.560	0.525	0.498	0.086	0.500	2.140	0.232	
4 1,3-Butadiene	0.425	0.446	0.564	0.565	0.652	0.676	0.391	0.433	0.459	0.422	0.540	0.466	0.503	0.094	0.500	1.970	0.256	
5 Freon 11	0.552	0.602	0.563	0.540	0.569	0.527	0.532	0.544	0.540	0.533	0.543	0.550	0.550	0.021	0.500	9.870	0.056	
6 Freon 113	0.468	0.506	0.566	0.540	0.588	0.514	0.535	0.671	0.521	0.508	0.497	0.611	0.544	0.057	0.500	3.540	0.154	
7 1,1-Dichloroethene	0.437	0.508	0.514	0.491	0.527	0.467	0.504	0.397	0.486	0.486	0.573	0.525	0.493	0.045	0.500	4.000	0.123	
8 3-Chloropropene	0.397	0.447	0.404	0.538	0.504	0.426	0.474	0.529	0.419	0.469	0.705	0.580	0.491	0.088	0.500	2.040	0.240	
9 trans-1,2-Dichloroethene	0.440	0.487	0.499	0.485	0.548	0.535	0.399	0.495	0.392	0.410	0.587	0.603	0.490	0.070	0.500	2.560	0.191	
10 Acrylonitrile	0.440	0.544	0.509	0.526	0.537	0.479	0.358	0.509	0.472	0.336	0.685	0.615	0.501	0.097	0.500	1.900	0.264	*0.049*
11 Hexane	0.557	0.571	0.411	0.392	0.579	0.510	0.467	0.468	0.430	0.399	0.539	0.597	0.493	0.075	0.500	2.420	0.204	
12 1,1-Dichloroethane	0.586	0.587	0.557	0.560	0.515	0.524	0.508	0.489	0.510	0.555	0.577	0.583	0.546	0.035	0.500	5.750	0.095	
13 cis-1,2-Dichloroethene	0.460	0.477	0.415	0.569	0.586	0.480	0.482	0.488	0.464	0.429	0.529	0.572	0.496	0.056	0.500	3.270	0.152	
14 Tetrahydrofuran	0.550	0.563	0.474	0.465	0.535	0.514	0.482	0.492	0.502	0.421	0.648	0.679	0.527	0.075	0.500	2.590	0.203	
* 15 Bromochloromethane	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	
16 Chloroform	0.580	0.583	0.548	0.585	0.516	0.470	0.515	0.498	0.548	0.546	0.536	0.576	0.542	0.037	0.500	5.420	0.100	
17 Cyclohexane	0.435	0.469	0.419	0.422	0.485	0.466	0.497	0.468	0.419	0.412	0.549	0.526	0.464	0.045	0.500	3.820	0.121	
18 1,1,1-Trichloroethane	0.552	0.597	0.535	0.532	0.532	0.550	0.480	0.526	0.498	0.560	0.601	0.586	0.546	0.037	0.500	5.440	0.100	
19 Carbon Tetrachloride	0.537	0.565	0.568	0.547	0.548	0.532	0.524	0.530	0.513	0.498	0.611	0.589	0.547	0.032	0.500	6.310	0.087	
20 2,2,4-Trimethylpentane	0.550	0.570	0.450	0.451	0.537	0.524	0.455	0.457	0.389	0.390	0.551	0.545	0.489	0.064	0.500	2.790	0.175	
21 Benzene	0.550	0.550	0.544	0.566	0.541	0.528	0.591	0.596	0.529	0.567	0.550	0.586	0.558	0.023	0.500	6.414	0.063	*0.087*
$ 22 1,2-Dichloroethane-d4	30.990	31.820	26.230	25.970	25.450	24.010	24.710	24.030	25.220	25.200	24.340	24.240	26.020	2.620	25.00	3.650	7.130	
23 1,2-Dichloroethane	0.580	0.618	0.547	0.599	0.544	0.516	0.502	0.539	0.516	0.533	0.535	0.571	0.550	0.035	0.500	5.780	0.095	
24 Heptane	0.528	0.503	0.350	0.398	0.543	0.512	0.597	0.688	0.302	0.345	0.543	0.554	0.489	0.116	0.500	1.550	0.314	
* 25 1,4-Difluorobenzene	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	
26 Trichloroethene	0.573	0.577	0.523	0.534	0.550	0.523	0.577	0.569	0.501	0.558	0.589	0.556	0.552	0.027	0.500	7.530	0.073	*0.011*
27 1,2-Dichloropropane	0.560	0.555	0.484	0.561	0.506	0.522	0.525	0.568	0.489	0.492	0.580	0.627	0.539	0.044	0.500	4.560	0.118	
28 Dibromomethane	0.498	0.523	0.518	0.526	0.589	0.541	0.664	0.688	0.518	0.510	0.584	0.505	0.555	0.063	0.500	3.230	0.172	*0.042*
29 Bromodichloromethane	0.580	0.613	0.529	0.528	0.535	0.500	0.576	0.583	0.493	0.569	0.519	0.541	0.547	0.037	0.500	5.490	0.100	
30 cis-1,3-Dichloropropene	0.508	0.541	0.514	0.485	0.531	0.442	0.581	0.576	0.486	0.481	0.546	0.521	0.518	0.041	0.500	4.700	0.110	*0.016*
31 4-Methyl-2-pentanone	0.537	0.565	0.447	0.554	0.535	0.543	0.550	0.594	0.442	0.344	0.538	0.551	0.517	0.070	0.500	2.700	0.191	*0.036*
$ 32 Toluene-d8	25.320	25.840	24.630	24.730	25.200	25.090	24.940	24.680	24.440	24.680	25.570	24.780	24.990	0.422	25.00	21.780	1.150	
33 Toluene	0.571	0.577	0.505	0.522	0.532	0.529	0.581	0.579	0.469	0.493	0.576	0.588	0.543	0.040	1.000	4.940	0.110	*0.036*
34 trans-1,3-Dichloropropene	0.539	0.548	0.511	0.489	0.491	0.464	0.564	0.560	0.480	0.471	0.564	0.571	0.521	0.041	0.500	4.710	0.110	*0.022*
35 1,1,2-Trichloroethane	0.564	0.576	0.531	0.587	0.513	0.547	0.565	0.599	0.480	0.568	0.553	0.545	0.552	0.033	0.500	6.240	0.089	*0.011*
36 Tetrachloroethene	0.505	0.537	0.474	0.440	0.540	0.511	0.626	0.665	0.518	0.501	0.518	0.524	0.530	0.061	0.500	3.200	0.166	*0.048*
37 1,3-Dichloropropane	0.561	0.577	0.530	0.541	0.489	0.493	0.608	0.601	0.494	0.489	0.525	0.589	0.541	0.045	0.500	4.420	0.123	*0.014*
38 Dibromochloromethane	0.528	0.557	0.543	0.510	0.516	0.518	0.590	0.595	0.481	0.518	0.552	0.552	0.538	0.033	0.500	5.960	0.090	
39 1,2-Dibromoethane (EDB)	0.546	0.600	0.524	0.520	0.487	0.532	0.551	0.560	0.512	0.475	0.559	0.514	0.532	0.034	0.500	5.730	0.093	*0.019*
* 40 Chlorobenzene-d5	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	

41 Chlorobenzene	0.504	0.523	0.507	0.517	0.543	0.531	0.566	0.550	0.481	0.549	0.541	0.564	0.531	0.026	0.500	7.590	0.070	
42 Ethyl Benzene	0.528	0.540	0.444	0.472	0.622	0.514	0.540	0.551	0.388	0.395	0.566	0.530	0.507	0.070	0.500	2.670	0.190	
43 1,1,1,2-Tetrachloroethane	0.524	0.537	0.521	0.485	0.511	0.507	0.563	0.543	0.505	0.559	0.590	0.530	0.531	0.029	0.500	6.670	0.080	
44 m,p-Xylene	0.538	0.580	0.449	0.463	0.513	0.504	0.530	0.497	0.410	0.354	0.540	0.565	0.495	0.066	1.000	2.770	0.179	*0.027*
45 o-Xylene	0.537	0.549	0.409	0.394	0.509	0.490	0.510	0.506	0.399	0.361	0.492	0.527	0.474	0.065	0.500	2.700	0.175	
46 Styrene	0.555	0.568	0.390	0.395	0.500	0.484	0.497	0.479	0.357	0.325	0.526	0.515	0.466	0.080	0.500	2.150	0.216	*0.016*
47 Bromoform	0.522	0.536	0.519	0.467	0.535	0.460	0.639	0.669	0.483	0.527	0.524	0.548	0.536	0.062	0.500	3.170	0.169	
48 Cumene	0.532	0.541	0.361	0.364	0.529	0.506	0.513	0.491	0.350	0.343	0.518	0.517	0.464	0.082	0.500	2.090	0.222	
$ 49 4-Bromofluorobenzene	25.350	25.150	23.120	23.150	25.510	24.300	24.450	24.480	23.790	22.450	25.020	24.860	24.300	0.982	25.00	9.110	2.670	
50 1,1,2,2-Tetrachloroethane	0.561	0.551	0.513	0.538	0.527	0.467	0.614	0.583	0.519	0.522	0.513	0.524	0.536	0.038	0.500	5.230	0.103	*0.012*
51 Propylbenzene	0.532	0.503	0.439	0.457	0.548	0.515	0.529	0.519	0.385	0.380	0.558	0.527	0.491	0.061	0.500	2.960	0.166	
52 1,2,3-Trichloropropane	0.571	0.605	0.574	0.537	0.548	0.520	0.598	0.593	0.480	0.453	0.582	0.539	0.550	0.047	0.500	4.280	0.129	
53 4-Ethyltoluene	0.516	0.596	0.414	0.376	0.556	0.594	0.588	0.523	0.312	0.354	0.511	0.523	0.489	0.099	0.500	1.810	0.269	*0.017*
54 1,3,5-Trimethylbenzene	0.499	0.552	0.408	0.391	0.524	0.524	0.503	0.524	0.318	0.363	0.509	0.531	0.470	0.078	0.500	2.220	0.212	*0.009*
55 1,2,4-Trimethylbenzene	0.491	0.578	0.332	0.379	0.505	0.548	0.493	0.499	0.324	0.306	0.450	0.494	0.450	0.092	0.500	1.810	0.249	*0.019*
56 sec-Butylbenzene	0.460	0.494	0.369	0.425	0.526	0.544	0.505	0.479	0.325	0.313	0.478	0.487	0.450	0.076	0.500	2.170	0.208	
57 p-Cymene	0.510	0.524	0.379	0.340	0.521	0.516	0.519	0.513	0.320	0.316	0.495	0.500	0.454	0.087	0.500	1.920	0.237	
58 1,3-Dichlorobenzene	0.516	0.526	0.455	0.447	0.550	0.556	0.598	0.600	0.408	0.406	0.506	0.516	0.507	0.066	0.500	2.830	0.179	*0.027*
59 1,4-Dichlorobenzene	0.503	0.514	0.427	0.445	0.524	0.527	0.590	0.563	0.393	0.392	0.504	0.464	0.487	0.064	0.500	2.820	0.173	*0.021*
60 alpha-Chlorotoluene	0.541	0.547	0.428	0.426	0.471	0.426	0.534	0.488	0.384	0.361	0.468	0.473	0.462	0.060	0.500	2.840	0.163	
61 Butylbenzene	0.457	0.484	0.353	0.390	0.497	0.497	0.510	0.475	0.320	0.348	0.478	0.494	0.442	0.069	0.500	2.360	0.187	
62 1,2-Dichlorobenzene	0.525	0.522	0.453	0.463	0.527	0.520	0.608	0.570	0.401	0.409	0.532	0.498	0.502	0.061	0.500	3.020	0.166	*0.025*

Reviewer 1 _____ Date: 9/29/24

Reviewer 2 _____ Date: 9/29/24

AT-24 1.0ppbv Quad Pooled MDL

MDL Verification for 1.0ppbv compounds except Butane and Chloroethane, Standard #3018-4761 (1.0ppbv), load volume 150mL. Spike Concentration of 0.75ppbv, file #j081609. Butane and Chloroethane, Standard #3018-4681 (5.0ppbv), load volume 50mL. Spike Concentration of 1.25ppbv, file #j082135.

The ratio of the mean reccovered concentration and the MDL was between 1 and 20 for all compounds except Dodecane.

Student T 2.718 for 12 Replicates with 99% Confidence

$\bar{x} = 0.373$, $2\bar{x} = 0.746$, $3\bar{x} = 1.119$, $4\bar{x} = 1.492$

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL010	MDL11	MDL12						
FILENAME:	91072310	91072410	17073009	17073109	a080110	a080608	j080509	j080609	p080810	p080910	3080836	3081208						
INJ.DATE:	23-Jul-24	24-Jul-24	30-Jul-24	31-Jul-24	1-Aug-24	6-Aug-24	5-Aug-24	6-Aug-24	8-Aug-24	9-Aug-24	9-Aug-24	12-Aug-24						
INJ.TIME:	13:03	12:02	14:34	14:03	16:19	18:54	12:55	12:53	13:37	13:21	15:44	17:52						
Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL10	MDL11	MDL12	AVG CONC	STD DEV	(ppbv) RL	RATIO	(ppbv) MDL	(ppbv) *MDL Blank*
1 Freon 134a	0.828	0.966	1.090	1.120	0.952	1.080	0.912	0.932	1.170	1.230	1.110	1.020	1.030	0.119	2.000	3.210	0.322	
2 Propylene	0.954	1.040	1.090	1.210	0.985	1.120	0.889	1.060	1.220	1.320	1.110	1.090	1.090	0.119	2.000	3.370	0.323	
3 1,1-Difluoroethane	0.925	1.380	1.110	1.060	0.916	0.915	0.878	0.936	1.060	1.130	1.090	1.150	1.050	0.143	2.000	2.700	0.388	
4 Chlorodifluoromethane	0.878	1.140	0.998	0.948	0.767	1.010	0.800	0.640	1.120	0.942	1.670	1.190	1.010	0.263	2.000	1.410	0.714	
5 Isobutane	1.190	1.260	1.090	1.010	0.930	1.070	1.000	1.040	1.220	1.183	1.100	1.030	1.094	0.129	2.000	2.318	0.273	*0.472*
6 Butane	0.990	1.070	0.943	1.030	0.747	1.200	0.878	0.926	0.893	0.760	1.360	1.210	1.000	0.185	2.000	1.990	0.504	
7 Bromomethane	0.882	0.970	1.080	1.110	0.974	1.060	1.070	1.080	0.755	1.350	1.170	1.030	1.040	0.147	2.000	2.610	0.400	
8 Chloroethane	0.984	1.050	1.190	1.150	0.938	1.190	1.040	1.030	1.340	1.490	1.250	1.110	1.150	0.158	2.000	2.670	0.429	
9 Isopentane	1.170	1.160	1.100	0.967	1.080	1.260	0.888	1.040	1.150	1.130	1.240	1.250	1.120	0.113	2.000	3.640	0.308	
10 Vinyl Bromide	0.863	0.949	1.050	0.964	0.892	1.160	0.946	1.020	1.040	0.961	1.070	1.040	0.997	0.083	2.000	4.420	0.226	
11 Dichlorofluoromethane	1.070	1.210	1.140	1.110	0.933	1.100	1.030	1.170	1.070	1.100	1.030	1.010	1.080	0.074	2.000	5.400	0.200	
12 Pentane	1.120	1.130	1.030	0.938	1.050	1.240	0.937	0.994	1.000	1.120	1.100	1.140	1.070	0.091	2.000	4.330	0.247	
13 Acrolein	1.170	0.765	0.681	1.170	0.567	1.090	0.784	0.415	0.987	0.763	0.566	0.888	0.820	0.247	2.000	1.220	0.671	*0.143*
14 Carbon Disulfide	1.000	1.100	1.260	1.190	0.899	0.977	1.060	1.160	1.140	1.180	1.060	0.986	1.090	0.107	2.000	2.329	0.290	*0.468*
15 2-Propanol	1.060	1.180	1.110	1.130	1.080	1.160	1.050	1.110	1.320	1.210	1.260	1.300	1.160	0.091	2.000	4.249	0.247	*0.273*
16 Methylene Chloride	1.040	1.210	1.120	1.080	0.951	1.120	0.951	1.010	1.100	1.210	0.967	1.030	1.070	0.090	2.000	4.380	0.243	*0.21*
17 tert-Butyl alcohol	1.030	1.110	1.040	1.120	0.961	1.080	1.120	1.030	0.942	1.050	1.230	1.320	1.090	0.106	2.000	3.760	0.289	
18 Methyl tert-butyl ether	0.949	1.030	0.861	0.787	0.839	0.931	0.983	0.994	0.833	0.775	1.050	1.090	0.927	0.107	2.000	3.200	0.290	
19 Isopropyl ether	1.110	1.170	0.849	0.841	0.903	1.000	0.857	0.879	0.878	0.802	1.090	1.050	0.952	0.124	2.000	2.830	0.336	
20 Vinyl Acetate	1.030	0.820	0.759	0.839	0.810	0.854	0.597	0.822	0.533	0.482	1.030	1.050	0.802	0.188	2.000	1.570	0.510	
21 Ethyl-tert-butyl ether	0.971	1.040	0.803	0.817	0.884	0.987	0.878	0.918	0.830	0.665	1.040	1.040	0.907	0.117	2.000	2.860	0.317	
22 2,2-Dichloropropane	1.020	1.030	1.050	0.981	1.050	0.923	1.000	1.010	1.030	0.911	1.160	1.080	1.020	0.066	2.000	5.700	0.179	
23 2-Butanone	0.976	1.120	1.070	0.855	1.240	1.020	0.792	1.010	0.875	0.881	1.160	0.980	0.999	0.135	2.000	2.710	0.368	*0.244*
24 Ethyl Acetate	0.933	1.040	1.120	1.090	1.060	1.070	0.933	0.996	1.170	1.320	1.400	1.270	1.120	0.148	2.000	2.770	0.403	
* 25 Bromochloromethane	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	
26 1,1-Dichloropropene	1.040	1.040	0.981	0.983	1.040	0.990	0.987	1.040	0.898	0.884	1.160	0.872	0.993	0.081	2.000	4.510	0.220	
$ 27 1,2-Dichloroethane-d4	30.240	31.160	25.400	25.820	21.290	24.200	24.150	24.500	24.830	25.320	24.310	23.820	25.420	2.720	25.00	3.440	7.400	
28 tert-Amyl methyl ether	1.010	1.030	0.827	0.905	0.868	1.010	1.050	1.080	0.742	0.765	1.100	1.040	0.952	0.125	2.000	2.800	0.339	
* 29 1,4-Difluorobenzene	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	
30 n-Butanol	1.010	1.060	1.490	1.480	0.955	0.867	1.110	1.100	0.855	0.820	1.080	1.100	1.080	0.215	2.000	1.534	0.585	*0.704*
31 Methylcyclohexane	0.979	1.070	0.948	0.870	0.890	1.010	1.030	1.030	0.912	0.907	1.040	1.060	0.978	0.070	2.000	5.120	0.191	
32 Methyl Methacrylate	1.170	1.160	0.862	0.840	0.757	0.968	0.952	1.060	0.789	0.837	0.939	0.964	0.941	0.135	2.000	2.570	0.366	
33 1,4-Dioxane	1.000	1.100	0.866	0.987	0.974	0.956	1.140	1.130	0.856	0.837	1.090	1.060	1.000	0.107	2.000	3.430	0.291	
34 1-Bromo-2-Chloroethane	1.080	1.130	1.020	1.080	1.040	0.952	1.140	1.210	1.030	1.080	1.020	1.000	1.070	0.069	2.000	5.690	0.187	
$ 35 Toluene-d8	25.450	25.460	25.580	25.050	25.130	25.380	24.700	24.820	24.330	24.470	25.630	25.530	25.130	0.453	2.000	20.410	1.230	
36 Octane	1.110	1.170	0.967	0.876	1.050	0.968	1.040	1.060	0.872	0.862	1.080	1.030	1.010	0.100	2.000	3.720	0.271	
37 2-Hexanone	1.070	1.150	0.822	0.769	0.731	0.971	0.984	0.964	0.714	0.718	0.935	0.915	0.896	0.145	2.000	2.280	0.393	
* 38 Chlorobenzene-d5	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	
39 Nonane	1.150	1.180	0.807	0.784	1.030	1.010	0.980	1.030	0.803	0.787	1.000	0.957	0.960	0.137	2.000	2.570	0.373	
40 Cyclohexanone	0.713	0.872	0.790	0.563	1.060	0.998	1.020	1.050	0.696	0.720	1.200	1.110	0.900	0.201	2.000	1.650	0.547	*0.144*

$ 41 4-Bromofluorobenzene	25.550	25.000	23.630	23.460	24.300	24.240	24.590	24.680	23.530	23.210	25.190	25.070	24.370	0.771	25.00	11.630	2.090	
42 Bromobenzene	0.888	0.906	0.925	1.000	0.952	1.070	1.160	1.170	0.921	0.980	1.030	1.020	1.000	0.093	2.000	3.950	0.254	*0.016*
43 2-Chlorotoluene	1.040	1.050	0.937	0.859	0.897	1.140	1.060	1.090	0.813	0.871	0.989	0.908	0.971	0.104	2.000	3.430	0.283	*0.013*
44 Decane	1.240	1.270	0.817	0.781	0.774	0.924	1.120	1.100	0.847	0.803	0.967	0.969	0.966	0.175	2.000	2.030	0.477	*0.261*
45 alpha Methyl Styrene	0.998	0.965	0.732	0.696	0.744	0.972	0.948	0.956	0.711	0.710	0.944	0.896	0.856	0.124	2.000	2.540	0.337	
46 tert-Butylbenzene	1.050	1.070	0.782	0.753	0.865	1.070	1.040	1.030	0.704	0.770	0.901	0.927	0.914	0.138	2.000	2.440	0.374	
47 Undecane	1.170	1.190	0.875	0.860	0.702	0.936	1.020	0.987	0.597	0.591	1.020	0.983	0.910	0.197	2.000	1.700	0.536	*0.089*
48 1,2-Dibromo-3-chloropropar	0.973	0.970	0.913	0.950	0.699	0.899	1.170	1.100	0.827	0.931	0.936	0.914	0.940	0.118	2.000	2.930	0.321	*0.027*
49 Dodecane	0.986	1.000	0.327	0.327	0.643	0.789	0.889	0.814	0.368	0.352	0.897	0.783	0.681	0.267	2.000	0.939	0.726	*0.043*
50 1,2,4-Trichlorobenzene	1.070	1.030	0.919	0.925	0.811	0.988	1.340	1.250	0.719	0.737	1.100	1.030	0.994	0.189	2.000	1.930	0.515	*0.061*
51 Hexachlorobutadiene	1.220	1.140	1.020	1.080	0.828	0.900	1.090	1.010	0.872	0.955	0.994	1.020	1.010	0.113	2.000	3.280	0.308	*0.031*
53 1,2,3-Trichlorobenzene	1.130	1.090	0.932	1.010	0.765	0.960	1.360	1.250	0.639	0.695	1.060	1.030	0.994	0.215	2.000	1.700	0.584	*0.044*

Reviewer 1 _____ Date: 8/29/24

Reviewer 2 _____ Date: 8/29/24

AT-24 0.1ppbv Quad Pooled MDL (Naph Only)

MDL Verification for 0.1ppbv
Standard #3018-4681, load volume 50mL.
Spike Concentration of 0.100ppbv, File #: j082021.

The ratio of the mean reccovered concentration and the MDL was between 1 and 20 for all compounds

Student T 2.718 for 12 Replicates with 99% Confidence

$\bar{x} = 0.049$, $2\bar{x} = 0.098$, $3\bar{x} = 0.147$, $4\bar{x} = 0.196$

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL010	MDL11	MDL12					
FILENAME:	91072310a	91072410a	17073009a	17073109a	a080110a	a080608a	j080509a	j080609a	p080810a	p080910a	3080836a	3081208a					
INJ.DATE:	23-Jul-24	24-Jul-24	30-Jul-24	31-Jul-24	1-Aug-24	6-Aug-24	5-Aug-24	6-Aug-24	8-Aug-24	9-Aug-24	9-Aug-24	12-Aug-24					
INJ.TIME:	13:03	12:02	14:34	14:03	16:19	18:54	12:55	12:53	13:37	13:21	15:44	17:52					
Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL10	MDL11	MDL12	AVG CONC	STD DEV	(ppbv) RL	RATIO	(ppbv) MDL	(ppbv) *MDL Blank*
* 25 Bromochloromethane	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	
$ 27 1,2-Dichloroethane-d4	30.240	31.160	25.400	25.820	21.290	24.200	24.150	24.500	24.830	25.320	24.310	23.820	25.420	2.720	25.00	3.440	7.400	
* 29 1,4-Difluorobenzene	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	
$ 35 Toluene-d8	25.450	25.460	25.580	25.050	25.130	25.380	24.700	24.820	24.330	24.470	25.630	25.530	25.130	0.453	2.000	20.410	1.230	
* 38 Chlorobenzene-d5	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	
$ 41 4-Bromofluorobenzene	25.550	25.000	23.630	23.460	24.300	24.240	24.590	24.680	23.530	23.210	25.190	25.070	24.370	0.771	25.00	11.630	2.090	
52 Naphthalene	0.113	0.110	0.098	0.100	0.077	0.100	0.111	0.103	0.054	0.071	0.105	0.098	0.095	0.018	1.000	1.940	0.049	*0.014*

Reviewer 1 _____ Date: 8/29/24

Reviewer 2 _____ Date: 8/29/24

AT-24 2.0ppbv Quad Pooled MDL

MDL Verification for 2.0ppbv MDL. Standard #3018-4774 (5.0ppbv), load volume of 160mL.
Spike Concentration of 4.0ppbv for, File#: j082707.

The ratio of the mean reccovered concentration and the MDL was between 1 and 20 for all compound except Acetone.

Student T 2.718 for 12 Replicates with 99% Confidence

$\bar{x}$ = 1.682, 2$\bar{x}$ = 3.364, 3$\bar{x}$ = 5.046, 4$\bar{x}$ = 6.728

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL010	MDL11	MDL12						
FILENAME:	J082307	J082406	17082309	17082607	P082308	P082406	91082408	91082608	A082407	A082607	3082308	3082606						
INJ.DATE:	23-Aug-24	24-Aug-24	23-Aug-24	26-Aug-24	23-Aug-24	24-Aug-24	24-Aug-24	26-Aug-24	24-Aug-24	26-Aug-24	23-Aug-24	26-Aug-24						
INJ.TIME:	11:50	1:24	1:01	1:16	1:39	1:53	12:28	11:53	2:35	12:32	3:16	2:18						
Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL10	MDL11	MDL12	AVG CONC	STD DEV	(ppbv) RL	RATIO	(ppbv) MDL	(ppbv) *MDL Blank*
2 Ethanol	2.512	2.540	2.806	2.876	2.053	1.826	2.760	2.848	2.253	2.176	2.964	2.892	2.542	0.381	5.000	2.458	1.034	
3 Acetone	1.882	1.867	1.884	1.964	2.398	2.218	2.454	2.561	1.879	1.652	2.065	2.151	2.081	0.279	5.000	0.893	0.759	*2.330*
* 5 Bromochloromethane	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	5.000	1.000	0.000	
$ 6 1,2-Dichloroethane-d4	26.023	25.570	23.716	23.341	23.671	23.933	28.028	27.451	26.023	27.800	24.878	24.779	25.434	1.666	5.000	5.616	4.529	
* 7 1,4-Difluorobenzene	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	5.000	1.000	0.000	
$ 8 Toluene-d8	25.772	25.823	24.292	24.088	23.173	23.454	25.490	25.223	25.383	24.860	24.718	25.329	24.800	0.879	5.000	10.380	2.389	
* 9 Chlorobenzene-d5	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	5.000	1.000	0.000	
$ 10 4-Bromofluorobenzene	24.155	24.120	24.896	26.394	25.859	25.251	24.245	24.413	24.677	25.388	25.395	24.985	24.982	0.711	5.000	12.922	1.933	

Reviewer 1 _____ Date: 8/29/24

Reviewer 2 _____ Date: 8/29/24

AT-24 5.0ppbv Quad Pooled MDL

MDL Verification for 5.0ppbv MDL. Standard #3018-4718 (50ppbv), load volumes of 19mL.
Spike Concentration of 4.76ppbv. File#: j082008.

The ratio of the mean reccovered concentration and the MDL was between 1 and 20 for all compounds

Student T 2.718 for 12 Replicates with 99% Confidence

$\bar{x}$ = 2.142, $2\bar{x}$ = 4.284, $3\bar{x}$ = 6.426, $4\bar{x}$ = 8.568

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL010	MDL11	MDL12						
FILENAME:	91072311	91072411	17073010	17073110	a080111	a080609	j080510	j080610	p080811	p080911	3080837	3081209						
INJ.DATE:	23-Jul-24	24-Jul-24	30-Jul-24	31-Jul-24	1-Aug-24	6-Aug-24	5-Aug-24	6-Aug-24	8-Aug-24	9-Aug-24	9-Aug-24	12-Aug-24						(ppbv)
INJ.TIME:	13:29	12:28	15:01	14:29	16:56	19:31	13:21	13:19	14:09	13:53	16:15	18:22			(ppbv)		(ppbv)	*MDL*
Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL10	MDL11	MDL12	AVG CONC	STD DEV	RL	RATIO	MDL	*Blank*
1 Chloromethane	6.390	7.460	4.960	4.960	4.830	5.430	5.810	6.080	5.500	5.950	4.416	5.033	5.568	0.833	5.000	2.417	2.266	*0.066*
4 Acetonitrile	6.160	7.790	6.420	6.840	5.990	5.970	7.640	7.970	6.710	6.580	6.413	5.770	6.688	0.743	5.000	3.310	2.019	
* 5 Bromochloromethane	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	5.000	1.000	0.000	
$ 6 1,2-Dichloroethane-d4	29.160	30.390	25.310	25.180	26.350	24.550	24.930	24.380	25.310	25.390	24.460	24.180	25.800	1.960	5.000	4.830	5.340	
* 7 1,4-Difluorobenzene	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	5.000	1.000	0.000	
$ 8 Toluene-d8	24.980	25.160	25.530	25.770	25.700	24.830	25.490	25.020	23.780	24.360	24.880	24.780	25.020	0.573	5.000	16.070	1.560	
* 9 Chlorobenzene-d5	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	5.000	1.000	0.000	
$ 10 4-Bromofluorobenzene	24.970	24.570	24.890	25.260	30.770	24.400	24.940	24.940	25.330	25.360	25.410	25.210	25.500	1.690	5.000	5.560	4.580	

Reviewer 1 _____ Date: 8/29/24

Reviewer 2 _____ Date: 8/29/24

BLANK METHOD DETECTION LIMIT SUMMARY REPORT

Student T 2.718 for 12 Replicates with 99% Confidence

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL010	MDL11	MDL12						
FILENAME:	91072308EPALB	91081207EPALB	17073007EPALB	17073107EPALB	a080606EPALB	a080707EPALB	j080507EPALB	j080607EPALB	p080908EPALB	p081309EPALB	3080834EPALB	3081206EPALB						
INJ.DATE:	23-Jul-24	12-Aug-24	30-Jul-24	31-Jul-24	6-Aug-24	7-Aug-24	5-Aug-24	6-Aug-24	9-Aug-24	13-Aug-24	9-Aug-24	12-Aug-24						
INJ.TIME:	12:15	12:13	12:20	12:34	17:47	20:53	12:08	12:07	12:25	14:10	14:50	16:58						
Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL10	MDL11	MDL12	AVG CONC	STD DEV	MAX	RL	CAL MDL	MDL
1 Freon 134a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000
2 Propylene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
3 1,1-Difluoroethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
4 Freon 12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000
5 Chlorodifluoromethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
6 Freon 114	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
7 Isobutane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.472	0.335	0.000	0.000	0.404	0.097	0.472	2.000	0.000	0.472
8 Chloromethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.066	0.000	0.000	0.000	0.006	0.019	0.066	0.500	0.052	0.066
9 Butane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
10 Vinyl Chloride	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
11 1,3-Butadiene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
12 Bromomethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
13 Chloroethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
14 Isopentane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
15 Vinyl Bromide	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
16 Dichlorofluoromethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
17 Freon 11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
18 Pentane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
19 Ethanol	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
20 Freon 113	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
21 Acrolein	0.143	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.041	0.143	0.400	0.112	0.143
22 1,1-Dichloroethene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
23 Acetone	1.740	1.540	0.564	1.180	1.310	0.201	1.060	0.289	1.270	1.070	0.379	0.544	0.928	0.514	1.740	0.400	1.400	2.330
24 Carbon Disulfide	0.051	0.342	0.183	0.173	0.018	0.003	0.154	0.132	0.280	0.321	0.033	0.064	0.146	0.119	0.342	0.400	0.322	0.468
25 2-Propanol	0.000	0.000	0.226	0.262	0.126	0.127	0.000	0.000	0.069	0.095	0.000	0.273	0.098	0.106	0.273	2.000	0.289	0.273
26 3-Chloropropene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
27 Acetonitrile	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
28 Methylene Chloride	0.000	0.000	0.000	0.043	0.210	0.193	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.078	0.210	0.400	0.212	0.210
29 tert-Butyl alcohol	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
30 Methyl tert-butyl ether	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
31 trans-1,2-Dichloroethene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
32 Acrylonitrile	0.000	0.000	0.000	0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.014	0.049	0.400	0.039	0.049
33 Hexane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
34 1,1-Dichloroethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
35 Isopropyl ether	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
36 Vinyl Acetate	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
37 Ethyl-tert-butyl ether	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
38 2,2-Dichloropropane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
39 cis-1,2-Dichloroethene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
40 2-Butanone	0.244	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.070	0.244	0.400	0.191	0.244
41 Ethyl Acetate	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
42 Tetrahydrofuran	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000

* 43 Bromochloromethane	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.000	0.500	0.000	25.000
44 Chloroform	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
45 Cyclohexane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
46 1,1,1-Trichloroethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
47 Carbon Tetrachloride	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
48 1,1-Dichloropropene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
49 Benzene	0.000	0.000	0.038	0.057	0.000	0.000	0.000	0.000	0.087	0.000	0.000	0.000	0.015	0.029	0.087	0.400	0.080	0.087
50 2,2,4-Trimethylpentane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
$ 51 1,2-Dichloroethane-d4	30.320	29.240	25.600	24.940	25.270	25.550	24.700	24.410	25.410	25.670	24.600	24.310	25.840	1.920	30.320	0.500	5.210	31.050
52 1,2-Dichloroethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
53 tert-Amyl methyl ether	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
54 Heptane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
* 55 1,4-Difluorobenzene	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.000	0.500	0.000	25.000
56 Trichloroethene	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.011	0.400	0.008	0.011
57 n-Butanol	0.143	0.704	0.604	0.568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.168	0.280	0.704	0.400	0.762	0.704
58 Methylcyclohexane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
59 1,2-Dichloropropane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
60 Methyl Methacrylate	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
61 1,4-Dioxane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
62 Dibromomethane	0.022	0.000	0.017	0.033	0.033	0.023	0.042	0.000	0.000	0.000	0.028	0.030	0.019	0.015	0.042	0.400	0.042	0.042
63 Bromodichloromethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
64 1-Bromo-2-Chloroethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.000	0.000	0.000
65 cis-1,3-Dichloropropene	0.000	0.000	0.000	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.005	0.016	0.400	0.012	0.016
66 4-Methyl-2-pentanone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
$ 67 Toluene-d8	24.730	25.660	25.510	25.290	25.470	25.800	24.730	24.610	23.710	26.200	25.040	24.790	25.130	0.668	26.200	0.500	1.810	26.940
68 Toluene	0.000	0.000	0.018	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.006	0.011	0.036	0.400	0.031	0.036
69 Octane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
70 trans-1,3-Dichloropropene	0.000	0.000	0.000	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.006	0.022	0.400	0.017	0.022
71 1,1,2-Trichloroethane	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.011	0.400	0.009	0.011
72 Tetrachloroethene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.004	0.014	0.048	0.400	0.037	0.048
73 1,3-Dichloropropane	0.000	0.000	0.000	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.014	2.000	0.011	0.014
74 2-Hexanone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
75 Dibromochloromethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
76 1,2-Dibromoethane (EDB)	0.000	0.000	0.000	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.006	0.019	0.400	0.015	0.019
* 77 Chlorobenzene-d5	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.000	0.500	0.000	25.000
78 Chlorobenzene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
79 Ethyl Benzene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
80 1,1,1,2-Tetrachloroethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
81 Nonane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
82 m,p-Xylene	0.000	0.000	0.023	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.005	0.010	0.027	0.400	0.028	0.027
83 o-Xylene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
84 Styrene	0.000	0.000	0.011	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.003	0.006	0.016	0.400	0.016	0.016
85 Bromoform	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
86 Cumene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
87 Cyclohexanone	0.144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.042	0.144	0.400	0.113	0.144
$ 88 4-Bromofluorobenzene	25.100	26.400	23.040	23.250	24.280	24.290	24.470	24.280	22.290	21.980	25.050	25.200	24.140	1.290	26.400	0.500	3.500	27.640
89 Bromobenzene	0.000	0.000	0.016	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.006	0.016	2.000	0.017	0.016
90 1,1,2,2-Tetrachloroethane	0.000	0.000	0.012	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.005	0.012	0.400	0.013	0.012
91 Propylbenzene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
92 1,2,3-Trichloropropane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
93 2-Chlorotoluene	0.000	0.000	0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.013	0.400	0.010	0.013
94 4-Ethyltoluene	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.005	0.017	0.400	0.013	0.017
95 Decane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.261	0.000	0.000	0.000	0.022	0.075	0.261	0.400	0.204	0.261
96 1,3,5-Trimethylbenzene	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.009	0.400	0.007	0.009
97 alpha Methyl Styrene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000

98 tert-Butylbenzene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
99 1,2,4-Trimethylbenzene	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.002	0.006	0.019	0.400	0.016	0.019
100 sec-Butylbenzene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
101 p-Cymene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
102 1,3-Dichlorobenzene	0.000	0.000	0.016	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.027	0.005	0.010	0.027	0.400	0.026	0.027
103 1,4-Dichlorobenzene	0.000	0.000	0.013	0.021	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.006	0.009	0.021	0.400	0.024	0.021
104 alpha-Chlorotoluene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
105 Butylbenzene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
106 Undecane	0.000	0.000	0.000	0.009	0.025	0.045	0.000	0.000	0.089	0.000	0.012	0.021	0.009	0.014	0.089	0.400	0.039	0.089
107 1,2-Dichlorobenzene	0.000	0.000	0.000	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.007	0.025	0.400	0.019	0.025
108 1,2-Dibromo-3-chloropropa	0.000	0.000	0.000	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.008	0.027	2.000	0.021	0.027
109 Dodecane	0.000	0.000	0.000	0.004	0.011	0.021	0.000	0.000	0.043	0.037	0.011	0.039	0.014	0.017	0.043	0.400	0.046	0.043
110 1,2,4-Trichlorobenzene	0.012	0.022	0.031	0.035	0.032	0.043	0.044	0.046	0.035	0.022	0.018	0.033	0.031	0.011	0.046	0.400	0.029	0.061
111 Hexachlorobutadiene	0.000	0.000	0.031	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.011	0.031	0.400	0.028	0.031
112 Naphthalene	0.000	0.000	0.008	0.004	0.006	0.014	0.009	0.008	0.007	0.014	0.000	0.005	0.006	0.005	0.014	0.400	0.013	0.014
113 1,2,3-Trichlorobenzene	0.000	0.000	0.034	0.044	0.041	0.041	0.000	0.039	0.000	0.000	0.022	0.038	0.022	0.020	0.044	0.400	0.054	0.044

Reviewer 1 _____ Date: 8/29/24

Reviewer 2 _____ Date: 8/29/24

eurofins | Air Toxics

Client ID:	CCV		
Lab ID:	2410702A-18A	**Date/Time Analyzed:**	11/7/24 11:48 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msda.i / a110703

Compound	CAS#	%Recovery
1,1-Dichloroethene	75-35-4	105
1,4-Dichlorobenzene	106-46-7	96
Benzene	71-43-2	106
cis-1,2-Dichloroethene	156-59-2	108
Ethyl Benzene	100-41-4	101
m,p-Xylene	108-38-3	100
o-Xylene	95-47-6	102
Toluene	108-88-3	101
trans-1,2-Dichloroethene	156-60-5	103
Trichloroethene	79-01-6	100
Vinyl Chloride	75-01-4	129

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	88
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	100

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/07NOV24.b/a110703.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 07-NOV-2024 11:48
Operator : MS Inst ID: msda.i
Smp Info : 100mL 3018-4859A
Misc Info : 50ppbv (100ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/07NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:38 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 100 Bromochloromethane						CAS #: 74-97-5	
5.428	5.428 (1.000)	130	300803	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	234888			46.45- 106.45	78.09
5.428	5.428 (1.000)	49	592965			167.12- 227.12	197.13
* 126 1,4-Difluorobenzene						CAS #: 540-36-3	
6.409	6.409 (1.000)	114	1130282	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	180086			0.00- 46.36	15.93
* 165 Chlorobenzene-d5						CAS #: 3114-55-4	
9.146	9.146 (1.000)	117	1024524	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	579372			27.12- 87.12	56.55
$ 119 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
6.015	6.015 (1.108)	65	459864	25.0000	21.975	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	245379			23.36- 83.36	53.36
$ 152 Toluene-d8						CAS #: 2037-26-5	
7.756	7.756 (1.210)	98	1180231	25.0000	25.044	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	131095			0.00- 41.92	11.11

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.210)	100	804378			39.07- 99.07	68.15
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	646425	25.0000	23.660	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	788803			89.27- 149.27	122.03
10.292	10.292 (1.125)	176	626423			66.29- 126.29	96.91
6 Freon 134a					CAS #: 811-97-2		
1.388	1.388 (0.256)	83	645308	50.0000	49.124	80.00- 120.00	100.00
1.388	1.388 (0.256)	69	566626			41.53- 101.53	87.81
1.388	1.388 (0.256)	63	84391			0.00- 42.30	13.08
8 Propylene					CAS #: 115-07-1		
1.424	1.424 (0.262)	41	690630	50.0000	52.183	80.00- 120.00	100.00
1.424	1.424 (0.262)	42	460495			38.18- 98.18	66.68
1.424	1.424 (0.262)	39	485105			40.18- 100.18	70.24
9 1,1-Difluoroethane					CAS #: 75-37-6		
1.438	1.438 (0.265)	65	426549	50.0000	55.958	80.00- 120.00	100.00
1.481	1.481 (0.273)	51	1636382			362.20- 422.20	383.63
1.438	1.438 (0.265)	47	271108			41.18- 101.18	63.56
10 Freon 12					CAS #: 75-71-8		
1.452	1.452 (0.268)	85	1663181	50.0000	46.426	80.00- 120.00	100.00
1.452	1.452 (0.268)	87	547843			1.90- 61.90	32.94
12 Chlorodifluoromethane					CAS #: 75-45-6		
1.481	1.481 (0.273)	67	178309	50.0000	48.582	80.00- 120.00	100.00(Q)
1.481	1.481 (0.273)	51	1636382			756.67- 816.67	917.72
15 Freon 114					CAS #: 76-14-2		
1.567	1.567 (0.289)	135	1162839	50.0000	48.588	80.00- 120.00	100.00
1.567	1.567 (0.289)	137	369773			1.76- 61.76	31.80
16 Isobutane					CAS #: 75-28-5		
1.574	1.574 (0.290)	43	1553862	50.0000	52.745	80.00- 120.00	100.00
1.574	1.574 (0.290)	42	505373			2.85- 62.85	32.52
1.574	1.574 (0.290)	58	55007			0.00- 33.52	3.54
17 Chloromethane					CAS #: 74-87-3		
1.639	1.639 (0.302)	50	801429	50.0000	63.714	80.00- 120.00	100.00
1.639	1.639 (0.302)	52	261139			2.14- 62.14	32.58
22 Butane					CAS #: 106-97-8		
1.710	1.710 (0.315)	58	177315	50.0000	65.581	80.00- 120.00	100.00(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
22 Butane (continued)							
1.710	1.710 (0.315)	43	1398045			706.79- 766.79	788.45
24 Vinyl Chloride					CAS #: 75-01-4		
1.753	1.753 (0.323)	62	833056	50.0000	64.390	80.00- 120.00	100.00
1.753	1.753 (0.323)	64	260544			0.00- 59.56	31.28
25 1,3-Butadiene					CAS #: 106-99-0		
1.775	1.775 (0.327)	54	750215	50.0000	61.724	80.00- 120.00	100.00
1.768	1.768 (0.326)	39	709577			64.19- 124.19	94.58
29 Bromomethane					CAS #: 74-83-9		
2.104	2.104 (0.388)	94	599730	50.0000	60.304	80.00- 120.00	100.00
2.104	2.104 (0.388)	96	567564			63.72- 123.72	94.64
30 Chloroethane					CAS #: 75-00-3		
2.212	2.212 (0.407)	64	407716	50.0000	58.492	80.00- 120.00	100.00
2.212	2.212 (0.407)	66	120248			0.20- 60.20	29.49
2.212	2.212 (0.407)	49	132932			7.38- 67.38	32.60
31 Isopentane					CAS #: 78-78-4		
2.233	2.233 (0.411)	43	1044660	50.0000	54.371	80.00- 120.00	100.00
2.233	2.233 (0.411)	57	714434			38.61- 98.61	68.39
32 Vinyl Bromide					CAS #: 593-60-2		
2.405	2.405 (0.443)	106	663569	50.0000	54.857	80.00- 120.00	100.00
2.405	2.405 (0.443)	108	622892			62.27- 122.27	93.87
33 Freon 11					CAS #: 75-69-4		
2.448	2.448 (0.451)	101	1806844	50.0000	44.409	80.00- 120.00	100.00
2.448	2.448 (0.451)	103	1181270			35.49- 95.49	65.38
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.455	2.455 (0.452)	67	1553007	50.0000	52.638	80.00- 120.00	100.00
2.455	2.455 (0.452)	69	481276			0.95- 60.95	30.99
37 Pentane					CAS #: 109-66-0		
2.513	2.513 (0.463)	43	1628866	50.0000	54.856	80.00- 120.00	100.00
2.520	2.520 (0.464)	57	254047			0.00- 45.38	15.60
2.513	2.513 (0.463)	72	122694			0.00- 37.02	7.53
42 Ethanol					CAS #: 64-17-5		
2.763	2.763 (0.509)	46	157268	61.1500	58.788	80.00- 120.00	100.00
2.763	2.763 (0.509)	45	409070			225.08- 285.08	260.11
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.562)	55	325821	58.3000	58.294	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Acrolein (continued)							
3.050	3.050 (0.562)	56	455908			109.39- 169.39	139.93
47 Freon 113					CAS #: 76-13-1		
3.057	3.057 (0.563)	151	1173747	50.0000	48.725	80.00- 120.00	100.00
3.057	3.057 (0.563)	153	744917			33.72- 93.72	63.46
3.057	3.057 (0.563)	101	1494103			94.86- 154.86	127.29
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.086	3.086 (0.568)	98	425769	50.0000	52.614	80.00- 120.00	100.00
3.093	3.093 (0.570)	96	666855			127.35- 187.35	156.62
3.086	3.086 (0.568)	61	1429537			327.38- 387.38	335.75
52 Acetone					CAS #: 67-64-1		
3.236	3.236 (0.596)	58	480619	50.0000	52.169	80.00- 120.00	100.00
3.236	3.236 (0.596)	43	1505796			290.16- 350.16	313.30
54 Carbon Disulfide					CAS #: 75-15-0		
3.322	3.322 (0.612)	76	2030883	50.0000	55.284	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.422	3.422 (0.630)	45	1813207	58.3000	55.803	80.00- 120.00	100.00
3.422	3.422 (0.630)	43	327373			0.00- 48.07	18.05
3.422	3.422 (0.630)	59	65900			0.00- 33.65	3.63
58 3-Chloropropene					CAS #: 107-05-1		
3.580	3.580 (0.660)	76	326655	50.0000	55.018	80.00- 120.00	100.00(Q)
3.573	3.573 (0.658)	41	1185355			369.70- 429.70	362.88
60 Acetonitrile					CAS #: 75-05-8		
3.680	3.680 (0.678)	40	442219	57.8000	54.851	80.00- 120.00	100.00
3.680	3.680 (0.678)	41	855060			161.56- 221.56	193.36
3.766	3.766 (0.694)	38	7278			0.00- 31.07	1.65
64 Methylene Chloride					CAS #: 75-09-2		
3.766	3.766 (0.694)	49	1189259	50.0000	51.055	80.00- 120.00	100.00
3.766	3.766 (0.694)	84	618795			18.48- 78.48	52.03
3.766	3.766 (0.694)	51	370442			0.91- 60.91	31.15
70 tert-Butyl alcohol					CAS #: 75-65-0		
3.902	3.902 (0.719)	59	1950533	58.1500	52.553	80.00- 120.00	100.00
3.902	3.902 (0.719)	41	437252			0.00- 51.01	22.42
3.902	3.902 (0.719)	57	203809			0.00- 41.01	10.45
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.995	3.995 (0.736)	73	1873193	50.0000	48.362	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.988	3.988 (0.735)	57	609546			0.93- 60.93	32.54
3.988	3.988 (0.735)	41	571780			0.00- 59.87	30.52
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	445397	50.0000	51.688	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	1344765			282.80- 342.80	301.93
4.024	4.024 (0.741)	96	704884			122.91- 182.91	158.26
74 Acrylonitrile					CAS #: 107-13-1		
4.131	4.131 (0.761)	52	680320	50.0000	50.638	80.00- 120.00	100.00
4.131	4.131 (0.761)	53	810130			88.44- 148.44	119.08
78 Hexane					CAS #: 110-54-3		
4.246	4.246 (0.782)	57	1508942	50.0000	52.141	80.00- 120.00	100.00
4.246	4.246 (0.782)	43	969559			34.01- 94.01	64.25
4.246	4.246 (0.782)	86	166488			0.00- 40.22	11.03
83 1,1-Dichloroethane					CAS #: 75-34-3		
4.547	4.547 (0.838)	63	1543862	50.0000	51.194	80.00- 120.00	100.00
4.547	4.547 (0.838)	65	461086			0.00- 59.58	29.87
82 Isopropyl ether					CAS #: 108-20-3		
4.540	4.540 (0.836)	45	3235746	50.0000	49.890	80.00- 120.00	100.00
4.540	4.540 (0.836)	87	584398			0.00- 47.08	18.06
4.540	4.540 (0.836)	59	353247			0.00- 40.83	10.92
84 Vinyl Acetate					CAS #: 108-05-4		
4.597	4.597 (0.847)	86	182273	58.1000	63.856	80.00- 120.00	100.00(Q)
4.597	4.597 (0.847)	43	2922093			1663.30-1723.30	1603.14
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.919	4.919 (0.906)	59	2855245	50.0000	49.602	80.00- 120.00	100.00
4.927	4.927 (0.908)	87	851710			0.00- 58.78	29.83
4.919	4.919 (0.906)	41	541250			0.00- 48.47	18.96
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.134	5.134 (0.946)	77	1277297	50.0000	44.680	80.00- 120.00	100.00
5.134	5.134 (0.946)	79	415624			2.20- 62.20	32.54
5.134	5.134 (0.946)	97	280111			0.00- 50.29	21.93
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	487171	50.0000	53.934	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	748376			123.49- 183.49	153.62
5.177	5.177 (0.954)	61	1561805			310.35- 370.35	320.59

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
92 2-Butanone					CAS #: 78-93-3		
5.206	5.206 (0.959)	72	363989	50.0000	54.276	80.00- 120.00	100.00(Q)
5.220	5.220 (0.962)	43	4345153			1272.59-1332.59	1193.76
5.206	5.206 (0.959)	57	163086			18.61- 78.61	44.81
93 Ethyl Acetate					CAS #: 141-78-6		
5.227	5.227 (0.963)	70	187781	50.0000	56.939	80.00- 120.00	100.00(Q)
5.177	5.177 (0.954)	61	1561805			877.60- 937.60	831.72
5.227	5.227 (0.963)	45	353466			179.24- 239.24	188.23
99 Tetrahydrofuran					CAS #: 109-99-9		
5.414	5.414 (0.997)	42	1103865	50.0000	49.458	80.00- 120.00	100.00
5.414	5.414 (0.997)	71	316661			0.00- 56.60	28.69
5.414	5.414 (0.997)	72	324813			0.00- 56.86	29.43
103 Chloroform					CAS #: 67-66-3		
5.507	5.507 (1.015)	83	1540375	50.0000	47.255	80.00- 120.00	100.00
5.507	5.507 (1.015)	85	1003135			34.90- 94.90	65.12
104 Cyclohexane					CAS #: 110-82-7		
5.600	5.600 (1.032)	84	898596	50.0000	52.928	80.00- 120.00	100.00
5.600	5.600 (1.032)	56	1573648			152.85- 212.85	175.12
5.600	5.600 (1.032)	41	807064			65.81- 125.81	89.81
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.629	5.629 (1.037)	97	1471106	50.0000	44.066	80.00- 120.00	100.00
5.629	5.629 (1.037)	99	953604			34.79- 94.79	64.82
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.750	5.750 (1.059)	119	1568396	50.0000	42.954	80.00- 120.00	100.00
5.750	5.750 (1.059)	117	1629609			73.63- 133.63	103.90
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.793	5.793 (0.904)	110	394632	50.0000	51.461	80.00- 120.00	100.00
5.793	5.793 (0.904)	75	1117016			260.30- 320.30	283.05
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.972	5.972 (1.100)	57	4820413	50.0000	53.920	80.00- 120.00	100.00
5.972	5.972 (1.100)	56	1541378			2.18- 62.18	31.98
5.972	5.972 (1.100)	41	1134626			0.00- 55.61	23.54
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	2077503	50.0000	53.052	80.00- 120.00	100.00
5.987	5.987 (0.934)	77	492019			0.00- 53.99	23.68
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.073	6.073 (1.119)	87	486268	50.0000	49.747	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.073	6.073 (1.119)	73	1987240			362.99- 422.99	408.67
6.073	6.073 (1.119)	55	758575			122.42- 182.42	156.00
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.094	6.094 (0.951)	62	1186864	50.0000	44.547	80.00- 120.00	100.00
6.094	6.094 (0.951)	64	364877			1.65- 61.65	30.74
122 Heptane					CAS #: 142-82-5		
6.166	6.166 (0.962)	71	751976	50.0000	55.094	80.00- 120.00	100.00
6.166	6.166 (0.962)	43	1815896			240.22- 300.22	241.48
6.166	6.166 (0.962)	57	983390			110.36- 170.36	130.77
128 n-Butanol					CAS #: 71-36-3		
6.617	6.617 (1.032)	56	726405	50.0000	41.895	80.00- 120.00	100.00
6.617	6.617 (1.032)	41	490833			39.42- 99.42	67.57
6.617	6.617 (1.032)	43	402600			25.37- 85.37	55.42
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	994806	50.0000	49.826	80.00- 120.00	100.00
6.617	6.617 (1.032)	130	968479			67.98- 127.98	97.35
6.617	6.617 (1.032)	97	635410			34.45- 94.45	63.87
131 Methylcyclohexane					CAS #: 108-87-2		
6.717	6.717 (1.238)	83	1242118	50.0000	53.330	80.00- 120.00	100.00
6.717	6.717 (1.238)	98	549024			14.33- 74.33	44.20
6.717	6.717 (1.238)	55	1464986			96.87- 156.87	117.94
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.073)	63	1050971	50.0000	52.681	80.00- 120.00	100.00
6.875	6.875 (1.073)	62	747128			41.06- 101.06	71.09
6.875	6.875 (1.073)	41	556728			28.31- 88.31	52.97
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	810307	50.0000	54.238	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	1362214			153.10- 213.10	168.11
6.961	6.961 (0.761)	100	288306			8.18- 68.18	35.58
140 1,4-Dioxane					CAS #: 123-91-1		
6.982	6.982 (1.089)	88	507369	50.0000	49.454	80.00- 120.00	100.00
6.982	6.982 (1.089)	58	502859			74.98- 134.98	99.11
6.982	6.982 (1.089)	57	179044			8.55- 68.55	35.29
141 Dibromomethane					CAS #: 74-95-3		
6.997	6.997 (0.765)	174	941737	50.0000	48.330	80.00- 120.00	100.00
6.997	6.997 (0.765)	93	938975			66.30- 126.30	99.71

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
141 Dibromomethane (continued)							
6.997	6.997 (0.765)	95	779248			49.87- 109.87	82.75
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.114)	83	1651414	50.0000	46.738	80.00- 120.00	100.00
7.140	7.140 (1.114)	85	1071404			34.86- 94.86	64.88
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.563	7.563 (1.180)	75	1441555	50.0000	51.686	80.00- 120.00	100.00
7.563	7.563 (1.180)	77	459688			1.88- 61.88	31.89
7.563	7.563 (1.180)	39	849950			33.29- 93.29	58.96
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.691	7.691 (1.200)	58	954454	50.0000	48.842	80.00- 120.00	100.00
7.691	7.691 (1.200)	43	2482324			235.08- 295.08	260.08
7.691	7.691 (1.200)	85	291038			0.69- 60.69	30.49
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.219)	91	2595247	50.0000	50.451	80.00- 120.00	100.00
7.813	7.813 (1.219)	92	1492750			27.69- 87.69	57.52
151 Octane					CAS #: 111-65-9		
7.842	7.842 (1.224)	57	1056201	50.0000	49.588	80.00- 120.00	100.00
7.842	7.842 (1.224)	85	850594			46.75- 106.75	80.53
7.842	7.842 (1.224)	43	2612848			221.22- 281.22	247.38
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.107	8.107 (0.886)	75	1189836	50.0000	49.134	80.00- 120.00	100.00
8.107	8.107 (0.886)	77	384951			1.61- 61.61	32.35
8.107	8.107 (0.886)	39	661811			26.86- 86.86	55.62
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	924408	50.0000	51.696	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	571461			32.96- 92.96	61.82
8.279	8.279 (0.905)	83	842098			59.05- 119.05	91.10
159 Tetrachloroethene					CAS #: 127-18-4		
8.307	8.307 (0.908)	166	1265799	50.0000	47.378	80.00- 120.00	100.00
8.307	8.307 (0.908)	129	962772			46.43- 106.43	76.06
8.307	8.307 (0.908)	131	950065			45.56- 105.56	75.06
162 2-Hexanone					CAS #: 591-78-6		
8.479	8.479 (0.927)	58	1298241	50.0000	47.968	80.00- 120.00	100.00
8.479	8.479 (0.927)	43	2410632			159.07- 219.07	185.68
8.479	8.479 (0.927)	100	178952			0.00- 43.98	13.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.317)	76	1347635	50.0000	50.207	80.00- 120.00	100.00
8.436	8.436 (1.316)	41	1147909			59.80- 119.80	85.18
8.444	8.444 (1.317)	78	433015			2.58- 62.58	32.13
163 Dibromochloromethane					CAS #: 124-48-1		
8.623	8.623 (0.943)	129	1778437	50.0000	47.546	80.00- 120.00	100.00
8.623	8.623 (0.943)	127	1394550			47.90- 107.90	78.41
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.737	8.737 (0.955)	107	1594879	50.0000	50.004	80.00- 120.00	100.00
8.737	8.737 (0.955)	109	1505789			64.00- 124.00	94.41
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.162)	63	2000678	50.0000	52.433	80.00- 120.00	100.00
7.448	7.448 (1.162)	65	594281			0.00- 58.67	29.70
7.448	7.448 (1.162)	144	170314			0.00- 39.14	8.51
166 Chlorobenzene					CAS #: 108-90-7		
9.174	9.174 (1.003)	112	2126819	50.0000	49.494	80.00- 120.00	100.00
9.174	9.174 (1.003)	114	694701			2.75- 62.75	32.66
9.174	9.174 (1.003)	77	1274273			30.27- 90.27	59.91
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.011)	106	1080395	50.0000	50.703	80.00- 120.00	100.00
9.246	9.246 (1.011)	91	3369326			281.27- 341.27	311.86
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.017)	43	2698965	50.0000	50.427	80.00- 120.00	100.00
9.303	9.303 (1.017)	57	2410845			57.91- 117.91	89.32
9.303	9.303 (1.017)	85	651545			0.00- 52.91	24.14
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	1189339	50.0000	47.260	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	831318			34.91- 94.91	69.90
9.260	9.260 (1.013)	95	462155			10.71- 70.71	38.86
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.360 (1.023)	106	1335590	50.0000	50.346	80.00- 120.00	100.00
9.360	9.360 (1.023)	91	2692810			176.41- 236.41	201.62
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.066)	106	1271562	50.0000	51.232	80.00- 120.00	100.00
9.747	9.747 (1.066)	91	2701115			186.60- 246.60	212.42
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.069)	104	2143529	50.0000	50.751	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.776	9.776 (1.069)	78	1112468			26.08- 86.08	51.90
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	1820761	50.0000	46.800	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	939030			22.58- 82.58	51.57
185 Cumene					CAS #: 98-82-8		
10.084	10.084 (1.103)	105	3875569	50.0000	48.984	80.00- 120.00	100.00
10.084	10.084 (1.103)	120	1023618			0.00- 55.43	26.41
10.084	10.084 (1.103)	51	551824			0.00- 44.39	14.24
189 Cyclohexanone					CAS #: 108-94-1		
10.256	10.256 (1.121)	55	1436895	50.0000	39.041	80.00- 120.00	100.00
10.256	10.256 (1.121)	98	408569			0.00- 57.69	28.43
10.256	10.256 (1.121)	42	879962			32.21- 92.21	61.24
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.145)	83	2225200	50.0000	52.335	80.00- 120.00	100.00
10.471	10.471 (1.145)	85	1418225			35.63- 95.63	63.73
192 Bromobenzene					CAS #: 108-86-1		
10.428	10.428 (1.140)	156	1307834	50.0000	48.088	80.00- 120.00	100.00
10.428	10.428 (1.140)	158	1274813			68.15- 128.15	97.48
10.428	10.428 (1.140)	77	2045460			125.89- 185.89	156.40
196 Propylbenzene					CAS #: 103-65-1		
10.485	10.485 (1.146)	120	1071820	50.0000	50.192	80.00- 120.00	100.00
10.485	10.485 (1.146)	91	4652244			403.96- 463.96	434.05
10.485	10.485 (1.146)	105	174111			0.00- 46.94	16.24
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.150)	110	607790	50.0000	44.472	80.00- 120.00	100.00
10.521	10.521 (1.150)	75	1682126			232.06- 292.06	276.76
10.521	10.521 (1.150)	61	577316			62.53- 122.53	94.99
199 Decane					CAS #: 124-18-5		
10.592	10.592 (1.158)	57	3095235	50.0000	51.670	80.00- 120.00	100.00
10.600	10.600 (1.159)	71	873542			0.00- 56.58	28.22
10.600	10.600 (1.159)	142	96248			0.00- 33.23	3.11
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.159)	120	1161141	50.0000	49.841	80.00- 120.00	100.00
10.600	10.600 (1.159)	105	3918708			317.00- 377.00	337.49
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.160)	126	947167	50.0000	49.298	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.607	10.607 (1.160)	91	3218161			317.25- 377.25	339.77
10.600	10.600 (1.159)	65	534806			32.33- 92.33	56.46
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.664	10.664 (1.166)	120	1549323	50.0000	49.065	80.00- 120.00	100.00
10.664	10.664 (1.166)	105	3276904			190.09- 250.09	211.51
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.901	10.901 (1.192)	118	1532819	50.0000	45.318	80.00- 120.00	100.00
10.901	10.901 (1.192)	103	916417			32.49- 92.49	59.79
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.200)	119	2993279	50.0000	47.216	80.00- 120.00	100.00
10.972	10.972 (1.200)	134	732695			0.00- 53.10	24.48
10.972	10.972 (1.200)	91	2082324			40.97- 100.97	69.57
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.207)	120	1458550	50.0000	49.704	80.00- 120.00	100.00
11.037	11.037 (1.207)	105	3276624			204.98- 264.98	224.65
214 sec-Butylbenzene					CAS #: 135-98-8		
11.187	11.187 (1.223)	134	950677	50.0000	50.104	80.00- 120.00	100.00
11.187	11.187 (1.223)	105	4760663			484.40- 544.40	500.77
11.187	11.187 (1.223)	91	764112			54.94- 114.94	80.38
216 p-Cymene					CAS #: 99-87-6		
11.330	11.330 (1.239)	119	3921239	50.0000	47.236	80.00- 120.00	100.00
11.330	11.330 (1.239)	134	1052943			0.00- 55.89	26.85
11.330	11.330 (1.239)	91	964881			0.00- 56.21	24.61
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.241)	146	2229712	50.0000	48.443	80.00- 120.00	100.00
11.352	11.352 (1.241)	148	1414000			33.67- 93.67	63.42
11.345	11.345 (1.240)	111	940332			13.82- 73.82	42.17
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.251)	146	2252772	50.0000	47.871	80.00- 120.00	100.00
11.445	11.445 (1.251)	148	1418521			34.50- 94.50	62.97
11.445	11.445 (1.251)	111	913980			12.20- 72.20	40.57
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.588	11.588 (1.267)	91	3208885	50.0000	47.859	80.00- 120.00	100.00
11.588	11.588 (1.267)	126	677176			0.00- 50.42	21.10
221 Undecane					CAS #: 1120-21-4		
11.767	11.767 (1.287)	57	3535820	50.0000	50.733	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
221 Undecane (continued)							
11.767	11.767 (1.287)	43	3002107			57.09- 117.09	84.91
220 Butylbenzene					CAS #: 104-51-8		
11.739	11.739 (1.284)	134	1018429	50.0000	49.179	80.00- 120.00	100.00
11.739	11.739 (1.284)	91	3897777			345.70- 405.70	382.72
11.739	11.739 (1.284)	92	2053896			168.03- 228.03	201.67
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.817	11.817 (1.292)	146	2139064	50.0000	47.523	80.00- 120.00	100.00
11.817	11.817 (1.292)	148	1347466			33.89- 93.89	62.99
11.817	11.817 (1.292)	111	937572			15.34- 75.34	43.83
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.620	12.620 (1.380)	157	1420081	50.0000	45.854	80.00- 120.00	100.00
12.620	12.620 (1.380)	75	1275710			65.80- 125.80	89.83
12.620	12.620 (1.380)	155	1103392			47.61- 107.61	77.70
227 Dodecane					CAS #: 112-40-3		
12.856	12.856 (1.406)	57	3848261	50.0000	50.621	80.00- 120.00	100.00
12.849	12.849 (1.405)	43	3058881			50.33- 110.33	79.49
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.400	13.400 (1.465)	180	2217796	56.0500	53.822	80.00- 120.00	100.00
13.400	13.400 (1.465)	182	2122219			65.96- 125.96	95.69
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.508	13.508 (1.477)	225	1808247	56.3500	50.994	80.00- 120.00	100.00
13.508	13.508 (1.477)	223	1133763			33.50- 93.50	62.70
232 Naphthalene					CAS #: 91-20-3		
13.651	13.651 (1.493)	128	478365	5.90000	4.874	80.00- 120.00	100.00
13.651	13.651 (1.493)	127	61224			0.00- 42.81	12.80
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.902	13.902 (1.520)	180	2145375	56.3500	53.968	80.00- 120.00	100.00
13.902	13.902 (1.520)	182	2042509			64.83- 124.83	95.21
13.895	13.895 (1.519)	145	698458			3.99- 63.99	32.56

QC Flag Legend

Q - Qualifier signal failed the ratio test.

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 07-NOV-2024 11:48
Lab File ID: a110703.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/07NOV24.b/a24q0910a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 119 1,2-Dichloroethane-d4	1.73923	1.52879	0.010	12.09969	30.00000	Averaged	
$ 152 Toluene-d8	1.04236	1.04419	0.010	-0.17618	30.00000	Averaged	
$ 191 4-Bromofluorobenzene	0.66667	0.63095	0.010	5.35783	30.00000	Averaged	
6 Freon 134a	1.09178	1.07264	0.010	1.75295	30.00000	Averaged	
8 Propylene	1.09996	1.14798	0.010	-4.36550	30.00000	Averaged	
9 1,1-Difluoroethane	0.63353	0.70902	0.010	-11.91614	30.00000	Averaged	
10 Freon 12	2.97742	2.76457	0.010	7.14886	30.00000	Averaged	
12 Chlorodifluoromethane	0.30504	0.29639	0.010	2.83484	30.00000	Averaged	
15 Freon 114	1.98907	1.93289	0.010	2.82449	30.00000	Averaged	
16 Isobutane	2.44843	2.58286	0.010	-5.49011	30.00000	Averaged	
17 Chloromethane	1.04542	1.33215	0.010	-27.42752	30.00000	Averaged	
22 Butane	0.22471	0.29474	0.010	-31.16270	30.00000	Averaged	<-
24 Vinyl Chloride	1.07526	1.38472	0.010	-28.78004	30.00000	Averaged	
25 1,3-Butadiene	1.01017	1.24702	0.010	-23.44707	30.00000	Averaged	
29 Bromomethane	0.82654	0.99688	0.010	-20.60849	30.00000	Averaged	
30 Chloroethane	0.57932	0.67771	0.010	-16.98471	30.00000	Averaged	
31 Isopentane	1.59686	1.73645	0.010	-8.74179	30.00000	Averaged	
32 Vinyl Bromide	1.00533	1.10300	0.010	-9.71470	30.00000	Averaged	
33 Freon 11	3.38151	3.00337	0.010	11.18253	30.00000	Averaged	
35 Dichlorofluoromethane	2.45207	2.58144	0.010	-5.27574	30.00000	Averaged	
37 Pentane	2.46786	2.70753	0.010	-9.71142	30.00000	Averaged	
42 Ethanol	0.22234	0.21375	0.010	3.86314	30.00000	Averaged	
46 Acrolein	0.46453	0.46448	0.010	0.01034	30.00000	Averaged	
47 Freon 113	2.00207	1.95102	0.010	2.54978	30.00000	Averaged	
49 1,1-Dichloroethene	0.67256	0.70772	0.010	-5.22718	30.00000	Averaged	
52 Acetone	0.76568	0.79889	0.010	-4.33777	30.00000	Averaged	
54 Carbon Disulfide	3.05312	3.37577	0.010	-10.56789	30.00000	Averaged	
57 2-Propanol	2.70052	2.58486	0.010	4.28289	30.00000	Averaged	
58 3-Chloropropene	0.49345	0.54297	0.010	-10.03646	30.00000	Averaged	
60 Acetonitrile	0.67005	0.63587	0.010	5.10128	30.00000	Averaged	
64 Methylene Chloride	1.93597	1.97681	0.010	-2.10955	30.00000	Averaged	
70 tert-Butyl alcohol	3.08468	2.78780	0.010	9.62452	30.00000	Averaged	
72 Methyl tert-butyl ether	3.21909	3.11365	0.010	3.27537	30.00000	Averaged	
73 trans-1,2-Dichloroethene	0.71617	0.74035	0.010	-3.37655	30.00000	Averaged	
74 Acrylonitrile	1.11658	1.13084	0.010	-1.27683	30.00000	Averaged	

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 07-NOV-2024 11:48
Lab File ID: a110703.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/07NOV24.b/a24q0910a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
78 Hexane	2.40518	2.50819	0.010	-4.28300	30.00000	Averaged
83 1,1-Dichloroethane	2.50636	2.56623	0.010	-2.38894	30.00000	Averaged
82 Isopropyl ether	5.39031	5.37851	0.010	0.21889	30.00000	Averaged
84 Vinyl Acetate	0.23723	0.26074	0.010	-9.90779	30.00000	Averaged
88 Ethyl-tert-butyl ether	4.78407	4.74604	0.010	0.79498	30.00000	Averaged
90 2,2-Dichloropropane	2.37592	2.12315	0.010	10.63907	30.00000	Averaged
91 cis-1,2-Dichloroethene	0.75072	0.80978	0.010	-7.86815	30.00000	Averaged
92 2-Butanone	0.55736	0.60503	0.010	-8.55192	30.00000	Averaged
93 Ethyl Acetate	0.27409	0.31213	0.010	-13.87821	30.00000	Averaged
99 Tetrahydrofuran	1.85496	1.83486	0.010	1.08351	30.00000	Averaged
103 Chloroform	2.70918	2.56044	0.010	5.49024	30.00000	Averaged
104 Cyclohexane	1.41104	1.49366	0.010	-5.85558	30.00000	Averaged
106 1,1,1-Trichloroethane	2.77460	2.44530	0.010	11.86854	30.00000	Averaged
112 Carbon Tetrachloride	3.03463	2.60702	0.010	14.09125	30.00000	Averaged
113 1,1-Dichloropropene	0.16962	0.17457	0.010	-2.92177	30.00000	Averaged
117 2,2,4-Trimethylpentane	7.43002	8.01257	0.010	-7.84055	30.00000	Averaged
118 Benzene	0.86615	0.91902	0.010	-6.10347	30.00000	Averaged
120 tert-Amyl methyl ether	0.81240	0.80828	0.010	0.50619	30.00000	Averaged
121 1,2-Dichloroethane	0.58930	0.52503	0.010	10.90653	30.00000	Averaged
122 Heptane	0.30189	0.33265	0.010	-10.18814	30.00000	Averaged
128 n-Butanol	0.38350	0.32134	0.010	16.20980	30.00000	Averaged
129 Trichloroethene	0.44160	0.44007	0.010	0.34691	30.00000	Averaged
131 Methylcyclohexane	1.93576	2.06467	0.010	-6.65931	30.00000	Averaged
135 1,2-Dichloropropane	0.44125	0.46492	0.010	-5.36285	30.00000	Averaged
139 Methyl Methacrylate	0.36455	0.39546	0.010	-8.47646	30.00000	Averaged
140 1,4-Dioxane	0.22692	0.22444	0.010	1.09287	30.00000	Averaged
141 Dibromomethane	0.47548	0.45960	0.010	3.34094	30.00000	Averaged
142 Bromodichloromethane	0.78151	0.73053	0.010	6.52294	30.00000	Averaged
149 cis-1,3-Dichloropropene	0.61690	0.63770	0.010	-3.37120	30.00000	Averaged
150 4-Methyl-2-pentanone	0.43223	0.42222	0.010	2.31696	30.00000	Averaged
153 Toluene	1.13780	1.14805	0.010	-0.90153	30.00000	Averaged
151 Octane	0.47111	0.46723	0.010	0.82465	30.00000	Averaged
154 trans-1,3-Dichloropropene	0.59091	0.58068	0.010	1.73085	30.00000	Averaged
158 1,1,2-Trichloroethane	0.43633	0.45114	0.010	-3.39317	30.00000	Averaged
159 Tetrachloroethene	0.65194	0.61775	0.010	5.24465	30.00000	Averaged

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 07-NOV-2024 11:48
Lab File ID: a110703.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/07NOV24.b/a24q0910a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
162 2-Hexanone	0.66041	0.63358	0.010	4.06283	30.00000	Averaged
161 1,3-Dichloropropane	0.59370	0.59615	0.010	-0.41341	30.00000	Averaged
163 Dibromochloromethane	0.91272	0.86793	0.010	4.90730	30.00000	Averaged
164 1,2-Dibromoethane (EDB)	0.77828	0.77835	0.010	-0.00895	30.00000	Averaged
144 1-Bromo-2-Chloroethane	0.84396	0.88503	0.010	-4.86660	30.00000	Averaged
166 Chlorobenzene	1.04858	1.03795	0.010	1.01290	30.00000	Averaged
167 Ethyl Benzene	0.51996	0.52727	0.010	-1.40576	30.00000	Averaged
170 Nonane	1.30602	1.31718	0.010	-0.85438	30.00000	Averaged
169 1,1,1,2-Tetrachloroethane	0.61409	0.58043	0.010	5.47980	30.00000	Averaged
173 m,p-Xylene	0.64733	0.65181	0.010	-0.69181	30.00000	Averaged
176 o-Xylene	0.60564	0.62056	0.010	-2.46359	30.00000	Averaged
178 Styrene	1.03064	1.04611	0.010	-1.50134	30.00000	Averaged
184 Bromoform	0.94935	0.88859	0.010	6.40057	30.00000	Averaged
185 Cumene	1.93063	1.89140	0.010	2.03187	30.00000	Averaged
189 Cyclohexanone	0.89810	0.70125	0.010	21.91839	30.00000	Averaged
194 1,1,2,2-Tetrachloroethane	1.03751	1.08597	0.010	-4.67015	30.00000	Averaged
192 Bromobenzene	0.66364	0.63826	0.010	3.82444	30.00000	Averaged
196 Propylbenzene	0.52108	0.52308	0.010	-0.38365	30.00000	Averaged
197 1,2,3-Trichloropropane	0.33349	0.29662	0.010	11.05514	30.00000	Averaged
199 Decane	1.46176	1.51057	0.010	-3.33901	30.00000	Averaged
200 4-Ethyltoluene	0.56848	0.56667	0.010	0.31855	30.00000	Averaged
201 2-Chlorotoluene	0.46883	0.46225	0.010	1.40425	30.00000	Averaged
204 1,3,5-Trimethylbenzene	0.77053	0.75612	0.010	1.86985	30.00000	Averaged
209 alpha Methyl Styrene	0.82534	0.74806	0.010	9.36293	30.00000	Averaged
210 tert-Butylbenzene	1.54693	1.46081	0.010	5.56688	30.00000	Averaged
212 1,2,4-Trimethylbenzene	0.71606	0.71182	0.010	0.59291	30.00000	Averaged
214 sec-Butylbenzene	0.46299	0.46396	0.010	-0.20888	30.00000	Averaged
216 p-Cymene	2.02565	1.91369	0.010	5.52735	30.00000	Averaged
217 1,3-Dichlorobenzene	1.12314	1.08817	0.010	3.11382	30.00000	Averaged
218 1,4-Dichlorobenzene	1.14833	1.09942	0.010	4.25872	30.00000	Averaged
219 alpha-Chlorotoluene	1.63610	1.56604	0.010	4.28255	30.00000	Averaged
221 Undecane	1.70065	1.72559	0.010	-1.46636	30.00000	Averaged
220 Butylbenzene	0.50532	0.49703	0.010	1.64139	30.00000	Averaged
222 1,2-Dichlorobenzene	1.09835	1.04393	0.010	4.95448	30.00000	Averaged
226 1,2-Dibromo-3-chloropropane	0.75571	0.69304	0.010	8.29215	30.00000	Averaged
227 Dodecane	1.85502	1.87807	0.010	-1.24248	30.00000	Averaged

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 07-NOV-2024 11:48
Lab File ID: a110703.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/07NOV24.b/a24q0910a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
230 1,2,4-Trichlorobenzene	1.00550	0.96553	0.010	3.97588	30.00000	Averaged
231 Hexachlorobutadiene	0.86528	0.78304	0.010	9.50454	30.00000	Averaged
232 Naphthalene	2.39484	1.97845	0.010	17.38704	30.00000	Averaged
233 1,2,3-Trichlorobenzene	0.97002	0.92902	0.010	4.22631	30.00000	Averaged

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

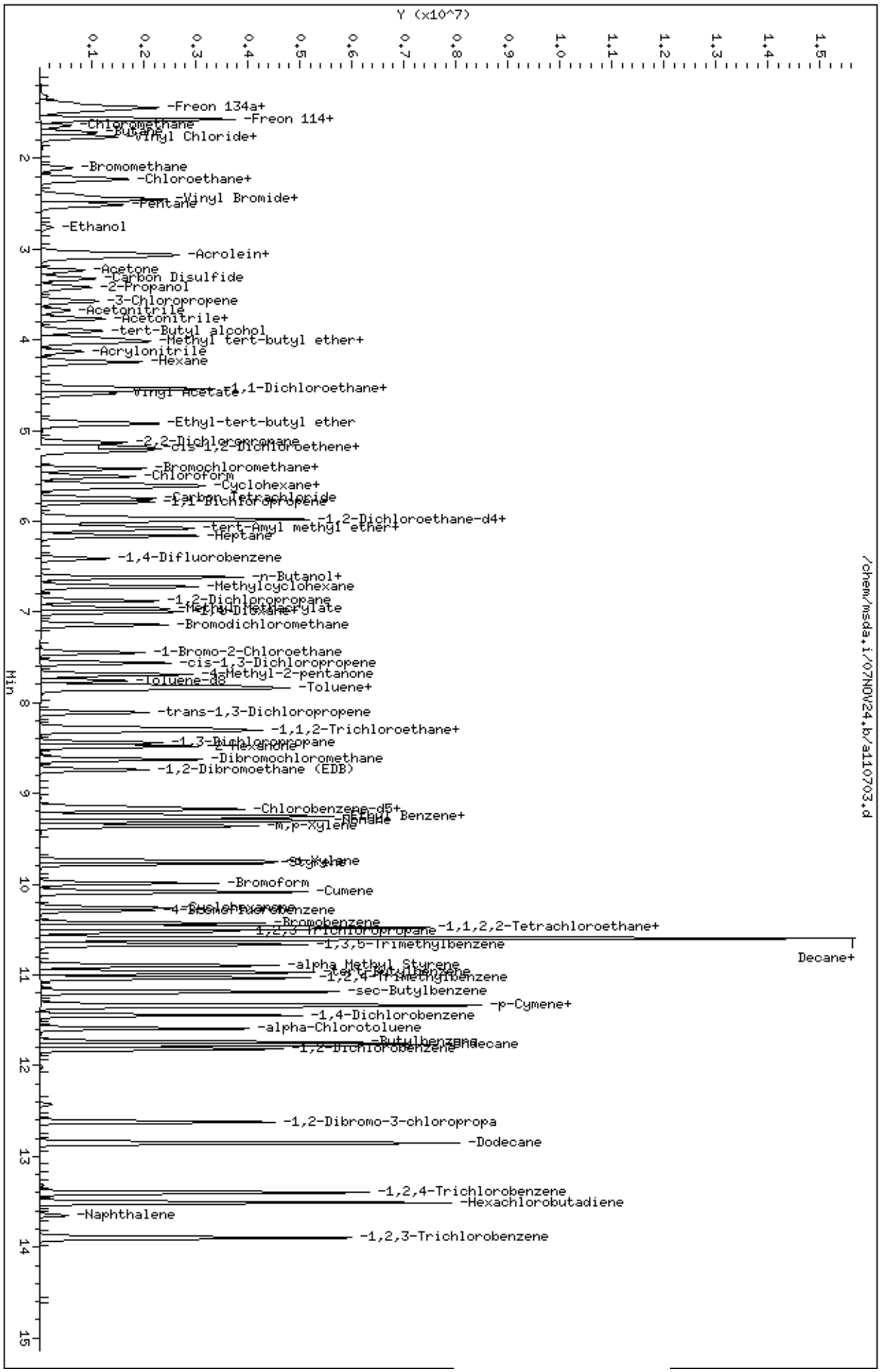
Instrument ID: msda.i
Lab File ID: a110703.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 08-NOV-2024
Calibration Time: 09:15
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	280517	168310	392724	300803	7.23
126 1,4-Difluorobenze	1063598	638159	1489037	1130282	6.27
165 Chlorobenzene-d5	967521	580513	1354529	1024524	5.89

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Data File: /chem/msda.i/07NOV24.b/a110703.d
Date : 07-NOV-2024 11:48
Client ID: CCV
Sample Info: 100mL 3018-4859A
Column phase: RTX-624
Instrument: msda.i
Operator: MS
Column diameter: 0.25
/chem/msda.i/07NOV24.b/a110703.d
Y (x10^7)
Min
-Freon 134a+
-Freon 114+
-Chloromethane
-Butane
-Vinyl Chloride+
-Bromomethane
-Chloroethane+
-Vinyl Bromide+
-Pentane
-Ethanol
-Acrolein+
-Acetone
-Carbon Disulfide
-2-Propanol
-3-Chloropropene
-Acetonitrile
-Acetonitrile+
-tert-Butyl alcohol
-Methyl tert-butyl ether+
-Acrylonitrile
-Hexane
-1,1-Dichloroethane+
-Vinyl Acetate
-Ethyl-tert-butyl ether
-2,2-Dichloropropane
-cis-1,2-Dichloroethene+
-Bromochloromethane+
-Chloroform
-Cyclohexane+
-Carbon Tetrachloride
-1,1-Dichloropropene
-1,2-Dichloroethane-d4+
-tert-Amyl methyl ether+
-Heptane
-1,4-Difluorobenzene
-n-Butanol+
-Methylcyclohexane
-1,2-Dichloropropane
-Bromodichloromethane
-1-Bromo-2-Chloroethane
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene+
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane+
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane (EDB)
-Chlorobenzene-d5+
-Ethylbenzene
-m,p-Xylene
-Bromoform
-Cumene
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-1,3,5-Trimethylbenzene
Decane+
-alpha Methyl Styrene
-sec-Butylbenzene
-p-Cymene+
-1,4-Dichlorobenzene
-alpha-Chlorotoluene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-Dodecane
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

eurofins | Air Toxics

Client ID:	CCV		
Lab ID:	2410702A-18B	**Date/Time Analyzed:**	11/8/24 12:27 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msda.i / a110803

Compound	CAS#	%Recovery
1,1-Dichloroethene	75-35-4	91
1,4-Dichlorobenzene	106-46-7	97
Benzene	71-43-2	106
cis-1,2-Dichloroethene	156-59-2	102
Ethyl Benzene	100-41-4	102
m,p-Xylene	108-38-3	103
o-Xylene	95-47-6	103
Toluene	108-88-3	100
trans-1,2-Dichloroethene	156-60-5	91
Trichloroethene	79-01-6	98
Vinyl Chloride	75-01-4	90

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	84
4-Bromofluorobenzene	460-00-4	70-130	96
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/08NOV24.b/a110803.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 08-NOV-2024 12:27
Operator : MS Inst ID: msda.i
Smp Info : 50mL 3018-4905
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/08NOV24.b/a24q0910a.m
Meth Date : 08-Nov-2024 22:14 ol6p Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane						CAS #: 74-97-5	
5.421	5.421 (1.000)	130	291309	25.0000		80.00- 120.00	100.00
5.421	5.421 (1.000)	128	218740			46.45- 106.45	75.09
5.421	5.421 (1.000)	49	563656			167.12- 227.12	193.49
* 126 1,4-Difluorobenzene						CAS #: 540-36-3	
6.402	6.402 (1.000)	114	982121	25.0000		80.00- 120.00	100.00
6.402	6.402 (1.000)	88	158507			0.00- 46.36	16.14
* 165 Chlorobenzene-d5						CAS #: 3114-55-4	
9.145	9.145 (1.000)	117	925746	25.0000		80.00- 120.00	100.00
9.145	9.145 (1.000)	82	523033			27.12- 87.12	56.50
$ 119 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
6.008	6.008 (1.108)	65	424128	25.0000	20.928	80.00- 120.00	100.00
6.008	6.008 (1.108)	67	226713			23.36- 83.36	53.45
$ 152 Toluene-d8						CAS #: 2037-26-5	
7.749	7.749 (1.210)	98	1033596	25.0000	25.241	80.00- 120.00	100.00
7.749	7.749 (1.210)	70	115581			0.00- 41.92	11.18

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.749	7.749 (1.210)	100	715559			39.07- 99.07	69.23
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	591528	25.0000	23.961	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	717150			89.27- 149.27	121.24
10.292	10.292 (1.125)	176	574162			66.29- 126.29	97.06
6 Freon 134a					CAS #: 811-97-2		
1.366	1.366 (0.252)	83	551344	50.0000	43.338	80.00- 120.00	100.00
1.359	1.359 (0.251)	69	449042			41.53- 101.53	81.44
1.366	1.366 (0.252)	63	72368			0.00- 42.30	13.13
8 Propylene					CAS #: 115-07-1		
1.402	1.402 (0.259)	41	553993	50.0000	43.223	80.00- 120.00	100.00
1.402	1.402 (0.259)	42	372618			38.18- 98.18	67.26
1.402	1.402 (0.259)	39	390585			40.18- 100.18	70.50
9 1,1-Difluoroethane					CAS #: 75-37-6		
1.409	1.409 (0.260)	65	343564	50.0000	46.540	80.00- 120.00	100.00(Q)
1.452	1.452 (0.268)	51	1241672			362.20- 422.20	361.41
1.417	1.417 (0.261)	47	210731			41.18- 101.18	61.34
10 Freon 12					CAS #: 75-71-8		
1.424	1.424 (0.263)	85	1436293	50.0000	41.399	80.00- 120.00	100.00
1.424	1.424 (0.263)	87	465175			1.90- 61.90	32.39
12 Chlorodifluoromethane					CAS #: 75-45-6		
1.460	1.460 (0.269)	67	147916	50.0000	41.615	80.00- 120.00	100.00(Q)
1.452	1.452 (0.268)	51	1241672			756.67- 816.67	839.44
15 Freon 114					CAS #: 76-14-2		
1.538	1.538 (0.284)	135	1010409	50.0000	43.595	80.00- 120.00	100.00
1.538	1.538 (0.284)	137	317279			1.76- 61.76	31.40
16 Isobutane					CAS #: 75-28-5		
1.553	1.553 (0.286)	43	1260120	50.0000	44.168	80.00- 120.00	100.00
1.553	1.553 (0.286)	42	410866			2.85- 62.85	32.61
1.546	1.546 (0.285)	58	44810			0.00- 33.52	3.56
17 Chloromethane					CAS #: 74-87-3		
1.610	1.610 (0.297)	50	549833	50.0000	45.136	80.00- 120.00	100.00
1.610	1.610 (0.297)	52	182736			2.14- 62.14	33.23
22 Butane					CAS #: 106-97-8		
1.682	1.682 (0.310)	58	116557	50.0000	44.514	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
22 Butane (continued)							
1.682	1.682 (0.310)	43	839010			706.79- 766.79	719.83
24 Vinyl Chloride					CAS #: 75-01-4		
1.717	1.717 (0.317)	62	560699	50.0000	44.751	80.00- 120.00	100.00
1.717	1.717 (0.317)	64	165331			0.00- 59.56	29.49
25 1,3-Butadiene					CAS #: 106-99-0		
1.739	1.739 (0.321)	54	569339	50.0000	48.369	80.00- 120.00	100.00
1.739	1.739 (0.321)	39	516959			64.19- 124.19	90.80
29 Bromomethane					CAS #: 74-83-9		
2.083	2.083 (0.384)	94	483554	50.0000	50.207	80.00- 120.00	100.00
2.083	2.083 (0.384)	96	453245			63.72- 123.72	93.73
30 Chloroethane					CAS #: 75-00-3		
2.183	2.183 (0.403)	64	331438	50.0000	49.099	80.00- 120.00	100.00
2.183	2.183 (0.403)	66	100466			0.20- 60.20	30.31
2.183	2.183 (0.403)	49	114452			7.38- 67.38	34.53
31 Isopentane					CAS #: 78-78-4		
2.212	2.212 (0.408)	43	854419	50.0000	45.919	80.00- 120.00	100.00
2.212	2.212 (0.408)	57	600721			38.61- 98.61	70.31
32 Vinyl Bromide					CAS #: 593-60-2		
2.376	2.376 (0.438)	106	554360	50.0000	47.323	80.00- 120.00	100.00
2.376	2.376 (0.438)	108	518069			62.27- 122.27	93.45
33 Freon 11					CAS #: 75-69-4		
2.419	2.419 (0.446)	101	1621824	50.0000	41.160	80.00- 120.00	100.00
2.419	2.419 (0.446)	103	1053896			35.49- 95.49	64.98
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.427	2.427 (0.448)	67	1314225	50.0000	45.996	80.00- 120.00	100.00
2.427	2.427 (0.448)	69	407472			0.95- 60.95	31.00
37 Pentane					CAS #: 109-66-0		
2.491	2.491 (0.460)	43	1335453	50.0000	46.440	80.00- 120.00	100.00
2.491	2.491 (0.460)	57	208585			0.00- 45.38	15.62
2.491	2.491 (0.460)	72	101262			0.00- 37.02	7.58
42 Ethanol					CAS #: 64-17-5		
2.742	2.742 (0.506)	46	129313	61.1500	49.913	80.00- 120.00	100.00
2.742	2.742 (0.506)	45	331740			225.08- 285.08	256.54
46 Acrolein					CAS #: 107-02-8		
3.028	3.028 (0.559)	55	280831	58.3000	51.882	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Acrolein (continued)							
3.028	3.028 (0.559)	56	392693			109.39- 169.39	139.83
47 Freon 113					CAS #: 76-13-1		
3.035	3.035 (0.560)	151	1032357	50.0000	44.252	80.00- 120.00	100.00
3.035	3.035 (0.560)	153	656798			33.72- 93.72	63.62
3.035	3.035 (0.560)	101	1295864			94.86- 154.86	125.52
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.064	3.064 (0.565)	98	356486	50.0000	45.488	80.00- 120.00	100.00
3.064	3.064 (0.565)	96	562659			127.35- 187.35	157.83
3.064	3.064 (0.565)	61	1208460			327.38- 387.38	338.99
52 Acetone					CAS #: 67-64-1		
3.214	3.214 (0.593)	58	395032	50.0000	44.276	80.00- 120.00	100.00
3.214	3.214 (0.593)	43	1185967			290.16- 350.16	300.22
54 Carbon Disulfide					CAS #: 75-15-0		
3.300	3.300 (0.609)	76	1646425	50.0000	46.279	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.408	3.408 (0.629)	45	1449913	58.3000	46.077	80.00- 120.00	100.00
3.408	3.408 (0.629)	43	265075			0.00- 48.07	18.28
3.408	3.408 (0.629)	59	56886			0.00- 33.65	3.92
58 3-Chloropropene					CAS #: 107-05-1		
3.558	3.558 (0.656)	76	268321	50.0000	46.666	80.00- 120.00	100.00(Q)
3.558	3.558 (0.656)	41	986666			369.70- 429.70	367.72
60 Acetonitrile					CAS #: 75-05-8		
3.659	3.659 (0.675)	40	371792	57.8000	47.619	80.00- 120.00	100.00
3.659	3.659 (0.675)	41	703705			161.56- 221.56	189.27
3.752	3.752 (0.692)	38	5124			0.00- 31.07	1.38
64 Methylene Chloride					CAS #: 75-09-2		
3.745	3.745 (0.691)	49	992889	50.0000	44.014	80.00- 120.00	100.00
3.752	3.752 (0.692)	84	511801			18.48- 78.48	51.55
3.752	3.752 (0.692)	51	312474			0.91- 60.91	31.47
70 tert-Butyl alcohol					CAS #: 75-65-0		
3.888	3.888 (0.717)	59	1636822	58.1500	45.538	80.00- 120.00	100.00
3.888	3.888 (0.717)	41	357888			0.00- 51.01	21.86
3.888	3.888 (0.717)	57	175000			0.00- 41.01	10.69
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.981	3.981 (0.734)	73	1612987	50.0000	43.002	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.974	3.974 (0.733)	57	524308			0.93- 60.93	32.51
3.974	3.974 (0.733)	41	478357			0.00- 59.87	29.66
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.010	4.010 (0.740)	98	378058	50.0000	45.303	80.00- 120.00	100.00
4.010	4.010 (0.740)	61	1121863			282.80- 342.80	296.74
4.010	4.010 (0.740)	96	586278			122.91- 182.91	155.08
74 Acrylonitrile					CAS #: 107-13-1		
4.117	4.117 (0.759)	52	577834	50.0000	44.412	80.00- 120.00	100.00
4.117	4.117 (0.759)	53	685423			88.44- 148.44	118.62
78 Hexane					CAS #: 110-54-3		
4.232	4.232 (0.781)	57	1320027	50.0000	47.100	80.00- 120.00	100.00
4.232	4.232 (0.781)	43	840271			34.01- 94.01	63.66
4.232	4.232 (0.781)	86	144443			0.00- 40.22	10.94
83 1,1-Dichloroethane					CAS #: 75-34-3		
4.532	4.532 (0.836)	63	1351554	50.0000	46.278	80.00- 120.00	100.00
4.532	4.532 (0.836)	65	402178			0.00- 59.58	29.76
82 Isopropyl ether					CAS #: 108-20-3		
4.525	4.525 (0.835)	45	2858069	50.0000	45.504	80.00- 120.00	100.00
4.525	4.525 (0.835)	87	512648			0.00- 47.08	17.94
4.525	4.525 (0.835)	59	301947			0.00- 40.83	10.56
84 Vinyl Acetate					CAS #: 108-05-4		
4.583	4.583 (0.845)	86	163597	58.1000	59.181	80.00- 120.00	100.00(Q)
4.583	4.583 (0.845)	43	2648828			1663.30-1723.30	1619.12
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.912	4.912 (0.906)	59	2644575	50.0000	47.440	80.00- 120.00	100.00
4.912	4.912 (0.906)	87	780019			0.00- 58.78	29.50
4.912	4.912 (0.906)	41	500191			0.00- 48.47	18.91
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.120	5.120 (0.944)	77	1198446	50.0000	43.288	80.00- 120.00	100.00
5.120	5.120 (0.944)	79	385174			2.20- 62.20	32.14
5.120	5.120 (0.944)	97	262980			0.00- 50.29	21.94
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.170	5.170 (0.954)	98	446258	50.0000	51.015	80.00- 120.00	100.00
5.170	5.170 (0.954)	96	681693			123.49- 183.49	152.76
5.170	5.170 (0.954)	61	1421156			310.35- 370.35	318.46

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
5.191	5.191 (0.958)	72	325614	50.0000	50.136	80.00- 120.00	100.00(Q)
5.206	5.206 (0.960)	43	4064754			1272.59-1332.59	1248.34
5.191	5.191 (0.958)	57	150461			18.61- 78.61	46.21
93 Ethyl Acetate					CAS #: 141-78-6		
5.220	5.220 (0.963)	70	164582	50.0000	51.531	80.00- 120.00	100.00(Q)
5.170	5.170 (0.954)	61	1421156			877.60- 937.60	863.49
5.220	5.220 (0.963)	45	334029			179.24- 239.24	202.96
99 Tetrahydrofuran					CAS #: 109-99-9		
5.406	5.406 (0.997)	42	1013236	50.0000	46.877	80.00- 120.00	100.00
5.406	5.406 (0.997)	71	285753			0.00- 56.60	28.20
5.406	5.406 (0.997)	72	294217			0.00- 56.86	29.04
103 Chloroform					CAS #: 67-66-3		
5.492	5.492 (1.013)	83	1405450	50.0000	44.521	80.00- 120.00	100.00
5.500	5.500 (1.015)	85	925041			34.90- 94.90	65.82
104 Cyclohexane					CAS #: 110-82-7		
5.593	5.593 (1.032)	84	816569	50.0000	49.664	80.00- 120.00	100.00
5.593	5.593 (1.032)	56	1454230			152.85- 212.85	178.09
5.593	5.593 (1.032)	41	737932			65.81- 125.81	90.37
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.614	5.614 (1.036)	97	1368904	50.0000	42.341	80.00- 120.00	100.00
5.614	5.614 (1.036)	99	888140			34.79- 94.79	64.88
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.743	5.743 (1.059)	119	1457521	50.0000	41.219	80.00- 120.00	100.00
5.743	5.743 (1.059)	117	1521873			73.63- 133.63	104.42
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.779	5.779 (0.903)	110	352902	50.0000	52.962	80.00- 120.00	100.00
5.779	5.779 (0.903)	75	990182			260.30- 320.30	280.58
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.965	5.965 (1.100)	57	4136384	50.0000	47.777	80.00- 120.00	100.00
5.965	5.965 (1.100)	56	1344016			2.18- 62.18	32.49
5.965	5.965 (1.100)	41	989306			0.00- 55.61	23.92
118 Benzene					CAS #: 71-43-2		
5.979	5.979 (0.934)	78	1803527	50.0000	53.003	80.00- 120.00	100.00
5.979	5.979 (0.934)	77	425991			0.00- 53.99	23.62
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.065	6.065 (1.119)	87	423987	50.0000	44.789	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.065	6.065 (1.119)	73	1721801			362.99- 422.99	406.10
6.065	6.065 (1.119)	55	664035			122.42- 182.42	156.62
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.087	6.087 (0.951)	62	1057596	50.0000	45.683	80.00- 120.00	100.00
6.080	6.080 (0.950)	64	331318			1.65- 61.65	31.33
122 Heptane					CAS #: 142-82-5		
6.158	6.158 (0.962)	71	629247	50.0000	53.057	80.00- 120.00	100.00
6.158	6.158 (0.962)	43	1553574			240.22- 300.22	246.89
6.158	6.158 (0.962)	57	845661			110.36- 170.36	134.39
128 n-Butanol					CAS #: 71-36-3		
6.610	6.610 (1.032)	56	677216	50.0000	44.950	80.00- 120.00	100.00
6.610	6.610 (1.032)	41	457841			39.42- 99.42	67.61
6.610	6.610 (1.032)	43	374236			25.37- 85.37	55.26
129 Trichloroethene					CAS #: 79-01-6		
6.610	6.610 (1.032)	95	853172	50.0000	49.179	80.00- 120.00	100.00
6.610	6.610 (1.032)	130	844043			67.98- 127.98	98.93
6.610	6.610 (1.032)	97	553361			34.45- 94.45	64.86
131 Methylcyclohexane					CAS #: 108-87-2		
6.717	6.717 (1.239)	83	1029458	50.0000	45.640	80.00- 120.00	100.00
6.717	6.717 (1.239)	98	469435			14.33- 74.33	45.60
6.717	6.717 (1.239)	55	1245020			96.87- 156.87	120.94
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.868	6.868 (1.073)	63	875870	50.0000	50.528	80.00- 120.00	100.00
6.868	6.868 (1.073)	62	635349			41.06- 101.06	72.54
6.868	6.868 (1.073)	41	457373			28.31- 88.31	52.22
139 Methyl Methacrylate					CAS #: 80-62-6		
6.954	6.954 (0.760)	69	699815	50.0000	51.840	80.00- 120.00	100.00
6.954	6.954 (0.760)	41	1156546			153.10- 213.10	165.26
6.954	6.954 (0.760)	100	254516			8.18- 68.18	36.37
140 1,4-Dioxane					CAS #: 123-91-1		
6.975	6.975 (1.089)	88	405625	50.0000	45.501	80.00- 120.00	100.00
6.975	6.975 (1.089)	58	415710			74.98- 134.98	102.49
6.975	6.975 (1.089)	57	148572			8.55- 68.55	36.63
141 Dibromomethane					CAS #: 74-95-3		
6.997	6.997 (0.765)	174	844450	50.0000	47.961	80.00- 120.00	100.00
6.989	6.989 (0.764)	93	816044			66.30- 126.30	96.64

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
141 Dibromomethane (continued)							
6.989	6.989 (0.764)	95	672694			49.87- 109.87	79.66
142 Bromodichloromethane					CAS #: 75-27-4		
7.133	7.133 (1.114)	83	1454911	50.0000	47.389	80.00- 120.00	100.00
7.133	7.133 (1.114)	85	934104			34.86- 94.86	64.20
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.555	7.555 (1.180)	75	1231772	50.0000	50.826	80.00- 120.00	100.00
7.555	7.555 (1.180)	77	392820			1.88- 61.88	31.89
7.555	7.555 (1.180)	39	711000			33.29- 93.29	57.72
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.684	7.684 (1.200)	58	851686	50.0000	50.157	80.00- 120.00	100.00
7.684	7.684 (1.200)	43	2146559			235.08- 295.08	252.04
7.691	7.691 (1.201)	85	263952			0.69- 60.69	30.99
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.220)	91	2248062	50.0000	50.294	80.00- 120.00	100.00
7.813	7.813 (1.220)	92	1297634			27.69- 87.69	57.72
151 Octane					CAS #: 111-65-9		
7.842	7.842 (1.225)	57	914016	50.0000	49.386	80.00- 120.00	100.00
7.842	7.842 (1.225)	85	742996			46.75- 106.75	81.29
7.842	7.842 (1.225)	43	2287132			221.22- 281.22	250.23
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.107	8.107 (0.886)	75	1060018	50.0000	48.444	80.00- 120.00	100.00
8.107	8.107 (0.886)	77	340391			1.61- 61.61	32.11
8.107	8.107 (0.886)	39	562048			26.86- 86.86	53.02
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	811193	50.0000	50.206	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	507981			32.96- 92.96	62.62
8.279	8.279 (0.905)	83	739438			59.05- 119.05	91.15
159 Tetrachloroethene					CAS #: 127-18-4		
8.307	8.307 (0.908)	166	1144368	50.0000	47.403	80.00- 120.00	100.00
8.307	8.307 (0.908)	129	878443			46.43- 106.43	76.76
8.307	8.307 (0.908)	131	868387			45.56- 105.56	75.88
162 2-Hexanone					CAS #: 591-78-6		
8.479	8.479 (0.927)	58	1241563	50.0000	50.769	80.00- 120.00	100.00
8.479	8.479 (0.927)	43	2275847			159.07- 219.07	183.30
8.479	8.479 (0.927)	100	170837			0.00- 43.98	13.76

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.436	8.436 (1.318)	76	1199270	50.0000	51.420	80.00- 120.00	100.00
8.436	8.436 (1.318)	41	1047150			59.80- 119.80	87.32
8.436	8.436 (1.318)	78	389867			2.58- 62.58	32.51
163 Dibromochloromethane					CAS #: 124-48-1		
8.623	8.623 (0.943)	129	1640021	50.0000	48.524	80.00- 120.00	100.00
8.623	8.623 (0.943)	127	1275069			47.90- 107.90	77.75
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.737	8.737 (0.955)	107	1438603	50.0000	49.917	80.00- 120.00	100.00
8.737	8.737 (0.955)	109	1362094			64.00- 124.00	94.68
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.441	7.441 (1.162)	63	1692525	50.0000	51.049	80.00- 120.00	100.00
7.441	7.441 (1.162)	65	501789			0.00- 58.67	29.65
7.441	7.441 (1.162)	144	148841			0.00- 39.14	8.79
166 Chlorobenzene					CAS #: 108-90-7		
9.174	9.174 (1.003)	112	1927548	50.0000	49.642	80.00- 120.00	100.00
9.174	9.174 (1.003)	114	624236			2.75- 62.75	32.38
9.174	9.174 (1.003)	77	1147270			30.27- 90.27	59.52
167 Ethyl Benzene					CAS #: 100-41-4		
9.239	9.239 (1.010)	106	981306	50.0000	50.966	80.00- 120.00	100.00
9.239	9.239 (1.010)	91	3065742			281.27- 341.27	312.41
170 Nonane					CAS #: 111-84-2		
9.296	9.296 (1.016)	43	2459932	50.0000	50.865	80.00- 120.00	100.00
9.296	9.296 (1.016)	57	2197040			57.91- 117.91	89.31
9.303	9.303 (1.017)	85	597497			0.00- 52.91	24.29
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.260	9.260 (1.013)	131	1098083	50.0000	48.290	80.00- 120.00	100.00
9.260	9.260 (1.013)	117	759085			34.91- 94.91	69.13
9.260	9.260 (1.013)	95	436416			10.71- 70.71	39.74
173 m,p-Xylene					CAS #: 108-38-3		
9.353	9.353 (1.023)	106	1233531	50.0000	51.460	80.00- 120.00	100.00
9.353	9.353 (1.023)	91	2492626			176.41- 236.41	202.07
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.066)	106	1157348	50.0000	51.606	80.00- 120.00	100.00
9.747	9.747 (1.066)	91	2439202			186.60- 246.60	210.76
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.069)	104	1948406	50.0000	51.053	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.769	9.769 (1.068)	78	1034449			26.08- 86.08	53.09
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	1684252	50.0000	47.910	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	881216			22.58- 82.58	52.32
185 Cumene					CAS #: 98-82-8		
10.084	10.084 (1.103)	105	3566829	50.0000	49.892	80.00- 120.00	100.00
10.084	10.084 (1.103)	120	926787			0.00- 55.43	25.98
10.084	10.084 (1.103)	51	491876			0.00- 44.39	13.79
189 Cyclohexanone					CAS #: 108-94-1		
10.256	10.256 (1.121)	55	1484564	50.0000	44.640	80.00- 120.00	100.00
10.256	10.256 (1.121)	98	428903			0.00- 57.69	28.89
10.256	10.256 (1.121)	42	911360			32.21- 92.21	61.39
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.145)	83	1935731	50.0000	50.385	80.00- 120.00	100.00
10.471	10.471 (1.145)	85	1269470			35.63- 95.63	65.58
192 Bromobenzene					CAS #: 108-86-1		
10.428	10.428 (1.140)	156	1206567	50.0000	49.098	80.00- 120.00	100.00
10.428	10.428 (1.140)	158	1168020			68.15- 128.15	96.81
10.428	10.428 (1.140)	77	1834453			125.89- 185.89	152.04
196 Propylbenzene					CAS #: 103-65-1		
10.485	10.485 (1.146)	120	975066	50.0000	50.533	80.00- 120.00	100.00
10.485	10.485 (1.146)	91	4178900			403.96- 463.96	428.58
10.485	10.485 (1.146)	105	161031			0.00- 46.94	16.51
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.150)	110	574274	50.0000	46.504	80.00- 120.00	100.00
10.521	10.521 (1.150)	75	1497595			232.06- 292.06	260.78
10.521	10.521 (1.150)	61	513263			62.53- 122.53	89.38
199 Decane					CAS #: 124-18-5		
10.592	10.592 (1.158)	57	2778945	50.0000	51.339	80.00- 120.00	100.00
10.592	10.592 (1.158)	71	750598			0.00- 56.58	27.01
10.600	10.600 (1.159)	142	88052			0.00- 33.23	3.17
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.159)	120	1030874	50.0000	48.970	80.00- 120.00	100.00
10.600	10.600 (1.159)	105	3596430			317.00- 377.00	348.87
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.160)	126	845849	50.0000	48.722	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.600	10.600 (1.159)	91	2912738			317.25- 377.25	344.36
10.600	10.600 (1.159)	65	495816			32.33- 92.33	58.62
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.664	10.664 (1.166)	120	1424407	50.0000	49.922	80.00- 120.00	100.00
10.664	10.664 (1.166)	105	3037602			190.09- 250.09	213.25
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.900	10.900 (1.192)	118	1562644	50.0000	51.130	80.00- 120.00	100.00
10.900	10.900 (1.192)	103	955875			32.49- 92.49	61.17
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.200)	119	2791810	50.0000	48.738	80.00- 120.00	100.00
10.972	10.972 (1.200)	134	656924			0.00- 53.10	23.53
10.972	10.972 (1.200)	91	1916375			40.97- 100.97	68.64
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.207)	120	1351225	50.0000	50.959	80.00- 120.00	100.00
11.037	11.037 (1.207)	105	3072872			204.98- 264.98	227.41
214 sec-Butylbenzene					CAS #: 135-98-8		
11.187	11.187 (1.223)	134	867735	50.0000	50.613	80.00- 120.00	100.00
11.187	11.187 (1.223)	105	4378177			484.40- 544.40	504.55
11.187	11.187 (1.223)	91	700293			54.94- 114.94	80.70
216 p-Cymene					CAS #: 99-87-6		
11.330	11.330 (1.239)	119	3667738	50.0000	48.897	80.00- 120.00	100.00
11.330	11.330 (1.239)	134	964062			0.00- 55.89	26.28
11.330	11.330 (1.239)	91	913760			0.00- 56.21	24.91
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.345	11.345 (1.240)	146	2016032	50.0000	48.474	80.00- 120.00	100.00
11.345	11.345 (1.240)	148	1284671			33.67- 93.67	63.72
11.345	11.345 (1.240)	111	859392			13.82- 73.82	42.63
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.251)	146	2061344	50.0000	48.477	80.00- 120.00	100.00
11.445	11.445 (1.251)	148	1317214			34.50- 94.50	63.90
11.445	11.445 (1.251)	111	852850			12.20- 72.20	41.37
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.588	11.588 (1.267)	91	3002271	50.0000	49.555	80.00- 120.00	100.00
11.588	11.588 (1.267)	126	627327			0.00- 50.42	20.90
221 Undecane					CAS #: 1120-21-4		
11.767	11.767 (1.287)	57	3299996	50.0000	52.402	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
221 Undecane (continued)							
11.767	11.767 (1.287)	43	2796156			57.09- 117.09	84.73
220 Butylbenzene					CAS #: 104-51-8		
11.739	11.739 (1.284)	134	941320	50.0000	50.306	80.00- 120.00	100.00
11.739	11.739 (1.284)	91	3605402			345.70- 405.70	383.02
11.739	11.739 (1.284)	92	1890604			168.03- 228.03	200.85
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.817	11.817 (1.292)	146	1981876	50.0000	48.729	80.00- 120.00	100.00
11.817	11.817 (1.292)	148	1262378			33.89- 93.89	63.70
11.817	11.817 (1.292)	111	872428			15.34- 75.34	44.02
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.620	12.620 (1.380)	157	1358872	50.0000	48.559	80.00- 120.00	100.00
12.620	12.620 (1.380)	75	1248148			65.80- 125.80	91.85
12.620	12.620 (1.380)	155	1063180			47.61- 107.61	78.24
227 Dodecane					CAS #: 112-40-3		
12.849	12.849 (1.405)	57	3816534	50.0000	55.561	80.00- 120.00	100.00
12.849	12.849 (1.405)	43	3033957			50.33- 110.33	79.50
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.400	13.400 (1.465)	180	2048263	56.0500	55.011	80.00- 120.00	100.00
13.400	13.400 (1.465)	182	1974806			65.96- 125.96	96.41
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.508	13.508 (1.477)	225	1668940	56.3500	52.088	80.00- 120.00	100.00
13.508	13.508 (1.477)	223	1062534			33.50- 93.50	63.67
232 Naphthalene					CAS #: 91-20-3		
13.651	13.651 (1.493)	128	497491	5.90000	5.610	80.00- 120.00	100.00
13.651	13.651 (1.493)	127	62118			0.00- 42.81	12.49
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.902	13.902 (1.520)	180	1981581	56.3500	55.167	80.00- 120.00	100.00
13.902	13.902 (1.520)	182	1893756			64.83- 124.83	95.57
13.895	13.895 (1.519)	145	649824			3.99- 63.99	32.79

QC Flag Legend

Q - Qualifier signal failed the ratio test.

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 08-NOV-2024 12:27
Lab File ID: a110803.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/08NOV24.b/a24q0910a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 119 1,2-Dichloroethane-d4	1.73923	1.45594	0.010	16.28830	30.00000	Averaged
$ 152 Toluene-d8	1.04236	1.05241	0.010	-0.96482	30.00000	Averaged
$ 191 4-Bromofluorobenzene	0.66667	0.63897	0.010	4.15441	30.00000	Averaged
6 Freon 134a	1.09178	0.94632	0.010	13.32310	30.00000	Averaged
8 Propylene	1.09996	0.95087	0.010	13.55417	30.00000	Averaged
9 1,1-Difluoroethane	0.63353	0.58969	0.010	6.91929	30.00000	Averaged
10 Freon 12	2.97742	2.46524	0.010	17.20216	30.00000	Averaged
12 Chlorodifluoromethane	0.30504	0.25388	0.010	16.76984	30.00000	Averaged
15 Freon 114	1.98907	1.73426	0.010	12.81080	30.00000	Averaged
16 Isobutane	2.44843	2.16286	0.010	11.66365	30.00000	Averaged
17 Chloromethane	1.04542	0.94373	0.010	9.72714	30.00000	Averaged
22 Butane	0.22471	0.20006	0.010	10.97100	30.00000	Averaged
24 Vinyl Chloride	1.07526	0.96238	0.010	10.49807	30.00000	Averaged
25 1,3-Butadiene	1.01017	0.97721	0.010	3.26264	30.00000	Averaged
29 Bromomethane	0.82654	0.82997	0.010	-0.41425	30.00000	Averaged
30 Chloroethane	0.57932	0.56888	0.010	1.80216	30.00000	Averaged
31 Isopentane	1.59686	1.46652	0.010	8.16237	30.00000	Averaged
32 Vinyl Bromide	1.00533	0.95150	0.010	5.35474	30.00000	Averaged
33 Freon 11	3.38151	2.78368	0.010	17.67917	30.00000	Averaged
35 Dichlorofluoromethane	2.45207	2.25572	0.010	8.00740	30.00000	Averaged
37 Pentane	2.46786	2.29216	0.010	7.11976	30.00000	Averaged
42 Ethanol	0.22234	0.18148	0.010	18.37559	30.00000	Averaged
46 Acrolein	0.46453	0.41339	0.010	11.00834	30.00000	Averaged
47 Freon 113	2.00207	1.77193	0.010	11.49527	30.00000	Averaged
49 1,1-Dichloroethene	0.67256	0.61187	0.010	9.02447	30.00000	Averaged
52 Acetone	0.76568	0.67803	0.010	11.44743	30.00000	Averaged
54 Carbon Disulfide	3.05312	2.82591	0.010	7.44192	30.00000	Averaged
57 2-Propanol	2.70052	2.13432	0.010	20.96628	30.00000	Averaged
58 3-Chloropropene	0.49345	0.46054	0.010	6.66808	30.00000	Averaged
60 Acetonitrile	0.67005	0.55202	0.010	17.61441	30.00000	Averaged
64 Methylene Chloride	1.93597	1.70419	0.010	11.97240	30.00000	Averaged
70 tert-Butyl alcohol	3.08468	2.41567	0.010	21.68823	30.00000	Averaged
72 Methyl tert-butyl ether	3.21909	2.76852	0.010	13.99699	30.00000	Averaged
73 trans-1,2-Dichloroethene	0.71617	0.64890	0.010	9.39306	30.00000	Averaged
74 Acrylonitrile	1.11658	0.99179	0.010	11.17644	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 08-NOV-2024 12:27
Lab File ID: a110803.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/08NOV24.b/a24q0910a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
78 Hexane	2.40518	2.26568	0.010	5.79975	30.00000	Averaged
83 1,1-Dichloroethane	2.50636	2.31979	0.010	7.44364	30.00000	Averaged
82 Isopropyl ether	5.39031	4.90556	0.010	8.99298	30.00000	Averaged
84 Vinyl Acetate	0.23723	0.24165	0.010	-1.86142	30.00000	Averaged
88 Ethyl-tert-butyl ether	4.78407	4.53912	0.010	5.12005	30.00000	Averaged
90 2,2-Dichloropropane	2.37592	2.05700	0.010	13.42300	30.00000	Averaged
91 cis-1,2-Dichloroethene	0.75072	0.76595	0.010	-2.02958	30.00000	Averaged
92 2-Butanone	0.55736	0.55888	0.010	-0.27221	30.00000	Averaged
93 Ethyl Acetate	0.27409	0.28249	0.010	-3.06224	30.00000	Averaged
99 Tetrahydrofuran	1.85496	1.73911	0.010	6.24561	30.00000	Averaged
103 Chloroform	2.70918	2.41230	0.010	10.95822	30.00000	Averaged
104 Cyclohexane	1.41104	1.40155	0.010	0.67229	30.00000	Averaged
106 1,1,1-Trichloroethane	2.77460	2.34957	0.010	15.31856	30.00000	Averaged
112 Carbon Tetrachloride	3.03463	2.50168	0.010	17.56252	30.00000	Averaged
113 1,1-Dichloropropene	0.16962	0.17966	0.010	-5.92315	30.00000	Averaged
117 2,2,4-Trimethylpentane	7.43002	7.09965	0.010	4.44642	30.00000	Averaged
118 Benzene	0.86615	0.91818	0.010	-6.00647	30.00000	Averaged
120 tert-Amyl methyl ether	0.81240	0.72773	0.010	10.42204	30.00000	Averaged
121 1,2-Dichloroethane	0.58930	0.53842	0.010	8.63360	30.00000	Averaged
122 Heptane	0.30189	0.32035	0.010	-6.11428	30.00000	Averaged
128 n-Butanol	0.38350	0.34477	0.010	10.09923	30.00000	Averaged
129 Trichloroethene	0.44160	0.43435	0.010	1.64175	30.00000	Averaged
131 Methylcyclohexane	1.93576	1.76695	0.010	8.72060	30.00000	Averaged
135 1,2-Dichloropropane	0.44125	0.44591	0.010	-1.05510	30.00000	Averaged
139 Methyl Methacrylate	0.36455	0.37797	0.010	-3.68107	30.00000	Averaged
140 1,4-Dioxane	0.22692	0.20650	0.010	8.99815	30.00000	Averaged
141 Dibromomethane	0.47548	0.45609	0.010	4.07823	30.00000	Averaged
142 Bromodichloromethane	0.78151	0.74070	0.010	5.22205	30.00000	Averaged
149 cis-1,3-Dichloropropene	0.61690	0.62710	0.010	-1.65307	30.00000	Averaged
150 4-Methyl-2-pentanone	0.43223	0.43360	0.010	-0.31491	30.00000	Averaged
153 Toluene	1.13780	1.14449	0.010	-0.58869	30.00000	Averaged
151 Octane	0.47111	0.46533	0.010	1.22825	30.00000	Averaged
154 trans-1,3-Dichloropropene	0.59091	0.57252	0.010	3.11119	30.00000	Averaged
158 1,1,2-Trichloroethane	0.43633	0.43813	0.010	-0.41131	30.00000	Averaged
159 Tetrachloroethene	0.65194	0.61808	0.010	5.19418	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 08-NOV-2024 12:27
Lab File ID: a110803.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/08NOV24.b/a24q0910a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
162 2-Hexanone	0.66041	0.67057	0.010	-1.53848	30.00000	Averaged
161 1,3-Dichloropropane	0.59370	0.61055	0.010	-2.83908	30.00000	Averaged
163 Dibromochloromethane	0.91272	0.88578	0.010	2.95160	30.00000	Averaged
164 1,2-Dibromoethane (EDB)	0.77828	0.77700	0.010	0.16510	30.00000	Averaged
144 1-Bromo-2-Chloroethane	0.84396	0.86167	0.010	-2.09793	30.00000	Averaged
166 Chlorobenzene	1.04858	1.04108	0.010	0.71502	30.00000	Averaged
167 Ethyl Benzene	0.51996	0.53001	0.010	-1.93300	30.00000	Averaged
170 Nonane	1.30602	1.32862	0.010	-1.73044	30.00000	Averaged
169 1,1,1,2-Tetrachloroethane	0.61409	0.59308	0.010	3.42062	30.00000	Averaged
173 m,p-Xylene	0.64733	0.66624	0.010	-2.92038	30.00000	Averaged
176 o-Xylene	0.60564	0.62509	0.010	-3.21108	30.00000	Averaged
178 Styrene	1.03064	1.05234	0.010	-2.10621	30.00000	Averaged
184 Bromoform	0.94935	0.90967	0.010	4.17968	30.00000	Averaged
185 Cumene	1.93063	1.92646	0.010	0.21576	30.00000	Averaged
189 Cyclohexanone	0.89810	0.80182	0.010	10.72025	30.00000	Averaged
194 1,1,2,2-Tetrachloroethane	1.03751	1.04550	0.010	-0.76950	30.00000	Averaged
192 Bromobenzene	0.66364	0.65167	0.010	1.80399	30.00000	Averaged
196 Propylbenzene	0.52108	0.52664	0.010	-1.06608	30.00000	Averaged
197 1,2,3-Trichloropropane	0.33349	0.31017	0.010	6.99276	30.00000	Averaged
199 Decane	1.46176	1.50092	0.010	-2.67883	30.00000	Averaged
200 4-Ethyltoluene	0.56848	0.55678	0.010	2.05883	30.00000	Averaged
201 2-Chlorotoluene	0.46883	0.45685	0.010	2.55607	30.00000	Averaged
204 1,3,5-Trimethylbenzene	0.77053	0.76933	0.010	0.15533	30.00000	Averaged
209 alpha Methyl Styrene	0.82534	0.84399	0.010	-2.25989	30.00000	Averaged
210 tert-Butylbenzene	1.54693	1.50787	0.010	2.52499	30.00000	Averaged
212 1,2,4-Trimethylbenzene	0.71606	0.72980	0.010	-1.91873	30.00000	Averaged
214 sec-Butylbenzene	0.46299	0.46867	0.010	-1.22566	30.00000	Averaged
216 p-Cymene	2.02565	1.98096	0.010	2.20619	30.00000	Averaged
217 1,3-Dichlorobenzene	1.12314	1.08887	0.010	3.05157	30.00000	Averaged
218 1,4-Dichlorobenzene	1.14833	1.11334	0.010	3.04666	30.00000	Averaged
219 alpha-Chlorotoluene	1.63610	1.62154	0.010	0.89007	30.00000	Averaged
221 Undecane	1.70065	1.78234	0.010	-4.80346	30.00000	Averaged
220 Butylbenzene	0.50532	0.50841	0.010	-0.61186	30.00000	Averaged
222 1,2-Dichlorobenzene	1.09835	1.07042	0.010	2.54264	30.00000	Averaged
226 1,2-Dibromo-3-chloropropane	0.75571	0.73393	0.010	2.88144	30.00000	Averaged
227 Dodecane	1.85502	2.06133	0.010	-11.12139	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 08-NOV-2024 12:27
Lab File ID: a110803.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/08NOV24.b/a24q0910a.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
230 1,2,4-Trichlorobenzene	1.00550	0.98687	0.010	1.85352	30.00000	Averaged
231 Hexachlorobutadiene	0.86528	0.79982	0.010	7.56423	30.00000	Averaged
232 Naphthalene	2.39484	2.27710	0.010	4.91669	30.00000	Averaged
233 1,2,3-Trichlorobenzene	0.97002	0.94966	0.010	2.09945	30.00000	Averaged

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

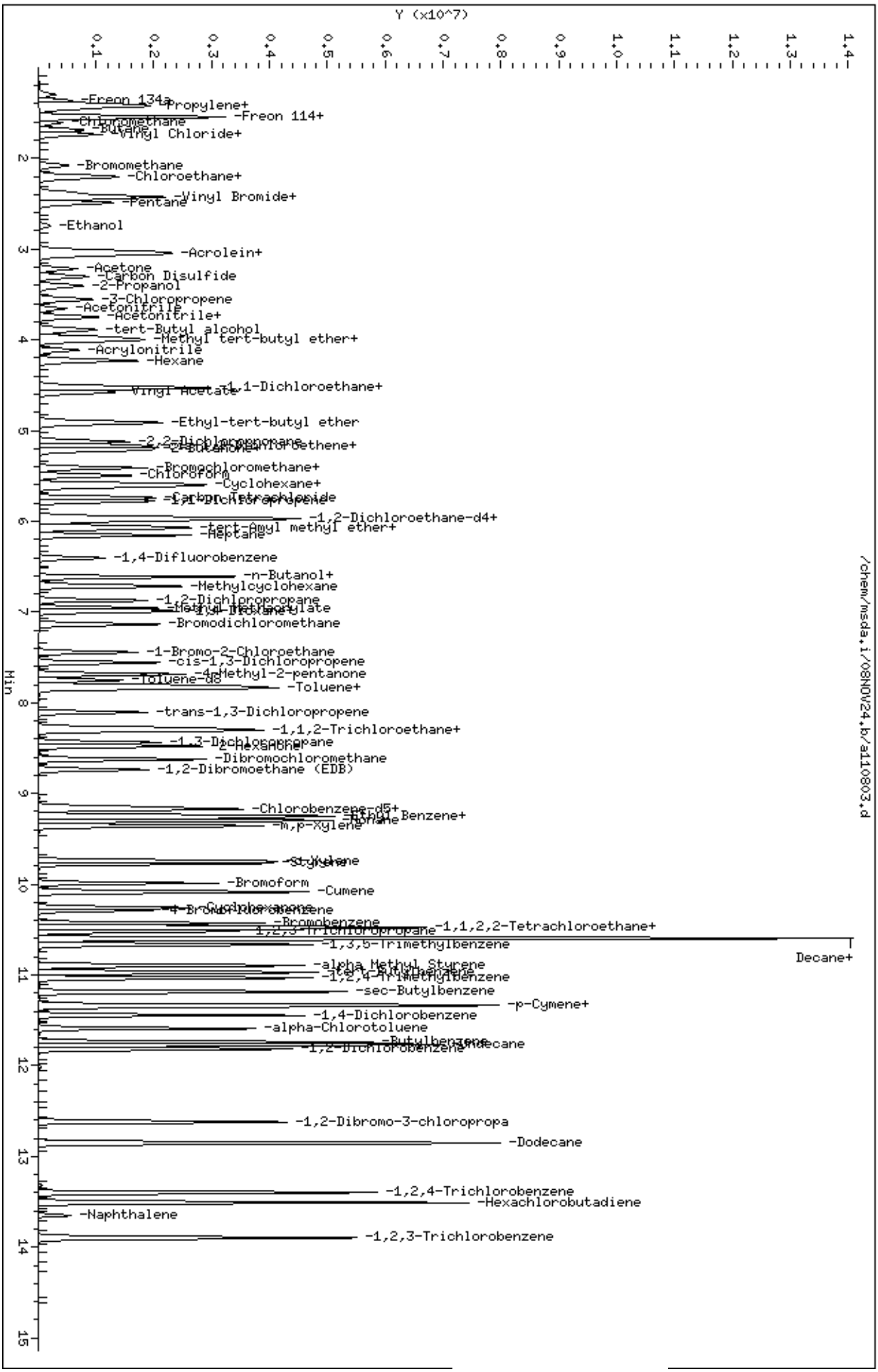
Instrument ID: msda.i
Lab File ID: a110803.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 08-NOV-2024
Calibration Time: 21:45
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	273973	164384	383562	291309	6.33
126 1,4-Difluorobenze	1022849	613709	1431989	982121	-3.98
165 Chlorobenzene-d5	938331	562999	1313663	925746	-1.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.42	-0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.40	-0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Data File: /chem/msda.i/08NOV24.b/a110803.d
Date : 08-NOV-2024 12:27
Client ID: CCV
Sample Info: 50mL 3018-4905
Column phase: RTX-624
Instrument: msda.i
Operator: MS
Column diameter: 0.25
/chem/msda.i/08NOV24.b/a110803.d
Y (x10^7)
Min
-Freon 134a
-Propylene+
-Freon 114+
-Chloromethane
-Butane
-Vinyl Chloride+
-Bromomethane
-Chloroethane+
-Vinyl Bromide+
-Pentane
-Ethanol
-Acrolein+
-Acetone
-Carbon Disulfide
-2-Propanol
-3-Chloropropene
-Acetonitrile
-Acetonitrile+
-tert-Butyl alcohol
-Methyl tert-butyl ether+
-Acrylonitrile
-Hexane
-1,1-Dichloroethane+
-Vinyl Acetate
-Ethyl-tert-butyl ether
-2,2-Dichloropropane
-Bromochloromethane+
-Chloroform
-Cyclohexane+
-1,2-Dichloroethane-d4+
-tert-Amyl methyl ether+
-Heptane
-1,4-Difluorobenzene
-n-Butanol+
-Methylcyclohexane
-1,2-Dichloropropane
-Bromodichloromethane
-1-Bromo-2-Chloroethane
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene+
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane+
-1,3-Dichloropropane
-Dibromochloromethane
-1,2-Dibromoethane (EDB)
-Chlorobenzene-d5+
-m,p-Xylene
-Bromoform
-Cumene
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-1,3,5-Trimethylbenzene
Decane+
-alpha Methyl Styrene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Cymene+
-1,4-Dichlorobenzene
-alpha-Chlorotoluene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-Dodecane
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

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Client ID:	CCV		
Lab ID:	2410702A-18C	**Date/Time Analyzed:**	11/8/24 09:15 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msda.i / a110730a

Compound	CAS#	%Recovery
1,1-Dichloroethene	75-35-4	105
1,4-Dichlorobenzene	106-46-7	95
Benzene	71-43-2	103
cis-1,2-Dichloroethene	156-59-2	107
Ethyl Benzene	100-41-4	100
m,p-Xylene	108-38-3	99
o-Xylene	95-47-6	101
Toluene	108-88-3	99
trans-1,2-Dichloroethene	156-60-5	104
Trichloroethene	79-01-6	97
Vinyl Chloride	75-01-4	128

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	90
4-Bromofluorobenzene	460-00-4	70-130	96
Toluene-d8	2037-26-5	70-130	101

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EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/07NOV24.b/a110730a.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 08-NOV-2024 09:15
Operator : MS Inst ID: msda.i
Smp Info : 100mL 3018-4859A
Misc Info : 50ppbv (100ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/07NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:35 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	280517	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	218605			46.45- 106.45	77.93
5.428	5.428 (1.000)	49	568347			167.12- 227.12	202.61
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	1063598	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	171264			0.00- 46.36	16.10
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	967521	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	545248			27.12- 87.12	56.36
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	437883	25.0000	22.438	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	231302			23.36- 83.36	52.82
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.210)	98	1117087	25.0000	25.190	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	125913			0.00- 41.92	11.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.210)	100	761462			39.07- 99.07	68.16
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	616251	25.0000	23.885	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	753514			89.27- 149.27	122.27
10.292	10.292 (1.125)	176	605130			66.29- 126.29	98.20
24 Vinyl Chloride					CAS #: 75-01-4		
1.753	1.753 (0.323)	62	775077	50.0000	64.241	80.00- 120.00	100.00
1.753	1.753 (0.323)	64	233598			0.00- 59.56	30.14
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.086	3.086 (0.568)	98	397143	50.0000	52.625	80.00- 120.00	100.00
3.086	3.086 (0.568)	96	630330			127.35- 187.35	158.72
3.086	3.086 (0.568)	61	1355769			327.38- 387.38	341.38
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	417150	50.0000	51.911	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	1261383			282.80- 342.80	302.38
4.024	4.024 (0.741)	96	656409			122.91- 182.91	157.36
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	451775	50.0000	53.632	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	696321			123.49- 183.49	154.13
5.177	5.177 (0.954)	61	1475346			310.35- 370.35	326.57
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	1905662	50.0000	51.714	80.00- 120.00	100.00
5.987	5.987 (0.934)	77	452012			0.00- 53.99	23.72
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	910613	50.0000	48.469	80.00- 120.00	100.00
6.617	6.617 (1.032)	130	905347			67.98- 127.98	99.42
6.617	6.617 (1.032)	97	599550			34.45- 94.45	65.84
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.219)	91	2398924	50.0000	49.558	80.00- 120.00	100.00
7.813	7.813 (1.219)	92	1392431			27.69- 87.69	58.04
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.011)	106	1008689	50.0000	50.127	80.00- 120.00	100.00
9.246	9.246 (1.011)	91	3127156			281.27- 341.27	310.02
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.360 (1.023)	106	1246149	50.0000	49.742	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
173 m,p-Xylene (continued)							
9.360	9.360 (1.023)	91	2515153			176.41- 236.41	201.83
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.066)	106	1181873	50.0000	50.424	80.00- 120.00	100.00
9.747	9.747 (1.066)	91	2528257			186.60- 246.60	213.92
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.251)	146	2118185	50.0000	47.662	80.00- 120.00	100.00
11.445	11.445 (1.251)	148	1336442			34.50- 94.50	63.09
11.445	11.445 (1.251)	111	858218			12.20- 72.20	40.52

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 08-NOV-2024 09:15
Lab File ID: a110730a.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/07NOV24.b/a24q0910a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 119 1,2-Dichloroethane-d4	1.73923	1.56099	0.010	10.24843	30.00000	Averaged
$ 152 Toluene-d8	1.04236	1.05029	0.010	-0.76129	30.00000	Averaged
$ 191 4-Bromofluorobenzene	0.66667	0.63694	0.010	4.45985	30.00000	Averaged
24 Vinyl Chloride	1.07526	1.38152	0.010	-28.48197	30.00000	Averaged
49 1,1-Dichloroethene	0.67256	0.70788	0.010	-5.25040	30.00000	Averaged
73 trans-1,2-Dichloroethene	0.71617	0.74354	0.010	-3.82214	30.00000	Averaged
91 cis-1,2-Dichloroethene	0.75072	0.80525	0.010	-7.26474	30.00000	Averaged
118 Benzene	0.86615	0.89586	0.010	-3.42918	30.00000	Averaged
129 Trichloroethene	0.44160	0.42808	0.010	3.06167	30.00000	Averaged
153 Toluene	1.13780	1.12774	0.010	0.88375	30.00000	Averaged
167 Ethyl Benzene	0.51996	0.52127	0.010	-0.25339	30.00000	Averaged
173 m,p-Xylene	0.64733	0.64399	0.010	0.51612	30.00000	Averaged
176 o-Xylene	0.60564	0.61077	0.010	-0.84737	30.00000	Averaged
218 1,4-Dichlorobenzene	1.14833	1.09465	0.010	4.67482	30.00000	Averaged

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110730a.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 07-NOV-2024
Calibration Time: 11:48
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	300803	180482	421124	280517	-6.74
126 1,4-Difluorobenze	1130282	678169	1582395	1063598	-5.90
165 Chlorobenzene-d5	1024524	614714	1434334	967521	-5.56

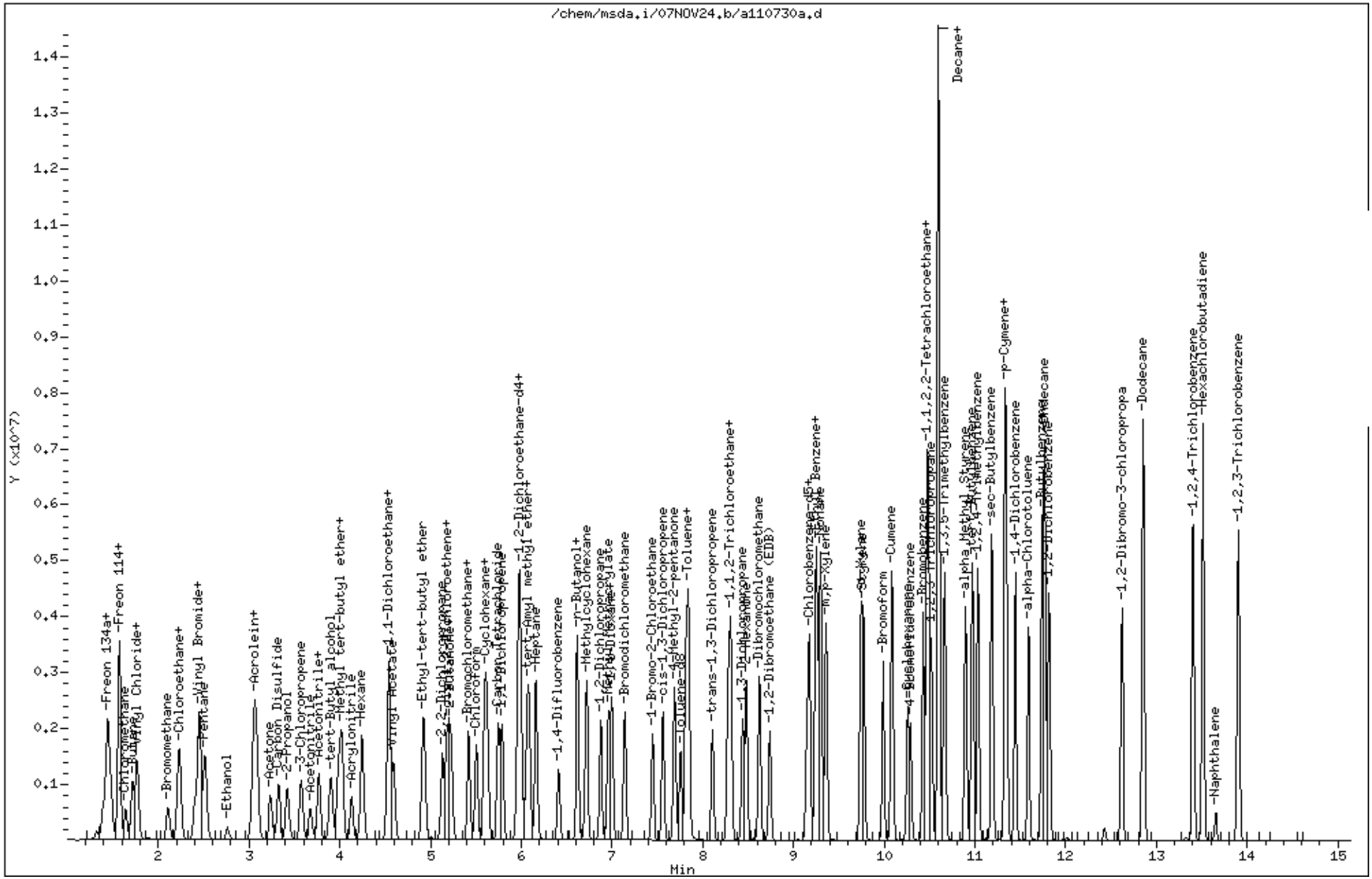
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/07NOV24.b/a110730a.d
Date : 08-NOV-2024 09:15
Client ID: CCV
Sample Info: 100mL 3018-4859A

Instrument: msda.i
Operator: MS
Column diameter: 0.25

Column phase: RTX-624



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Client ID:	CCV		
Lab ID:	2410702A-18D	**Date/Time Analyzed:**	11/8/24 09:45 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msda.i / a110817c

Compound	CAS#	%Recovery
1,1-Dichloroethene	75-35-4	103
1,4-Dichlorobenzene	106-46-7	97
Benzene	71-43-2	105
cis-1,2-Dichloroethene	156-59-2	105
Ethyl Benzene	100-41-4	102
m,p-Xylene	108-38-3	102
o-Xylene	95-47-6	104
Toluene	108-88-3	101
trans-1,2-Dichloroethene	156-60-5	102
Trichloroethene	79-01-6	99
Vinyl Chloride	75-01-4	119

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	92
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	103

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/08NOV24.b/a110817c.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 08-NOV-2024 21:45
Operator : DF Inst ID: msda.i
Smp Info : 50mL 3018-4905
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/08NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:31 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	273973	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	215517			46.45- 106.45	78.66
5.428	5.428 (1.000)	49	559578			167.12- 227.12	204.25
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	1022849	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	165255			0.00- 46.36	16.16
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	938331	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	528193			27.12- 87.12	56.29
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	436995	25.0000	22.927	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	223058			23.36- 83.36	51.04
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.210)	98	1095143	25.0000	25.679	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	121892			0.00- 41.92	11.13

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.210)	100	741733			39.07- 99.07	67.73
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	592748	25.0000	23.689	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	725046			89.27- 149.27	122.32
10.292	10.292 (1.125)	176	569189			66.29- 126.29	96.03
24 Vinyl Chloride					CAS #: 75-01-4		
1.739	1.739 (0.320)	62	699277	50.0000	59.343	80.00- 120.00	100.00
1.739	1.739 (0.320)	64	213185			0.00- 59.56	30.49
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.086	3.086 (0.568)	98	380890	50.0000	51.677	80.00- 120.00	100.00
3.086	3.086 (0.568)	96	600669			127.35- 187.35	157.70
3.086	3.086 (0.568)	61	1295504			327.38- 387.38	340.13
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	400085	50.0000	50.977	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	1224343			282.80- 342.80	306.02
4.024	4.024 (0.741)	96	635732			122.91- 182.91	158.90
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	433874	50.0000	52.738	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	673559			123.49- 183.49	155.24
5.177	5.177 (0.954)	61	1443184			310.35- 370.35	332.63
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	1860493	50.0000	52.500	80.00- 120.00	100.00
5.987	5.987 (0.934)	77	443661			0.00- 53.99	23.85
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	896152	50.0000	49.600	80.00- 120.00	100.00
6.617	6.617 (1.032)	130	879614			67.98- 127.98	98.15
6.617	6.617 (1.032)	97	576804			34.45- 94.45	64.36
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.219)	91	2360533	50.0000	50.708	80.00- 120.00	100.00
7.813	7.813 (1.219)	92	1362919			27.69- 87.69	57.74
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.011)	106	993344	50.0000	50.900	80.00- 120.00	100.00
9.246	9.246 (1.011)	91	3091815			281.27- 341.27	311.25
173 m,p-Xylene					CAS #: 108-38-3		
9.361	9.361 (1.023)	106	1237248	50.0000	50.923	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
173 m,p-Xylene (continued)							
9.361	9.361 (1.023)	91	2497358			176.41- 236.41	201.85
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.066)	106	1187833	50.0000	52.254	80.00- 120.00	100.00
9.747	9.747 (1.066)	91	2498092			186.60- 246.60	210.31
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.251)	146	2089684	50.0000	48.484	80.00- 120.00	100.00
11.445	11.445 (1.251)	148	1317118			34.50- 94.50	63.03
11.445	11.445 (1.251)	111	852914			12.20- 72.20	40.82

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 08-NOV-2024 21:45
Lab File ID: a110817c.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/08NOV24.b/a24q0910a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 119 1,2-Dichloroethane-d4	1.73923	1.59503	0.010	8.29102	30.00000	Averaged
$ 152 Toluene-d8	1.04236	1.07068	0.010	-2.71729	30.00000	Averaged
$ 191 4-Bromofluorobenzene	0.66667	0.63170	0.010	5.24488	30.00000	Averaged
24 Vinyl Chloride	1.07526	1.27618	0.010	-18.68560	30.00000	Averaged
49 1,1-Dichloroethene	0.67256	0.69512	0.010	-3.35413	30.00000	Averaged
73 trans-1,2-Dichloroethene	0.71617	0.73015	0.010	-1.95333	30.00000	Averaged
91 cis-1,2-Dichloroethene	0.75072	0.79182	0.010	-5.47507	30.00000	Averaged
118 Benzene	0.86615	0.90947	0.010	-5.00047	30.00000	Averaged
129 Trichloroethene	0.44160	0.43807	0.010	0.80053	30.00000	Averaged
153 Toluene	1.13780	1.15390	0.010	-1.41552	30.00000	Averaged
167 Ethyl Benzene	0.51996	0.52931	0.010	-1.79954	30.00000	Averaged
173 m,p-Xylene	0.64733	0.65928	0.010	-1.84597	30.00000	Averaged
176 o-Xylene	0.60564	0.63295	0.010	-4.50896	30.00000	Averaged
218 1,4-Dichlorobenzene	1.14833	1.11351	0.010	3.03195	30.00000	Averaged

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110817c.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: DF
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 08-NOV-2024
Calibration Time: 12:27
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	291309	174785	407833	273973	-5.95
126 1,4-Difluorobenze	982121	589273	1374969	1022849	4.15
165 Chlorobenzene-d5	925746	555448	1296044	938331	1.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.42	5.09	5.75	5.43	0.13
126 1,4-Difluorobenze	6.40	6.07	6.73	6.41	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/08NOV24.b/a110817c.d

Date : 08-NOV-2024 21:45

Client ID: CCV

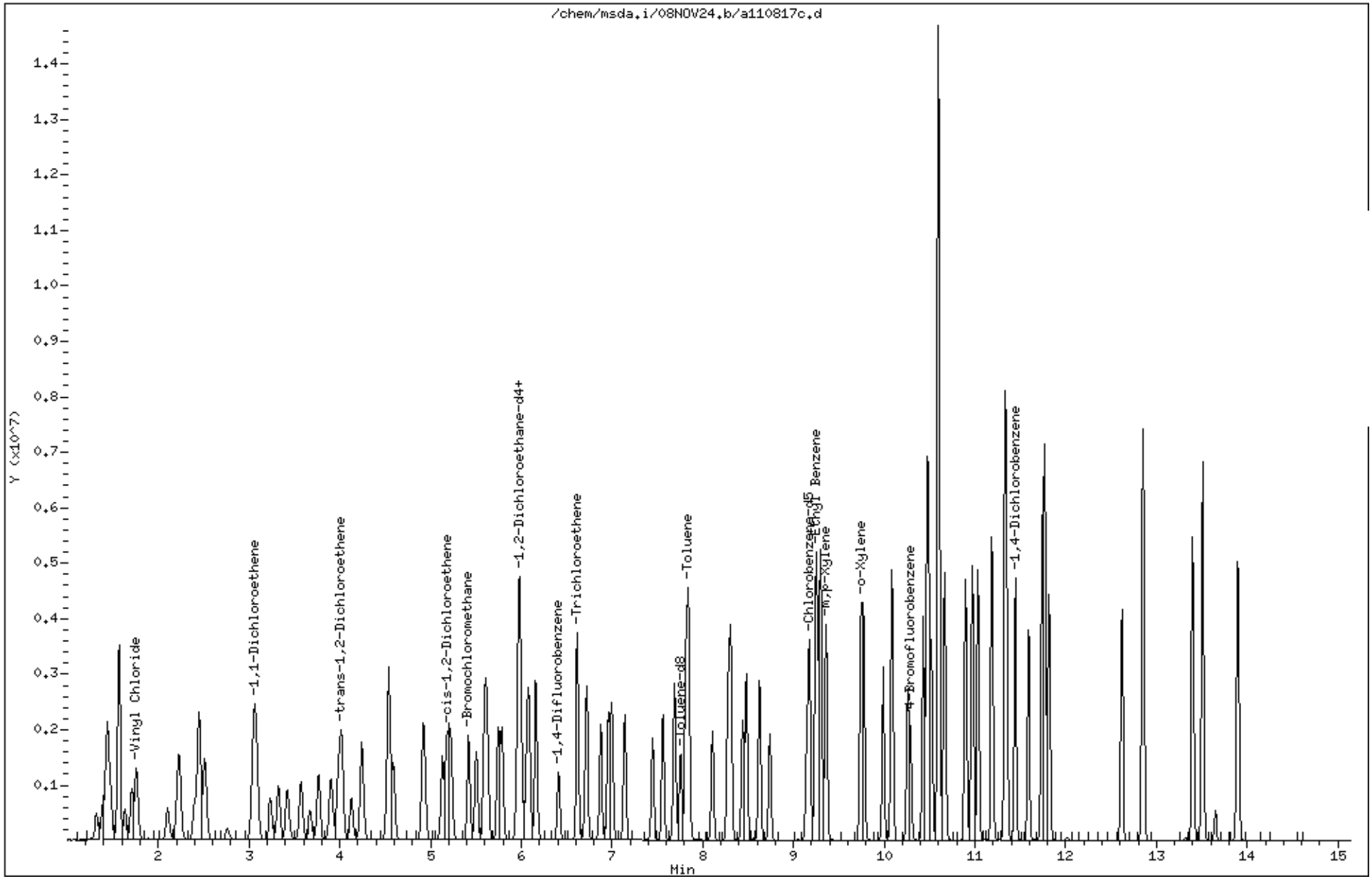
Instrument: msda.i

Sample Info: 50mL 3018-4905

Operator: DF

Column phase: RTX-624

Column diameter: 0.25



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Client ID:	LCS		
Lab ID:	2410702A-19A	**Date/Time Analyzed:**	11/7/24 12:22 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msda.i / a110704c

Compound	CAS#	%Recovery
1,1-Dichloroethene	75-35-4	98
1,4-Dichlorobenzene	106-46-7	96
Benzene	71-43-2	107
cis-1,2-Dichloroethene	156-59-2	102
Ethyl Benzene	100-41-4	103
m,p-Xylene	108-38-3	101
o-Xylene	95-47-6	102
Toluene	108-88-3	100
trans-1,2-Dichloroethene	156-60-5	102
Trichloroethene	79-01-6	100
Vinyl Chloride	75-01-4	97

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	86
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	101

* % Recovery is calculated using unrounded analytical results.

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EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/07NOV24.b/a110704c.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 07-NOV-2024 12:22
Operator : MS Inst ID: msda.i
Smp Info : 50mL 3018-4858
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/07NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:38 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	333973	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	252420			46.45- 106.45	75.58
5.421	5.428 (1.000)	49	643567			167.12- 227.12	192.70
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	1195038	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	193822			0.00- 46.36	16.22
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	1100775	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	611228			27.12- 87.12	55.53
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	498328	21.4480	21.448	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	258351			23.36- 83.36	51.84
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.749	7.756 (1.209)	98	1262121	25.3305	25.330	80.00- 120.00	100.00
7.749	7.756 (1.209)	70	141425			0.00- 41.92	11.21

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.749	7.756 (1.209)	100	850021			39.07- 99.07	67.35
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	697179	23.7506	23.750	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	840078			89.27- 149.27	120.50
10.292	10.292 (1.125)	176	660024			66.29- 126.29	94.67
24 Vinyl Chloride					CAS #: 75-01-4		
1.732	1.753 (0.319)	62	699486	48.6961	48.696	80.00- 120.00	100.00
1.732	1.753 (0.319)	64	211731			0.00- 59.56	30.27
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.078	3.086 (0.567)	98	441487	49.1374	49.137	80.00- 120.00	100.00
3.078	3.093 (0.567)	96	695404			127.35- 187.35	157.51
3.078	3.086 (0.567)	61	1466184			327.38- 387.38	332.10
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.017	4.024 (0.740)	98	485787	50.7763	50.776	80.00- 120.00	100.00
4.017	4.024 (0.740)	61	1434848			282.80- 342.80	295.37
4.017	4.024 (0.740)	96	757372			122.91- 182.91	155.91
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	512269	51.0800	51.080	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	811198			123.49- 183.49	158.35
5.177	5.177 (0.954)	61	1613628			310.35- 370.35	315.00
118 Benzene					CAS #: 71-43-2		
5.979	5.987 (0.933)	78	2225366	53.7483	53.748	80.00- 120.00	100.00
5.979	5.987 (0.933)	77	531243			0.00- 53.99	23.87
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	1052833	49.8755	49.875	80.00- 120.00	100.00
6.617	6.617 (1.032)	130	1033719			67.98- 127.98	98.18
6.617	6.617 (1.032)	97	687174			34.45- 94.45	65.27
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.219)	91	2711283	49.8504	49.850	80.00- 120.00	100.00
7.813	7.813 (1.219)	92	1558675			27.69- 87.69	57.49
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.011)	106	1179742	51.5301	51.530	80.00- 120.00	100.00
9.239	9.246 (1.010)	91	3650190			281.27- 341.27	309.41
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.360 (1.023)	106	1441778	50.5840	50.584	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
173 m,p-Xylene (continued)							
9.360	9.360 (1.023)	91	2888417			176.41- 236.41	200.34
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.066)	106	1358493	50.9428	50.943	80.00- 120.00	100.00
9.747	9.747 (1.066)	91	2890909			186.60- 246.60	212.80
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.251)	146	2421132	47.8844	47.884	80.00- 120.00	100.00
11.445	11.445 (1.251)	148	1547288			34.50- 94.50	63.91
11.445	11.445 (1.251)	111	983779			12.20- 72.20	40.63

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110704c.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 07-NOV-2024
Calibration Time: 11:48
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	300803	180482	421124	333973	11.03
126 1,4-Difluorobenze	1130282	678169	1582395	1195038	5.73
165 Chlorobenzene-d5	1024524	614714	1434334	1100775	7.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	-0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	-0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

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RECOVERY REPORT

Client Name: Client SDG: 07NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: MS
Data Type: MS DATA SampleType: LCS
SpikeList File: ControlDODAT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Freon 134a	50.000	43.405	86.81	70-130
8 Propylene	50.000	46.758	93.52	57-136
9 1,1-Difluoroethan	50.000	50.338	100.68	70-130
10 Freon 12	50.000	44.373	88.75	59-128
12 Chlorodifluoromet	50.000	40.883	81.77	59-145
15 Freon 114	50.000	47.184	94.37	63-121
16 Isobutane	50.000	50.399	100.80	70-130
17 Chloromethane	50.000	55.464	110.93	59-132
22 Butane	50.000	51.418	102.84	64-129
24 Vinyl Chloride	50.000	48.696	97.39	64-127
25 1,3-Butadiene	50.000	50.504	101.01	66-134
29 Bromomethane	50.000	54.604	109.21	63-134
30 Chloroethane	50.000	56.735	113.47	63-127
31 Isopentane	50.000	52.388	104.78	59-140
32 Vinyl Bromide	50.000	53.988	107.98	71-126
33 Freon 11	50.000	43.626	87.25	62-126
35 Dichlorofluoromet	50.000	51.204	102.41	70-130
37 Pentane	50.000	51.097	102.19	63-131
42 Ethanol	58.000	57.073	98.40	59-125
46 Acrolein	58.000	57.760	99.59	62-126
47 Freon 113	50.000	45.708	91.42	66-126
49 1,1-Dichloroethen	50.000	49.137	98.27	61-133
52 Acetone	50.000	51.160	102.32	58-128
54 Carbon Disulfide	50.000	53.167	106.33	57-134
57 2-Propanol	50.000	54.699	109.40	52-125
58 3-Chloropropene	50.000	53.441	106.88	71-131
60 Acetonitrile	50.000	49.437	98.87	63-132
64 Methylene Chlorid	50.000	48.894	97.79	62-115
70 tert-Butyl alcoho	50.000	50.477	100.95	24-150
72 Methyl tert-butyl	50.000	46.148	92.30	66-126
73 trans-1,2-Dichlor	50.000	50.776	101.55	67-124
74 Acrylonitrile	50.000	49.325	98.65	71-137
78 Hexane	50.000	47.062	94.12	63-120

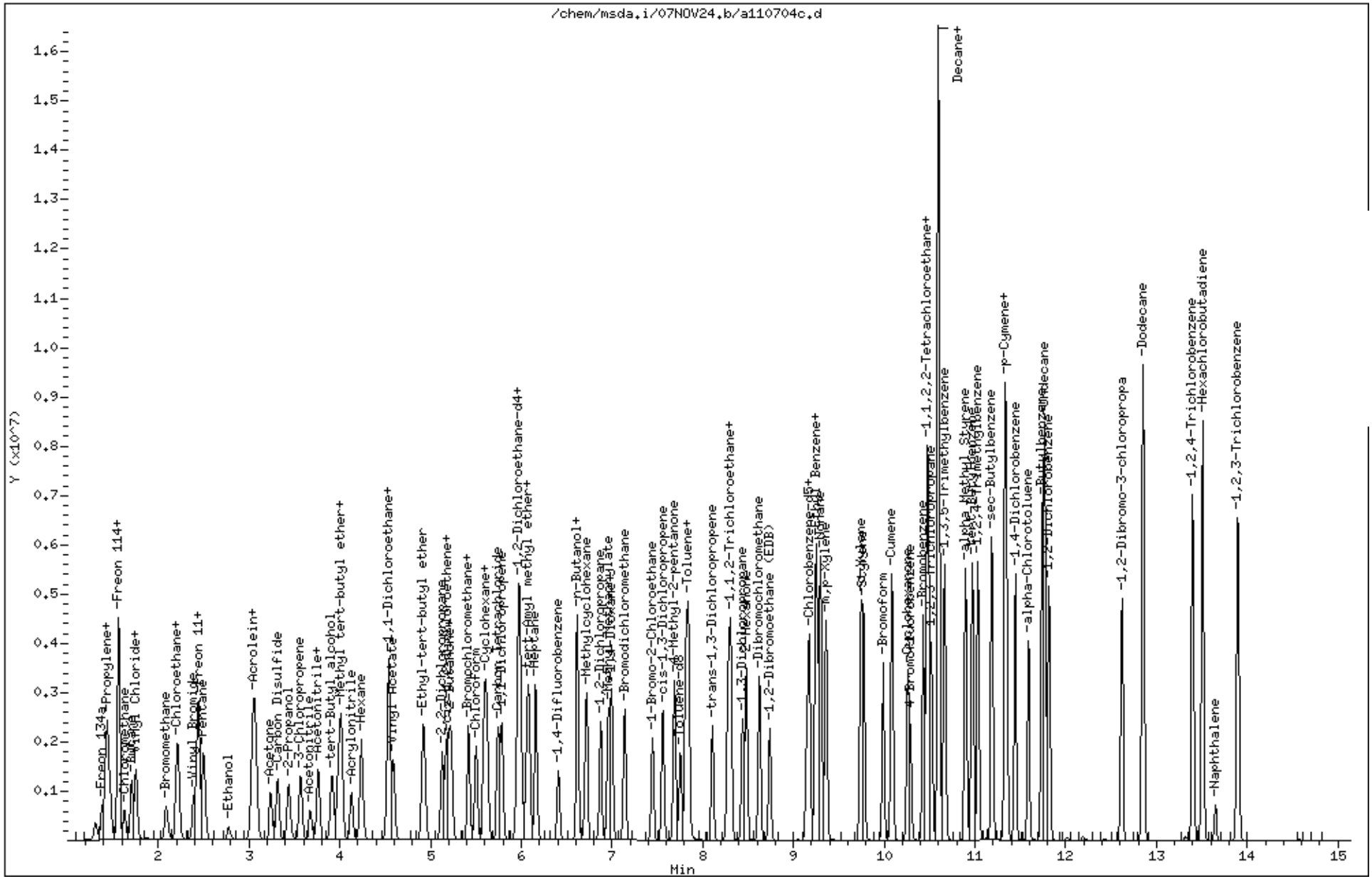
	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
83	1,1-Dichloroethan	50.000	48.997	97.99	68-126
82	Isopropyl ether	50.000	46.468	92.94	70-117
84	Vinyl Acetate	50.000	61.770	123.54	56-139
88	Ethyl-tert-butyl	50.000	45.366	90.73	70-130
90	2,2-Dichloropropa	50.000	42.430	84.86	70-130
91	cis-1,2-Dichloroe	50.000	51.080	102.16	70-121
92	2-Butanone	50.000	53.059	106.12	67-130
93	Ethyl Acetate	50.000	53.074	106.15	65-128
99	Tetrahydrofuran	50.000	48.746	97.49	64-123
103	Chloroform	50.000	44.705	89.41	68-123
106	1,1,1-Trichloroet	50.000	42.490	84.98	68-125
112	Carbon Tetrachlor	50.000	40.782	81.56	68-132
104	Cyclohexane	50.000	49.683	99.37	70-117
113	1,1-Dichloroprope	50.000	52.047	104.09	70-130
117	2,2,4-Trimethylpe	50.000	46.916	93.83	68-121
118	Benzene	50.000	53.748	107.50	69-119
121	1,2-Dichloroethan	50.000	45.321	90.64	65-128
122	Heptane	50.000	53.120	106.24	69-123
128	n-Butanol	50.000	55.553	111.11	62-133
129	Trichloroethene	50.000	49.875	99.75	71-123
131	Methylcyclohexane	50.000	47.618	95.24	67-127
135	1,2-Dichloropropa	50.000	52.425	104.85	69-123
139	Methyl Methacryla	50.000	55.340	110.68	70-128
140	1,4-Dioxane	50.000	52.780	105.56	71-122
141	Dibromomethane	50.000	47.674	95.35	70-130
142	Bromodichlorometh	50.000	46.697	93.39	72-128
149	cis-1,3-Dichlorop	50.000	52.440	104.88	70-128
150	4-Methyl-2-pentan	50.000	51.228	102.46	67-130
151	Octane	50.000	47.667	95.33	69-121
153	Toluene	50.000	49.850	99.70	66-119
154	trans-1,3-Dichlor	50.000	49.474	98.95	75-133
158	1,1,2-Trichloroet	50.000	51.794	103.59	73-119
159	Tetrachloroethene	50.000	46.044	92.09	66-124
162	2-Hexanone	50.000	51.878	103.76	62-128
161	1,3-Dichloropropa	50.000	50.368	100.74	62-148
163	Dibromochlorometh	50.000	46.952	93.90	70-130
164	1,2-Dibromoethane	50.000	49.731	99.46	74-122
144	1-Bromo-2-Chloroe	50.000	51.918	103.84	70-130
166	Chlorobenzene	50.000	49.645	99.29	70-119
167	Ethyl Benzene	50.000	51.530	103.06	70-124
170	Nonane	50.000	48.797	97.59	63-128
169	1,1,1,2-Tetrachlo	50.000	45.553	91.11	70-130
173	m,p-Xylene	50.000	50.584	101.17	61-134
176	o-Xylene	50.000	50.943	101.89	67-125
178	Styrene	50.000	51.376	102.75	73-127
184	Bromoform	50.000	45.997	91.99	66-139
185	Cumene	50.000	48.076	96.15	68-124

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
194 1,1,2,2-Tetrachlo	50.000	51.420	102.84	65-127
192 Bromobenzene	50.000	46.876	93.75	70-130
196 Propylbenzene	50.000	49.844	99.69	69-123
197 1,2,3-Trichloropr	50.000	43.523	87.05	76-124
199 Decane	50.000	50.639	101.28	70-118
200 4-Ethyltoluene	50.000	48.334	96.67	67-129
201 2-Chlorotoluene	50.000	48.290	96.58	74-130
204 1,3,5-Trimethylbe	50.000	50.026	100.05	67-130
209 alpha Methyl Styr	50.000	51.337	102.67	67-128
210 tert-Butylbenzene	50.000	47.224	94.45	65-124
212 1,2,4-Trimethylbe	50.000	50.992	101.98	66-132
214 sec-Butylbenzene	50.000	48.821	97.64	68-125
216 p-Cymene	50.000	47.583	95.17	67-130
217 1,3-Dichlorobenze	50.000	47.920	95.84	65-130
218 1,4-Dichlorobenze	50.000	47.884	95.77	60-131
219 alpha-Chlorotolue	50.000	44.990	89.98	50-147
221 Undecane	50.000	52.076	104.15	69-123
220 Butylbenzene	50.000	50.646	101.29	66-130
222 1,2-Dichlorobenze	50.000	47.656	95.31	63-129
226 1,2-Dibromo-3-chl	50.000	47.326	94.65	70-130
227 Dodecane	50.000	56.456	112.91	62-147
230 1,2,4-Trichlorobe	50.000	55.723	111.45	55-142
231 Hexachlorobutadie	50.000	51.597	103.19	56-138
232 Naphthalene	6.000	5.911	98.51	57-138
233 1,2,3-Trichlorobe	50.000	55.936	111.87	55-142

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	21.448	85.79	70-130
$ 152 Toluene-d8	25.000	25.330	101.32	70-130
$ 191 4-Bromofluorobenz	25.000	23.750	95.00	70-130

Data File: /chem/msda.i/07NOV24.b/a110704c.d
Date : 07-NOV-2024 12:22
Client ID: LCS
Sample Info: 50mL 3018-4858

Instrument: msda.i
Operator: MS
Column phase: RTX-624
Column diameter: 0.25



Data File: /chem/msda.i/07NOV24.b/a110704c.d

Date : 07-NOV-2024 12:22

Client ID: LCS

Instrument: msda.i

Sample Info: 50mL 3018-4858

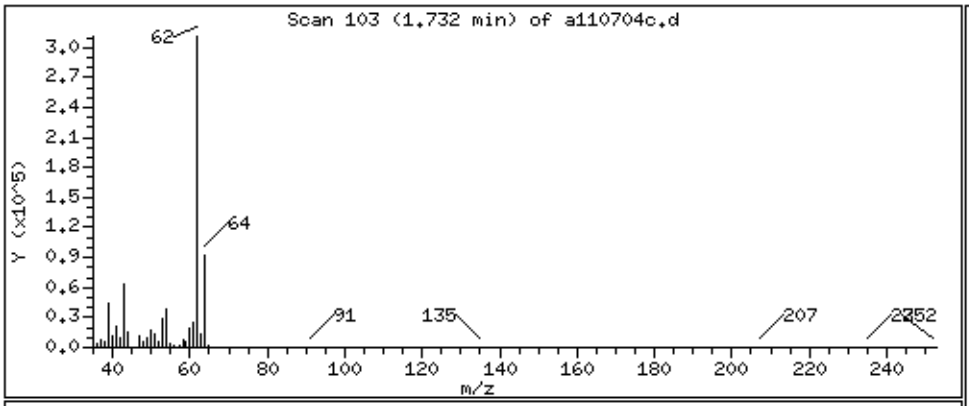
Operator: MS

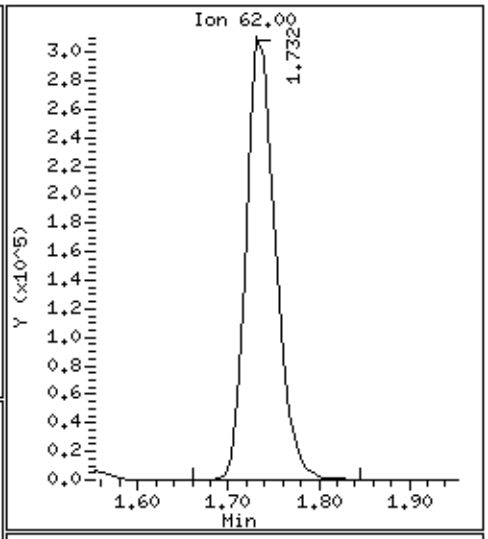
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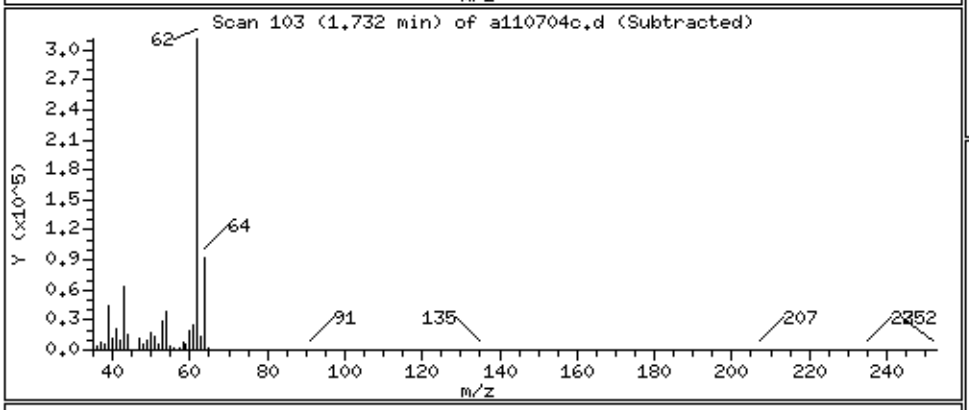
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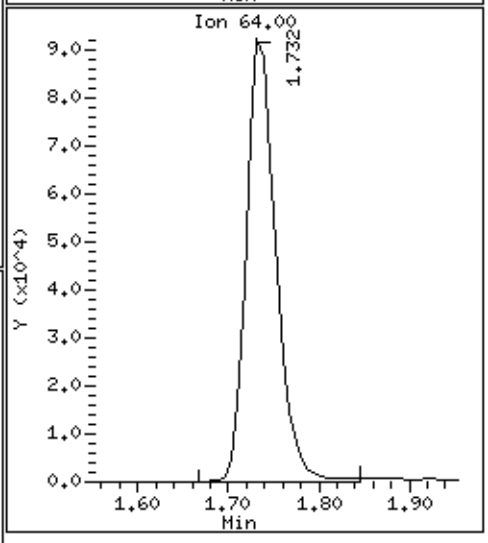
24 Vinyl Chloride

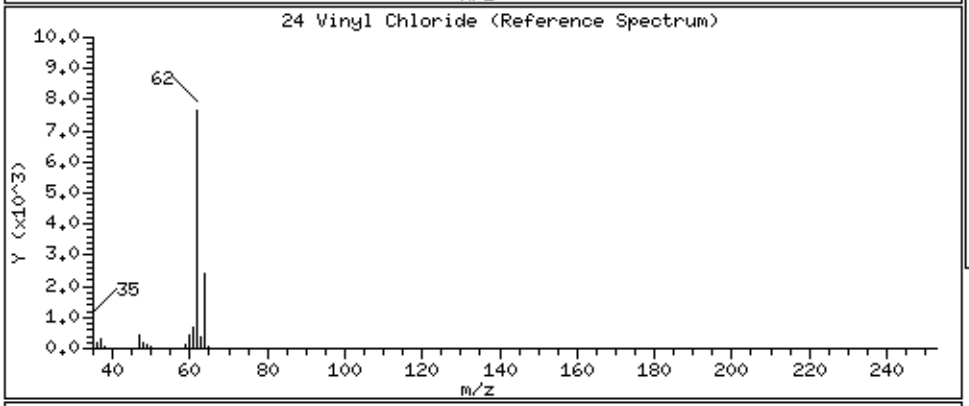
Concentration: 48.696 PPBV

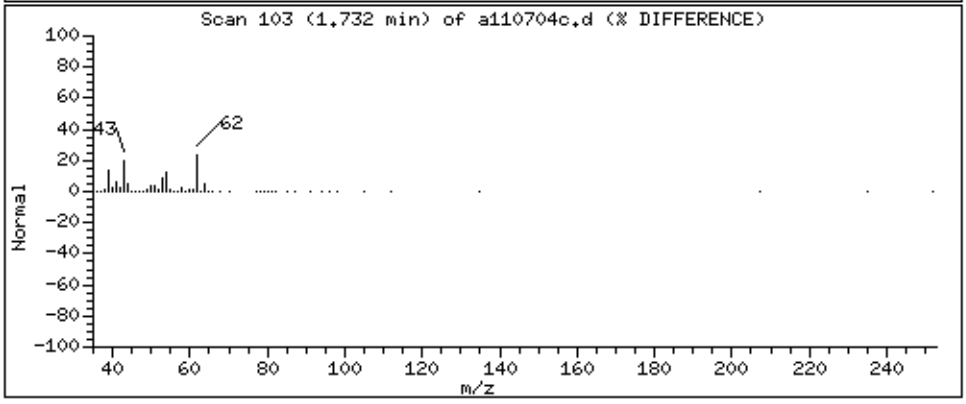












Data File: /chem/msda.i/07NOV24.b/a110704c.d

Date : 07-NOV-2024 12:22

Client ID: LCS

Instrument: msda.i

Sample Info: 50mL 3018-4858

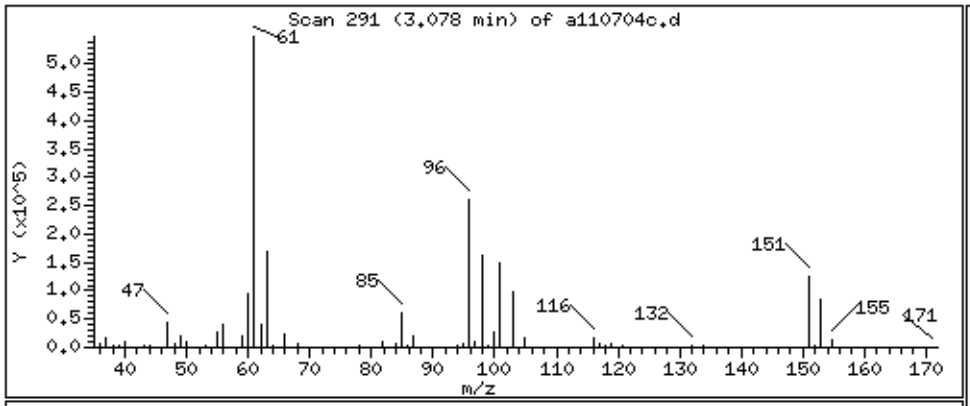
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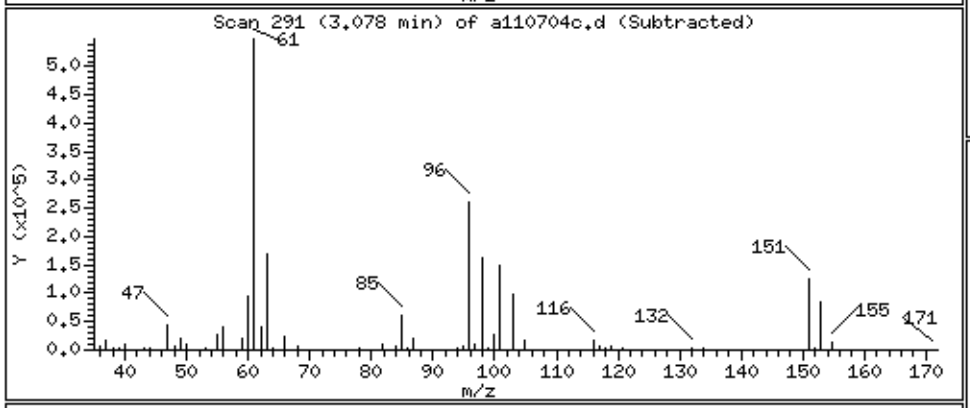
Column phase: RTX-624

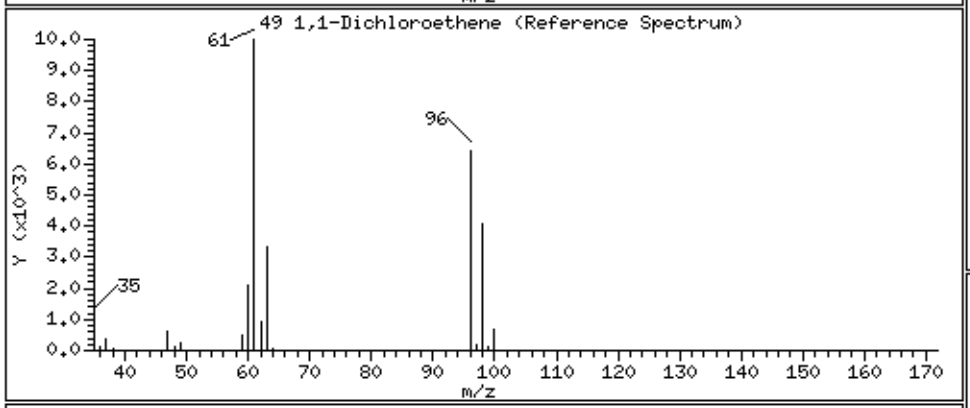
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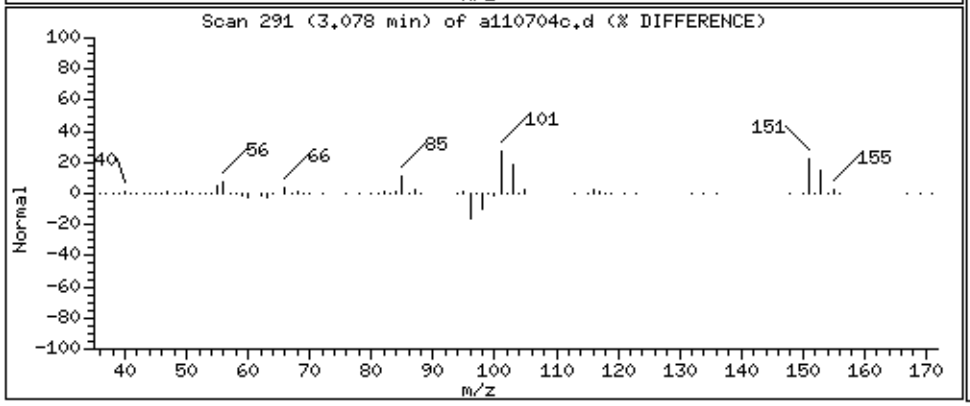
49 1,1-Dichloroethene

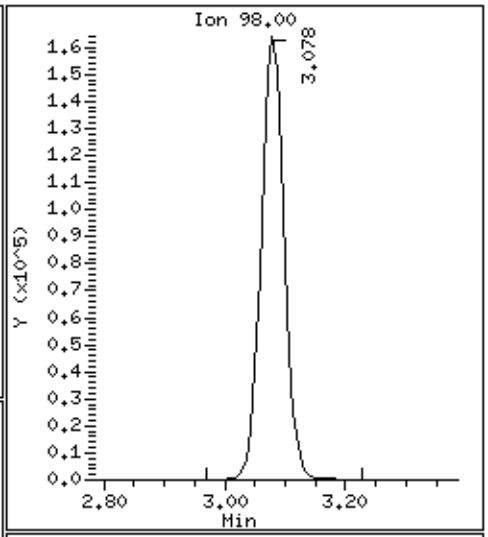
Concentration: 49.137 PPBV

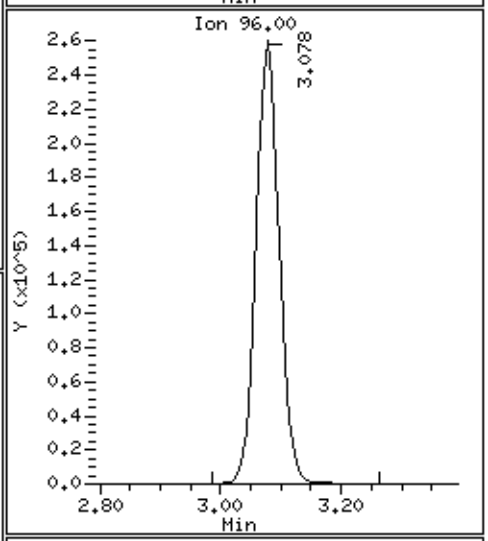


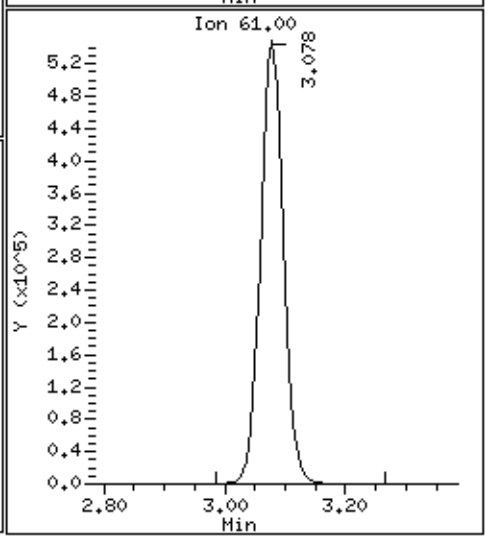












Data File: /chem/msda.i/07NOV24.b/a110704c.d

Date : 07-NOV-2024 12:22

Client ID: LCS

Instrument: msda.i

Sample Info: 50mL 3018-4858

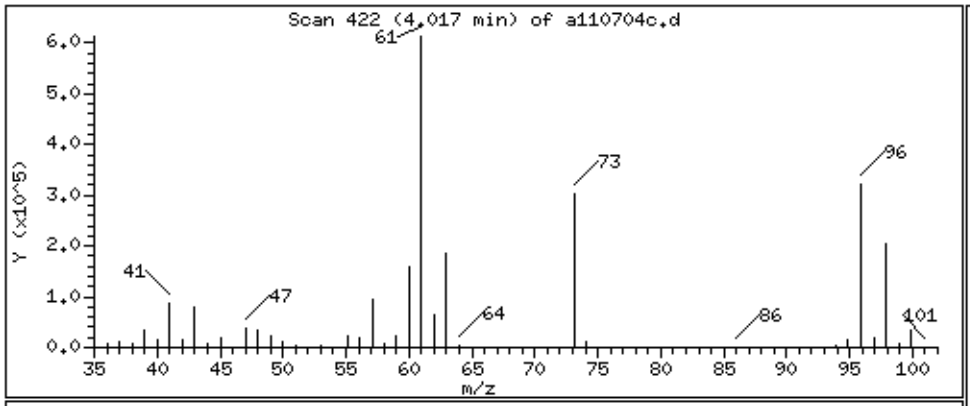
Operator: MS

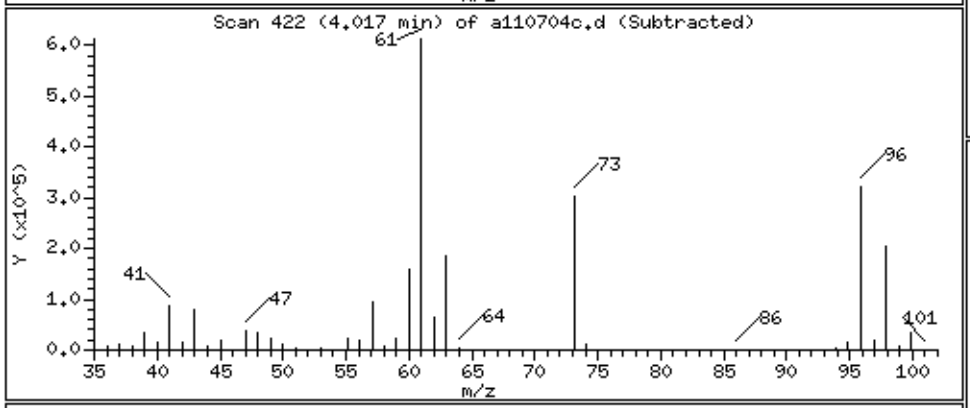
Column phase: RTX-624

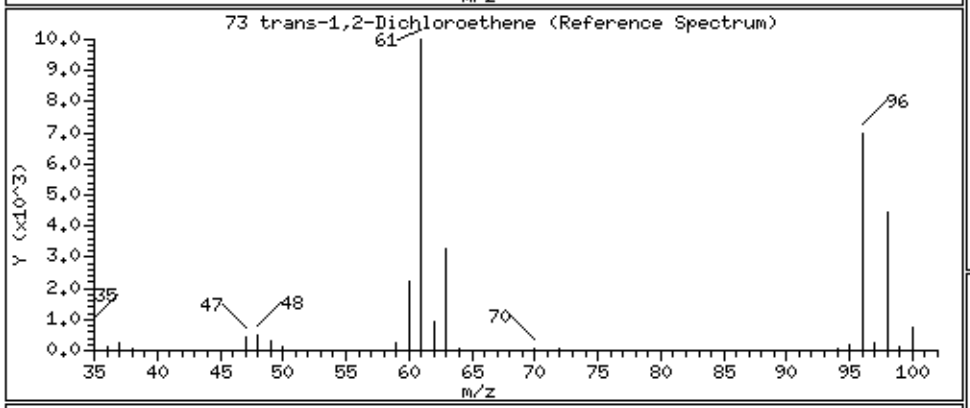
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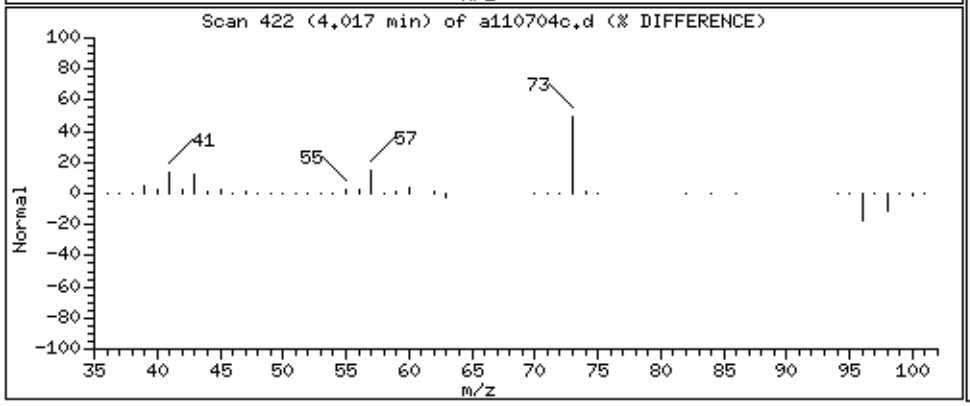
73 trans-1,2-Dichloroethene

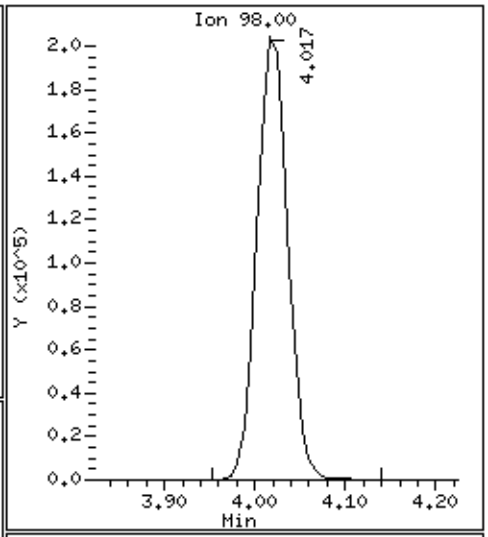
Concentration: 50.776 PPBV

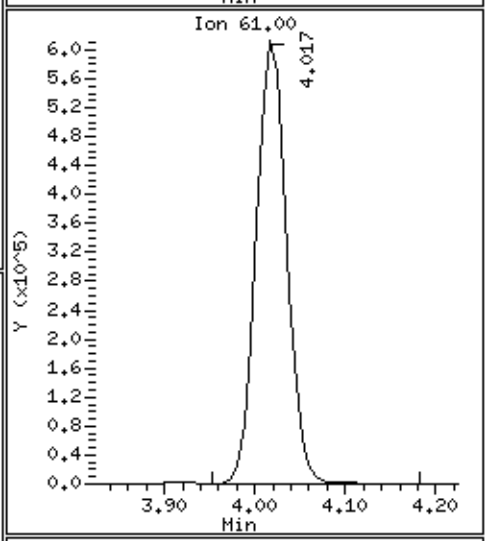


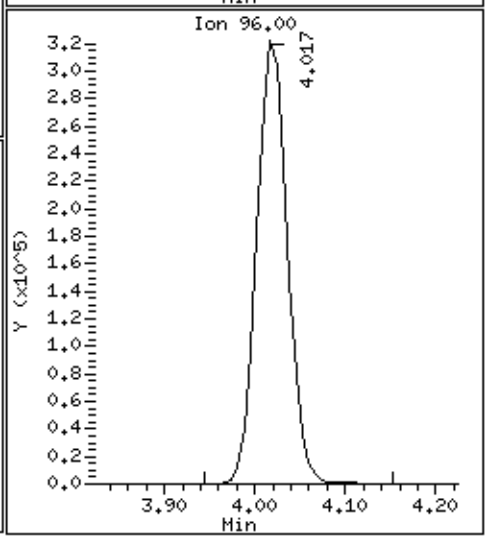












Data File: /chem/msda.i/07NOV24.b/a110704c.d

Date : 07-NOV-2024 12:22

Client ID: LCS

Instrument: msda.i

Sample Info: 50mL 3018-4858

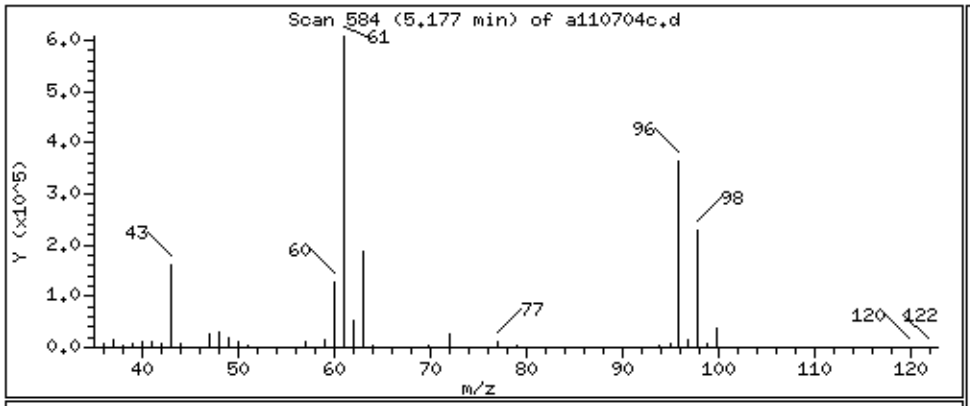
Operator: MS

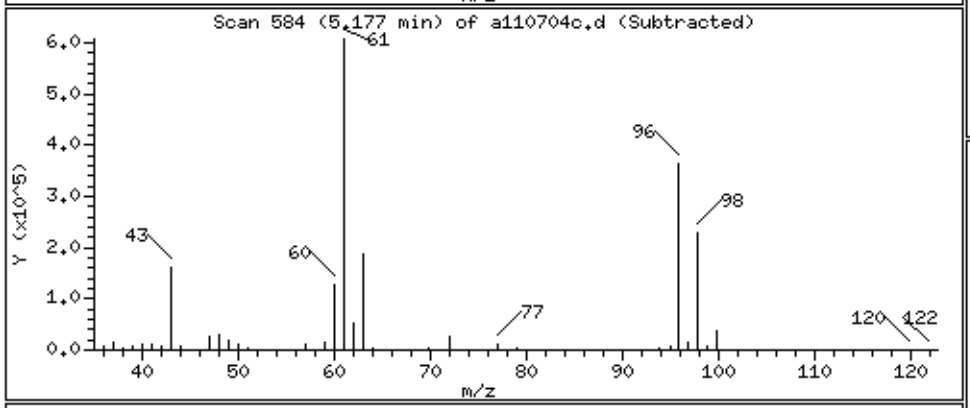
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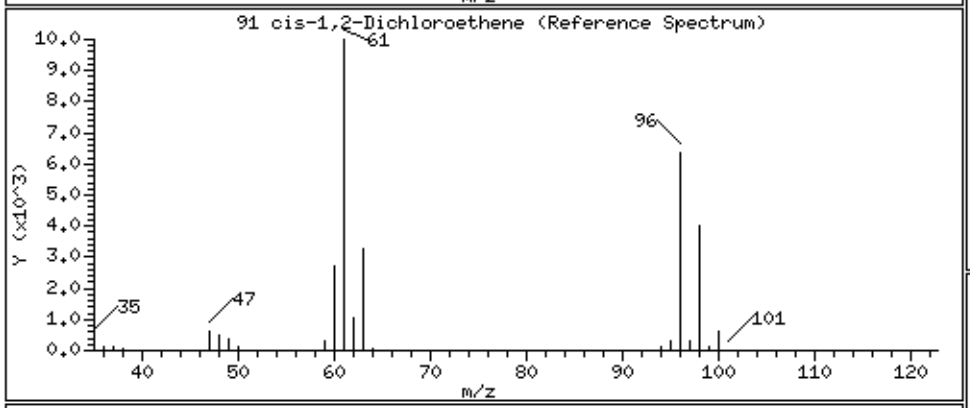
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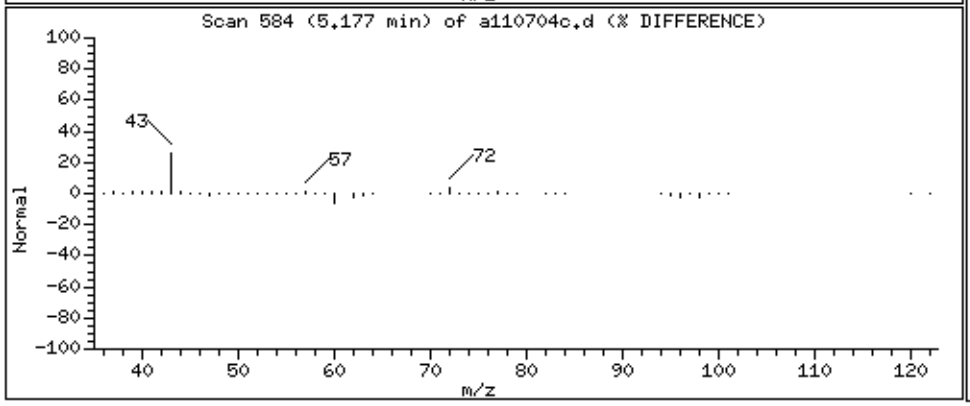
91 cis-1,2-Dichloroethene

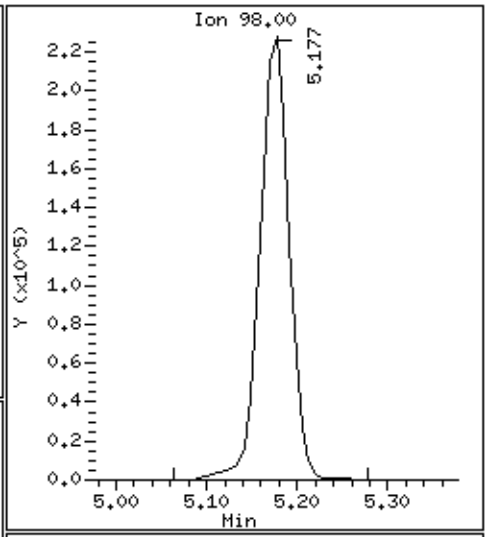
Concentration: 51.080 PPBV

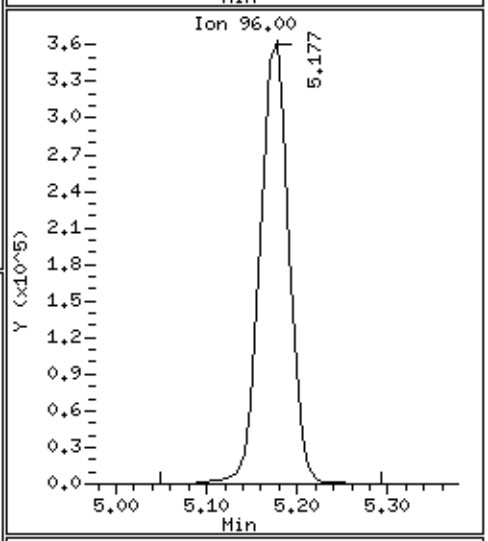


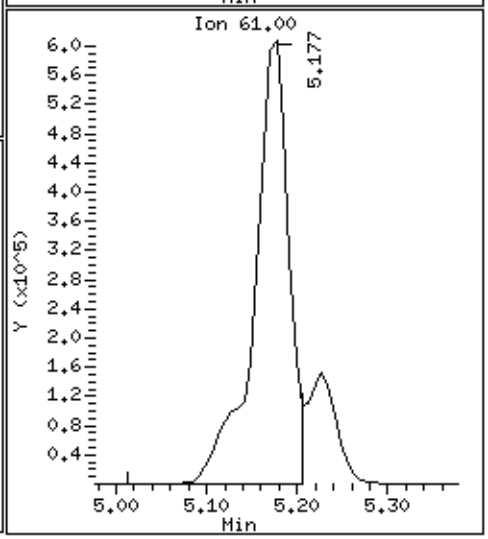












Data File: /chem/msda.i/07NOV24.b/a110704c.d

Date : 07-NOV-2024 12:22

Client ID: LCS

Instrument: msda.i

Sample Info: 50mL 3018-4858

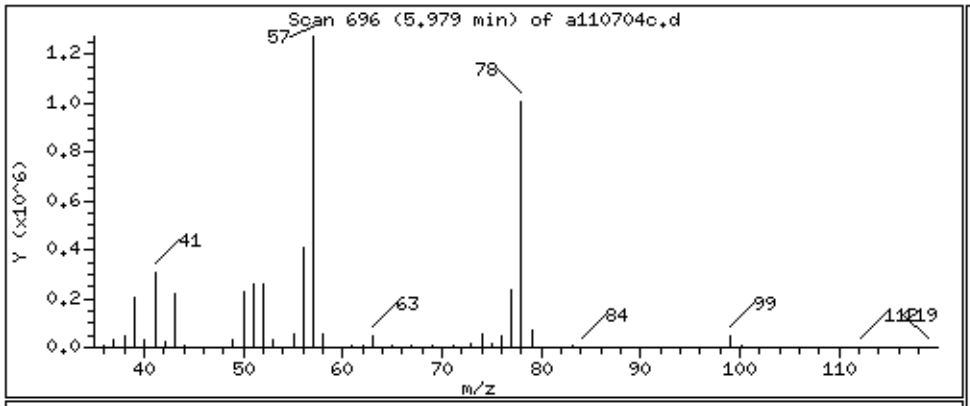
Operator: MS

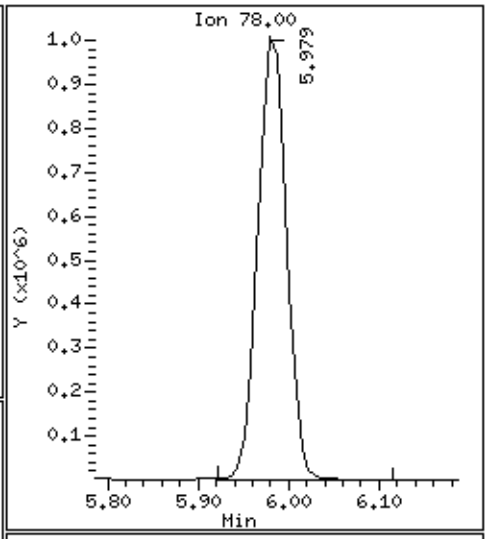
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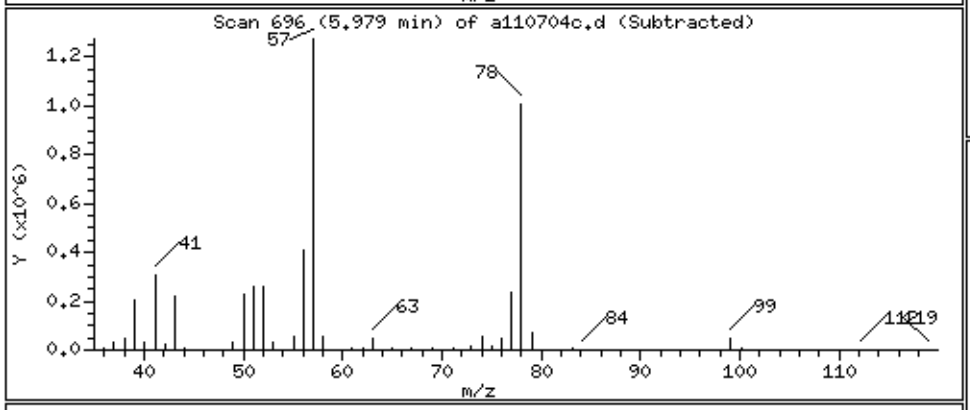
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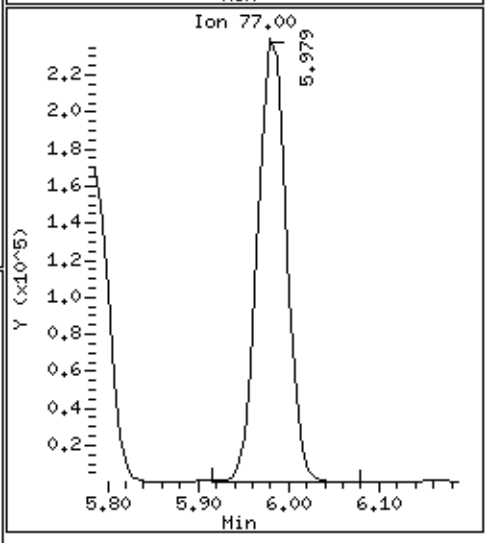
118 Benzene

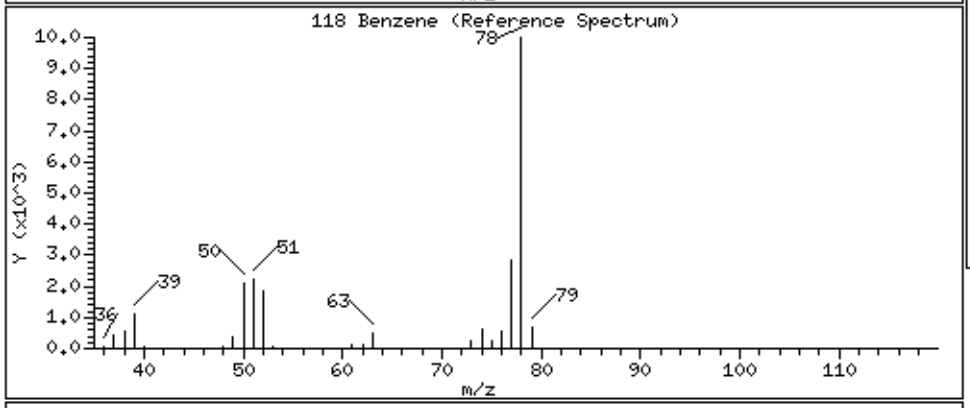
Concentration: 53.748 PPBV

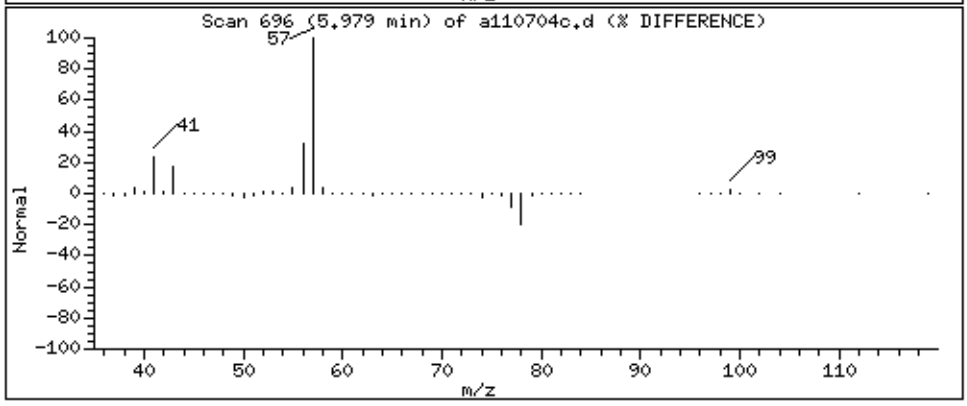












Data File: /chem/msda.i/07NOV24.b/a110704c.d

Date : 07-NOV-2024 12:22

Client ID: LCS

Instrument: msda.i

Sample Info: 50mL 3018-4858

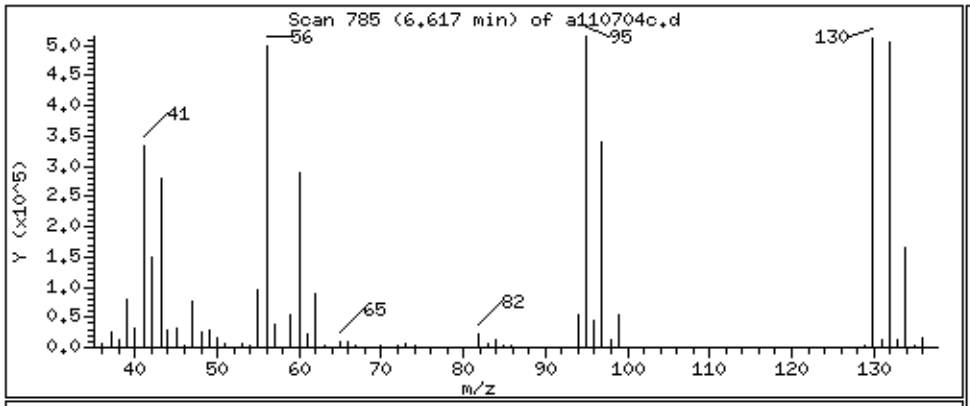
Operator: MS

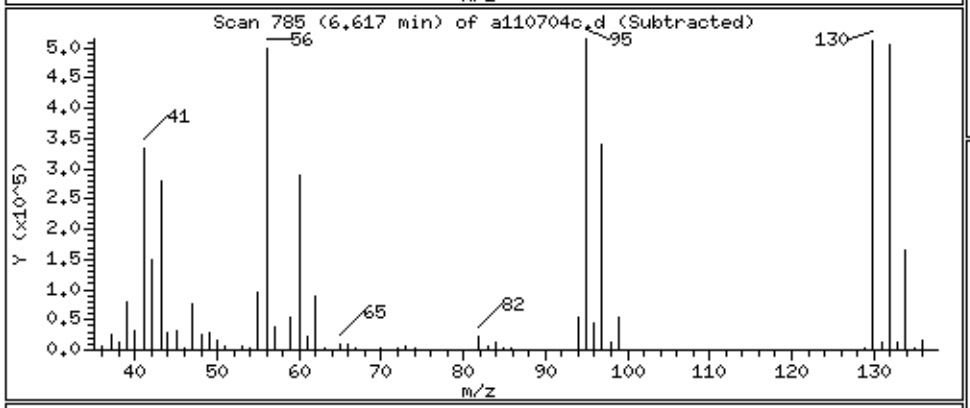
Column phase: RTX-624

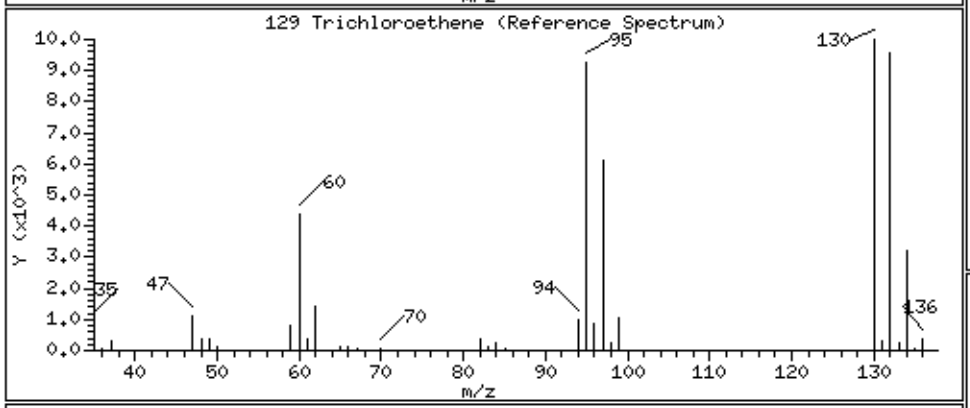
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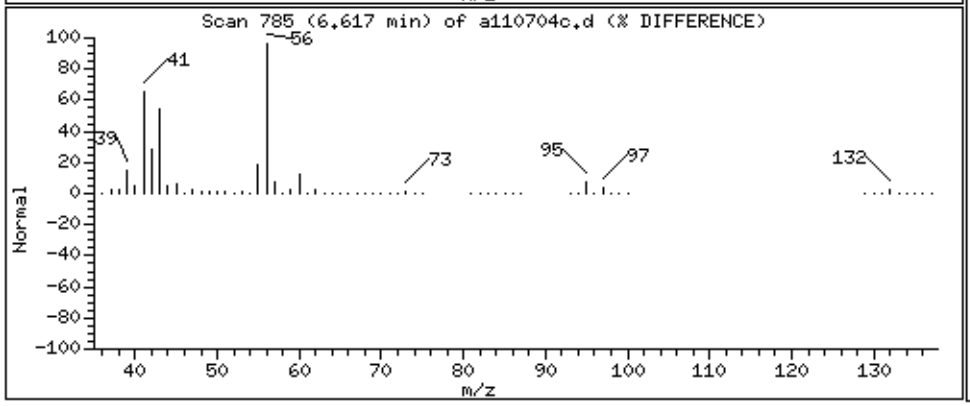
129 Trichloroethene

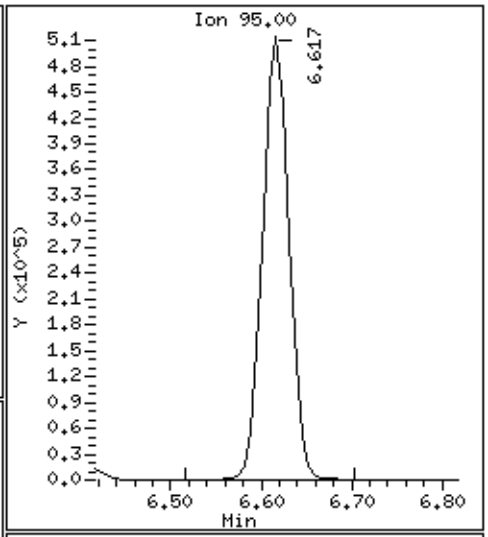
Concentration: 49.875 PPBV

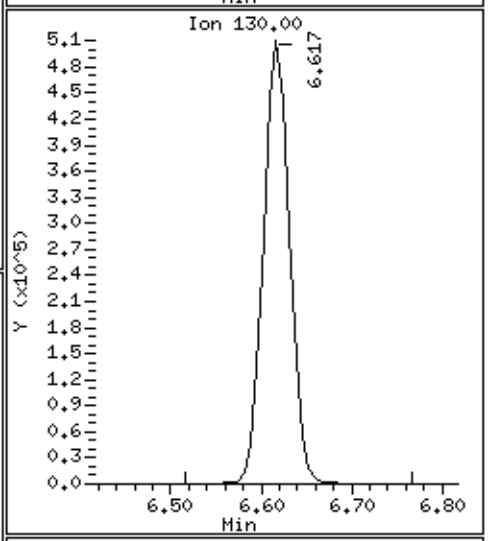


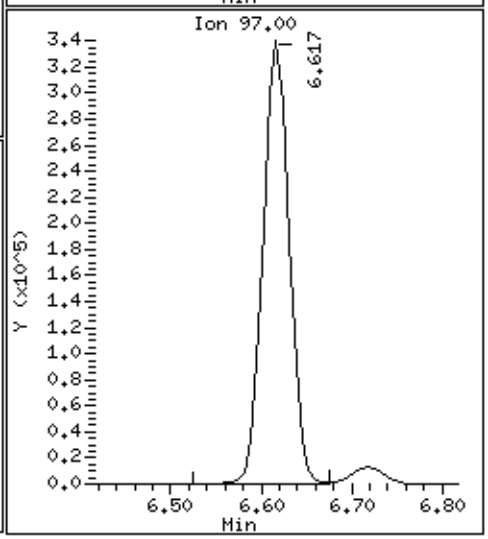












Data File: /chem/msda.i/07NOV24.b/a110704c.d

Date : 07-NOV-2024 12:22

Client ID: LCS

Instrument: msda.i

Sample Info: 50mL 3018-4858

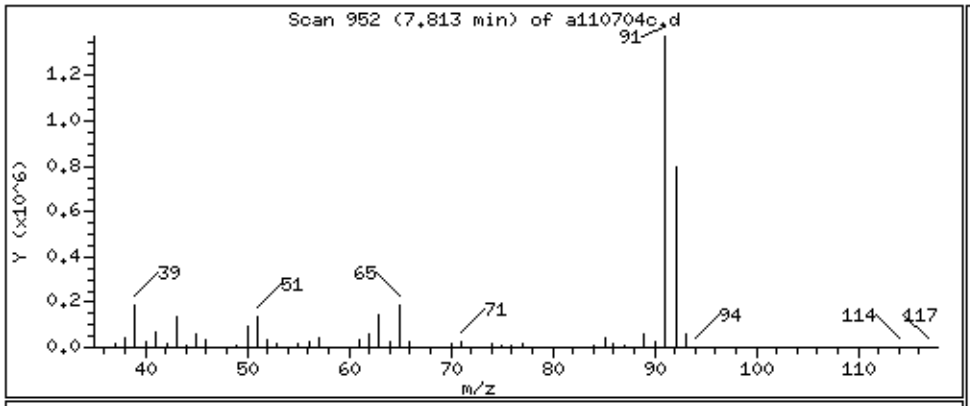
Operator: MS

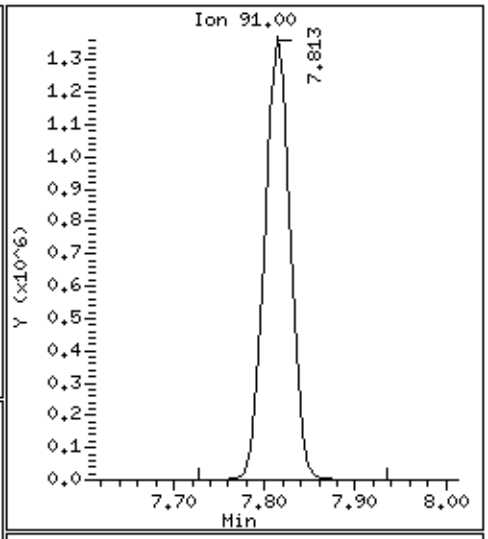
Column phase: RTX-624

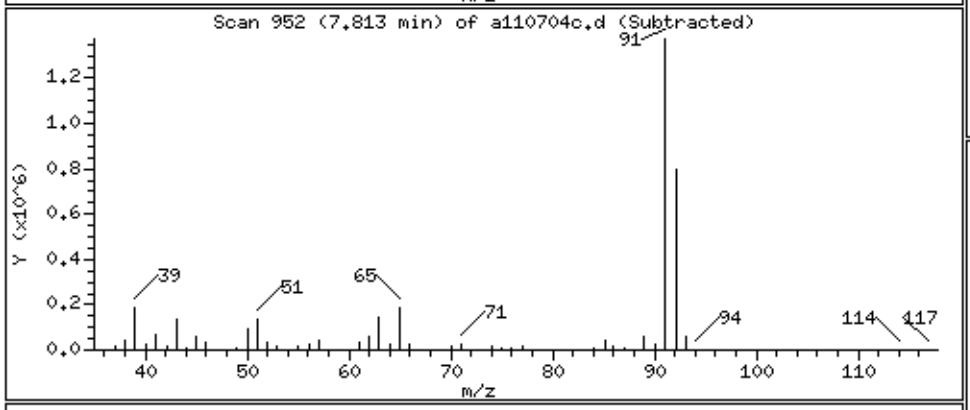
Column diameter: 0.25

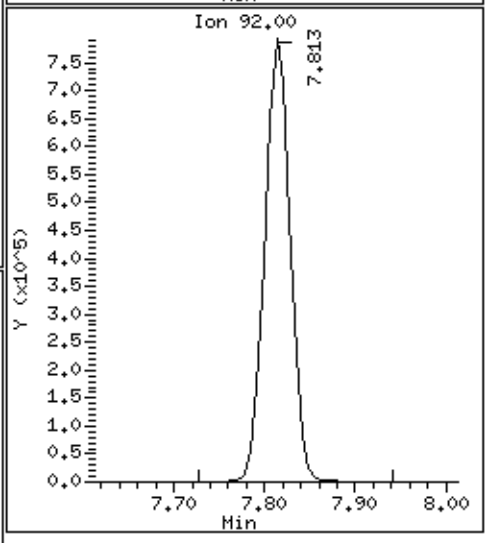
153 Toluene

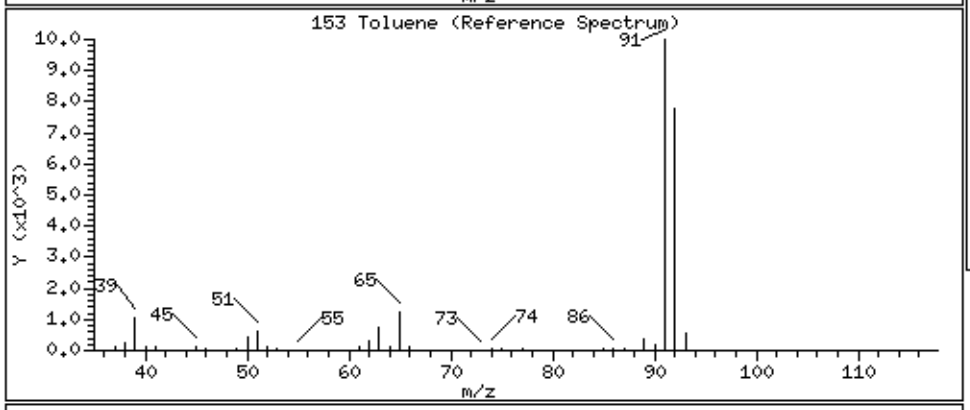
Concentration: 49.850 PPBV

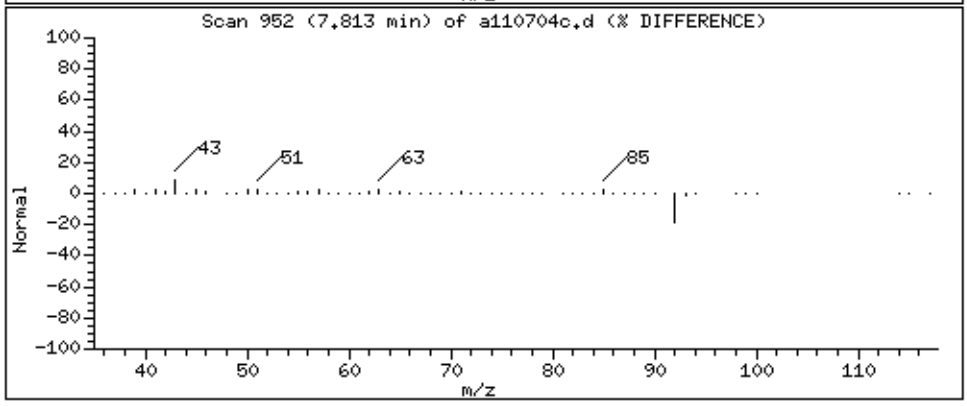












Data File: /chem/msda.i/07NOV24.b/a110704c.d

Date : 07-NOV-2024 12:22

Client ID: LCS

Instrument: msda.i

Sample Info: 50mL 3018-4858

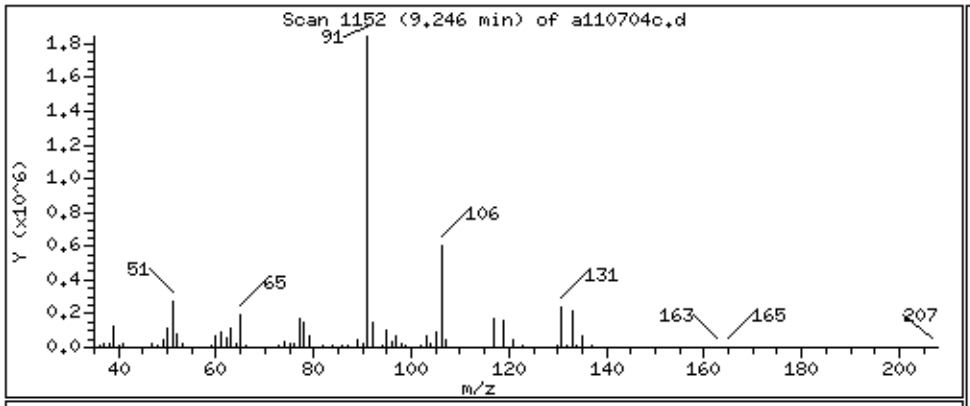
Operator: MS

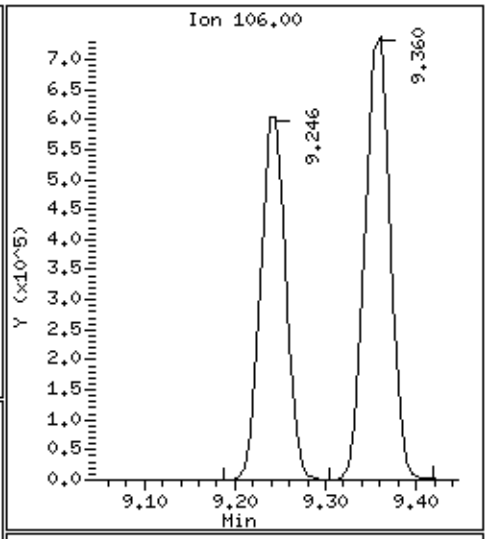
Column phase: RTX-624

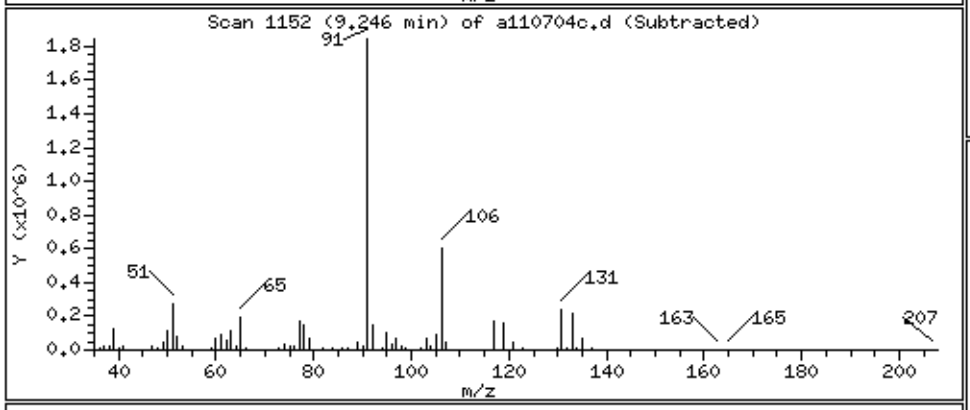
Column diameter: 0.25

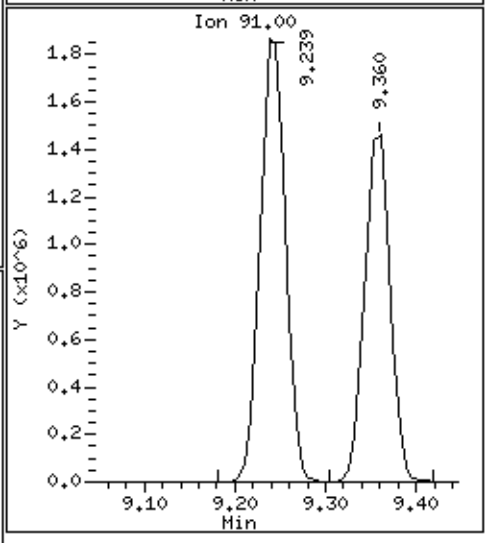
167 Ethyl Benzene

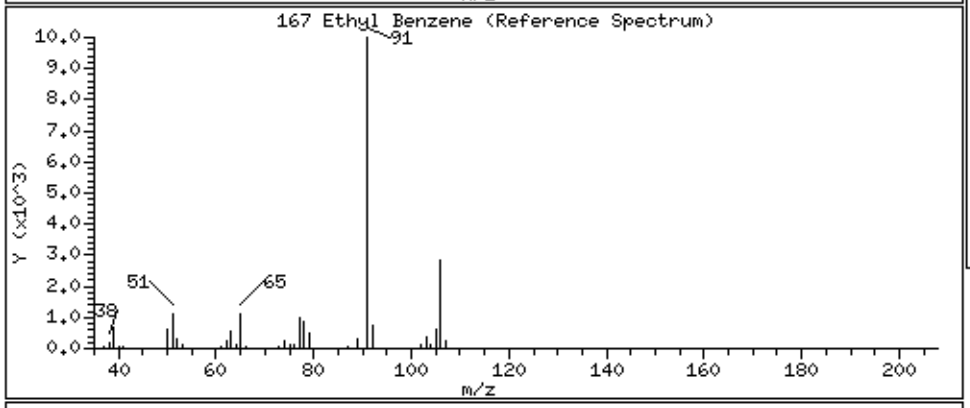
Concentration: 51.530 PPBV

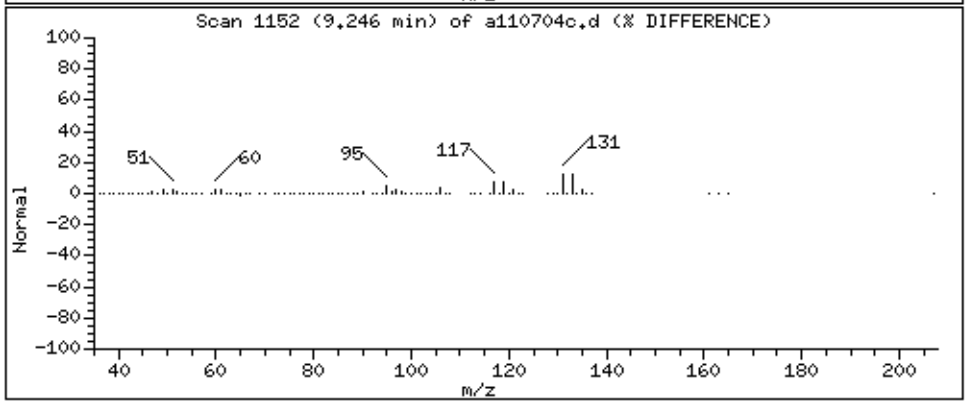












Data File: /chem/msda.i/07NOV24.b/a110704c.d

Date : 07-NOV-2024 12:22

Client ID: LCS

Instrument: msda.i

Sample Info: 50mL 3018-4858

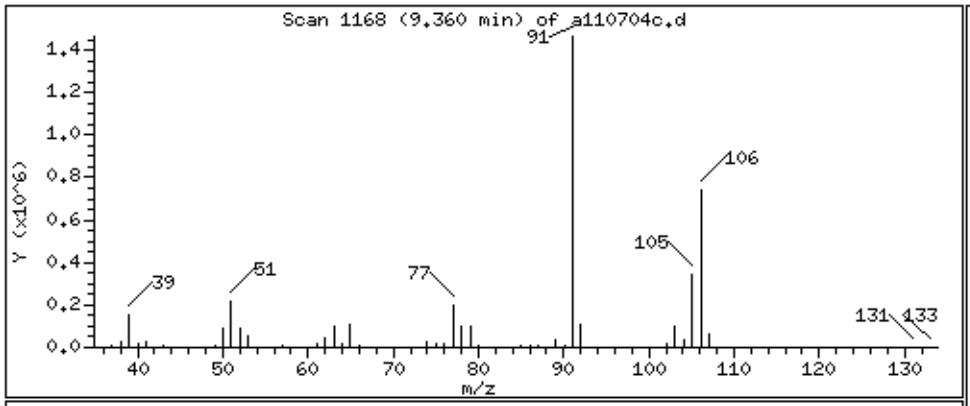
Operator: MS

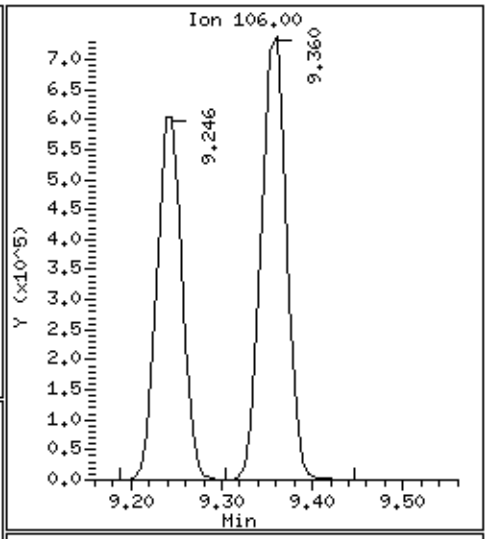
Column phase: RTX-624

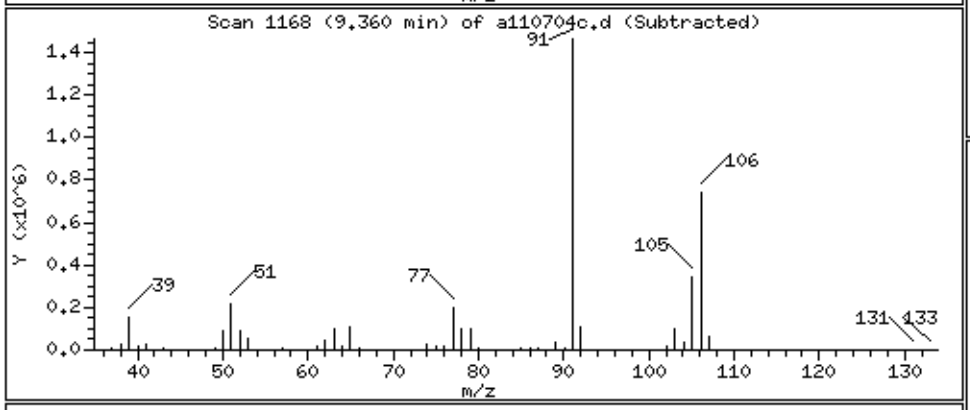
Column diameter: 0.25

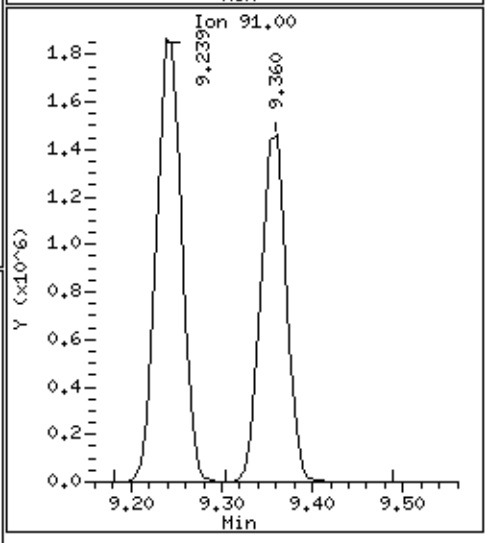
173 m,p-Xylene

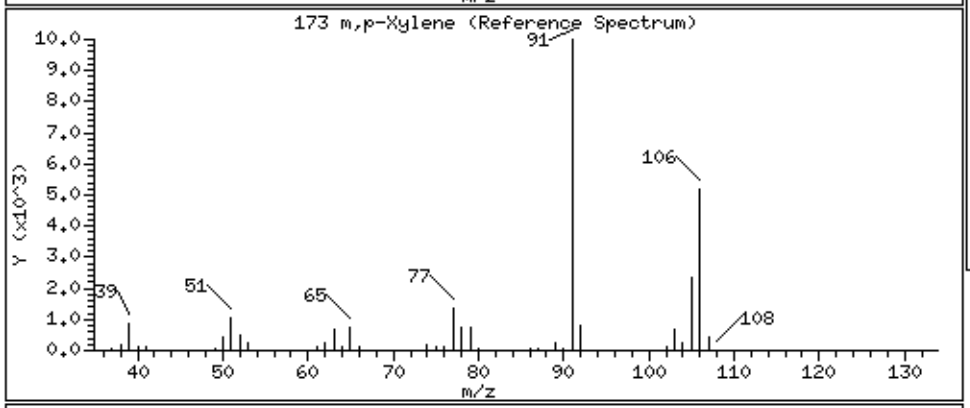
Concentration: 50.584 PPBV

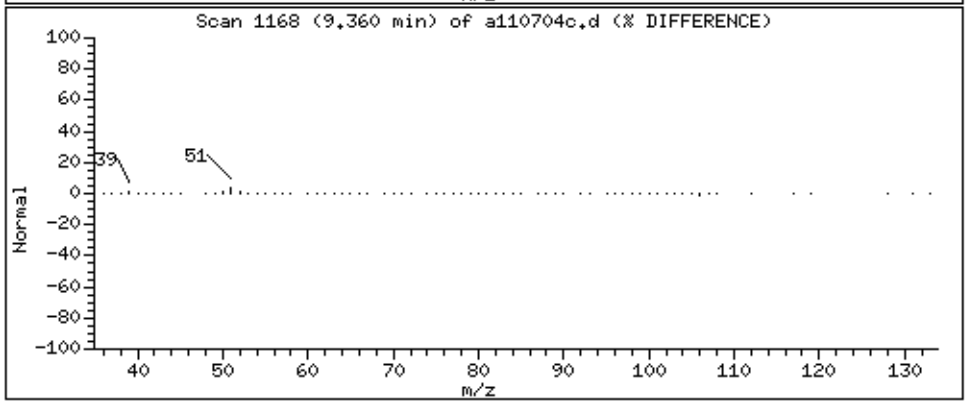












Data File: /chem/msda.i/07NOV24.b/a110704c.d

Date : 07-NOV-2024 12:22

Client ID: LCS

Instrument: msda.i

Sample Info: 50mL 3018-4858

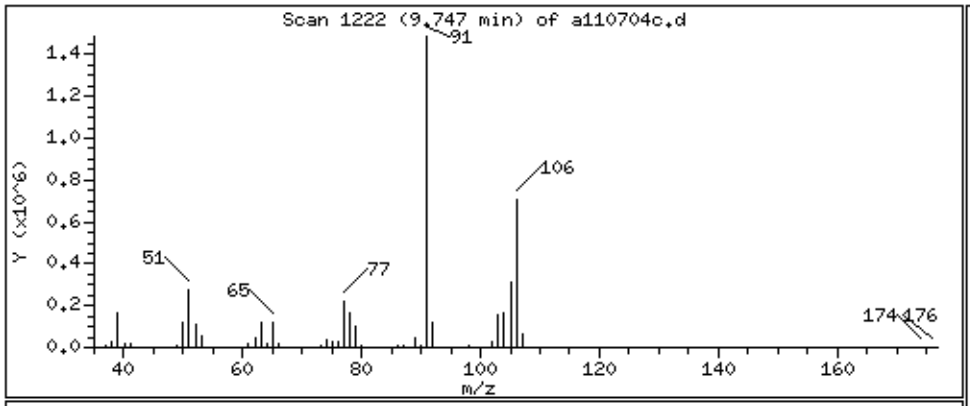
Operator: MS

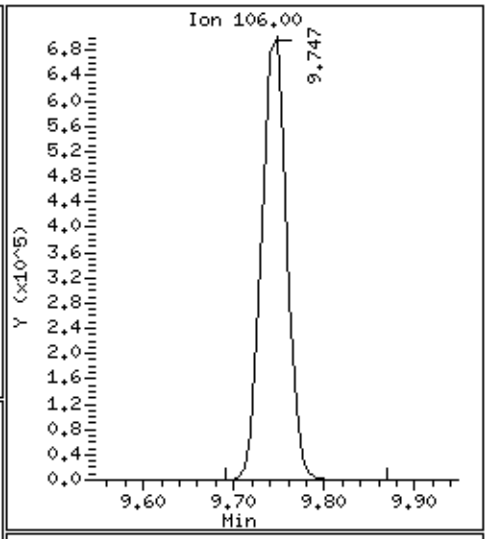
Column phase: RTX-624

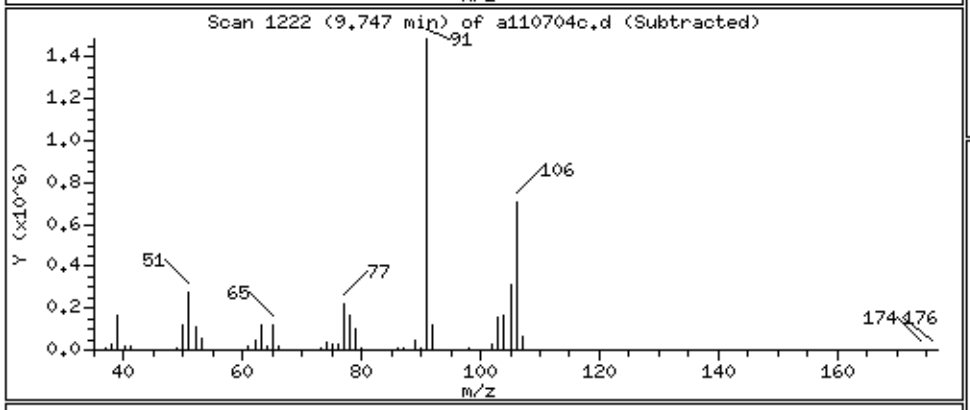
Column diameter: 0.25

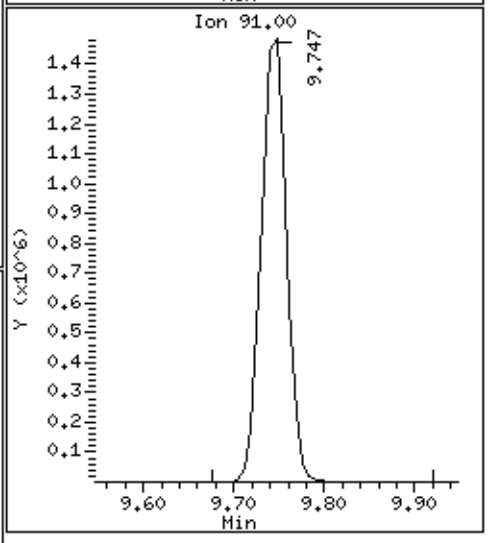
176 o-Xylene

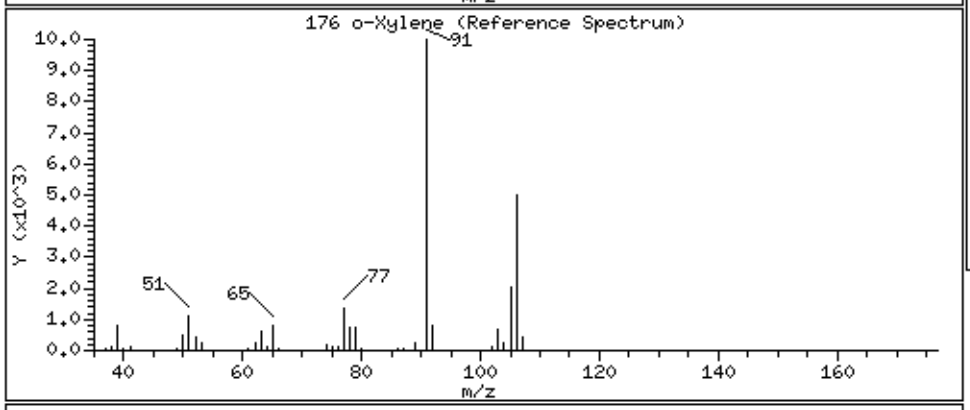
Concentration: 50.943 PPBV

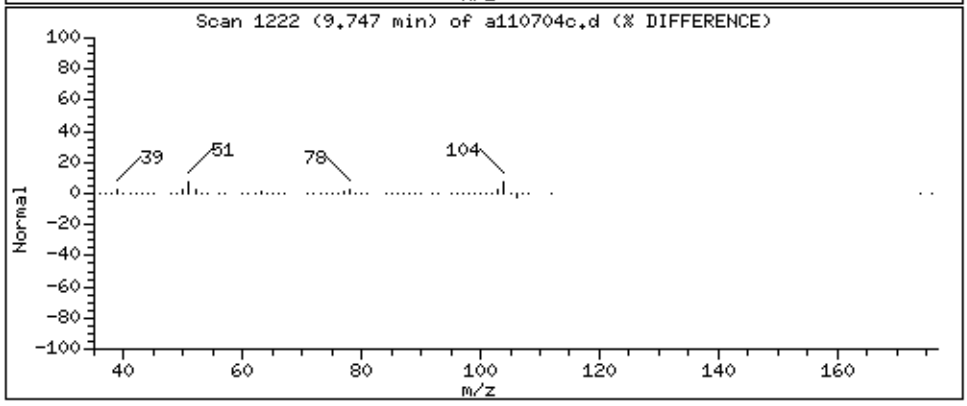












Data File: /chem/msda.i/07NOV24.b/a110704c.d

Date : 07-NOV-2024 12:22

Client ID: LCS

Instrument: msda.i

Sample Info: 50mL 3018-4858

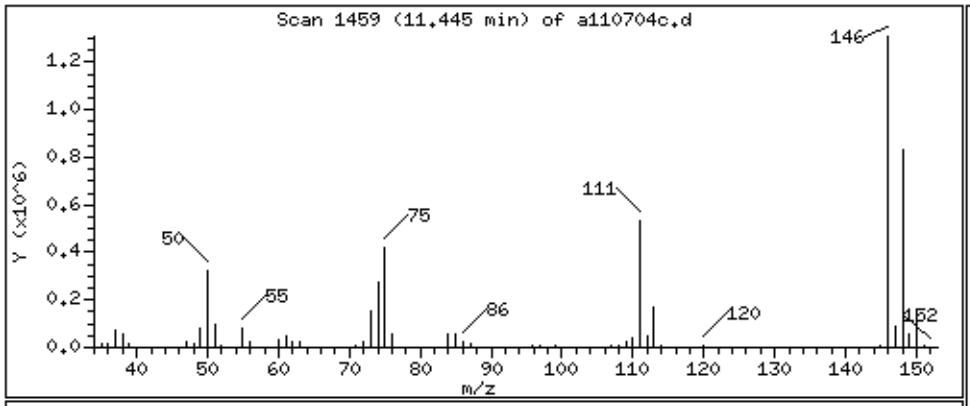
Operator: MS

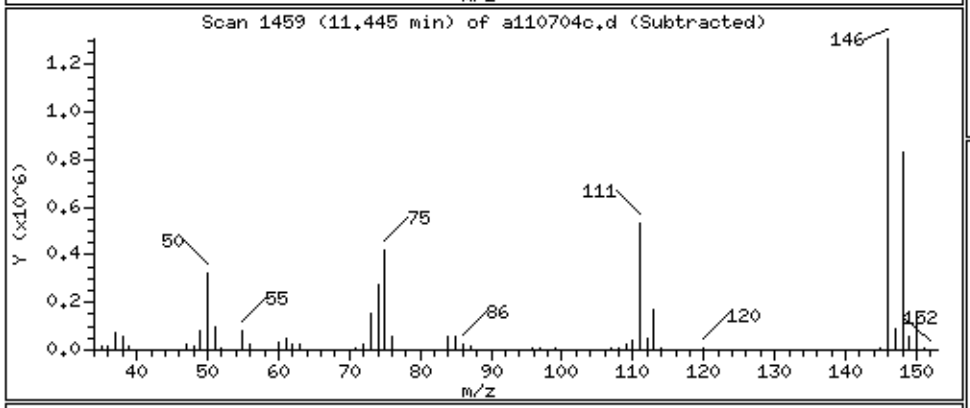
Column phase: RTX-624

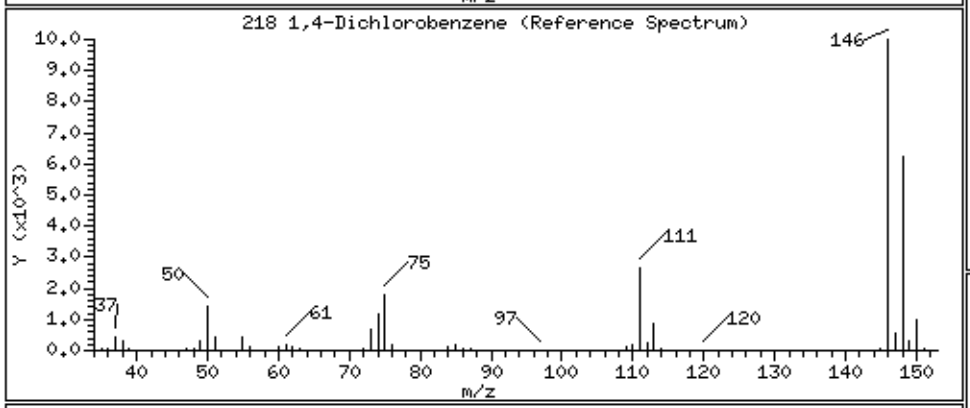
Column diameter: 0.25

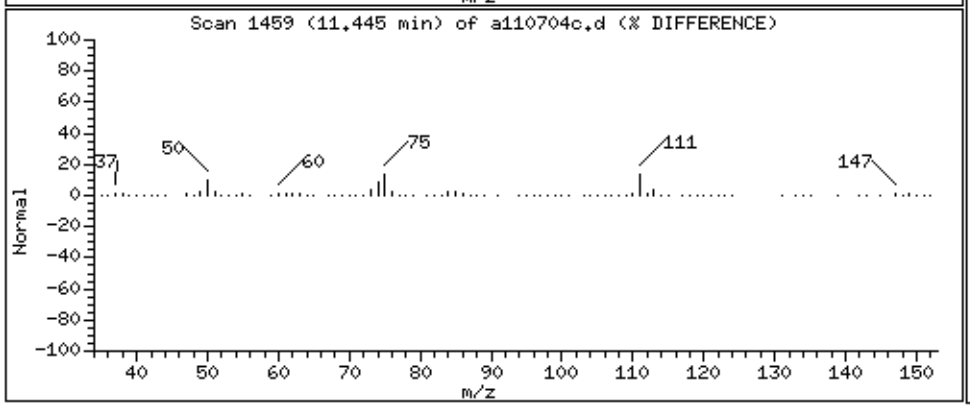
218 1,4-Dichlorobenzene

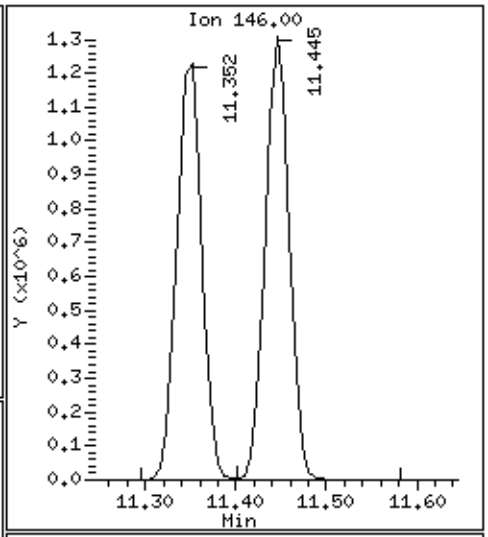
Concentration: 47.884 PPBV

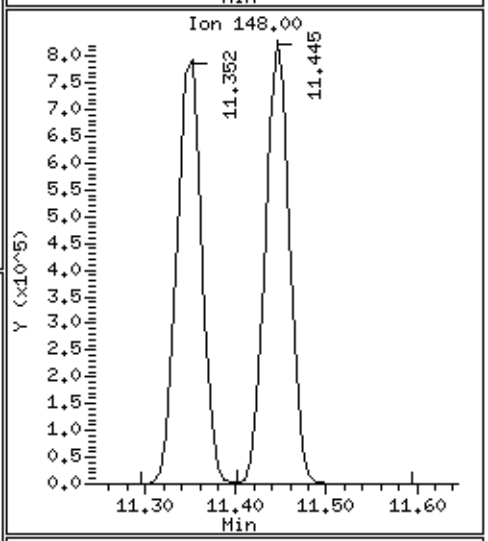


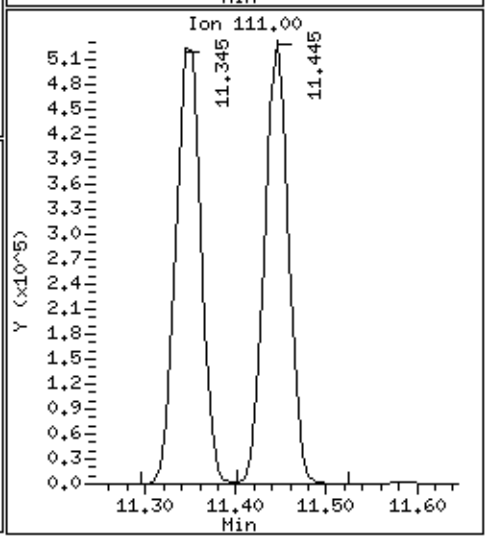












eurofins | Air Toxics

Client ID:	LCSD		
Lab ID:	2410702A-19AA	**Date/Time Analyzed:**	11/7/24 12:57 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msda.i / a110705c

Compound	CAS#	%Recovery
1,1-Dichloroethene	75-35-4	101
1,4-Dichlorobenzene	106-46-7	96
Benzene	71-43-2	109
cis-1,2-Dichloroethene	156-59-2	107
Ethyl Benzene	100-41-4	103
m,p-Xylene	108-38-3	102
o-Xylene	95-47-6	103
Toluene	108-88-3	101
trans-1,2-Dichloroethene	156-60-5	104
Trichloroethene	79-01-6	101
Vinyl Chloride	75-01-4	100

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	87
4-Bromofluorobenzene	460-00-4	70-130	93
Toluene-d8	2037-26-5	70-130	102

* % Recovery is calculated using unrounded analytical results.

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/07NOV24.b/a110705c.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 07-NOV-2024 12:57
Operator : MS Inst ID: msda.i
Smp Info : 50mL 3018-4858
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/07NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:38 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 14 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	321228	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	249692			46.45- 106.45	77.73
5.421	5.428 (1.000)	49	619444			167.12- 227.12	192.84
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	1178708	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	192129			0.00- 46.36	16.30
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	1097174	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	611209			27.12- 87.12	55.71
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	486353	21.7631	21.763	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	278788			23.36- 83.36	57.32
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.749	7.756 (1.209)	98	1260020	25.6387	25.639	80.00- 120.00	100.00
7.749	7.756 (1.209)	70	141017			0.00- 41.92	11.19

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.749	7.756 (1.209)	100	856206			39.07- 99.07	67.95
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	683795	23.3711	23.371	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	845210			89.27- 149.27	123.61
10.292	10.292 (1.125)	176	669368			66.29- 126.29	97.89
24 Vinyl Chloride					CAS #: 75-01-4		
1.732	1.753 (0.319)	62	694303	50.2530	50.253	80.00- 120.00	100.00
1.739	1.753 (0.320)	64	211283			0.00- 59.56	30.43
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.079	3.086 (0.567)	98	436316	50.4887	50.489	80.00- 120.00	100.00
3.079	3.093 (0.567)	96	688724			127.35- 187.35	157.85
3.079	3.086 (0.567)	61	1452777			327.38- 387.38	332.96
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.017	4.024 (0.740)	98	476329	51.7631	51.763	80.00- 120.00	100.00
4.017	4.024 (0.740)	61	1425817			282.80- 342.80	299.33
4.017	4.024 (0.740)	96	759922			122.91- 182.91	159.54
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	516306	53.5251	53.525	80.00- 120.00	100.00(Q)
5.177	5.177 (0.954)	96	799763			123.49- 183.49	154.90
5.177	5.177 (0.954)	61	1599573			310.35- 370.35	309.81
118 Benzene					CAS #: 71-43-2		
5.980	5.987 (0.933)	78	2223166	54.4390	54.439	80.00- 120.00	100.00
5.980	5.987 (0.933)	77	533414			0.00- 53.99	23.99
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	1047721	50.3209	50.321	80.00- 120.00	100.00
6.617	6.617 (1.032)	130	1030141			67.98- 127.98	98.32
6.617	6.617 (1.032)	97	681309			34.45- 94.45	65.03
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.219)	91	2720400	50.7110	50.711	80.00- 120.00	100.00
7.813	7.813 (1.219)	92	1568103			27.69- 87.69	57.64
167 Ethyl Benzene					CAS #: 100-41-4		
9.239	9.246 (1.010)	106	1180590	51.7364	51.736	80.00- 120.00	100.00
9.239	9.246 (1.010)	91	3660679			281.27- 341.27	310.07
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.360 (1.023)	106	1444841	50.8578	50.858	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
173 m,p-Xylene (continued)							
9.353	9.360 (1.023)	91	2916586			176.41- 236.41	201.86
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.066)	106	1373539	51.6761	51.676	80.00- 120.00	100.00
9.747	9.747 (1.066)	91	2896126			186.60- 246.60	210.85
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.251)	146	2431368	48.2447	48.245	80.00- 120.00	100.00
11.445	11.445 (1.251)	148	1534366			34.50- 94.50	63.11
11.445	11.445 (1.251)	111	988952			12.20- 72.20	40.67

QC Flag Legend

Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110705c.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 07-NOV-2024
Calibration Time: 11:48
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	300803	180482	421124	321228	6.79
126 1,4-Difluorobenze	1130282	678169	1582395	1178708	4.28
165 Chlorobenzene-d5	1024524	614714	1434334	1097174	7.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

US32TAR1

RECOVERY REPORT

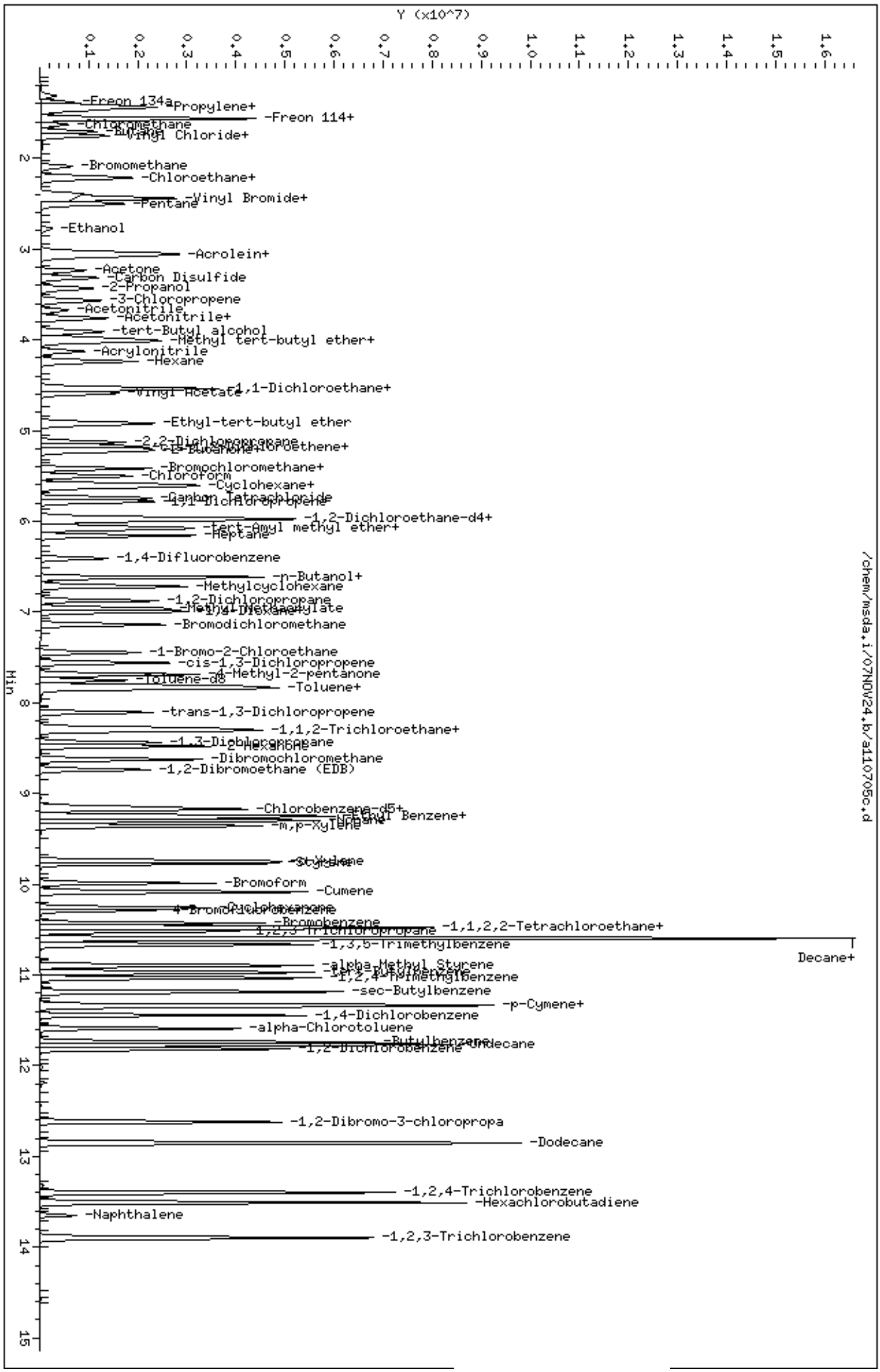
Client Name: Client SDG: 07NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCSD Client Smp ID: LCSD
Level: LOW Operator: MS
Data Type: MS DATA SampleType: LCSD
SpikeList File: ControlDODAT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/07NOV24.b/a24q0910a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Freon 134a	50.000	44.119	88.24	70-130
8 Propylene	50.000	47.849	95.70	57-136
9 1,1-Difluoroethan	50.000	51.270	102.54	70-130
10 Freon 12	50.000	45.750	91.50	59-128
12 Chlorodifluoromet	50.000	42.914	85.83	59-145
15 Freon 114	50.000	49.254	98.51	63-121
16 Isobutane	50.000	51.372	102.74	70-130
17 Chloromethane	50.000	56.243	112.49	59-132
22 Butane	50.000	53.258	106.52	64-129
24 Vinyl Chloride	50.000	50.253	100.51	64-127
25 1,3-Butadiene	50.000	51.614	103.23	66-134
29 Bromomethane	50.000	56.640	113.28	63-134
30 Chloroethane	50.000	57.907	115.81	63-127
31 Isopentane	50.000	53.951	107.90	59-140
32 Vinyl Bromide	50.000	55.523	111.05	71-126
33 Freon 11	50.000	45.032	90.06	62-126
35 Dichlorofluoromet	50.000	52.887	105.77	70-130
37 Pentane	50.000	53.102	106.20	63-131
42 Ethanol	58.000	58.046	100.08	59-125
46 Acrolein	58.000	58.486	100.84	62-126
47 Freon 113	50.000	47.186	94.37	66-126
49 1,1-Dichloroethen	50.000	50.489	100.98	61-133
52 Acetone	50.000	51.769	103.54	58-128
54 Carbon Disulfide	50.000	54.528	109.06	57-134
57 2-Propanol	50.000	56.595	113.19	52-125
58 3-Chloropropene	50.000	53.906	107.81	71-131
60 Acetonitrile	50.000	50.144	100.29	63-132
64 Methylene Chlorid	50.000	50.488	100.98	62-115
70 tert-Butyl alcoho	50.000	52.229	104.46	24-150
72 Methyl tert-butyl	50.000	47.181	94.36	66-126
73 trans-1,2-Dichlor	50.000	51.763	103.53	67-124
74 Acrylonitrile	50.000	51.133	102.27	71-137
78 Hexane	50.000	48.777	97.55	63-120

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
83	1,1-Dichloroethan	50.000	50.452	100.90	68-126
82	Isopropyl ether	50.000	47.935	95.87	70-117
84	Vinyl Acetate	50.000	64.270	128.54	56-139
88	Ethyl-tert-butyl	50.000	46.827	93.65	70-130
90	2,2-Dichloropropa	50.000	43.672	87.34	70-130
91	cis-1,2-Dichloroe	50.000	53.525	107.05	70-121
92	2-Butanone	50.000	56.147	112.29	67-130
93	Ethyl Acetate	50.000	54.078	108.16	65-128
99	Tetrahydrofuran	50.000	50.709	101.42	64-123
103	Chloroform	50.000	46.188	92.38	68-123
106	1,1,1-Trichloroet	50.000	43.506	87.01	68-125
112	Carbon Tetrachlor	50.000	41.824	83.65	68-132
104	Cyclohexane	50.000	51.307	102.61	70-117
113	1,1-Dichloroprope	50.000	51.962	103.92	70-130
117	2,2,4-Trimethylpe	50.000	49.246	98.49	68-121
118	Benzene	50.000	54.439	108.88	69-119
121	1,2-Dichloroethan	50.000	45.824	91.65	65-128
122	Heptane	50.000	54.062	108.12	69-123
128	n-Butanol	50.000	56.427	112.85	62-133
129	Trichloroethene	50.000	50.321	100.64	71-123
131	Methylcyclohexane	50.000	49.529	99.06	67-127
135	1,2-Dichloropropa	50.000	52.992	105.98	69-123
139	Methyl Methacryla	50.000	55.234	110.47	70-128
140	1,4-Dioxane	50.000	53.507	107.01	71-122
141	Dibromomethane	50.000	47.961	95.92	70-130
142	Bromodichlorometh	50.000	47.194	94.39	72-128
149	cis-1,3-Dichlorop	50.000	53.374	106.75	70-128
150	4-Methyl-2-pentan	50.000	52.241	104.48	67-130
151	Octane	50.000	49.060	98.12	69-121
153	Toluene	50.000	50.711	101.42	66-119
154	trans-1,3-Dichlor	50.000	49.702	99.40	75-133
158	1,1,2-Trichloroet	50.000	52.032	104.06	73-119
159	Tetrachloroethene	50.000	46.873	93.75	66-124
162	2-Hexanone	50.000	52.216	104.43	62-128
161	1,3-Dichloropropa	50.000	50.848	101.70	62-148
163	Dibromochlorometh	50.000	47.232	94.46	70-130
164	1,2-Dibromoethane	50.000	49.849	99.70	74-122
144	1-Bromo-2-Chloroe	50.000	52.569	105.14	70-130
166	Chlorobenzene	50.000	50.050	100.10	70-119
167	Ethyl Benzene	50.000	51.736	103.47	70-124
170	Nonane	50.000	48.759	97.52	63-128
169	1,1,1,2-Tetrachlo	50.000	45.290	90.58	70-130
173	m,p-Xylene	50.000	50.858	101.72	61-134
176	o-Xylene	50.000	51.676	103.35	67-125
178	Styrene	50.000	51.432	102.86	73-127
184	Bromoform	50.000	46.782	93.56	66-139
185	Cumene	50.000	48.528	97.06	68-124

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
194 1,1,2,2-Tetrachlo	50.000	51.408	102.82	65-127
192 Bromobenzene	50.000	47.487	94.97	70-130
196 Propylbenzene	50.000	49.891	99.78	69-123
197 1,2,3-Trichloropr	50.000	43.879	87.76	76-124
199 Decane	50.000	51.198	102.40	70-118
200 4-Ethyltoluene	50.000	48.712	97.42	67-129
201 2-Chlorotoluene	50.000	48.662	97.32	74-130
204 1,3,5-Trimethylbe	50.000	50.621	101.24	67-130
209 alpha Methyl Styr	50.000	51.800	103.60	67-128
210 tert-Butylbenzene	50.000	47.226	94.45	65-124
212 1,2,4-Trimethylbe	50.000	51.023	102.05	66-132
214 sec-Butylbenzene	50.000	49.835	99.67	68-125
216 p-Cymene	50.000	47.694	95.39	67-130
217 1,3-Dichlorobenze	50.000	48.085	96.17	65-130
218 1,4-Dichlorobenze	50.000	48.245	96.49	60-131
219 alpha-Chlorotolue	50.000	45.600	91.20	50-147
221 Undecane	50.000	52.712	105.42	69-123
220 Butylbenzene	50.000	50.979	101.96	66-130
222 1,2-Dichlorobenze	50.000	47.625	95.25	63-129
226 1,2-Dibromo-3-chl	50.000	47.326	94.65	70-130
227 Dodecane	50.000	58.154	116.31	62-147
230 1,2,4-Trichlorobe	50.000	57.192	114.38	55-142
231 Hexachlorobutadie	50.000	52.042	104.08	56-138
232 Naphthalene	6.000	6.132	102.20	57-138
233 1,2,3-Trichlorobe	50.000	57.698	115.40	55-142

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	21.763	87.05	70-130
$ 152 Toluene-d8	25.000	25.639	102.55	70-130
$ 191 4-Bromofluorobenz	25.000	23.371	93.48	70-130


Data File: /chem/msda.i/07NOV24.b/a110705c.d
Date : 07-NOV-2024 12:57
Client ID: LCSD
Sample Info: 50mL 3018-4858
Column phase: RTX-624
Instrument: msda.i
Operator: MS
Column diameter: 0.25
/chem/msda.i/07NOV24.b/a110705c.d
Y (x10^7)
Min
-Freon 134a
-Propylene+
-Freon 114+
-Chloromethane
-Vinyl Chloride+
-Bromomethane
-Chloroethane+
-Vinyl Bromide+
-Pentane
-Ethanol
-Acrolein+
-Acetone
-Carbon Disulfide
-2-Propanol
-3-Chloropropene
-Acetonitrile
-Acetonitrile+
-tert-Butyl alcohol
-Methyl tert-butyl ether+
-Acrylonitrile
-Hexane
-1,1-Dichloroethane+
-Vinyl Acetate
-Ethyl-tert-butyl ether
-Bromochloromethane+
-Chloroform
-Cyclohexane+
-1,2-Dichloroethane-d4+
-tert-Amyl methyl ether+
-Heptane
-1,4-Difluorobenzene
-n-Butanol+
-Methylcyclohexane
-1,2-Dichloropropane
-Bromodichloromethane
-1-Bromo-2-Chloroethane
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene+
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane+
-Dibromochloromethane
-1,2-Dibromoethane (EDB)
-Chlorobenzene-d5+
-m,p-Xylene
-Bromoform
-Cumene
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-1,3,5-Trimethylbenzene
Decane+
-alpha Methyl Styrene
-sec-Butylbenzene
-p-Cymene+
-1,4-Dichlorobenzene
-alpha-Chlorotoluene
-Undecane
-1,2-Dibromo-3-chloropropa
-Dodecane
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

eurofins | Air Toxics

Client ID:	LCS		
Lab ID:	2410702A-19B	**Date/Time Analyzed:**	11/8/24 01:01 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msda.i / a110804c

Compound	CAS#	%Recovery
1,1-Dichloroethene	75-35-4	101
1,4-Dichlorobenzene	106-46-7	98
Benzene	71-43-2	108
cis-1,2-Dichloroethene	156-59-2	105
Ethyl Benzene	100-41-4	103
m,p-Xylene	108-38-3	103
o-Xylene	95-47-6	104
Toluene	108-88-3	101
trans-1,2-Dichloroethene	156-60-5	104
Trichloroethene	79-01-6	100
Vinyl Chloride	75-01-4	103

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	90
4-Bromofluorobenzene	460-00-4	70-130	97
Toluene-d8	2037-26-5	70-130	102

* % Recovery is calculated using unrounded analytical results.

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/08NOV24.b/a110804c.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 08-NOV-2024 13:01
Operator : MS Inst ID: msda.i
Smp Info : 50mL 3018-4858
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/08NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:31 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane						CAS #: 74-97-5		
5.435	5.421 (1.000)	130	287300	25.0000			80.00- 120.00	100.00
5.435	5.421 (1.000)	128	225446				46.45- 106.45	78.47
5.435	5.421 (1.000)	49	571418				167.12- 227.12	198.89
* 126 1,4-Difluorobenzene						CAS #: 540-36-3		
6.416	6.402 (1.000)	114	1075732	25.0000			80.00- 120.00	100.00
6.416	6.402 (1.000)	88	170413				0.00- 46.36	15.84
* 165 Chlorobenzene-d5						CAS #: 3114-55-4		
9.153	9.145 (1.000)	117	987120	25.0000			80.00- 120.00	100.00
9.146	9.145 (1.000)	82	558971				27.12- 87.12	56.63
$ 119 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.022	6.008 (1.108)	65	451569	22.5929	22.593		80.00- 120.00	100.00
6.022	6.008 (1.108)	67	250956				23.36- 83.36	55.57
$ 152 Toluene-d8						CAS #: 2037-26-5		
7.756	7.749 (1.209)	98	1139113	25.3973	25.397		80.00- 120.00	100.00
7.756	7.749 (1.209)	70	129539				0.00- 41.92	11.37

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.749 (1.209)	100	785573			39.07- 99.07	68.96
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.124)	174	637163	24.2052	24.205	80.00- 120.00	100.00
10.292	10.292 (1.124)	95	770481			89.27- 149.27	120.92
10.292	10.292 (1.124)	176	610622			66.29- 126.29	95.83
24 Vinyl Chloride					CAS #: 75-01-4		
1.760	1.717 (0.324)	62	633940	51.3026	51.302	80.00- 120.00	100.00
1.760	1.717 (0.324)	64	186287			0.00- 59.56	29.39
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.107	3.064 (0.572)	98	390608	50.5372	50.537	80.00- 120.00	100.00
3.107	3.064 (0.572)	96	609999			127.35- 187.35	156.17
3.107	3.064 (0.572)	61	1315207			327.38- 387.38	336.71
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.038	4.010 (0.743)	98	429746	52.2159	52.216	80.00- 120.00	100.00
4.038	4.010 (0.743)	61	1267431			282.80- 342.80	294.93
4.038	4.010 (0.743)	96	666685			122.91- 182.91	155.13
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.192	5.170 (0.955)	98	453952	52.6185	52.618	80.00- 120.00	100.00
5.192	5.170 (0.955)	96	706521			123.49- 183.49	155.64
5.184	5.170 (0.954)	61	1471508			310.35- 370.35	324.15
118 Benzene					CAS #: 71-43-2		
5.994	5.979 (0.934)	78	2009514	53.9177	53.918	80.00- 120.00	100.00
5.994	5.979 (0.934)	77	480556			0.00- 53.99	23.91
129 Trichloroethene					CAS #: 79-01-6		
6.624	6.610 (1.032)	95	951763	50.0880	50.088	80.00- 120.00	100.00
6.624	6.610 (1.032)	130	940009			67.98- 127.98	98.77
6.624	6.610 (1.032)	97	611646			34.45- 94.45	64.26
153 Toluene					CAS #: 108-88-3		
7.820	7.813 (1.219)	91	2468428	50.4188	50.419	80.00- 120.00	100.00
7.820	7.813 (1.219)	92	1426832			27.69- 87.69	57.80
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.239 (1.010)	106	1060695	51.6646	51.664	80.00- 120.00	100.00
9.246	9.239 (1.010)	91	3313892			281.27- 341.27	312.43
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.353 (1.023)	106	1321717	51.7108	51.711	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
173 m,p-Xylene (continued)							
9.360	9.353 (1.023)	91	2650729			176.41- 236.41	200.55
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	1245028	52.0635	52.063	80.00- 120.00	100.00
9.747	9.747 (1.065)	91	2619680			186.60- 246.60	210.41
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.250)	146	2219084	48.9416	48.942	80.00- 120.00	100.00
11.445	11.445 (1.250)	148	1401543			34.50- 94.50	63.16
11.445	11.445 (1.250)	111	909671			12.20- 72.20	40.99

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110804c.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 08-NOV-2024
Calibration Time: 12:27
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	291309	174785	407833	287300	-1.38
126 1,4-Difluorobenze	982121	589273	1374969	1075732	9.53
165 Chlorobenzene-d5	925746	555448	1296044	987120	6.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.42	5.09	5.75	5.44	0.27
126 1,4-Difluorobenze	6.40	6.07	6.73	6.42	0.23
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 08NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: MS
Data Type: MS DATA SampleType: LCS
SpikeList File: ControlDODAT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Freon 134a	50.000	47.342	94.68	70-130
8 Propylene	50.000	51.337	102.67	57-136
9 1,1-Difluoroethan	50.000	53.593	107.19	70-130
10 Freon 12	50.000	46.191	92.38	59-128
12 Chlorodifluoromet	50.000	45.266	90.53	59-145
15 Freon 114	50.000	48.810	97.62	63-121
16 Isobutane	50.000	52.179	104.36	70-130
17 Chloromethane	50.000	54.481	108.96	59-132
22 Butane	50.000	53.626	107.25	64-129
24 Vinyl Chloride	50.000	51.302	102.61	64-127
25 1,3-Butadiene	50.000	51.722	103.44	66-134
29 Bromomethane	50.000	59.312	118.62	63-134
30 Chloroethane	50.000	57.978	115.96	63-127
31 Isopentane	50.000	55.340	110.68	59-140
32 Vinyl Bromide	50.000	54.039	108.08	71-126
33 Freon 11	50.000	45.364	90.73	62-126
35 Dichlorofluoromet	50.000	52.353	104.71	70-130
37 Pentane	50.000	54.057	108.11	63-131
42 Ethanol	58.000	58.449	100.77	59-125
46 Acrolein	58.000	58.503	100.87	62-126
47 Freon 113	50.000	47.195	94.39	66-126
49 1,1-Dichloroethen	50.000	50.537	101.07	61-133
52 Acetone	50.000	51.291	102.58	58-128
54 Carbon Disulfide	50.000	54.377	108.75	57-134
57 2-Propanol	50.000	56.477	112.95	52-125
58 3-Chloropropene	50.000	54.386	108.77	71-131
60 Acetonitrile	50.000	52.604	105.21	63-132
64 Methylene Chlorid	50.000	50.547	101.09	62-115
70 tert-Butyl alcoho	50.000	52.241	104.48	24-150
72 Methyl tert-butyl	50.000	47.312	94.62	66-126
73 trans-1,2-Dichlor	50.000	52.216	104.43	67-124
74 Acrylonitrile	50.000	50.514	101.03	71-137
78 Hexane	50.000	50.374	100.75	63-120

SPIKE	COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
83	1,1-Dichloroethan	50.000	50.783	101.57	68-126
82	Isopropyl ether	50.000	50.632	101.26	70-117
84	Vinyl Acetate	50.000	64.846	129.69	56-139
88	Ethyl-tert-butyl	50.000	48.333	96.67	70-130
90	2,2-Dichloropropa	50.000	44.364	88.73	70-130
91	cis-1,2-Dichloroe	50.000	52.618	105.24	70-121
92	2-Butanone	50.000	55.300	110.60	67-130
93	Ethyl Acetate	50.000	58.063	116.13	65-128
99	Tetrahydrofuran	50.000	51.481	102.96	64-123
103	Chloroform	50.000	46.099	92.20	68-123
106	1,1,1-Trichloroet	50.000	44.555	89.11	68-125
112	Carbon Tetrachlor	50.000	42.665	85.33	68-132
104	Cyclohexane	50.000	51.656	103.31	70-117
113	1,1-Dichloroprope	50.000	51.671	103.34	70-130
117	2,2,4-Trimethylpe	50.000	53.149	106.30	68-121
118	Benzene	50.000	53.918	107.84	69-119
121	1,2-Dichloroethan	50.000	45.483	90.97	65-128
122	Heptane	50.000	55.089	110.18	69-123
128	n-Butanol	50.000	56.104	112.21	62-133
129	Trichloroethene	50.000	50.088	100.18	71-123
131	Methylcyclohexane	50.000	51.941	103.88	67-127
135	1,2-Dichloropropa	50.000	52.789	105.58	69-123
139	Methyl Methacryla	50.000	55.576	111.15	70-128
140	1,4-Dioxane	50.000	52.291	104.58	71-122
141	Dibromomethane	50.000	48.029	96.06	70-130
142	Bromodichlorometh	50.000	46.874	93.75	72-128
149	cis-1,3-Dichlorop	50.000	53.075	106.15	70-128
150	4-Methyl-2-pentan	50.000	52.649	105.30	67-130
151	Octane	50.000	49.783	99.57	69-121
153	Toluene	50.000	50.419	100.84	66-119
154	trans-1,3-Dichlor	50.000	50.096	100.19	75-133
158	1,1,2-Trichloroet	50.000	51.381	102.76	73-119
159	Tetrachloroethene	50.000	47.048	94.10	66-124
162	2-Hexanone	50.000	53.067	106.13	62-128
161	1,3-Dichloropropa	50.000	50.564	101.13	62-148
163	Dibromochlorometh	50.000	47.448	94.90	70-130
164	1,2-Dibromoethane	50.000	50.754	101.51	74-122
144	1-Bromo-2-Chloroe	50.000	52.184	104.37	70-130
166	Chlorobenzene	50.000	50.608	101.22	70-119
167	Ethyl Benzene	50.000	51.664	103.33	70-124
170	Nonane	50.000	50.957	101.91	63-128
169	1,1,1,2-Tetrachlo	50.000	46.772	93.54	70-130
173	m,p-Xylene	50.000	51.711	103.42	61-134
176	o-Xylene	50.000	52.063	104.13	67-125
178	Styrene	50.000	51.842	103.68	73-127
184	Bromoform	50.000	46.631	93.26	66-139
185	Cumene	50.000	49.107	98.21	68-124

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
194 1,1,2,2-Tetrachlo	50.000	51.788	103.58	65-127
192 Bromobenzene	50.000	47.689	95.38	70-130
196 Propylbenzene	50.000	50.686	101.37	69-123
197 1,2,3-Trichloropr	50.000	43.992	87.98	76-124
199 Decane	50.000	52.086	104.17	70-118
200 4-Ethyltoluene	50.000	50.035	100.07	67-129
201 2-Chlorotoluene	50.000	49.079	98.16	74-130
204 1,3,5-Trimethylbe	50.000	49.494	98.99	67-130
209 alpha Methyl Styr	50.000	51.962	103.92	67-128
210 tert-Butylbenzene	50.000	47.993	95.99	65-124
212 1,2,4-Trimethylbe	50.000	51.586	103.17	66-132
214 sec-Butylbenzene	50.000	49.828	99.66	68-125
216 p-Cymene	50.000	48.278	96.56	67-130
217 1,3-Dichlorobenze	50.000	48.590	97.18	65-130
218 1,4-Dichlorobenze	50.000	48.942	97.88	60-131
219 alpha-Chlorotolue	50.000	45.926	91.85	50-147
221 Undecane	50.000	53.972	107.94	69-123
220 Butylbenzene	50.000	51.448	102.90	66-130
222 1,2-Dichlorobenze	50.000	48.222	96.45	63-129
226 1,2-Dibromo-3-chl	50.000	47.520	95.04	70-130
227 Dodecane	50.000	58.336	116.67	62-147
230 1,2,4-Trichlorobe	50.000	56.616	113.23	55-142
231 Hexachlorobutadie	50.000	52.131	104.26	56-138
232 Naphthalene	6.000	5.854	97.56	57-138
233 1,2,3-Trichlorobe	50.000	56.633	113.27	55-142

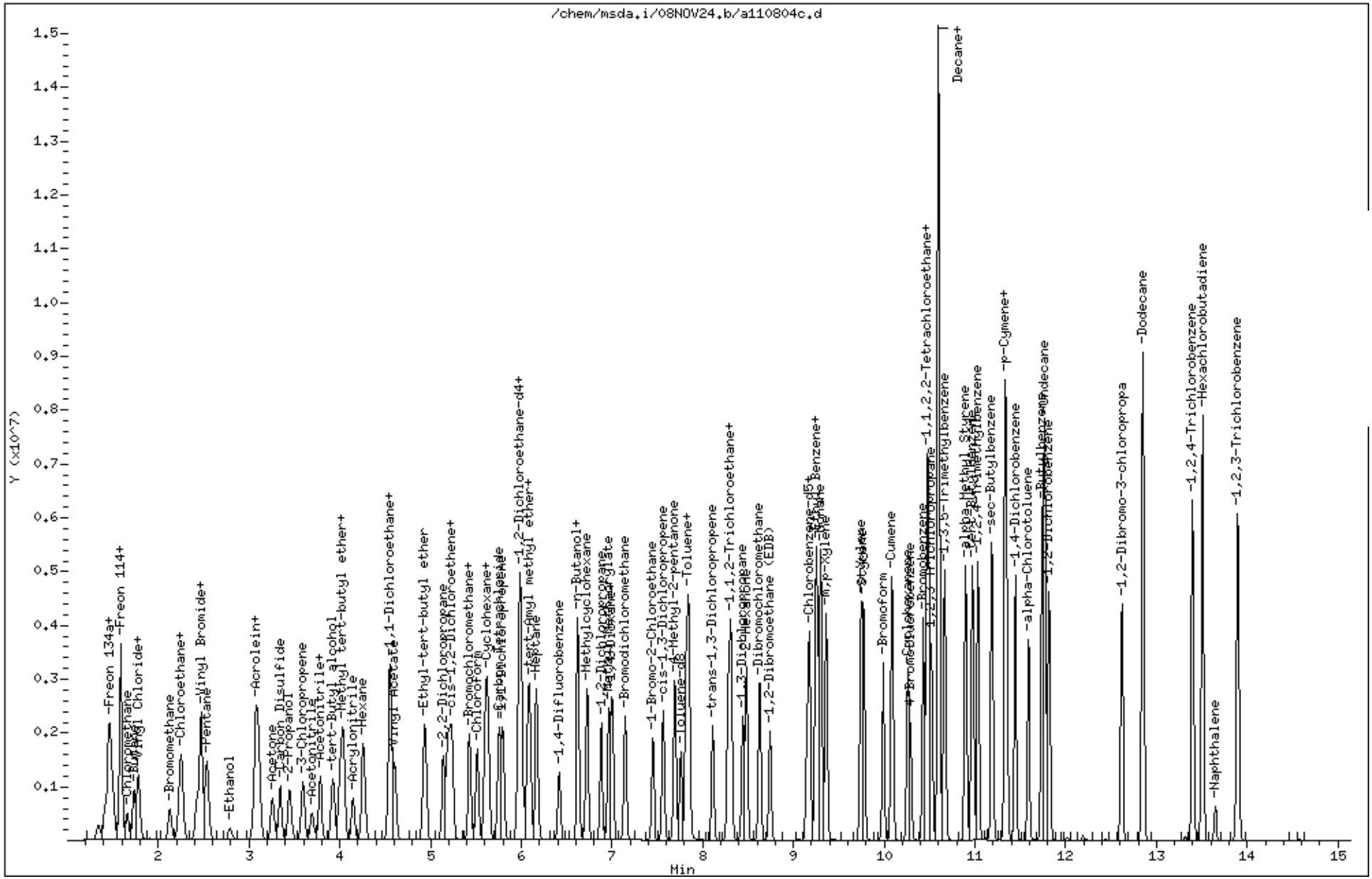
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.593	90.37	70-130
$ 152 Toluene-d8	25.000	25.397	101.59	70-130
$ 191 4-Bromofluorobenz	25.000	24.205	96.82	70-130

Data File: /chem/msda.i/08NOV24.b/a110804c.d
Date : 08-NOV-2024 13:01
Client ID: LCS
Sample Info: 50mL 3018-4858

Instrument: msda.i

Operator: MS

Column phase: RTX-624
Column diameter: 0.25



eurofins | Air Toxics

Client ID:	LCSD		
Lab ID:	2410702A-19BB	**Date/Time Analyzed:**	11/8/24 01:35 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msda.i / a110805c

Compound	CAS#	%Recovery
1,1-Dichloroethene	75-35-4	101
1,4-Dichlorobenzene	106-46-7	96
Benzene	71-43-2	108
cis-1,2-Dichloroethene	156-59-2	106
Ethyl Benzene	100-41-4	102
m,p-Xylene	108-38-3	102
o-Xylene	95-47-6	103
Toluene	108-88-3	101
trans-1,2-Dichloroethene	156-60-5	103
Trichloroethene	79-01-6	100
Vinyl Chloride	75-01-4	118

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	88
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	102

* % Recovery is calculated using unrounded analytical results.

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EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/08NOV24.b/a110805c.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 08-NOV-2024 13:35
Operator : MS Inst ID: msda.i
Smp Info : 50mL 3018-4858
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/08NOV24.b/a24q0910a.m
Meth Date : 13-Nov-2024 09:31 ugdc Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 14 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.421 (1.000)	130	290728	25.0000		80.00- 120.00	100.00
5.428	5.421 (1.000)	128	225458			46.45- 106.45	77.55
5.428	5.421 (1.000)	49	580026			167.12- 227.12	199.51
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.402 (1.000)	114	1091036	25.0000		80.00- 120.00	100.00
6.409	6.402 (1.000)	88	172756			0.00- 46.36	15.83
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.145	9.145 (1.000)	117	1015024	25.0000		80.00- 120.00	100.00
9.145	9.145 (1.000)	82	564561			27.12- 87.12	55.62
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.008 (1.108)	65	442848	21.8953	21.895	80.00- 120.00	100.00
6.015	6.008 (1.108)	67	251630			23.36- 83.36	56.82
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.749 (1.210)	98	1157285	25.4405	25.440	80.00- 120.00	100.00
7.756	7.749 (1.210)	70	131785			0.00- 41.92	11.39

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.749 (1.210)	100	781397			39.07- 99.07	67.52
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	642438	23.7347	23.735	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	791496			89.27- 149.27	123.20
10.292	10.292 (1.125)	176	611681			66.29- 126.29	95.21
24 Vinyl Chloride					CAS #: 75-01-4		
1.739	1.717 (0.320)	62	737276	58.9617	58.962	80.00- 120.00	100.00
1.739	1.717 (0.320)	64	224742			0.00- 59.56	30.48
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.086	3.064 (0.568)	98	396153	50.6503	50.650	80.00- 120.00	100.00
3.086	3.064 (0.568)	96	626956			127.35- 187.35	158.26
3.086	3.064 (0.568)	61	1318751			327.38- 387.38	332.89
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.010 (0.741)	98	429673	51.5915	51.591	80.00- 120.00	100.00
4.024	4.010 (0.741)	61	1291802			282.80- 342.80	300.65
4.024	4.010 (0.741)	96	669003			122.91- 182.91	155.70
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.170 (0.954)	98	464378	53.1923	53.192	80.00- 120.00	100.00
5.177	5.170 (0.954)	96	713961			123.49- 183.49	153.75
5.177	5.170 (0.954)	61	1493846			310.35- 370.35	321.69
118 Benzene					CAS #: 71-43-2		
5.987	5.979 (0.934)	78	2044356	54.0832	54.083	80.00- 120.00	100.00
5.987	5.979 (0.934)	77	487474			0.00- 53.99	23.84
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.610 (1.032)	95	961555	49.8935	49.894	80.00- 120.00	100.00
6.617	6.610 (1.032)	130	946581			67.98- 127.98	98.44
6.617	6.610 (1.032)	97	619211			34.45- 94.45	64.40
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.219)	91	2503180	50.4114	50.411	80.00- 120.00	100.00
7.813	7.813 (1.219)	92	1433839			27.69- 87.69	57.28
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.239 (1.011)	106	1078309	51.0786	51.079	80.00- 120.00	100.00
9.246	9.239 (1.011)	91	3344407			281.27- 341.27	310.15
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.353 (1.023)	106	1339301	50.9583	50.958	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
173 m,p-Xylene (continued)							
9.360	9.353 (1.023)	91	2675568			176.41- 236.41	199.77
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.066)	106	1266894	51.5215	51.521	80.00- 120.00	100.00
9.747	9.747 (1.066)	91	2660587			186.60- 246.60	210.01
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.251)	146	2230634	47.8439	47.844	80.00- 120.00	100.00
11.445	11.445 (1.251)	148	1411134			34.50- 94.50	63.26
11.445	11.445 (1.251)	111	912953			12.20- 72.20	40.93

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a110805c.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 08-NOV-2024
Calibration Time: 12:27
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	291309	174785	407833	290728	-0.20
126 1,4-Difluorobenze	982121	589273	1374969	1091036	11.09
165 Chlorobenzene-d5	925746	555448	1296044	1015024	9.64

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.42	5.09	5.75	5.43	0.13
126 1,4-Difluorobenze	6.40	6.07	6.73	6.41	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

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RECOVERY REPORT

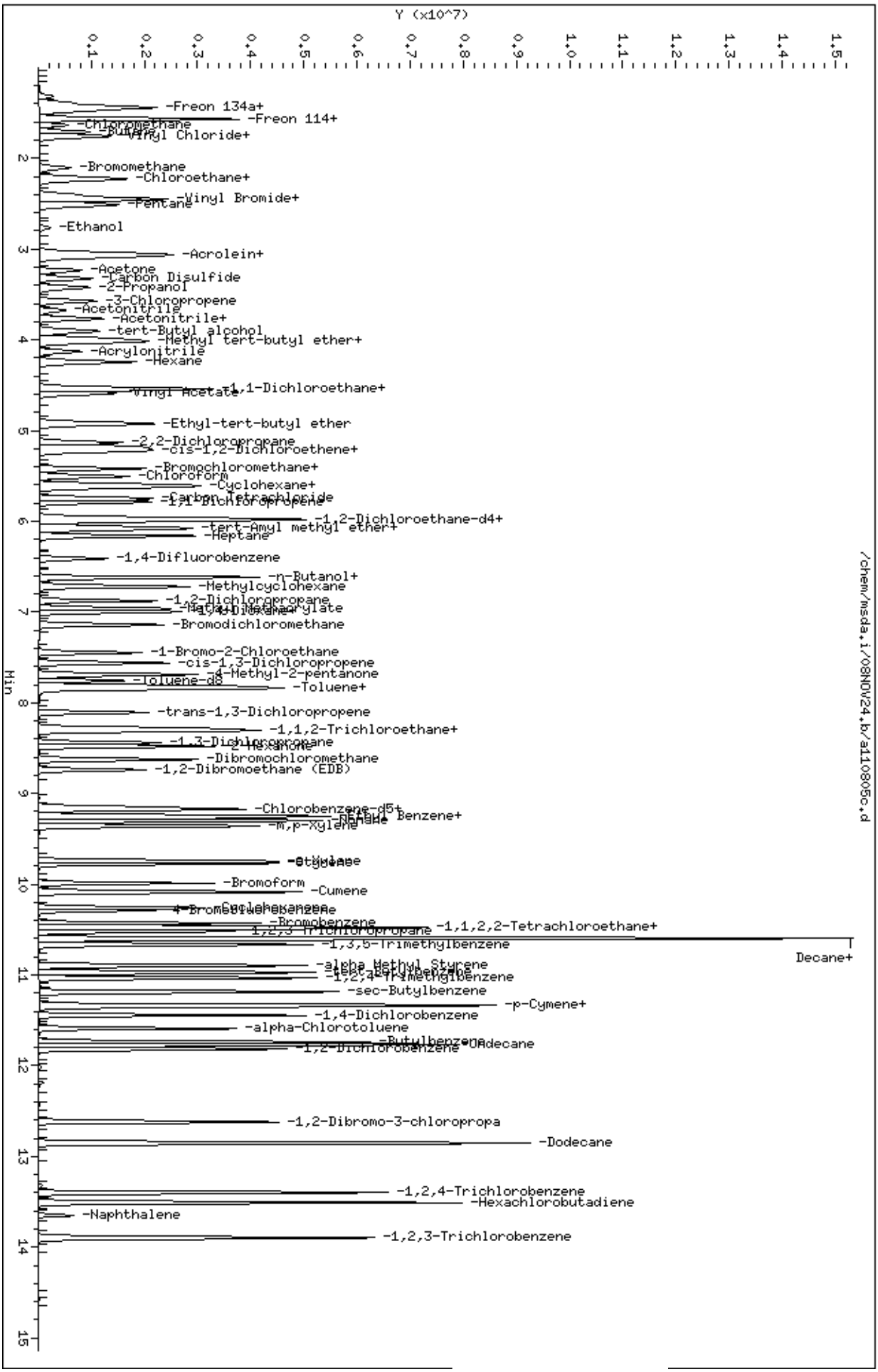
Client Name: Client SDG: 08NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCSD Client Smp ID: LCSD
Level: LOW Operator: MS
Data Type: MS DATA SampleType: LCSD
SpikeList File: ControlDODAT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/08NOV24.b/a24q0910a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Freon 134a	50.000	47.543	95.09	70-130
8 Propylene	50.000	51.012	102.02	57-136
9 1,1-Difluoroethan	50.000	54.546	109.09	70-130
10 Freon 12	50.000	46.290	92.58	59-128
12 Chlorodifluoromet	50.000	46.570	93.14	59-145
15 Freon 114	50.000	49.103	98.21	63-121
16 Isobutane	50.000	51.699	103.40	70-130
17 Chloromethane	50.000	57.587	115.17	59-132
22 Butane	50.000	52.920	105.84	64-129
24 Vinyl Chloride	50.000	58.962	117.92	64-127
25 1,3-Butadiene	50.000	61.196	122.39	66-134
29 Bromomethane	50.000	59.591	119.18	63-134
30 Chloroethane	50.000	58.016	116.03	63-127
31 Isopentane	50.000	54.852	109.70	59-140
32 Vinyl Bromide	50.000	54.691	109.38	71-126
33 Freon 11	50.000	45.204	90.41	62-126
35 Dichlorofluoromet	50.000	52.134	104.27	70-130
37 Pentane	50.000	54.119	108.24	63-131
42 Ethanol	58.000	57.700	99.48	59-125
46 Acrolein	58.000	58.502	100.86	62-126
47 Freon 113	50.000	47.149	94.30	66-126
49 1,1-Dichloroethen	50.000	50.650	101.30	61-133
52 Acetone	50.000	51.512	103.03	58-128
54 Carbon Disulfide	50.000	54.208	108.42	57-134
57 2-Propanol	50.000	56.250	112.50	52-125
58 3-Chloropropene	50.000	53.348	106.70	71-131
60 Acetonitrile	50.000	51.420	102.84	63-132
64 Methylene Chlorid	50.000	50.544	101.09	62-115
70 tert-Butyl alcoho	50.000	52.035	104.07	24-150
72 Methyl tert-butyl	50.000	47.765	95.53	66-126
73 trans-1,2-Dichlor	50.000	51.591	103.18	67-124
74 Acrylonitrile	50.000	51.467	102.93	71-137
78 Hexane	50.000	50.544	101.09	63-120

SPIKE	COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
83	1,1-Dichloroethan	50.000	50.600	101.20	68-126
82	Isopropyl ether	50.000	50.408	100.82	70-117
84	Vinyl Acetate	50.000	64.497	128.99	56-139
88	Ethyl-tert-butyl	50.000	48.901	97.80	70-130
90	2,2-Dichloropropa	50.000	44.130	88.26	70-130
91	cis-1,2-Dichloroe	50.000	53.192	106.38	70-121
92	2-Butanone	50.000	55.022	110.04	67-130
93	Ethyl Acetate	50.000	56.752	113.50	65-128
99	Tetrahydrofuran	50.000	50.831	101.66	64-123
103	Chloroform	50.000	45.718	91.44	68-123
106	1,1,1-Trichloroet	50.000	44.769	89.54	68-125
112	Carbon Tetrachlor	50.000	42.854	85.71	68-132
104	Cyclohexane	50.000	52.332	104.66	70-117
113	1,1-Dichloroprope	50.000	51.104	102.21	70-130
117	2,2,4-Trimethylpe	50.000	52.647	105.29	68-121
118	Benzene	50.000	54.083	108.17	69-119
121	1,2-Dichloroethan	50.000	45.264	90.53	65-128
122	Heptane	50.000	54.882	109.76	69-123
128	n-Butanol	50.000	56.146	112.29	62-133
129	Trichloroethene	50.000	49.894	99.79	71-123
131	Methylcyclohexane	50.000	51.704	103.41	67-127
135	1,2-Dichloropropa	50.000	52.314	104.63	69-123
139	Methyl Methacryla	50.000	55.038	110.08	70-128
140	1,4-Dioxane	50.000	51.880	103.76	71-122
141	Dibromomethane	50.000	46.807	93.61	70-130
142	Bromodichlorometh	50.000	46.827	93.65	72-128
149	cis-1,3-Dichlorop	50.000	52.785	105.57	70-128
150	4-Methyl-2-pentan	50.000	51.754	103.51	67-130
151	Octane	50.000	49.570	99.14	69-121
153	Toluene	50.000	50.411	100.82	66-119
154	trans-1,3-Dichlor	50.000	48.965	97.93	75-133
158	1,1,2-Trichloroet	50.000	50.634	101.27	73-119
159	Tetrachloroethene	50.000	46.568	93.14	66-124
162	2-Hexanone	50.000	52.433	104.87	62-128
161	1,3-Dichloropropa	50.000	50.609	101.22	62-148
163	Dibromochlorometh	50.000	46.623	93.25	70-130
164	1,2-Dibromoethane	50.000	49.002	98.00	74-122
144	1-Bromo-2-Chloroe	50.000	52.166	104.33	70-130
166	Chlorobenzene	50.000	49.467	98.93	70-119
167	Ethyl Benzene	50.000	51.079	102.16	70-124
170	Nonane	50.000	49.647	99.29	63-128
169	1,1,1,2-Tetrachlo	50.000	46.515	93.03	70-130
173	m,p-Xylene	50.000	50.958	101.92	61-134
176	o-Xylene	50.000	51.521	103.04	67-125
178	Styrene	50.000	51.791	103.58	73-127
184	Bromoform	50.000	46.331	92.66	66-139
185	Cumene	50.000	48.309	96.62	68-124

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
194 1,1,2,2-Tetrachlo	50.000	50.279	100.56	65-127
192 Bromobenzene	50.000	47.158	94.32	70-130
196 Propylbenzene	50.000	49.637	99.27	69-123
197 1,2,3-Trichloropr	50.000	43.183	86.37	76-124
199 Decane	50.000	51.464	102.93	70-118
200 4-Ethyltoluene	50.000	48.178	96.36	67-129
201 2-Chlorotoluene	50.000	48.644	97.29	74-130
204 1,3,5-Trimethylbe	50.000	49.815	99.63	67-130
209 alpha Methyl Styr	50.000	51.249	102.50	67-128
210 tert-Butylbenzene	50.000	47.367	94.73	65-124
212 1,2,4-Trimethylbe	50.000	50.866	101.73	66-132
214 sec-Butylbenzene	50.000	49.219	98.44	68-125
216 p-Cymene	50.000	47.796	95.59	67-130
217 1,3-Dichlorobenze	50.000	47.934	95.87	65-130
218 1,4-Dichlorobenze	50.000	47.844	95.69	60-131
219 alpha-Chlorotolue	50.000	44.675	89.35	50-147
221 Undecane	50.000	52.588	105.18	69-123
220 Butylbenzene	50.000	50.408	100.82	66-130
222 1,2-Dichlorobenze	50.000	47.254	94.51	63-129
226 1,2-Dibromo-3-chl	50.000	46.788	93.58	70-130
227 Dodecane	50.000	58.760	117.52	62-147
230 1,2,4-Trichlorobe	50.000	56.532	113.06	55-142
231 Hexachlorobutadie	50.000	51.933	103.87	56-138
232 Naphthalene	6.000	6.000	100.00	57-138
233 1,2,3-Trichlorobe	50.000	57.673	115.35	55-142

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	21.895	87.58	70-130
$ 152 Toluene-d8	25.000	25.440	101.76	70-130
$ 191 4-Bromofluorobenz	25.000	23.735	94.94	70-130


Data File: /chem/msda.i/08NOV24.b/a110805c.d
Date : 08-NOV-2024 13:35
Client ID: LCSD
Sample Info: 50mL 3018-4858
Column phase: RTX-624
Instrument: msda.i
Operator: MS
Column diameter: 0.25
/chem/msda.i/08NOV24.b/a110805c.d
Y (x10^7)
Min
-Freon 134a+
-Freon 114+
-Chloromethane
-Vinyl Chloride+
-Bromomethane
-Chloroethane+
-Vinyl Bromide+
-Pentane
-Ethanol
-Acrolein+
-Acetone
-Carbon Disulfide
-2-Propanol
-3-Chloropropene
-Acetonitrile
-Acetonitrile+
-tert-Butyl alcohol
-Methyl tert-butyl ether+
-Acrylonitrile
-Hexane
-Vinyl Acetate
-1,1-Dichloroethane+
-Ethyl-tert-butyl ether
-2,2-Dichloropropane
-cis-1,2-Dichloroethene+
-Bromochloromethane+
-Chloroform
-Cyclohexane+
-1,1-Dichloropropene
-1,2-Dichloroethane-d4+
-tert-Amyl methyl ether+
-Heptane
-1,4-Difluorobenzene
-n-Butanol+
-Methylcyclohexane
-1,2-Dichloropropane
-Bromodichloromethane
-1-Bromo-2-Chloroethane
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene+
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane+
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane (EDB)
-Chlorobenzene-d5+
-m,p-Xylene
-Bromoform
-Cumene
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-1,3,5-Trimethylbenzene
Decane+
-alpha Methyl Styrene
-sec-Butylbenzene
-p-Cymene+
-1,4-Dichlorobenzene
-alpha-Chlorotoluene
-Undecane
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-Dodecane
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
Page 1

Instrument Run Log

MSD-A

S:_Screeningseq\MSDA\08Nov2(

rification of 176/174 ratio:		(285888/296576)*100=96.39 %	
IS/S Std.#:	3169-1048	Exp. Date:	6/9/2025
Bromochloromethane:		300803	
1,4-Difluorobenzene:		1130282	
Chlorobenzene-d5:		1024524	
Verified CCV vs ICAL midpoint (+/-40%) :		MS/LD	
Method		a2410910a.m	

Method TO-15			
SOP#	6		
		Load (mLs)	200
Surrogate#	3169-1048	Exp. Date:	6/9/2025
CCV	3018-4859A	Exp. Date:	1/2/2025
LCS	3018-4858	Exp. Date:	1/2/2025
CCV sp #1		Exp. Date:	

Use	File	Lab ID #	Can#/Standard ID#	Cart Pos	Pressure	Amount Loaded	DF	Verify Load By Intials	Loaded By Intials	Date Analyzed	Time Analyzed	Review By Intials	Comments
√	A110701	System Blank	6L2284	12	Humid	200mL	1.00	MS/LD	MS	11/07/24	1039	MS/LD	
√	A110702	BFB Tune Check	3169-1048	12	36ng	50mL	1.00	MS/LD	MS	11/07/24	1113	MS/LD	
√	A110703	CCV	3018-4859A	13	50ppbv (100ppbv)	100mL	1.00	MS/LD	MS	11/07/24	1148	MS/LD	exp. 1/2/2025. 1 out NTC at 31%
√	A110704	LCS	3018-4858	14	50ppbv (200ppbv)	50mL	1.00	MS/LD	MS	11/07/24	1222	MS/LD	exp. 1/2/2025. 0 out
√	A110705	LCSD	3018-4858	14	50ppbv (200ppbv)	50mL	1.00	MS/LD	MS	11/07/24	1257	MS/LD	exp. 1/2/2025. 0 out RPD ok
√	A110706	Lab Blank	6L2284	12	Humid	200mL	1.00	MS/LD	MS	11/07/24	1334	MS/LD	
√	A110707	2410723-01A	N8468	1	2.4 Hg->1.9 psi	200mL	1.23	DF	MS	11/07/24	1517	DF	
√	A110708	2410723-02A	N1851	2	12 Hg->1.8 psi	200mL	1.87	DF	MS	11/07/24	1554	DF	
√	A110709	2410723-03A	O0352	3	8.4 Hg->1.9 psi	200mL	1.57	DF	MS	11/07/24	1631	DF	
√	A110710	2410723-04A	N7196	4	9.2 Hg->1.9 psi	200mL	1.63	DF	MS	11/07/24	1708	DF	
√	A110711	2410723-01AA	N8468	1	2.4 Hg->1.9 psi	200mL	1.23	DF	MS	11/07/24	1745	DF	duped
√	A110712	CDOC #3	3018-4858	14	50ppbv (200ppbv)	50mL	1.00	DF	DF	11/07/24	1842	DF	exp 1/2/25
√	A110713	System Blank	6L2284	12	Humid	200mL	1.00	DF	DF	11/07/24	2001	DF	
x	A110714	2410732-07A	N8278	1	4.9 Hg->10 psi	130mL	3.09	DF	DF	11/07/24	2040	DF	only 130mL loaded under vacuum
√	A110715	2410755-01A	N0245	2	5.3 Hg->10.1 psi	200mL	2.05	DF	DF	11/07/24	2117	DF	
√	A110716	2410755-01AA	N0245	2	5.3 Hg->10.1 psi	200mL	2.05	DF	DF	11/07/24	2156	DF	
√	A110717	2410732-07A.	N8278	1	4.9 Hg->10 psi	200mL	3.90	AB	DF	11/08/24	0000	AB	re press 4 "Hg-> 10psi DF=3.90
√	A110718	2410732-07AA	N8278	1	4.9 Hg->10 psi	200mL	3.90	AB	DF	11/08/24	0037	AB	Dup AnB
√	A110719	2410702-01A	N8093	5	6.1 Hg->10 psi	200mL	2.11	AB	DF	11/08/24	0114	AB	
√	A110720	2410702-01AA	N8093	5	6.1 Hg->10 psi	200mL	2.11	AB	DF	11/08/24	0151	AB	Dup AnB
√	A110721	2410702-02A	1L1519	6	6.1 Hg->10 psi	200mL	2.11	AB	DF	11/08/24	0228	AB	
√	A110722	2410702-03A	N7769	7	6.7 Hg->9.9 psi	200mL	2.15	AB	DF	11/08/24	0305	AB	
√	A110723	2410702-04A	N6167	8	8 Hg->9.8 psi	200mL	2.27	AB	DF	11/08/24	0348	AB	
√	A110724	2410702-05A	N6404	9	6.5 Hg->10 psi	200mL	2.14	AB	DF	11/08/24	0420	AB	
√	A110725	2411093-01A	N8273	7	10.6 Hg->9.8 psi	200mL	2.58	MS/LD	DF	11/08/24	0550	MS/LD	
√	A110726	2411093-02A	N7887	6	9.2 Hg->10 psi	200mL	2.42	MS/LD	DF	11/08/24	0628	MS/LD	green dot Pi= 8.7psi Pf=4.9psi

11/13/24

11/8/2024 *Time:* 9:53 AM

√	A110727	2410702-06A	N6138	10	7.6 Hg->9.9 psi	200mL	2.24	MS/LD	DF	11/08/24	0705	MS/LD	
√	A110728	2410702-07A	1L1635	11	6.1 Hg->9.9 psi	200mL	2.10	MS/LD	DF	11/08/24	0741	MS/LD	green dot Pi= 7.5psi Pf=3.8psi
√	A110729	2410786-01A	LC034	2	4.9 Hg->9.8 psi	85mL	117	MS/LD	DF	11/08/24	0816	MS/LD	bag dilution 25X DF=117 Dil TC
√	A110730	CCV	3018-4859A	13	50ppbv (100ppbv)	100mL	1.00	MS/LD	MS	11/08/24	0915	MS/LD	exp. 1/2/2025. 1 out NTC @33%

GL 11/13/24 11/8/2024 ***Time:*** 9:53 AM

MSD-A

S:_Screeningseq\MSDA\08Nov2

BFB verification of 176/174 ratio:	(260032/266112)*100 = 97.72%		
IS/S Std.#:	3169-1048	Exp. Date:	6/9/2025
Bromochloromethane:	291309		
1,4-Difluorobenzene:	982121		
Chlorobenzene-d5:	925746		
Verified CCV vs ICAL midpoint (+/-40%) :	MS/LD		
Method	a2410910a.m		

Method TO-15			
SOP#	6		
		Load (mLs)	200
Surrogate#	3169-1048	Exp. Date:	6/9/2025
CCV	3018-4905	Exp. Date:	2/7/2025
LCS	3018-4858	Exp. Date:	1/2/2025
CCV sp #1		Exp. Date:	

Use	File	Lab ID #	Can#/Standard ID#	Cart Pos	Pressure	Amount Loaded	DF	Verify Load By Intials	Loaded By Intials	Date Analyzed	Time Analyzed	Review By Intials	Comments
√	A110801	System Blank	6L2284	12	Humid	200mL	1.00	MS/MS	MS	11/08/24	1119	MS/LD	
√	A110802	BFB Tune Check	3169-1048	12	36ng	50mL	1.00	MS/MS	MS	11/08/24	1153	MS/LD	
√	A110803	CCV	3018-4905	13	50ppbv (200ppbv)	50mL	1.00	MS/MS	MS	11/08/24	1217	MS/LD	exp. 2/7/2025. 0 out
√	A110804	LCS	3018-4858	14	50ppbv (200ppbv)	50mL	1.00	MS/MS	MS	11/08/24	1301	MS/LD	exp. 1/2/2025. 0 out shifting w/ir
√	A110805	LCD	3018-4858	14	50ppbv (200ppbv)	50mL	1.00	MS/MS	MS	11/08/24	1335	MS/LD	exp. 1/2/2025. 0 out RPD ok
√	A110806	Lab Blank	6L2284	12	Humid	200mL	1.00	MS/MS	MS	11/08/24	1402	MS/LD	
√	A110807	2410702-13A	O1055	1	5.7 Hg->10 psi	200mL	2.07	DF	MS	11/08/24	1538	DF	
√	A110808	2410702-13AA	O1055	1	5.7 Hg->10 psi	200mL	2.07	DF	MS	11/08/24	1612	DF	duped
√	A110809	2410702-14A	B2107	2	7.1 Hg->9.9 psi	200mL	2.19	DF	MS	11/08/24	1649	DF	duped
√	A110810	2410702-15A	N7919	3	9.8 Hg->9.8 psi	200mL	2.48	DF	MS	11/08/24	1726	DF	duped
√	A110811	2410702-16A	N6413	4	7.8 Hg->10 psi	200mL	2.27	DF	MS	11/08/24	1803	DF	
√	A110812	2410702-08A	1L4756	5	9.8 Hg->9.8 psi	20mL	24.80	DF	MS	11/08/24	1837	DF	dil NTC
√	A110813	2410702-09A	N6178	6	5.3 Hg->10 psi	115mL	3.55	DF	MS	11/08/24	1912	DF	dil TC
√	A110814	2410702-10A	N5455	7	5.3 Hg->9.5 psi	35mL	11.40	DF	MS	11/08/24	1946	DF	dil NTC
√	A110815	2410702-11A	O0853	8	6.3 Hg->9.8 psi	55mL	7.67	DF	MS	11/08/24	2020	DF	dil TCE "E" flag TCE rounds in
√	A110816	2410702-12A	N6195	9	6.7 Hg->9.9 psi	60mL	7.18	DF	MS	11/08/24	2054	DF	dil TC
√	A110817	CCV	3018-4905	13	50ppbv (200ppbv)	50mL	1.00	DF	DF	11/08/24	2145	DF	
	A110818	CDOC #4	3018-4858	14	50ppbv (200ppbv)	50mL	1.00		DF	11/08/24			
		System Blank	6L2284	12	Humid	200mL	1.00			11/08/24			

NF 11/14/24

gl 11/13/24

US32TAR1

Data file : /chem/msda.i/10SEP24.b/a091004.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 10-SEP-2024 12:09
Operator : TO Inst ID: msda.i
Smp Info : 50mL 3169-1048;BFB Tune Check
Misc Info : 36ng
Comment :
Method : /chem/msda.i/10SEP24.b/bfb60.m
Meth Date : 10-Nov-2023 14:40 lk8g Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 11 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (PPBV)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
10.292	10.342	-0.050	95	351381			100.00- 100.00	100.00
10.292	10.342	-0.050	50	95466			8.00- 40.00	27.17
10.292	10.342	-0.050	75	190528			30.00- 66.00	54.22
10.292	10.342	-0.050	96	23154			5.00- 9.00	6.59
10.292	10.342	-0.050	173	0			0.00- 1.99	0.00
10.292	10.342	-0.050	174	281130			50.01- 120.00	80.01
10.292	10.342	-0.050	175	22085			4.00- 9.00	7.86
10.292	10.342	-0.050	176	267904			93.01- 100.99	95.30
10.292	10.342	-0.050	177	16960			5.00- 9.00	6.33

Data File: /chem/msda.i/10SEP24.b/a091004.d

Date : 10-SEP-2024 12:09

Client ID: BFB

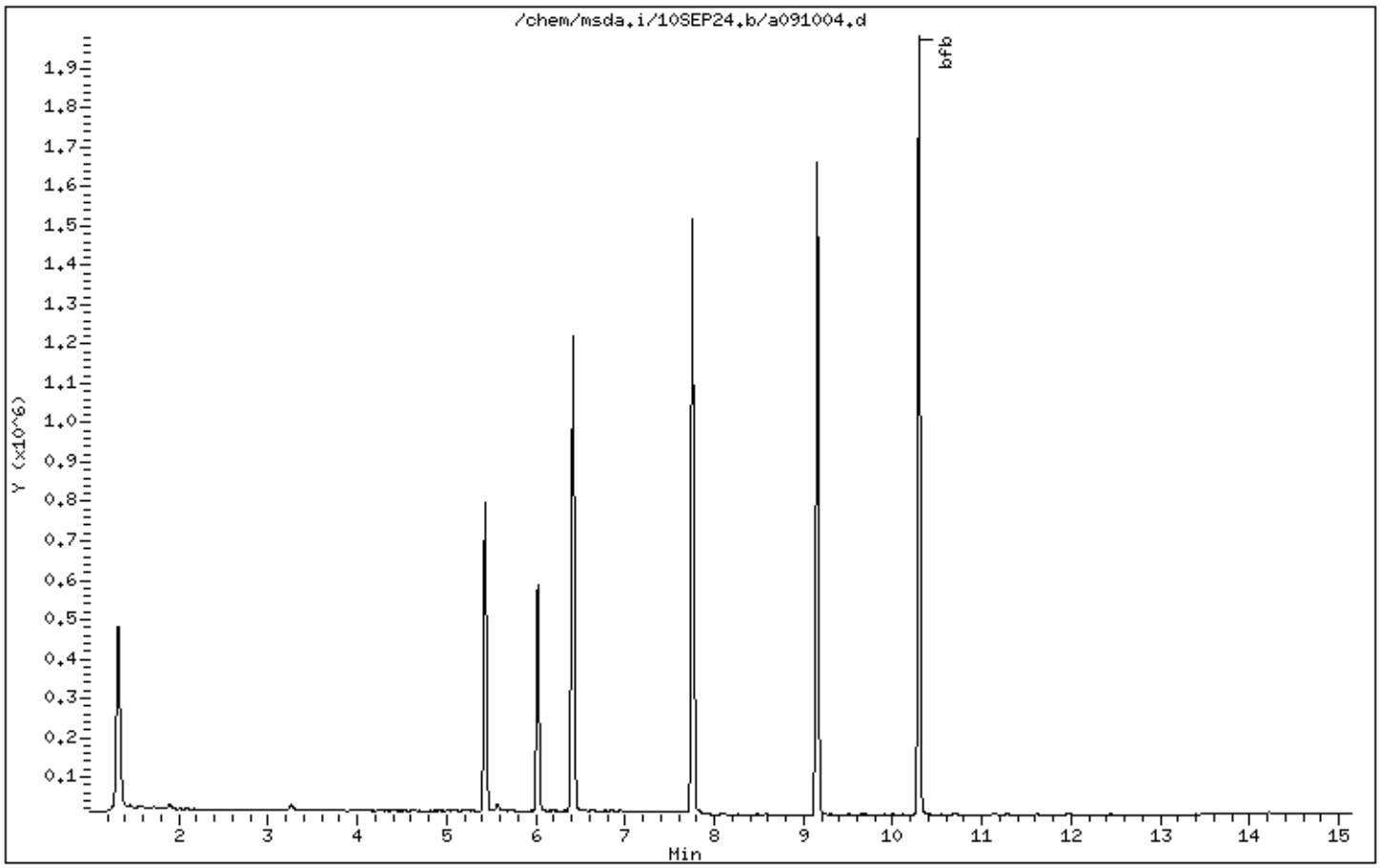
Instrument: msda.i

Sample Info: 50mL 3169-1048;BFB Tune Check

Operator: TO

Column phase:

Column diameter: 2.00



Data File: /chem/msda.i/10SEP24.b/a091004.d

Date : 10-SEP-2024 12:09

Client ID: BFB

Instrument: msda.i

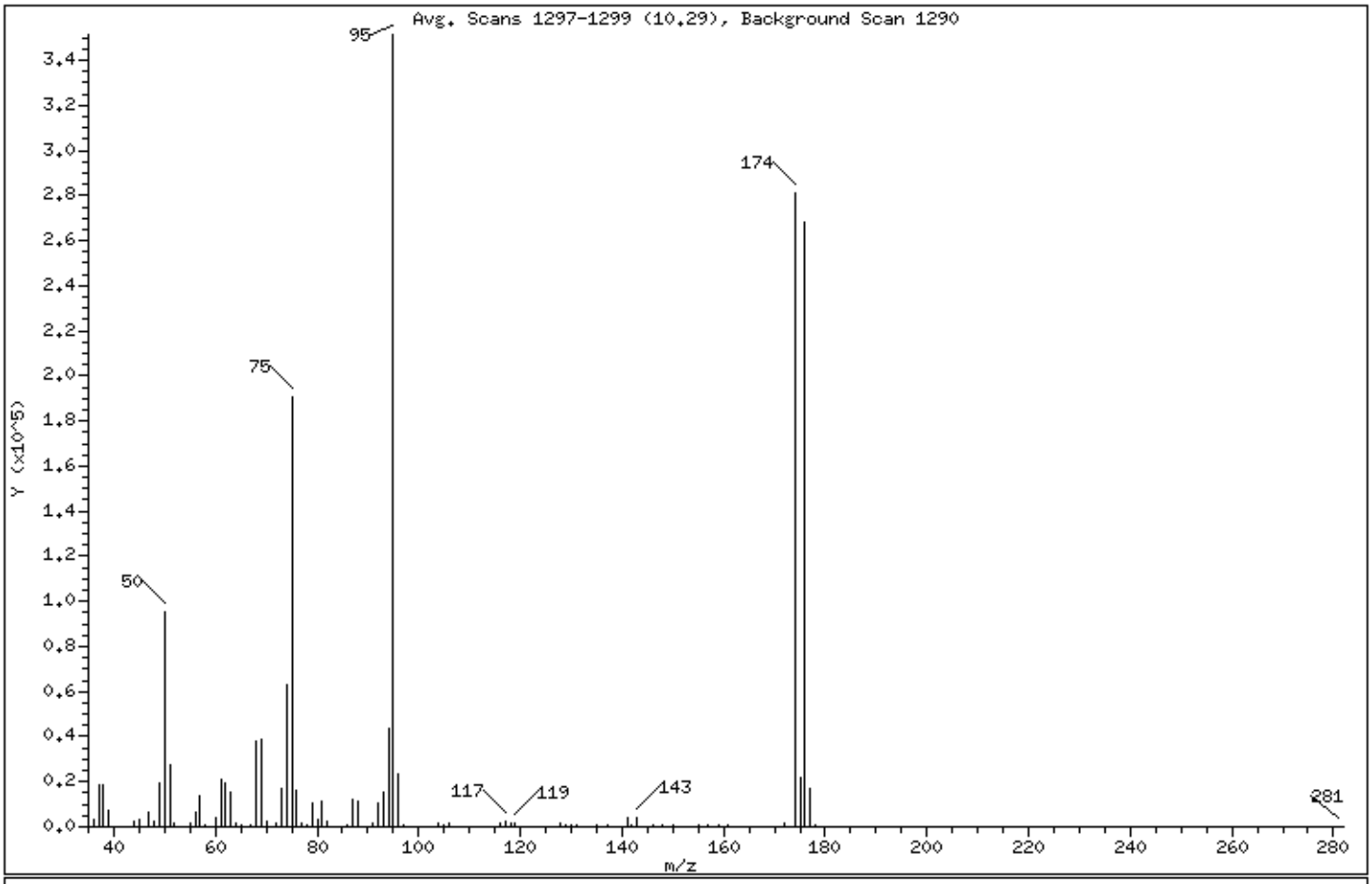
Sample Info: 50mL 3169-1048;BFB Tune Check

Operator: TO

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	27.17
75	30.00 - 66.00% of mass 95	54.22
96	5.00 - 9.00% of mass 95	6.59
173	Less than 1.99% of mass 174	0.00 (0.00)
174	50.01 - 120.00% of mass 95	80.01
175	4.00 - 9.00% of mass 174	6.29 (7.86)
176	93.01 - 100.99% of mass 174	76.24 (95.30)
177	5.00 - 9.00% of mass 176	4.83 (6.33)

Date : 10-SEP-2024 12:09

Client ID: BFB Instrument: msda.i

Sample Info: 50mL 3169-1048;BFB Tune Check

Operator: TO

Column phase: Column diameter: 2.00

Data File: a091004.d
Spectrum: Avg. Scans 1297-1299 (10.29), Background Scan 1290
Location of Maximum: 95.00
Number of points: 107

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3439	67.00	1161	103.00	173	142.00	562
37.00	18832	68.00	38032	104.00	1700	143.00	4238
38.00	18352	69.00	38952	105.00	522	144.00	366
39.00	7110	70.00	2725	106.00	1989	145.00	348
40.00	292	71.00	222	107.00	297	146.00	630
43.00	7	72.00	1934	110.00	247	147.00	260
44.00	2112	73.00	16912	111.00	326	148.00	750
45.00	3601	74.00	63112	112.00	200	149.00	130
46.00	327	75.00	190528	113.00	364	150.00	544
47.00	6620	76.00	16060	115.00	356	152.00	59
48.00	2393	77.00	1766	116.00	1400	153.00	275
49.00	19600	78.00	889	117.00	2508	154.00	115
50.00	95464	79.00	10520	118.00	1320	155.00	851
51.00	27328	80.00	2946	119.00	1928	157.00	690
52.00	1337	81.00	11690	123.00	197	159.00	423
53.00	109	82.00	2467	124.00	184	161.00	551
55.00	1268	83.00	248	126.00	225	169.00	53
56.00	6642	86.00	404	128.00	1515	170.00	52
57.00	13336	87.00	12067	129.00	622	171.00	153
58.00	552	88.00	11640	130.00	1176	172.00	1231
60.00	3965	91.00	1390	131.00	550	174.00	281088
61.00	20688	92.00	10282	135.00	491	175.00	22080
62.00	19592	93.00	15456	137.00	767	176.00	267904
63.00	15645	94.00	43552	138.00	56	177.00	16960
64.00	1446	95.00	351360	139.00	211	178.00	488
65.00	804	96.00	23152	140.00	338	281.00	362
66.00	107	97.00	739	141.00	3846		

US32TAR1

Data file : /chem/msda.i/07NOV24.b/a110702.d
Lab Smp Id: BFB Tune Check Client Smp ID: BFB Tune Check
Inj Date : 07-NOV-2024 11:13
Operator : MS Inst ID: msda.i
Smp Info : 50mL 3169-1048
Misc Info : 36ng
Comment :
Method : /chem/msda.i/07NOV24.b/bfb60.m
Meth Date : 07-Nov-2024 11:35 v4zy Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 12 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (PPBV)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
10.292	10.342	-0.050	95	362560			100.00- 100.00	100.00
10.292	10.342	-0.050	50	93818			8.00- 40.00	25.88
10.292	10.342	-0.050	75	183168			30.00- 66.00	50.52
10.292	10.342	-0.050	96	24077			5.00- 9.00	6.64
10.292	10.342	-0.050	173	2826			0.00- 1.99	0.95
10.292	10.342	-0.050	174	296576			50.01- 120.00	81.80
10.292	10.342	-0.050	175	22178			4.00- 9.00	7.48
10.292	10.342	-0.050	176	285909			93.01- 100.99	96.40
10.292	10.342	-0.050	177	18837			5.00- 9.00	6.59

Data File: /chem/msda.i/07NOV24.b/a110702.d

Date : 07-NOV-2024 11:13

Client ID: BFB Tune Check

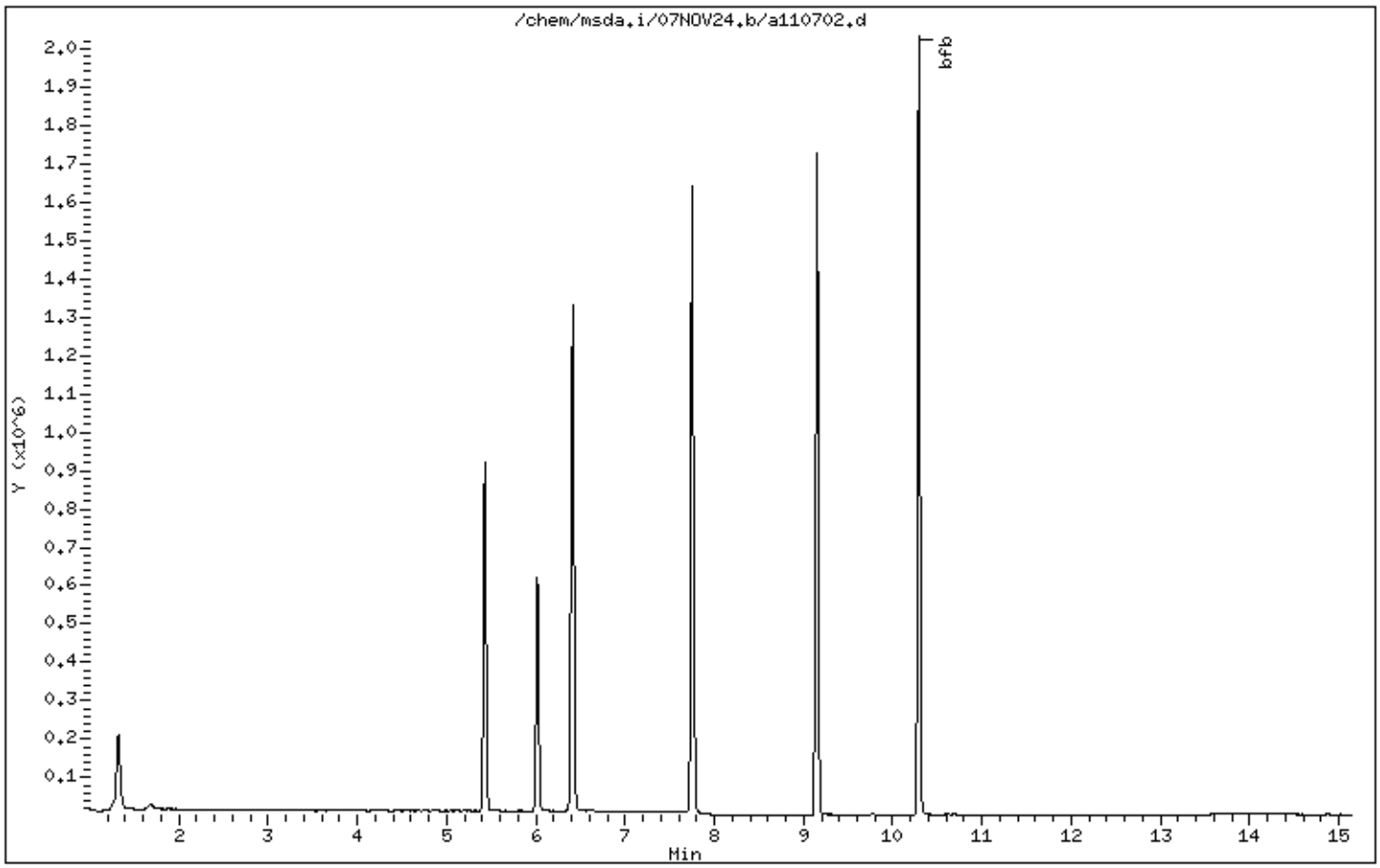
Instrument: msda.i

Sample Info: 50mL 3169-1048

Operator: MS

Column phase:

Column diameter: 2.00



Data File: /chem/msda.i/07NOV24.b/a110702.d

Date : 07-NOV-2024 11:13

Client ID: BFB Tune Check

Instrument: msda.i

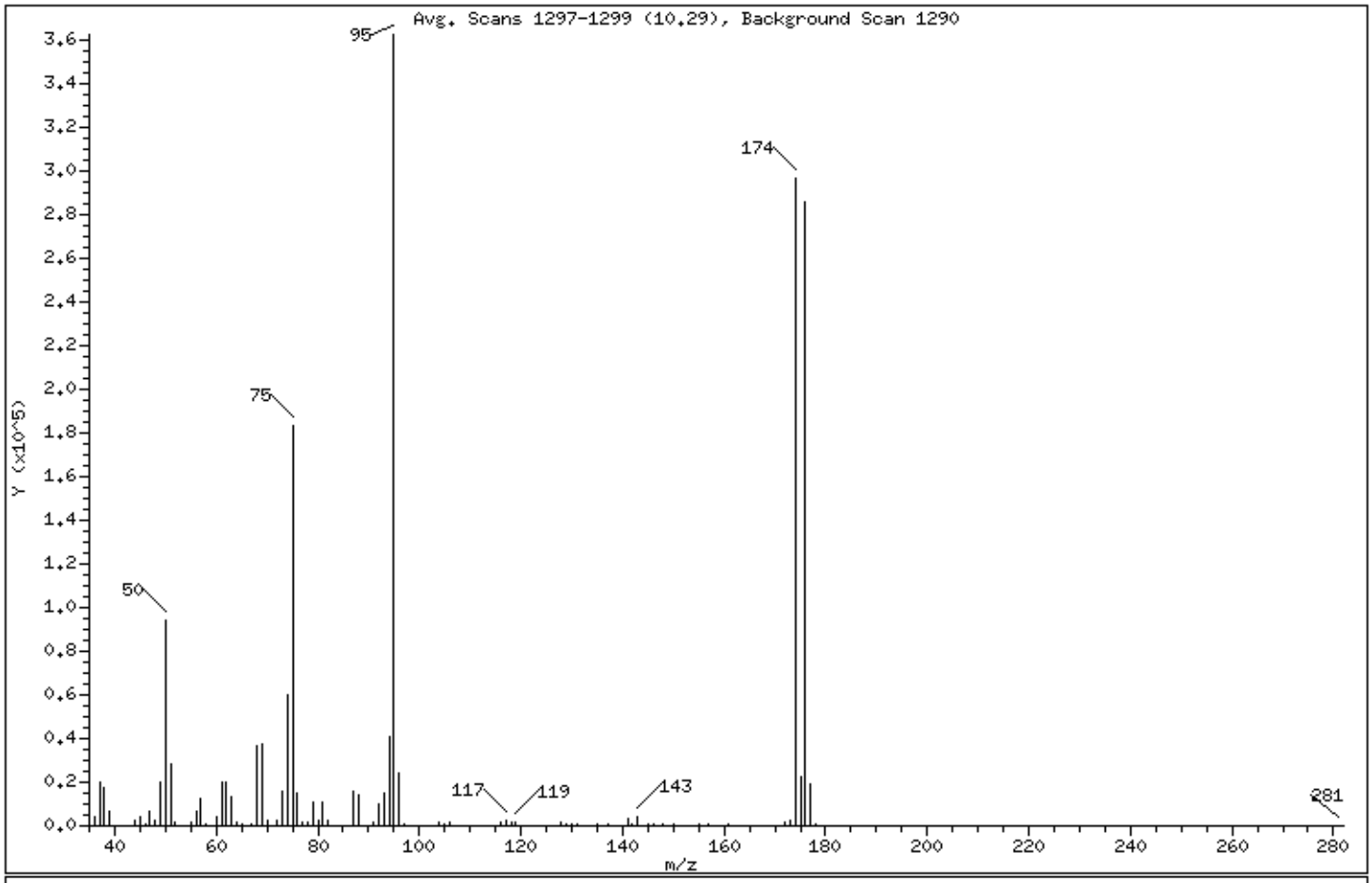
Sample Info: 50mL 3169-1048

Operator: MS

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	25.88
75	30.00 - 66.00% of mass 95	50.52
96	5.00 - 9.00% of mass 95	6.64
173	Less than 1.99% of mass 174	0.78 (0.95)
174	50.01 - 120.00% of mass 95	81.80
175	4.00 - 9.00% of mass 174	6.12 (7.48)
176	93.01 - 100.99% of mass 174	78.86 (96.40)
177	5.00 - 9.00% of mass 176	5.20 (6.59)

Date : 07-NOV-2024 11:13

Client ID: BFB Tune Check Instrument: msda.i

Sample Info: 50mL 3169-1048

Operator: MS

Column phase: Column diameter: 2.00

Data File: a110702.d
Spectrum: Avg. Scans 1297-1299 (10.29), Background Scan 1290
Location of Maximum: 95.00
Number of points: 105

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3757	65.00	668	97.00	731	143.00	4043
37.00	20320	66.00	169	103.00	139	144.00	130
38.00	17552	67.00	886	104.00	1765	145.00	506
39.00	7059	68.00	37032	105.00	422	146.00	659
40.00	329	69.00	37872	106.00	1527	147.00	252
41.00	230	70.00	2642	107.00	313	148.00	874
42.00	25	72.00	2196	110.00	240	149.00	228
43.00	306	73.00	16191	111.00	256	150.00	495
44.00	2383	74.00	59712	112.00	199	152.00	234
45.00	4076	75.00	183168	113.00	277	153.00	187
46.00	450	76.00	15328	115.00	295	154.00	244
47.00	6810	77.00	1879	116.00	1423	155.00	791
48.00	2633	78.00	1378	117.00	2448	157.00	641
49.00	19784	79.00	10987	118.00	1414	159.00	406
50.00	93816	80.00	2903	119.00	1940	161.00	460
51.00	28440	81.00	11021	124.00	206	171.00	159
52.00	1342	82.00	2094	126.00	60	172.00	1311
53.00	116	83.00	209	127.00	117	173.00	2826
55.00	1337	86.00	179	128.00	1309	174.00	296576
56.00	6658	87.00	15546	129.00	686	175.00	22176
57.00	12214	88.00	14388	130.00	1239	176.00	285888
58.00	500	91.00	1411	131.00	450	177.00	18832
60.00	3843	92.00	9752	135.00	696	178.00	429
61.00	19800	93.00	15335	137.00	787	281.00	80
62.00	20048	94.00	40696	140.00	285		
63.00	13569	95.00	362560	141.00	3748		
64.00	1283	96.00	24072	142.00	453		

US32TAR1

Data file : /chem/msda.i/08NOV24.b/a110802.d
Lab Smp Id: BFB Tune Check Client Smp ID: BFB Tune Check
Inj Date : 08-NOV-2024 11:53
Operator : MS Inst ID: msda.i
Smp Info : 50mL 3169-1048
Misc Info : 36ng
Comment :
Method : /chem/msda.i/08NOV24.b/bfb60.m
Meth Date : 08-Nov-2024 12:49 v4zy Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 12 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (PPBV)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
10.292	10.342	-0.050	95	328618			100.00- 100.00	100.00
10.292	10.342	-0.050	50	81218			8.00- 40.00	24.72
10.292	10.342	-0.050	75	163221			30.00- 66.00	49.67
10.292	10.342	-0.050	96	21781			5.00- 9.00	6.63
10.292	10.342	-0.050	173	2864			0.00- 1.99	1.08
10.292	10.342	-0.050	174	266133			50.01- 120.00	80.99
10.292	10.342	-0.050	175	20114			4.00- 9.00	7.56
10.292	10.342	-0.050	176	260074			93.01- 100.99	97.72
10.292	10.342	-0.050	177	17013			5.00- 9.00	6.54

Data File: /chem/msda.i/08NOV24.b/a110802.d

Date : 08-NOV-2024 11:53

Client ID: BFB Tune Check

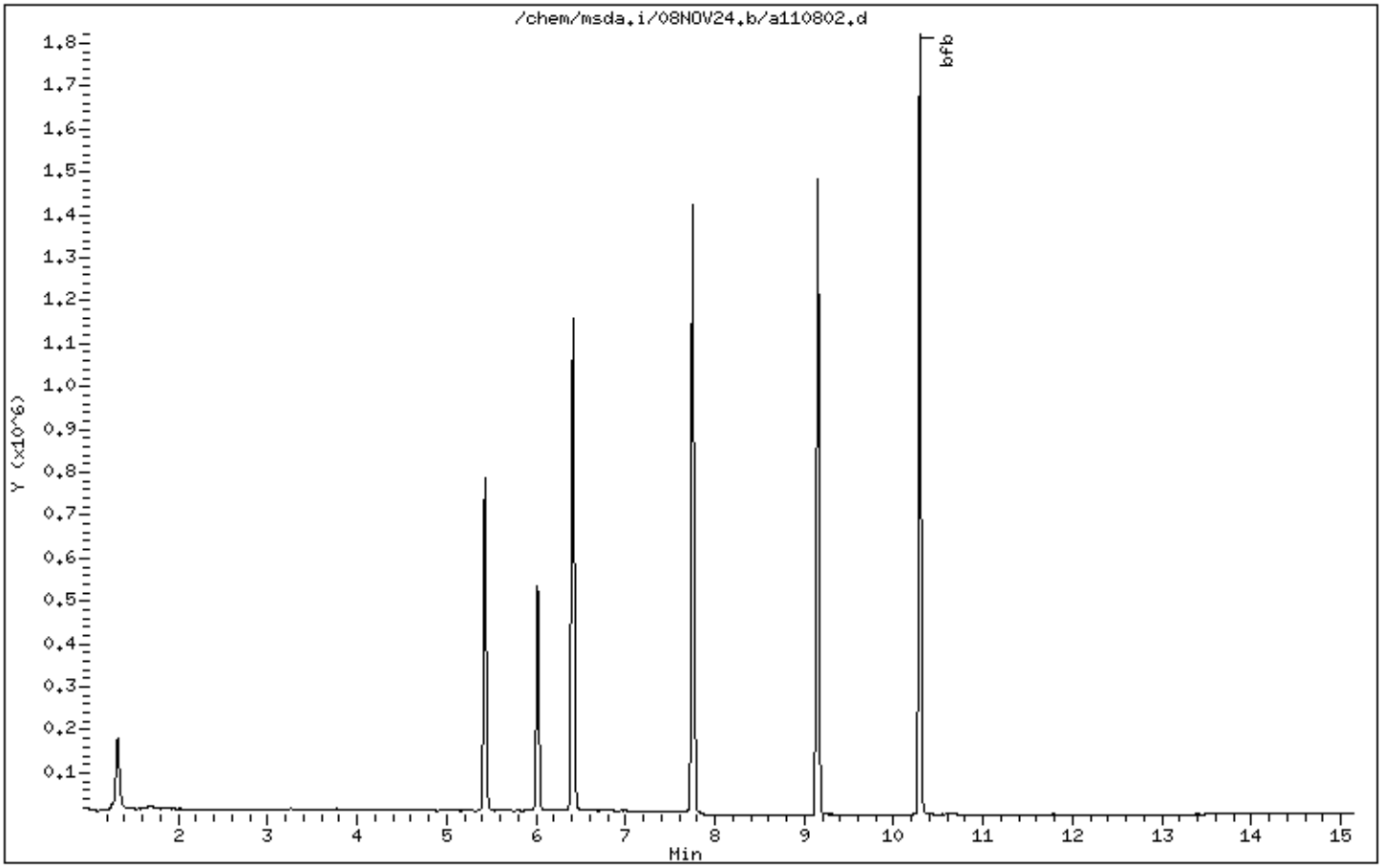
Instrument: msda.i

Sample Info: 50mL 3169-1048

Operator: MS

Column phase:

Column diameter: 2.00



Data File: /chem/msda.i/08NOV24.b/a110802.d

Date : 08-NOV-2024 11:53

Client ID: BFB Tune Check

Instrument: msda.i

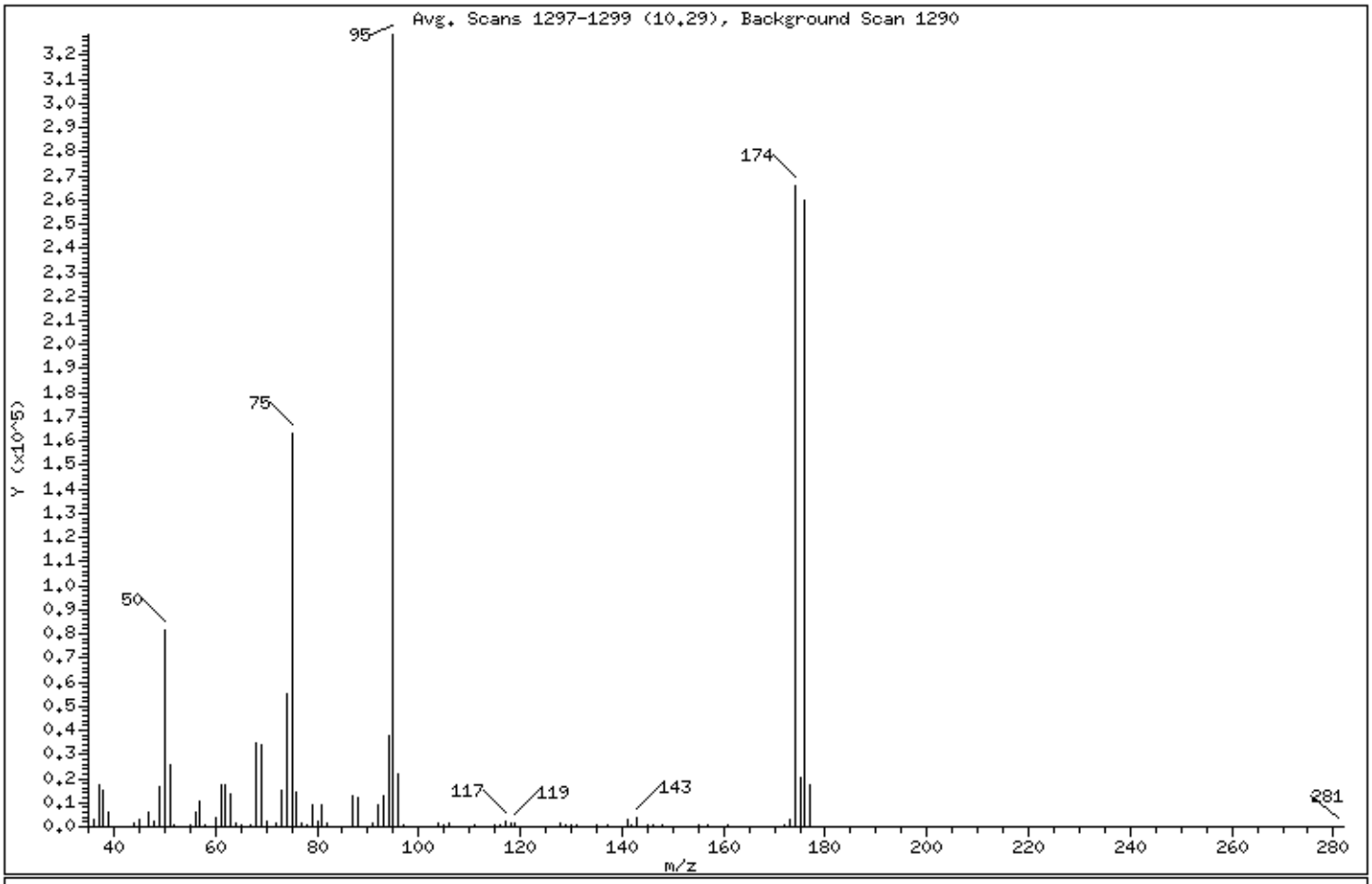
Sample Info: 50mL 3169-1048

Operator: MS

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	24.72
75	30.00 - 66.00% of mass 95	49.67
96	5.00 - 9.00% of mass 95	6.63
173	Less than 1.99% of mass 174	0.87 (1.08)
174	50.01 - 120.00% of mass 95	80.99
175	4.00 - 9.00% of mass 174	6.12 (7.56)
176	93.01 - 100.99% of mass 174	79.14 (97.72)
177	5.00 - 9.00% of mass 176	5.18 (6.54)

Date : 08-NOV-2024 11:53

Client ID: BFB Tune Check Instrument: msda.i

Sample Info: 50mL 3169-1048

Operator: MS

Column phase: Column diameter: 2.00

Data File: a110802.d
Spectrum: Avg. Scans 1297-1299 (10.29), Background Scan 1290
Location of Maximum: 95.00
Number of points: 103

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2895	69.00	33680	105.00	457	143.00	3922
37.00	17624	70.00	2260	106.00	1410	144.00	187
38.00	15305	72.00	1700	107.00	271	145.00	556
39.00	5743	73.00	14795	110.00	189	146.00	600
40.00	231	74.00	55304	111.00	435	147.00	214
44.00	1255	75.00	163200	112.00	249	148.00	743
45.00	3214	76.00	14166	113.00	203	149.00	213
46.00	314	77.00	1586	115.00	378	150.00	268
47.00	5971	78.00	1128	116.00	1028	152.00	255
48.00	2342	79.00	8901	117.00	2215	153.00	195
49.00	16253	80.00	2605	118.00	1336	154.00	222
50.00	81216	81.00	9335	119.00	1697	155.00	900
51.00	25400	82.00	1824	123.00	58	157.00	568
52.00	1094	83.00	222	124.00	229	159.00	334
55.00	1012	86.00	375	127.00	145	161.00	452
56.00	5840	87.00	12501	128.00	1323	170.00	106
57.00	10636	88.00	12064	129.00	637	171.00	249
58.00	522	91.00	1290	130.00	1111	172.00	943
60.00	3607	92.00	9211	131.00	545	173.00	2864
61.00	17728	93.00	13210	134.00	50	174.00	266112
62.00	17072	94.00	37432	135.00	701	175.00	20112
63.00	13227	95.00	328576	136.00	54	176.00	260032
64.00	1207	96.00	21776	137.00	524	177.00	17008
65.00	716	97.00	672	140.00	188	178.00	373
67.00	838	103.00	103	141.00	3070	281.00	96
68.00	34536	104.00	1454	142.00	405		

Shipping/Receiving Documents

eurofins | Air Toxics

Eurofins Air Toxics Sample Receipt Confirmation Cover Page

Thank you for choosing Eurofins Air Toxics (EATL). We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for accuracy.

For corrections call: **Air Toxics, Ltd. at 916-985-1000**

EATL will proceed with the analysis as specified on the Chain of Custody (COC) and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the COC will be provided with the final report.

The following discrepancies have been observed:

We have found a discrepancy between the Chain of Custody (COC) and the sample tag. The sample labeled T1AMF-SV028_OCT24_FD on the COC is labeled as T1AMF-SV028_OCT24 on the sample tag. The laboratory will report the sample identification on the COC unless otherwise notified.

The Chain of Custody (COC) information for sample T1AMF-SV023_OCT24 did not match the information on the canister with regard to canister barcode. The sample labeled 1L4684 on the COC is labeled as 1L4686 on the canister. Unless otherwise notified, Eurofins Air Toxics will proceed with the analysis using the information on the canister to process and report the sample.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

eurofins | Air Toxics

Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: 2410702

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Click links below to view:
Canister Sampling Guide
Helium Shroud Video

Client: Parsons PID: J09CA1108-01
Project Name: Titan 1-A Semi Annual Groundwater and Soil Vapor Sampling
Project Manager: Carrie Ross P.O.# 0015539
Sampler: Ben Dieffenbacher/Jack Patton (BTS)
Site Name: Titan 1-A

Special Instructions/Notes:
Please email analytical results to:
Mark.Rigby@Parsons.com
Katherine.LaPierre@parsons.us

Turnaround Time (Rush surcharges may apply)
Select TAT from drop down box: Standard

Lab ID	Sample Identification	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Canister Vacuum/Pressure		Lab Use Only		Requested Analyses			
				Date	Time	Date	Time	Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N_2 / He	TO-15			
01A	T1AMF-SV011_OCT24	1L4288	25050	10/23/24	0826	10/23/24	0831	-28.5	-5			X			
02A	T1AMF-SV010_OCT24	1L1519	22518	10/23/24	0944	10/23/24	0949	-26.5	-5			X			
03A	T1AMF-SV028_OCT24	1L4099	22359	10/23/24	1044	10/23/24	1049	-26.5	-5			X			
04A	T1AMF-SV028_OCT24_FD	1L3975	22580	10/23/24	1044	10/23/24	1049	-26.5	-5			X			
05A	T1AMF-SV027_OCT24	1L2239	25488	10/23/24	1145	10/23/24	1150	-28	-5			X			
06A	T1AMF-SV003_OCT24	1L1957	22438	10/23/24	1257	10/23/24	1303	-25.5	-5			X			
07A	T1AMF-SV017B_OCT24	1L1635	25539	10/23/24	1400	10/23/24	1405	-28.5	-5			X			
08A	T1AMF-SV031_OCT24	1L4756	25282	10/23/24	1500	10/23/24	1523	-28	-9			X			
09A	T1AMF-SV032a_OCT24	1L2241	24633	10/24/24	0845	10/24/24	0852	-27	-5			X			
10A	T1AMF-SV032b_OCT24	1L3277	24616	10/24/24	0950	10/24/24	0956	-29.5	-5			X			
11A	T1AMF-SV024_OCT24	1L4577	22380	10/24/24	1109	10/24/24	1115	-26.5	-5			X			
12A	T1AMF-SV001_OCT24	1L2125	25336	10/24/24	1222	10/24/24	1228	-30	-5			X			
13A	T1AMF-SV026_OCT24	1L2806	25409	10/24/24	1336	10/24/24	1341	-27	-5			X			
14A	T1AMF-SV026_OCT24_FD	1L2080	24620	10/24/24	1336	10/24/24	1341	-27	-5			X			
15A	T1AMF-SV035_OCT24	1L4246	25045	10/24/24	1454	10/24/24	1459	-27	-5			X			
16A	T1AMF-SV035_OCT24_FD	1L2042	25359	10/24/24	1454	10/24/24	1500	-27	-5			X			

	Date	Time		Date	Time
Relinquished by: (Signature/Affiliation) Justin Steare / Parsons	10/29/24	1511	Received by: (Signature/Affiliation) EATL	10/29/24	1511
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: HD | Custody Seals Intact? | Yes | No | None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

eurofins | Air Toxics

SAMPLE RECEIPT SUMMARY

WORKORDER 2410702A

Client

Mr. Mark Rigby
PARSONS GOVERNMENT SERVICES INC.
10235 So. South Jordan Gateway
Suite 300
South Jordan, UT 84095
Sales Rep: KD

Phone

801-572-5999

Fax

801-572-9069

Date Promised: 11/12/24
Date Completed:
Date Received: 10/29/24
PO#: 0015539
Project#: J09CA1108-01 Titan 1-A Semi Annual Groundwater and So
Total $: $ 7,037.50
Logged By: BJC

Fraction	Sample #	Analysis	Collected	Amount$
01A	T1AMF-SV011_OCT24	TO-15	10/23/2024	$145.00
02A	T1AMF-SV010_OCT24	TO-15	10/23/2024	$145.00
03A	T1AMF-SV028_OCT24	TO-15	10/23/2024	$145.00
04A	T1AMF-SV028_OCT24_FD	TO-15	10/23/2024	$145.00
05A	T1AMF-SV027_OCT24	TO-15	10/23/2024	$145.00
06A	T1AMF-SV003_OCT24	TO-15	10/23/2024	$145.00
07A	T1AMF-SV017B_OCT24	TO-15	10/23/2024	$145.00
08A	T1AMF-SV031_OCT24	TO-15	10/23/2024	$145.00
09A	T1AMF-SV032a_OCT24	TO-15	10/24/2024	$145.00
10A	T1AMF-SV032b_OCT24	TO-15	10/24/2024	$145.00
11A	T1AMF-SV024_OCT24	TO-15	10/24/2024	$145.00
12A	T1AMF-SV001_OCT24	TO-15	10/24/2024	$145.00
13A	T1AMF-SV026_OCT24	TO-15	10/24/2024	$145.00
14A	T1AMF-SV026_OCT24_FD	TO-15	10/24/2024	$145.00
15A	T1AMF-SV035_OCT24	TO-15	10/24/2024	$145.00
16A	T1AMF-SV035_OCT24_FD	TO-15	10/24/2024	$145.00

Misc. Charges	1 Liter Summa Canister (50) @ $40.00 each., Shipment 164604	$2 000.00
	Duplicate Sampling T (5) @ $12.00 each., Shipment 164604	$60.00
	Soil Gas Manifold (50) @ $40.00 each., Shipment 164604	$2 000.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Titan 1A Soil Vapor/28661

BILL TO: Mr. Mark Rigby
PARSONS GOVERNMENT SERVICES INC.
10235 So. South Jordan Gateway
Suite 300
South Jordan, UT 84095

Analysis Code: TO-14A

REMARKS: Full Project Name: Titan 1-A Semi Annual Groundwater and Soil Vapor Sampling

TERMS:

Reporting Method: TO-15 (DoD) (Sh)-Parsons (Titan 1A)

SAMPLE RECEIPT SUMMARY Continued

Client

Mr. Mark Rigby
PARSONS GOVERNMENT SERVICES INC.
10235 So. South Jordan Gateway
Suite 300
South Jordan, UT 84095
Sales Rep:

Phone

801-572-5999

Fax

801-572-9069

Date Promised:
Date Completed:
Date Received: 10/29/24
PO#: 0015539
Project#: J09CA1108-01 Titan 1-A Semi Annual Groundwater and So
Total $: $ 7,037.50
Logged By: BJC

Fraction	Sample #	Analysis	Collected	Amount$
	SERWM Fee (35) @ $2.50 each.			$87.50
	Client Specific EDD (16) @ $10.00 each.			$160.00
	eCVP (16) @ $10.00 each.			$160.00
	Fitting w/ Pink Ferrule (50) @ $5.00 each.			$250.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Titan 1A Soil Vapor/28661

BILL TO: Mr. Mark Rigby
PARSONS GOVERNMENT SERVICES INC.
10235 So. South Jordan Gateway
Suite 300
South Jordan, UT 84095

Analysis Code: TO-14A

REMARKS: Full Project Name: Titan 1-A Semi Annual Groundwater and Soil Vapor Sampling

TERMS:

Reporting Method: TO-15 (DoD) (Sh)-Parsons (Titan 1A)

Sample Discrepancy Report

Identification

Initiated By: BJC **Project ID:**28661 **PM**: BSW **Date:** 10/31/2024 **Discrepancy Type:** ☒ **1.** ☐ **2.** ☐ **3.**

Workorder(s) affected:2410702A **Sample(s) affected:** 04A

1. Sample Receipt Discrepancies

Narration Not Required:

1.1. ☐ Sample container (cartridge/tube) was received broken, however sample was intact.
1.2. ☐ No brass cap on canister.
1.3. ☐ Date of Collection noted on first sample, but no arrow down to indicate all samples.
1.4. ☐ Sampling year not documented on COC but noted on sample tag.
1.5. ☐ Sorbent Sample received outside method required temperature of 2°C to 6°C but less than 6°C.

Notify Lab for further determination:

1.6. ☐ Tedlar bag received with minimal volume.

Narration Required in Lab Narrative and Sample Confirmation:

1.7. ☐ COC was not filled out in ink.
1.8. ☐ COC improperly relinquished / received.
☐Signature missing ☐date missing ☐time missing.
1.9. ☒ Sample ID on tags do not match the COC.
1.10. ☐ Can numbers do not match the COC.
1.11. ☐ Sampling date discrepancy.
1.12. ☐ Custody Seal on the outside of the container was ☐ broken / ☐ improperly placed (check one).
1.13. ☐ ID-none on the sample Tag/Blank.
1.14. ☐ Other (describe below).

Initials: _____Date:_____

Describe the Discrepancy: 1.9-04A

2. Sample Receipt/Screening Discrepancies requiring PM notification

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

If Section II. is filled out PM must be notified within 24 hrs of initiation

2.1. ☐ COC was not received with samples.
2.2. ☐ Analysis method(s) is ☐ not specified / ☐ incorrectly specified (check one) on the COC.
2.3. ☐ Incorrect sampling media / container for analysis requested.
2.4. ☐ Number of samples on the COC does not match the number of samples that were received.
2.5. ☐ Samples were received expired.
2.6. ☐ Sampling date is not documented for ☐ *some* / ☐ *any* samples (check one).
2.7. ☐ Sample received with amount of H_2O in the Tedlar Bag.
2.8. ☐ Sample cannot be analyzed. Container was ☐ received broken / ☐ leaking / ☐ flat / ☐ defective.
2.9. ☐ Tedlar bag / canister received emitting a strong odor; Sample ☐ can / ☐ cannot (check one) be analyzed.
2.10. ☐ Sorbent samples -sampling volume was not provided.
2.11. ☐ Flow controller used – canister samples received at ambient or under pressure.
2.12. ☐ Canister was at ambient pressure at time of pressurization and (check all that apply):
☐ Canister valve was open.
☐ Brass nut was loose/not present.
☐ Sample can be analyzed.
☐ Sample cannot be analyzed.
2.13. ☐ Canister sample received with a vacuum difference >5.0"Hg between the receipt vac. and the final recorded vac. on the COC.
☐ Canister passed leak check in lab <2psi, no evidence sample was compromised.
☐ Canister failed lab leak check, canister found to be leaking. Canister sample compromised.
2.14. ☐ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).
2.15. ☐ Canister Trip Blank received at low vacuum (<25"Hg).
2.16. ☐ Sorbent Sample received outside method required temperature of 2°C to 6°C; ☐ ice / ☐ blue ice (check one) was present. A temp. Blank ☐ was / ☐ was not present (check one).
2.17. ☐ Other (describe below).

Initials: _____ **Date:** _____ **Notify Receiving:** ☐ **Notify PM:** ☐

Describe the Discrepancy:

3. Lab Discrepancies requiring Team Leader/PM notification

Document in Analytical Notes of Lab Narrative

If Section III. is filled out PM must be notified within 24 hrs of initiation

3.1. ☐ Tedlar Bag found to be leaking at the time of analysis; sample ☐ can / ☐ cannot (check one) be analyzed.

3.2. ☐ Tedlar Bag found to be flat/low volume; sample cannot be analyzed.

3.3. ☐ Samples received with insufficient time to analyze prior to expiration.

3.4. ☐ Canister found to be leaking at the time of analysis.

3.5. ☐ Sample loss due to instrument malfunction / broken glassware.

3.6. ☐ Low/high surrogate recoveries noted in QC/sample(s) for extractable samples.

3.7. ☐ Reporting Limit was raised.

3.8. ☐ Post weight > Pre weight in field/lab Blank for PM10/TSP samples.

3.9. ☐ Sample Trip Blank has a reportable level(s) of target compound(s) present. Re-analysis confirmed the initial result.

3.10. ☐ Other (describe below).

Initials: _____ **Date:** _____ **Notify Receiving:** ☐ **Notify PM:** ☐ _____

Team Lead Initials: _____ **Date:** _____

Describe the Discrepancy: _____

_____

_____

How Does this Affect Client: _____

_____

_____

Project Manager Use Only

Project Manager Notification ☐ **Section 2 Complete** ☐ **Section 3 Complete**

Action:

☐ It is not necessary to notify the client. Narrate the discrepancy in Receiving Notes/Analytical Notes of Lab Narrative.

PM Initials:_____ Date: _____

☐ Client notification required. See attached client contact / email, or comments below:

Client Notification:

PM Initials:_____ Person notified: _____ Date: _____

☐ Waiting for Client Reply

Comments: _____

_____

☐ Notify Lab Name: _____ Date: _____ **Notify Receiving:** ☐ _____

☐ **Additional notifications attached.**

Additional Comments:

_____

Other Records

Dilution Factor = $\frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{\text{14.7psi + Final Pressure (psi)}}{\text{14.7psi –[Init. Pressure (“Hg))*(14.7psi/30”Hg)]}}$

Dilution Factor = $\frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{\text{14.7psi + Final Pressure (psi)}}{\text{14.7psi +Initial Pressure (psi)}}$

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
0.0	**1.14**	1.34	**1.68**	2.02
0.2	**1.14**	1.35	**1.69**	2.03
0.4	**1.15**	1.36	**1.70**	2.05
0.5	**1.16**	1.36	**1.71**	2.05
0.6	**1.16**	1.37	**1.71**	2.06
0.8	**1.17**	1.38	**1.73**	2.08
1.0	**1.18**	1.39	**1.74**	2.09
1.2	**1.18**	1.40	**1.75**	2.10
1.4	**1.19**	1.40	**1.76**	2.12
1.5	**1.20**	1.41	**1.77**	2.13
1.6	**1.20**	1.42	**1.77**	2.13
1.8	**1.21**	1.42	**1.79**	2.15
2.0	**1.22**	1.44	**1.80**	2.16
2.2	**1.23**	1.45	**1.81**	2.18
2.4	**1.23**	1.46	**1.83**	2.20
2.5	**1.24**	1.46	**1.83**	2.20
2.6	**1.24**	1.47	**1.84**	2.21
2.8	**1.25**	1.48	**1.85**	2.23
3.0	**1.26**	1.49	**1.87**	2.24
3.2	**1.27**	1.50	**1.88**	2.26
3.4	**1.28**	1.51	**1.90**	2.28
3.5	**1.29**	1.52	**1.90**	2.29
3.6	**1.29**	1.52	**1.91**	2.30
3.8	**1.30**	1.53	**1.92**	2.31
4.0	**1.31**	1.55	**1.94**	2.33
4.2	**1.32**	1.56	**1.95**	2.35
4.4	**1.33**	1.57	**1.97**	2.37
4.5	**1.34**	1.58	**1.98**	2.38
4.6	**1.34**	1.58	**1.98**	2.39
4.8	**1.35**	1.60	**2.00**	2.40
5.0	**1.36**	1.61	**2.02**	2.42
5.2	**1.37**	1.62	**2.03**	2.44
5.4	**1.39**	1.63	**2.05**	2.46
5.5	**1.39**	1.64	**2.06**	2.47
5.6	**1.40**	1.65	**2.07**	2.48
5.8	**1.41**	1.66	**2.08**	2.50
6.0	**1.42**	1.68	**2.10**	2.52
6.2	**1.43**	1.69	**2.12**	2.55
6.4	**1.44**	1.70	**2.14**	2.57
6.5	**1.45**	1.71	**2.15**	2.58
6.6	**1.46**	1.72	**2.15**	2.59
6.8	**1.47**	1.73	**2.17**	2.61
7.0	**1.48**	1.75	**2.19**	2.64
7.2	**1.49**	1.76	**2.21**	2.66
7.4	**1.51**	1.78	**2.23**	2.68
7.5	**1.51**	1.79	**2.24**	2.69
7.6	**1.52**	1.79	**2.25**	2.70

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
7.7	**1.53**	1.80	**2.26**	2.72
7.8	**1.54**	1.81	**2.27**	2.73
8.0	**1.55**	1.83	**2.29**	2.76
8.2	**1.56**	1.84	**2.31**	2.78
8.4	**1.58**	1.86	**2.33**	2.81
8.5	**1.59**	1.87	**2.34**	2.82
8.6	**1.59**	1.88	**2.36**	2.83
8.8	**1.61**	1.90	**2.38**	2.86
9.0	**1.62**	1.91	**2.40**	2.89
9.2	**1.64**	1.93	**2.42**	2.91
9.4	**1.65**	1.95	**2.45**	2.94
9.5	**1.66**	1.96	**2.46**	2.96
9.6	**1.67**	1.97	**2.47**	2.97
9.8	**1.69**	1.99	**2.50**	3.00
10.0	**1.70**	2.01	**2.52**	3.03
10.2	**1.72**	2.03	**2.55**	3.06
10.4	**1.74**	2.05	**2.57**	3.09
10.5	**1.75**	2.06	**2.59**	3.11
10.6	**1.76**	2.07	**2.60**	3.12
10.8	**1.78**	2.09	**2.63**	3.16
11.0	**1.79**	2.12	**2.65**	3.19
11.2	**1.81**	2.14	**2.68**	3.22
11.4	**1.83**	2.16	**2.71**	3.26
11.5	**1.84**	2.17	**2.72**	3.28
11.6	**1.85**	2.18	**2.74**	3.29
11.8	**1.87**	2.21	**2.77**	3.33
12.0	**1.89**	2.23	**2.80**	3.37
12.2	**1.91**	2.26	**2.83**	3.40
12.4	**1.94**	2.28	**2.86**	3.44
12.5	**1.95**	2.30	**2.88**	3.46
12.6	**1.96**	2.31	**2.90**	3.48
12.8	**1.98**	2.34	**2.93**	3.52
13.0	**2.00**	2.36	**2.97**	3.56
13.2	**2.03**	2.39	**3.00**	3.61
13.4	**2.05**	2.42	**3.04**	3.65
13.5	**2.07**	2.44	**3.06**	3.67
13.6	**2.08**	2.45	**3.07**	3.70
13.8	**2.10**	2.48	**3.11**	3.74
14.0	**2.13**	2.51	**3.15**	3.79
14.2	**2.16**	2.54	**3.19**	3.84
14.4	**2.18**	2.58	**3.23**	3.88
14.5	**2.20**	2.59	**3.25**	3.91
14.6	**2.21**	2.61	**3.27**	3.94
14.8	**2.24**	2.64	**3.32**	3.99
15.0	**2.27**	2.68	**3.36**	4.04
15.2	**2.30**	2.72	**3.41**	4.10
15.4	**2.33**	2.75	**3.45**	4.15

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
15.5	**2.35**	2.77	**3.48**	4.18
15.6	**2.37**	2.79	**3.50**	4.21
15.8	**2.40**	2.83	**3.55**	4.27
16.0	**2.43**	2.87	**3.60**	4.33
16.2	**2.47**	2.91	**3.65**	4.39
16.4	**2.51**	2.96	**3.71**	4.46
16.5	**2.52**	2.98	**3.73**	4.49
16.6	**2.54**	3.00	**3.76**	4.52
16.8	**2.58**	3.05	**3.82**	4.59
17.0	**2.62**	3.09	**3.88**	4.66
17.2	**2.66**	3.14	**3.94**	4.74
17.4	**2.70**	3.19	**4.00**	4.81
17.5	**2.73**	3.22	**4.03**	4.85
17.6	**2.75**	3.24	**4.07**	4.89
17.8	**2.79**	3.30	**4.13**	4.97
18.0	**2.84**	3.35	**4.20**	5.05
18.2	**2.89**	3.41	**4.27**	5.14
18.4	**2.94**	3.47	**4.35**	5.22
18.5	**2.96**	3.50	**4.38**	5.27
18.6	**2.99**	3.53	**4.42**	5.32
18.8	**3.04**	3.59	**4.50**	5.41
19.0	**3.10**	3.65	**4.58**	5.51
19.2	**3.16**	3.72	**4.67**	5.61
19.4	**3.22**	3.79	**4.76**	5.72
19.5	**3.25**	3.83	**4.80**	5.77
19.6	**3.28**	3.87	**4.85**	5.83
19.8	**3.34**	3.94	**4.94**	5.94
20.0	**3.41**	4.02	**5.04**	6.06
20.2	**3.48**	4.10	**5.14**	6.18
20.4	**3.55**	4.19	**5.25**	6.31
20.5	**3.59**	4.23	**5.31**	6.38
20.6	**3.63**	4.28	**5.36**	6.45
20.8	**3.70**	4.37	**5.48**	6.59
21.0	**3.79**	4.47	**5.60**	6.73
21.2	**3.87**	4.57	**5.73**	6.89
21.4	**3.96**	4.67	**5.86**	7.05
21.5	**4.01**	4.73	**5.93**	7.13
21.6	**4.06**	4.79	**6.00**	7.22
21.8	**4.16**	4.90	**6.15**	7.39
22.0	**4.26**	5.03	**6.30**	7.58
22.4	**4.48**	5.29	**6.63**	7.98

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
22.5	**4.54**	5.36	**6.72**	8.08
22.6	**4.61**	5.43	**6.81**	8.19
22.8	**4.73**	5.58	**7.00**	8.42
23.0	**4.87**	5.74	**7.20**	8.66
23.2	**5.01**	5.91	**7.41**	8.91
23.4	**5.16**	6.09	**7.64**	9.18
23.5	**5.24**	6.19	**7.76**	9.32
23.6	**5.33**	6.28	**7.88**	9.47
23.8	**5.50**	6.48	**8.13**	9.78
24.0	**5.68**	6.70	**8.40**	10.10
24.2	**5.88**	6.93	**8.69**	10.45
24.4	**6.09**	7.18	**9.00**	10.82
24.5	**6.20**	7.31	**9.17**	11.02
24.6	**6.31**	7.45	**9.33**	11.22
24.8	**6.55**	7.73	**9.69**	11.66
25.0	**6.82**	8.04	**10.08**	12.12
25.2	**7.10**	8.38	**10.50**	12.63
25.4	**7.41**	8.74	**10.96**	13.18
25.5	**7.57**	8.93	**11.20**	13.47
25.6	**7.75**	9.14	**11.46**	13.78
25.8	**8.11**	9.57	**12.00**	14.43
26.0	**8.52**	10.05	**12.60**	15.15
26.2	**8.97**	10.58	**13.27**	15.95
26.4	**9.47**	11.17	**14.00**	16.84
26.5	**9.74**	11.49	**14.40**	17.32
26.6	**10.02**	11.82	**14.83**	17.83
26.8	**10.65**	12.56	**15.75**	18.94
27.0	**11.36**	13.40	**16.80**	20.20
27.2	**12.17**	14.36	**18.00**	21.65
27.4	**13.11**	15.46	**19.39**	23.31
27.5	**13.63**	16.08	**20.16**	24.24
27.6	**14.20**	16.75	**21.00**	25.26
27.8	**15.49**	18.27	**22.91**	27.55
28.0	**17.04**	20.10	**25.20**	30.31
28.2	**18.93**	22.34	**28.00**	33.67
28.4	**21.30**	25.13	**31.51**	37.88
28.5	**22.72**	26.80	**33.61**	40.41
28.6	**24.34**	28.72	**36.01**	43.29
28.8	**28.40**	33.50	**42.01**	50.51
29.0	**34.08**	40.20	**50.41**	60.61

Method:TO-15 (DoD) (Sh)-Parsons (Titan 1A)

CAS Number	Compound	Rpt. Limit(ppbv)
75-35-4	1,1-Dichloroethene	0.5
106-46-7	1,4-Dichlorobenzene	0.5
71-43-2	Benzene	0.5
156-59-2	cis-1,2-Dichloroethene	0.5
100-41-4	Ethyl Benzene	0.5
108-38-3	m,p-Xylene	1.0
95-47-6	o-Xylene	0.5
108-88-3	Toluene	1.0
156-60-5	trans-1,2-Dichloroethene	0.5
79-01-6	Trichloroethene	0.5
75-01-4	Vinyl Chloride	0.5

	Surrogate	Method Limits
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130
2037-26-5	Toluene-d8	70-130

3Q 2024 TO-15 QUAD DoD Limit of Detections (LODs)
Effective 08-29-2024

CAS #	Analyte	Molecular Weight (MW)	LOD (ppbv)	LOQ (ppbv)	LOD (ug/m3)	LOQ (ug/m3)
71-55-6	1,1,1-Trichloroethane	133.42	0.45	0.5	2.45558	2.72843
79-34-5	1,1,2,2-Tetrachloroethane	167.86	0.45	0.5	3.08945	3.43272
79-00-5	1,1,2-Trichloroethane	133.42	0.45	0.5	2.45558	2.72843
75-34-3	1,1-Dichloroethane	98.97	0.45	0.5	1.82153	2.02393
75-35-4	1,1-Dichloroethene	96.95	0.45	0.5	1.78436	1.98262
120-82-1	1,2,4-Trichlorobenzene	181.46	0.75	2	5.56626	14.84335
95-63-6	1,2,4-Trimethylbenzene	120.19	0.45	2	2.21209	9.83149
106-93-4	1,2-Dibromoethane (EDB)	187.88	0.45	0.5	3.45791	3.84213
95-50-1	1,2-Dichlorobenzene	147.01	0.45	0.5	2.70571	3.00634
107-06-2	1,2-Dichloroethane	98.96	0.45	0.5	1.82135	2.02372
78-87-5	1,2-Dichloropropane	112.99	0.45	0.5	2.07957	2.31063
108-67-8	1,3,5-Trimethylbenzene	120.19	0.45	2	2.21209	9.83149
106-99-0	1,3-Butadiene	54.09	0.45	0.5	0.99552	1.10613
541-73-1	1,3-Dichlorobenzene	147.01	0.45	0.5	2.70571	3.00634
106-46-7	1,4-Dichlorobenzene	147.01	0.45	0.5	2.70571	3.00634
123-91-1	1,4-Dioxane	88.11	0.75	2	2.70276	7.20736
540-84-1	2,2,4-Trimethylpentane	114.22	0.45	0.5	2.10221	2.33579
78-93-3	2-Butanone	72.11	0.75	2	2.21196	5.89857
591-78-6	2-Hexanone	100.16	0.75	2	3.07239	8.19305
67-63-0	2-Propanol	60.09	0.75	2	1.84325	4.91534
107-05-1	3-Chloropropene	76.53	0.45	2	1.40853	6.26012
622-96-8	4-Ethyltoluene	120.19	0.45	0.5	2.21209	2.45787
108-10-1	4-Methyl-2-pentanone	100.16	0.45	0.5	1.84344	2.04826
67-64-1	Acetone	58.08	4	5	9.50184	11.87730
100-44-7	alpha-Chlorotoluene	126.58	0.45	0.5	2.32969	2.58855
71-43-2	Benzene	78.11	0.45	0.5	1.43761	1.59734
75-27-4	Bromodichloromethane	163.83	0.45	0.5	3.01528	3.35031
75-25-2	Bromoform	252.77	0.45	0.5	4.65221	5.16912
74-83-9	Bromomethane	94.95	0.75	5	2.91258	19.41718
75-15-0	Carbon Disulfide	76.14	0.75	2	2.33558	6.22822
56-23-5	Carbon Tetrachloride	153.84	0.45	0.5	2.83141	3.14601
108-90-7	Chlorobenzene	112.56	0.45	0.5	2.07166	2.30184
75-00-3	Chloroethane	64.52	1.3	2	3.43051	5.27771
67-66-3	Chloroform	119.39	0.45	0.5	2.19736	2.44151
74-87-3	Chloromethane	50.49	4.8	5	9.91215	10.32515
156-59-2	cis-1,2-Dichloroethene	96.94	0.45	0.5	1.78417	1.98241
10061-01-5	cis-1,3-Dichloropropene	110.97	0.45	0.5	2.04239	2.26933
98-82-8	Cumene	120.19	0.45	0.5	2.21209	2.45787
110-82-7	Cyclohexane	84.16	0.45	0.5	1.54896	1.72106
124-48-1	Dibromochloromethane	208.28	0.45	0.5	3.83337	4.25930
64-17-5	Ethanol	46.07	4	5	7.53701	9.42127

100-41-4	Ethyl Benzene	106.16	0.45	0.5	1.95387	2.17096
75-69-4	Freon 11	137.38	0.45	0.5	2.52847	2.80941
76-13-1	Freon 113	187.39	0.45	0.5	3.44890	3.83211
76-14-2	Freon 114	170.93	0.45	0.5	3.14595	3.49550
75-71-8	Freon 12	120.92	0.45	0.5	2.22552	2.47280
142-82-5	Heptane	100.2	0.45	2	1.84417	8.19632
87-68-3	Hexachlorobutadiene	260.76	0.75	2	7.99877	21.33006
110-54-3	Hexane	86.17	0.45	0.5	1.58595	1.76217
108-38-3	m,p-Xylene	106.17	0.45	1	1.95405	4.34233
1634-04-4	Methyl tert-butyl ether	88.15	0.75	2	2.70399	7.21063
75-09-2	Methylene Chloride	84.94	0.75	5	2.60552	17.37014
91-20-3	Naphthalene	128.17	0.1	1	0.52421	5.24213
95-47-6	o-Xylene	106.17	0.45	0.5	1.95405	2.17117
103-65-1	Propylbenzene	120.19	0.45	0.5	2.21209	2.45787
115-07-1	Propylene	42.08	0.75	2	1.29080	3.44213
100-42-5	Styrene	104.14	0.45	0.5	1.91669	2.12965
127-18-4	Tetrachloroethene	165.85	0.45	0.5	3.05245	3.39162
109-99-9	Tetrahydrofuran	72.1	0.45	0.5	1.32699	1.47444
108-88-3	Toluene	92.13	0.45	1	1.69564	3.76810
156-60-5	trans-1,2-Dichloroethene	96.94	0.45	0.5	1.78417	1.98241
10061-02-6	trans-1,3-Dichloropropene	110.97	0.45	0.5	2.04239	2.26933
79-01-6	Trichloroethene	131.39	0.45	0.5	2.41822	2.68691
108-05-4	Vinyl Acetate	86.09	0.75	2	2.64080	7.04213
75-01-4	Vinyl Chloride	62.5	0.45	0.5	1.15031	1.27812

Extra Compounds

CAS #	Analyte	Molecular Weight (MW)	LOD (ppbv)	LOQ (ppbv)	LOD (ug/m3)	LOQ (ug/m3)
95-49-8	2-Chlorotoluene	126.59	0.75	2	3.88313	10.35501
106-97-8	Butane	58.12	1.3	2	3.09022	4.75419
104-51-8	Butyl Benzene	134.22	0.45	0.5	2.47031	2.74479
111-84-2	Nonane	128.26	0.75	2	3.93436	10.49162
109-66-0	n-Pentane	72.15	0.75	2	2.21319	5.90184
111-65-9	Octane	114.22	0.75	2	3.50368	9.34315
135-98-8	sec-Butylbenzene	134.22	0.45	0.5	2.47031	2.74479
75-65-0	tert-Butyl Alcohol	74.12	0.75	2	2.27362	6.06299
98-06-6	tert-Butyl Benzene	134.22	0.75	2	4.11718	10.97914

ppbv - part per billion by volume
Concentration (ug/m3) = Concentration (ppbv)*MW/24.45
Instrument IDs - msd17, msd3, msd91, msda, msdj, msdp

Table 42. Method RSK-175 Water Matrix

CAS ID	Analyte	N Records	Mean	Standard Deviation	Lower Control Limit	Upper Control Limit
74-86-2	Acetylene	719	99.6	9.8	70	129
106-97-8	Butane	262	97.3	7.3	75	119
124-38-9	Carbon dioxide	441	100.8	6.9	80	122
74-84-0	Ethane	2240	102.6	9.6	74	131
74-85-1	Ethylene	2284	102.5	10.2	72	133
75-28-5	Isobutane	267	97.6	6.6	78	117
74-82-8	Methane	2459	99.2	8.7	73	125
74-98-6	Propane	900	98.1	8.2	74	123

Table 43. Method TO-15 Gas Matrix

CAS ID	Analyte	N Records	Mean	Standard Deviation	Lower Control Limit	Upper Control Limit
630-20-6	1,1,1,2-Tetrachloroethane	1344	97.9	10.5	67	129
71-55-6	1,1,1-Trichloroethane	5436	96.7	9.5	68	125
79-34-5	1,1,2,2-Tetrachloroethane	5273	95.9	10.4	65	127
79-00-5	1,1,2-Trichloroethane	5332	95.9	7.7	73	119
76-13-1	1,1,2-Trifluoro-1,2,2-trichloroethane [Freon-113]	5351	96.1	10	66	126
75-34-3	1,1-Dichloroethane	5422	97	9.7	68	126
75-35-4	1,1-Dichloroethene	3503	97.3	11.9	61	133
96-18-4	1,2,3-Trichloropropane	465	99.6	8	76	124
120-82-1	1,2,4-Trichlorobenzene	4545	98.5	14.5	55	142
95-63-6	1,2,4-Trimethylbenzene	4699	99.2	11.1	66	132

Table 43. Method TO-15 Gas Matrix

CAS ID	Analyte	N Records	Mean	Standard Deviation	Lower Control Limit	Upper Control Limit
106-93-4	1,2-Dibromoethane	4655	98.2	7.9	74	122
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	4572	92.4	9.7	63	121
95-50-1	1,2-Dichlorobenzene	4739	95.7	11	63	129
107-06-2	1,2-Dichloroethane	5467	96.8	10.5	65	128
78-87-5	1,2-Dichloropropane	4729	95.7	8.9	69	123
108-67-8	1,3,5-Trimethylbenzene	4679	98.3	10.4	67	130
106-99-0	1,3-Butadiene	3167	99.8	11.4	66	134
541-73-1	1,3-Dichlorobenzene	4737	97.1	10.9	65	130
142-28-9	1,3-Dichloropropane	165	105.2	14.4	62	148
542-75-6	1,3-Dichloropropene	560	100.7	8.1	77	125
106-46-7	1,4-Dichlorobenzene	4719	95.8	11.8	60	131
123-91-1	1,4-Dioxane	2656	96.5	8.6	71	122
540-84-1	2,2,4-Trimethylpentane [Isooctane]	3008	94.3	8.8	68	121
78-93-3	2-Butanone [MEK]	4635	98.4	10.4	67	130
95-49-8	2-Chlorotoluene	1092	101.9	9.2	74	130
591-78-6	2-Hexanone	4600	95.4	11	62	128
67-63-0	2-Propanol [Isopropyl alcohol]	3069	88.4	12.3	52	125
622-96-8	4-Ethyltoluene	4673	97.9	10.3	67	129
108-10-1	4-Methyl-2-pentanone [MIBK]	4646	98.5	10.5	67	130
67-64-1	Acetone	4600	92.7	11.6	58	128
75-05-8	Acetonitrile	1999	97.3	11.6	63	132
107-02-8	Acrolein [Propenal]	2469	93.8	10.6	62	126
107-13-1	Acrylonitrile	2105	103.7	10.9	71	137
107-05-1	Allyl chloride	2980	101.1	10.1	71	131

Table 43. Method TO-15 Gas Matrix

CAS ID	Analyte	N Records	Mean	Standard Deviation	Lower Control Limit	Upper Control Limit
98-83-9	alpha-Methylstyrene	1976	97.3	10.2	67	128
71-43-2	Benzene	5436	93.8	8.4	69	119
100-44-7	Benzyl chloride	4419	98.7	16.2	50	147
75-27-4	Bromodichloromethane	4682	99.9	9.3	72	128
75-25-2	Bromoform	4638	102.3	12.1	66	139
74-83-9	Bromomethane	2657	98.6	11.8	63	134
106-97-8	Butane	587	96.2	10.9	64	129
75-15-0	Carbon disulfide	4756	95.6	12.7	57	134
56-23-5	Carbon tetrachloride	4202	99.6	10.7	68	132
108-90-7	Chlorobenzene	4652	94.5	8	70	119
124-48-1	Chlorodibromomethane	4628	99.9	10	70	130
75-45-6	Chlorodifluoromethane	559	102.1	14.3	59	145
75-00-3	Chloroethane	5370	94.7	10.6	63	127
67-66-3	Chloroform	5481	95.3	9.3	68	123
74-87-3	Chloromethane	4540	95.2	12.2	59	132
156-59-2	cis-1,2-Dichloroethene	5320	95.6	8.4	70	121
10061-01-5	cis-1,3-Dichloropropene	4691	98.8	9.7	70	128
110-82-7	Cyclohexane	3178	93.5	7.7	70	117
124-18-5	Decane	1982	93.8	7.9	70	118
75-71-8	Dichlorodifluoromethane [Freon-12]	5307	93.6	11.5	59	128
108-20-3	Diisopropyl ether	2309	93.5	8	70	117
64-17-5	Ethanol	2981	91.8	11.1	59	125
141-78-6	Ethyl acetate	2835	96.4	10.5	65	128
100-41-4	Ethylbenzene	5420	96.8	9	70	124
142-82-5	Heptane	3163	95.7	8.9	69	123

Table 43. Method TO-15 Gas Matrix

CAS ID	Analyte	N Records	Mean	Standard Deviation	Lower Control Limit	Upper Control Limit
87-68-3	Hexachlorobutadiene	4551	96.7	13.7	56	138
110-54-3	Hexane	3150	91.6	9.5	63	120
98-82-8	Isopropylbenzene	3022	95.6	9.3	68	124
179601-23-1	m/p-Xylene [3/4-Xylene]	5019	97.3	12.3	61	134
80-62-6	Methyl methacrylate	3037	98.9	9.7	70	128
1634-04-4	Methyl tert-butyl ether [MTBE]	4681	95.5	10	66	126
75-09-2	Methylene chloride	5314	88.8	8.9	62	115
71-36-3	n-Butyl alcohol	1981	97.5	11.7	62	133
104-51-8	n-Butylbenzene	2656	97.7	10.6	66	130
112-40-3	n-DoDecane	1932	104.4	14.1	62	147
103-65-1	n-Propylbenzene	2570	95.7	9	69	123
91-20-3	Naphthalene	2439	97.5	13.4	57	138
111-84-2	Nonane	2617	95.4	10.8	63	128
95-47-6	o-Xylene	5334	96.3	9.7	67	125
111-65-9	Octane	2514	95	8.7	69	121
99-87-6	p-Isopropyltoluene [p-Cymene]	2694	98.1	10.5	67	130
109-66-0	Pentane	712	96.7	11.3	63	131
115-07-1	Propene	3193	96.6	13.3	57	136
135-98-8	sec-Butylbenzene	2665	96.4	9.6	68	125
100-42-5	Styrene	4735	100.1	9	73	127
75-65-0	tert-Butyl alcohol	2997	86.8	20.9	24	150
98-06-6	tert-Butylbenzene	2710	94.3	9.8	65	124
127-18-4	Tetrachloroethene	5432	95.2	9.7	66	124
109-99-9	Tetrahydrofuran	3192	93.7	9.8	64	123
108-88-3	Toluene	5406	92.7	8.8	66	119
156-60-5	trans-1,2-Dichloroethene	5411	95.5	9.5	67	124

Table 43. Method TO-15 Gas Matrix

CAS ID	Analyte	N Records	Mean	Standard Deviation	Lower Control Limit	Upper Control Limit
10061-02-6	trans-1,3-Dichloropropene	4621	104	9.6	75	133
79-01-6	Trichloroethene	5478	96.7	8.7	71	123
75-69-4	Trichlorofluoromethane [Freon-11]	5376	93.7	10.6	62	126
1120-21-4	Undecane	1976	96.1	9	69	123
108-05-4	Vinyl acetate	4599	97.4	13.7	56	139
593-60-2	Vinyl bromide	1054	98.4	9.2	71	126
75-01-4	Vinyl chloride	5445	95.1	10.4	64	127

Eurofins Environment Testing Northern California, LLC	Data Review Checklist			
Workorder # 2410702A	Form F1.27	Revision #21	Revision Date: 05/01/23	Page 1 of 2

S1	S2	S3	S4	D	***Section 1* – Spec Out**				
					Initials/Instrument/Date	**S1:** MSD-A MS 11/7/24	**S2:** MSD-A MS 11/8/24	**S3:**	**S4:**
✓	✓			■	Project Identification (PID), Project Requirements Table (PRT), Daily QC and ICAL met Criteria				
✓	✓			/	Method Name: A24Q0910a.m				
✓	✓			■	Lumen QC and ICAL evaluation (ref. SOP/Method) report initialed and in folder				
N	N			■	Manual Integrations included and approved				
✓	✓			/	Chain of Custody verified for special comments/notes and analyses requested (add comments below)				
✓	✓			■	Non-standard Target sublist verified (MDL, LOD, RL, control limits, etc.)				
✓	✓			■	Verified standard expiration dates				

Profile, analyses, reporting, special notes and unusual circumstances: S1: 1 OUT NTC LB 06h

S2: 0 out QC LB 06a

A1	A2	A3	A4	D	***Section 2* – Sample Analysis**				
					Initials/Date	**A1:** AR 11/8/24	**A2:** MS 11/8/24	**A3:** MF 11/15/24	**A4:**
/	✓	/		/	IS/Surr Recoveries, Dilution Factors, Load Volumes, leg(s) of instrument, Initial/Final Pressures, Canister #s Verified and dilution ranges are met per SOP (ex. Over-ranged/overdiluted). Method Transfer Dilutions Verified.				
NA	N	NA		NA	**a)** Tedlar Bag IDs verified against COC **b)** Tedlar Bag ID confirmed with loading sequence/leg(s) of instrument				
NA	N	NA		/	Manual Integrations/Bag or Can Dilution Forms/Re-pressurization Forms/Bag-Can Transfer Forms present (circle all that apply)				
/	✓	/		■	12/24 Hr clock time & Hold Time met for all samples				
/	✓	/		/	Re-analysis of sample(s) has been evaluated for comparability and/or sample(s) has/have been checked for trends (Inf/Eff), field dups/trip blanks, samples following bad loads on auto samplers have been verified (system blks, confirmation runs)				
/	✓	/		/	All runs have been evaluated for potential carry-over (TPHg/non-Target/over-range compounds/ etc.)				
/	✓	/		/	All runs have been evaluated using method default parent sublists prior to any client specific sublists.				

Analytical and special notes: A1: 01A-04A full load. 01A/01AA Dup in B. 03A/04A field blank

05A full load. A2: 06-07a, full load end check pass

A3: 13A-14A full, 09A, 10A dilute 09A, 11A, 12A dilute in B/BB 13A/13AA [illegible]

D1	D2	D3	D4	T	3T	***Section 3* – Target Data Reduction**	**Technical Review Needed? Circle one: Yes/No**		**T:**	
						Initials/Instrument/ Date	**D1:** JL 11/13/24	**D2:**	**D3:**	**D4:**
NA					■	CAR # *(if applicable)*				
					■	Spectra Verified *(documentation of spectral defense included if applicable)*				
/					/	Calibration history evaluated. Verify QC files.				
NA					■	TICs resemble reference spectra/ TICs between sample dups. are consistent *(if applicable)*				
/					/	Lab Narrative is correct				
NA					■	TPH/NMOC calculations complete and included in folder				

Special notes:

A	3T	***Section 4*- Atlas Data Entry**	**Lumen verified and included in folder**	**Circle one:** Yes/No
		Initials/Date: JL 11/13/24	**3rd Tier:** *(needed only for DOD or per client request)*	JL 11/13/24
/	/	Sample Discrepancy Report (SDR) complete and approved *(if applicable)*		
NA	NA	Manually entered results are checked		
/	/	At least one result per sample is verified against Target quant sheets		
/	/	Appropriate data qualifier flags are applied		
/	/	Final Invoice is correct/ Final PDF report, COC and EDD reviewed and correct		

Special Notes:

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Workorder # :				**Reason for Reissue:**
W	**T**	**3T**	**Q**	
				Reissue Request form Present
				Client or QA or Lab contact present with reason for reissue
				Review all affected data
				Report header has correct R1, R2 etc
				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
				Date for Reissue in Report Header matches date in Lab Narrative
				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
				Corrective Action issued - #
				The reissued workorder has been approved by a Group Lead, QA Manager or a Technical Director
Additional Comments:				

Write Up (Initials/Date)	**Tech Review** (Initials/Date)	***3rd Tier Review** ** 3rd Tier Report Review is for DoD & Client Specific projects only* (Initials/Date)	**QA Review** (Initials/Date)

Workorder # :				**Reason for Reissue:**
W	**T**	**3T**	**Q**	
				Reissue Request form Present
				Client or QA or Lab contact present with reason for reissue
				Review all affected data
				Report header has correct R1, R2 etc
				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
				Date for Reissue in Report Header matches date in Lab Narrative
				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
				Corrective Action issued - #
				The reissued workorder has been approved by a Group Lead, QA Manager or a Technical Director
Additional Comments:				

Write Up (Initials/Date)	**Tech Review** (Initials/Date)	***3rd Tier Review** ** 3rd Tier Report Review is for DoD & Client Specific projects only* (Initials/Date)	**QA Review** (Initials/Date)

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Not Applicable



Electronic Comprehensive Validation Package (eCVP)

Vera Belitsky Vera Belitsky 11-13-2024

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WORK ORDER #: 2410702B

Work Order Summary

CLIENT:	Mr. Mark Rigby PARSONS GOVERNMENT SERVICES INC. 10235 So. South Jordan Gateway Suite 300 South Jordan, UT 84095	**BILL TO:**	Mr. Mark Rigby PARSONS GOVERNMENT SERVICES INC. 10235 So. South Jordan Gateway Suite 300
PHONE:	801-572-5999	**P.O. #**	0015539
FAX:	801-572-9069	**PROJECT #**	J09CA1108-01 Titan 1-A Semi Annual Groundwater and So
DATE RECEIVED:	10/29/2024	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/12/2024		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
17A	T1AMF-SV033_OCT24	TO-15	7.1 "Hg	9.5 psi
17AA	T1AMF-SV033_OCT24 Lab Duplicate	TO-15	7.1 "Hg	9.5 psi
18A	T1AMF-SV023_OCT24	TO-15	3.5 "Hg	9.9 psi
19A	T1AMF-SV023_OCT24_FD	TO-15	4.9 "Hg	9.9 psi
20A	T1AMF-SV021_OCT24	TO-15	26.7 "Hg	10 psi
21A	T1AMF-SV002_OCT24	TO-15	4.9 "Hg	9.9 psi
22A	T1AMF-SV034_OCT24	TO-15	5.5 "Hg	10.1 psi
23A	T1AMF-SV020_OCT24	TO-15	6.9 "Hg	10 psi
24A	T1AMF-SV022_OCT24	TO-15	7.6 "Hg	10 psi
25A	T1AMF-SV025_OCT24	TO-15	6.5 "Hg	9.8 psi
26A	T1AMF-SV019_OCT24	TO-15	5.3 "Hg	9.8 psi
27A	T1AMF-SV004_OCT24	TO-15	8.6 "Hg	9.9 psi
28A	T1AMF-SV09B_OCT24	TO-15	6.7 "Hg	10.1 psi
29A	T1AMF-SV015B_OCT24	TO-15	6.1 "Hg	10.1 psi
30A	T1AMF-SV030_OCT24	TO-15	8 "Hg	9.8 psi
31A	T1AMF-SV029_OCT24	TO-15	18.6 "Hg	10 psi
32A	T1AMF-SV005B_OCT24	TO-15	5.7 "Hg	9.9 psi
33A	T1AMF-SV006_OCT24	TO-15	5.7 "Hg	9.9 psi
34A	T1AMF-SV016_OCT24	TO-15	4.9 "Hg	9.9 psi
35A	T1AMF-SV018_OCT24	TO-15	6.5 "Hg	10.1 psi
36A	Lab Blank	TO-15	NA	NA
37A	CCV	TO-15	NA	NA
37B	CCV	TO-15	NA	NA

Continued on next page

WORK ORDER #: 2410702B

Work Order Summary

CLIENT:	Mr. Mark Rigby PARSONS GOVERNMENT SERVICES INC. 10235 So. South Jordan Gateway Suite 300 South Jordan, UT 84095	**BILL TO:**	Mr. Mark Rigby PARSONS GOVERNMENT SERVICES INC. 10235 So. South Jordan Gateway Suite 300
PHONE:	801-572-5999	**P.O. #**	0015539
FAX:	801-572-9069	**PROJECT #**	J09CA1108-01 Titan 1-A Semi Annual Groundwater and So
DATE RECEIVED:	10/29/2024	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/12/2024		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
38A	LCS	TO-15	NA	NA
38AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/12/24

Technical Director

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2703122, NH NELAP–209223-B, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-12695, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-20
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000

LABORATORY NARRATIVE
DoD QSM - TO-15
PARSONS GOVERNMENT SERVICES INC.
Workorder# 2410702B

Nineteen 1 Liter Summa Canister samples were received on October 29, 2024. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Please note the following narratives are project specific therefore may or may not be applicable to the associated sample set:

1) A Limit of Detection (LOD) and Method Detection Limit (MDL) study are not maintained for Total Xylenes and non-standard compounds.

2) Total Xylenes concentration is calculated by summing the individual concentrations of m,p-Xylene and o-Xylene.

3) Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Receiving Notes

The Chain of Custody (COC) information for sample T1AMF-SV023_OCT24 did not match the information on the canister with regard to canister barcode. The sample labeled 1L4684 on the COC is labeled as 1L4686 on the canister. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

Samples T1AMF-SV021_OCT24 and T1AMF-SV029_OCT24 were received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

A DoD QSM waiver has been established and approved between Eurofins Air Toxics and the client. A copy of the waiver is available upon request.

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Samples were analyzed in one analytical batch on MSD-A on 11/11/24. The initial continuing calibration verification (CCV) for the batch is reported as lab fraction 37A and the ending CCV is reported as lab fraction 37B.

Dilution was performed on sample T1AMF-SV022_OCT24 due to the presence of high level target species.

Dilution was performed on sample T1AMF-SV029_OCT24 due to the presence of high level non-target species.

Ethanol was manually integrated in the initial calibration.

Samples were received by courier, therefore shipping documents are not applicable.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Table 1								
Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
T1AMF-SV033_OCT24	2410702B-17A	10/24/2024	10/29/2024	NA	18	11/11/2024	NA	GOOD
T1AMF-SV033_OCT24 Lab Duplicate	2410702B-17AA	10/24/2024	10/29/2024	NA	None	11/11/2024	NA	GOOD
T1AMF-SV023_OCT24	2410702B-18A	10/25/2024	10/29/2024	NA	17	11/11/2024	NA	GOOD
T1AMF-SV023_OCT24_FD	2410702B-19A	10/25/2024	10/29/2024	NA	17	11/11/2024	NA	GOOD
T1AMF-SV021_OCT24	2410702B-20A	10/25/2024	10/29/2024	NA	17	11/11/2024	NA	GOOD
T1AMF-SV002_OCT24	2410702B-21A	10/25/2024	10/29/2024	NA	17	11/11/2024	NA	GOOD
T1AMF-SV034_OCT24	2410702B-22A	10/25/2024	10/29/2024	NA	17	11/11/2024	NA	GOOD
T1AMF-SV020_OCT24	2410702B-23A	10/25/2024	10/29/2024	NA	17	11/11/2024	NA	GOOD
T1AMF-SV022_OCT24	2410702B-24A	10/25/2024	10/29/2024	NA	17	11/11/2024	NA	GOOD
T1AMF-SV025_OCT24	2410702B-25A	10/25/2024	10/29/2024	NA	17	11/11/2024	NA	GOOD
T1AMF-SV019_OCT24	2410702B-26A	10/28/2024	10/29/2024	NA	14	11/11/2024	NA	GOOD
T1AMF-SV004_OCT24	2410702B-27A	10/28/2024	10/29/2024	NA	14	11/11/2024	NA	GOOD
T1AMF-SV09B_OCT24	2410702B-28A	10/28/2024	10/29/2024	NA	14	11/11/2024	NA	GOOD
T1AMF-SV015B_OCT24	2410702B-29A	10/28/2024	10/29/2024	NA	15	11/12/2024	NA	GOOD
T1AMF-SV030_OCT24	2410702B-30A	10/28/2024	10/29/2024	NA	15	11/12/2024	NA	GOOD
T1AMF-SV029_OCT24	2410702B-31A	10/28/2024	10/29/2024	NA	15	11/12/2024	NA	GOOD
T1AMF-SV005B_OCT24	2410702B-32A	10/29/2024	10/29/2024	NA	14	11/12/2024	NA	GOOD
T1AMF-SV006_OCT24	2410702B-33A	10/29/2024	10/29/2024	NA	14	11/12/2024	NA	GOOD
T1AMF-SV016_OCT24	2410702B-34A	10/29/2024	10/29/2024	NA	14	11/12/2024	NA	GOOD
T1AMF-SV018_OCT24	2410702B-35A	10/29/2024	10/29/2024	NA	14	11/12/2024	NA	GOOD
Lab Blank	2410702B-36A	NA	NA	NA	NA	11/11/2024	NA	GOOD
CCV	2410702B-37A	NA	NA	NA	NA	11/11/2024	NA	GOOD
CCV	2410702B-37B	NA	NA	NA	NA	11/12/2024	NA	GOOD
LCS	2410702B-38A	NA	NA	NA	NA	11/11/2024	NA	GOOD
LCSD	2410702B-38AA	NA	NA	NA	NA	11/11/2024	NA	GOOD

Sample Results and Raw Data

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Client ID:	T1AMF-SV033_OCT24		
Lab ID:	2410702B-17A	**Date/Time Analyzed:**	11/11/24 01:46 PM
Date/Time Collected:	10/24/24 03:56 PM	**Dilution Factor:**	2.16
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111108

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.0	3.8	4.3	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.2	5.8	6.5	Not Detected U
Benzene	71-43-2	0.60	3.1	3.4	0.69 J
cis-1,2-Dichloroethene	156-59-2	1.3	3.8	4.3	Not Detected U
Ethyl Benzene	100-41-4	1.8	4.2	4.7	Not Detected U
m,p-Xylene	108-38-3	1.7	4.2	9.4	2.1 J
o-Xylene	95-47-6	1.6	4.2	4.7	Not Detected U
Toluene	108-88-3	0.90	3.7	8.1	2.4 J
trans-1,2-Dichloroethene	156-60-5	1.6	3.8	4.3	Not Detected U
Trichloroethene	79-01-6	0.85	5.2	5.8	8.4
Vinyl Chloride	75-01-4	1.3	2.5	2.8	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	91
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	104

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111108.d
Lab Smp Id: 2410702B-17A Client Smp ID: 2410702B-17A
Inj Date : 11-NOV-2024 13:46
Operator : MS Inst ID: msda.i
Smp Info : 200mL N7473
Misc Info : 7.1 Hg->9.5 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 2
Dil Factor: 2.16000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane							CAS #: 74-97-5	
5.428	5.428 (1.000)	130	266551	25.0000			80.00- 120.00	100.00
5.428	5.428 (1.000)	128	203866				46.45- 106.45	76.48
5.428	5.428 (1.000)	49	552353				167.12- 227.12	207.22
* 126 1,4-Difluorobenzene							CAS #: 540-36-3	
6.409	6.409 (1.000)	114	965922	25.0000			80.00- 120.00	100.00
6.409	6.409 (1.000)	88	154787				0.00- 46.36	16.02
* 165 Chlorobenzene-d5							CAS #: 3114-55-4	
9.146	9.146 (1.000)	117	940025	25.0000			80.00- 120.00	100.00
9.146	9.146 (1.000)	82	534394				27.12- 87.12	56.85
$ 119 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
6.015	6.015 (1.108)	65	424132	22.8720	22.872		80.00- 120.00	100.00
6.015	6.015 (1.108)	67	212203				23.36- 83.36	50.03
$ 152 Toluene-d8							CAS #: 2037-26-5	
7.756	7.756 (1.210)	98	1045565	25.9617	25.962		80.00- 120.00	100.00
7.756	7.756 (1.210)	70	123871				0.00- 41.92	11.85

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.210)	100	703834			39.07- 99.07	67.32
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	597668	23.8424	23.842	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	730378			89.27- 149.27	122.20
10.292	10.292 (1.125)	176	571018			66.29- 126.29	95.54
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	3359	0.10037	0.2168	80.00- 120.00	100.00(a)
5.987	5.987 (0.934)	77	354			0.00- 53.99	10.54
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	12335	0.72295	1.562	80.00- 120.00	100.00
6.624	6.617 (1.034)	130	10425			67.98- 127.98	84.52
6.624	6.617 (1.034)	97	7967			34.45- 94.45	64.59
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.219)	91	13091	0.29779	0.6432	80.00- 120.00	100.00(a)
7.813	7.813 (1.219)	92	7102			27.69- 87.69	54.25
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.360 (1.023)	106	5494	0.22572	0.4875	80.00- 120.00	100.00(a)
9.360	9.360 (1.023)	91	11028			176.41- 236.41	200.72

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111108.d
Lab Smp Id: 2410702B-17A
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 7.1 Hg->9.5 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Client Smp ID: 2410702B-17A
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	266551	0.52
126 1,4-Difluorobenze	973920	584352	1363488	965922	-0.82
165 Chlorobenzene-d5	894091	536455	1251727	940025	5.14

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:52

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-17A Client Smp ID: 2410702B-17A
Level: LOW Operator: MS
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 7.1 Hg->9.5 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.872	91.49	70-130
$ 152 Toluene-d8	25.000	25.962	103.85	70-130
$ 191 4-Bromofluorobenz	25.000	23.842	95.37	70-130

Data File: /chem/msda.i/11NOV24.b/a111108.d

Page 1

Date : 11-NOV-2024 13:46

Client ID: 2410702B-17A

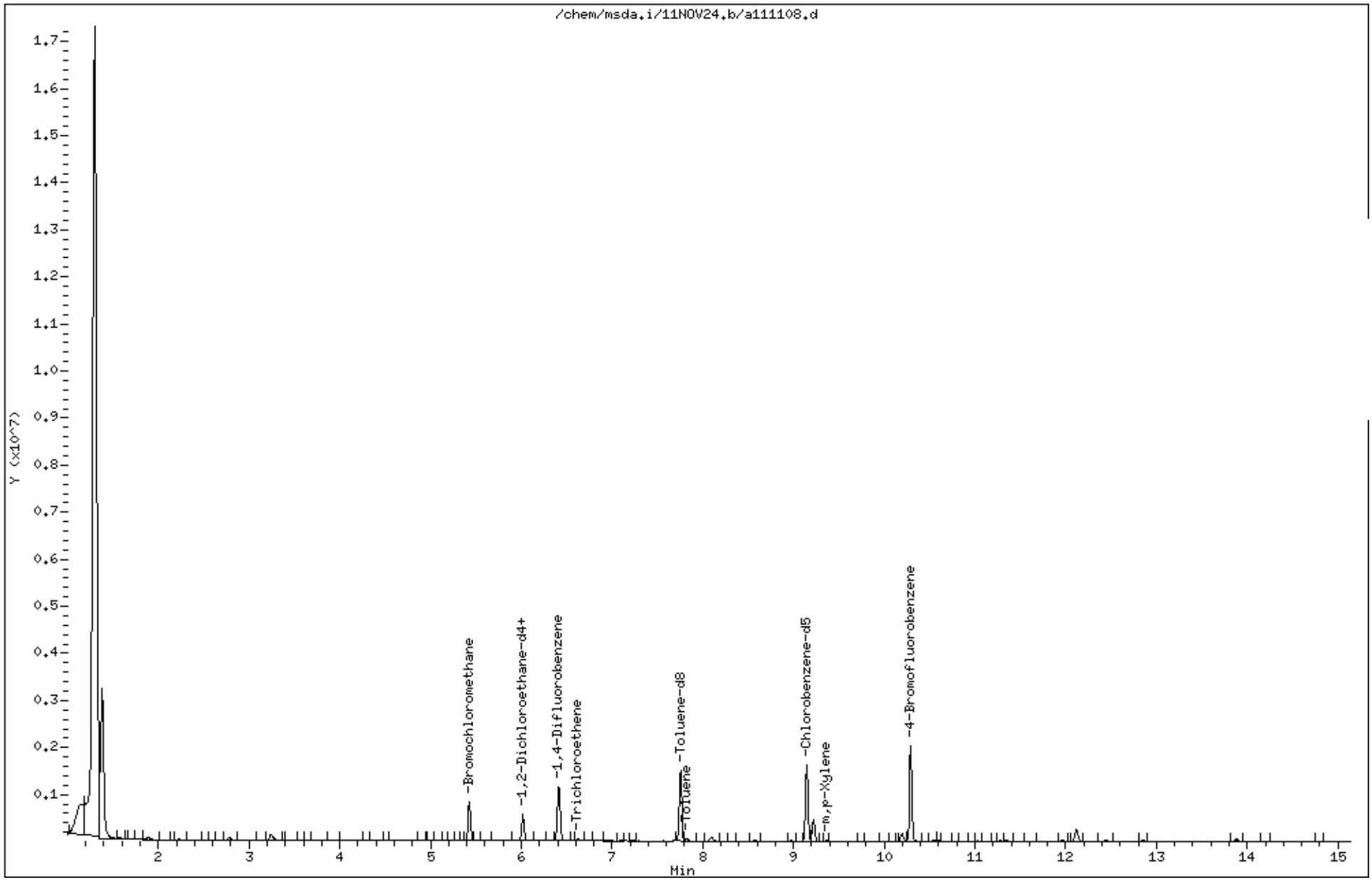
Instrument: msda.i

Sample Info: 200mL N7473

Operator: MS

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msda.i/11NOV24.b/a111108.d

Date : 11-NOV-2024 13:46

Client ID: 2410702B-17A

Instrument: msda.i

Sample Info: 200mL N7473

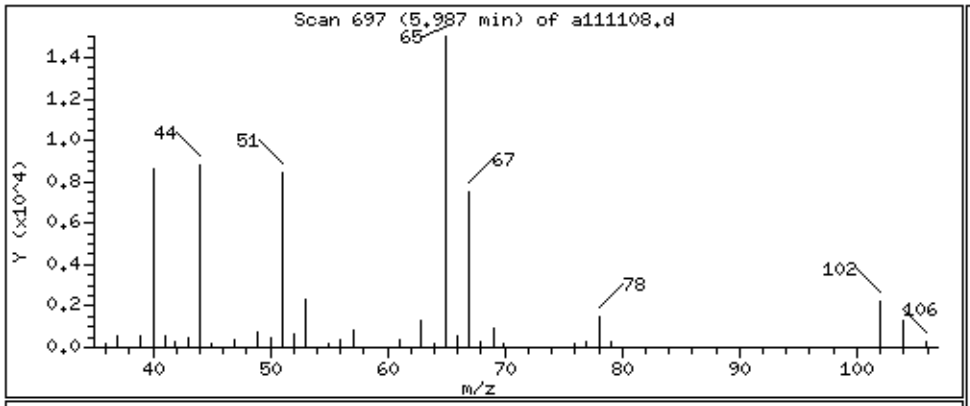
Operator: MS

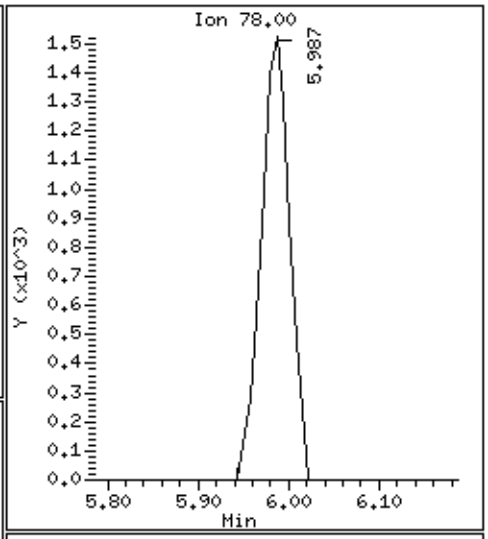
Column phase: RTX-624

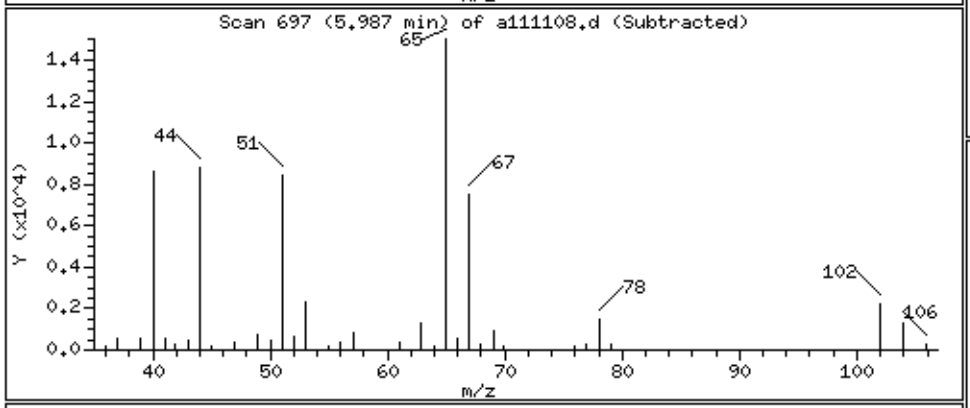
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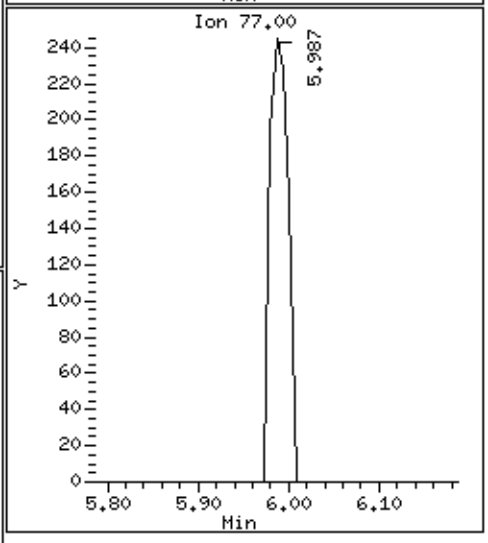
118 Benzene

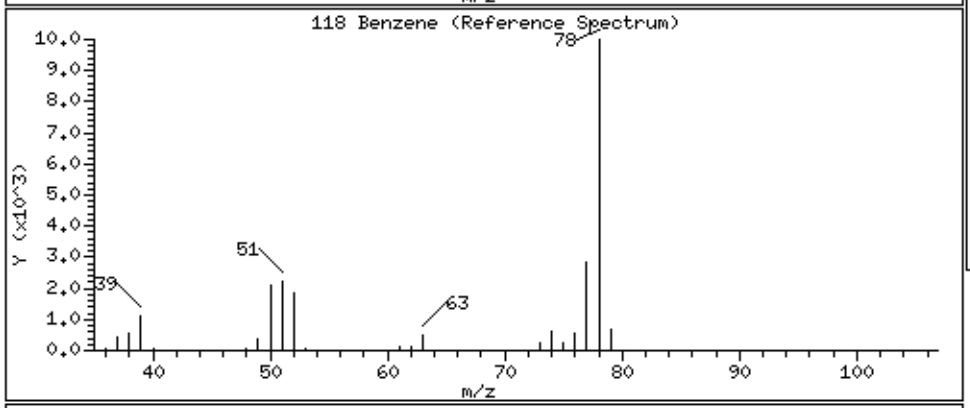
Concentration: 0.2168 PPBV

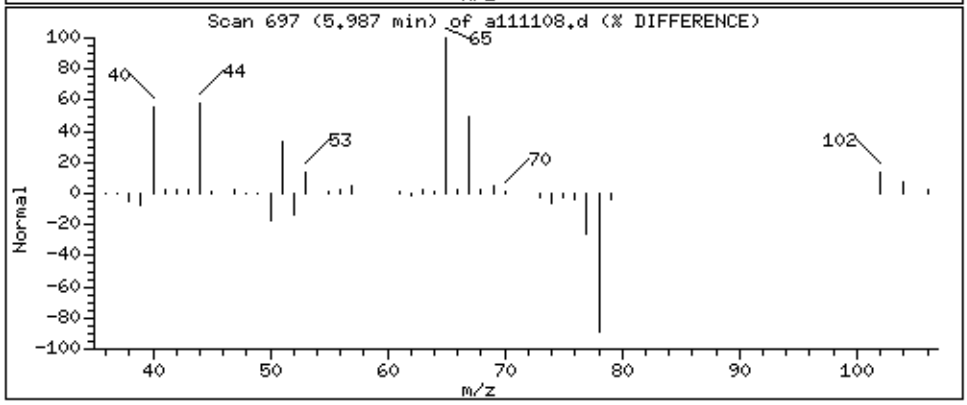












Data File: /chem/msda.i/11NOV24.b/a111108.d

Date : 11-NOV-2024 13:46

Client ID: 2410702B-17A

Instrument: msda.i

Sample Info: 200mL N7473

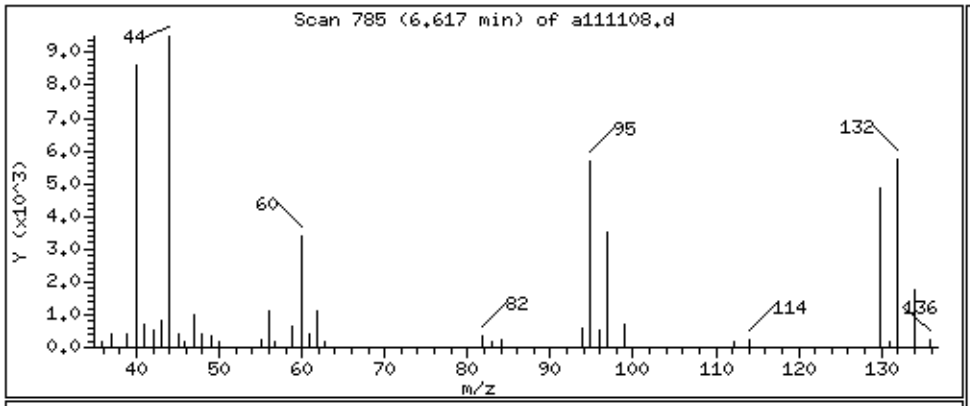
Operator: MS

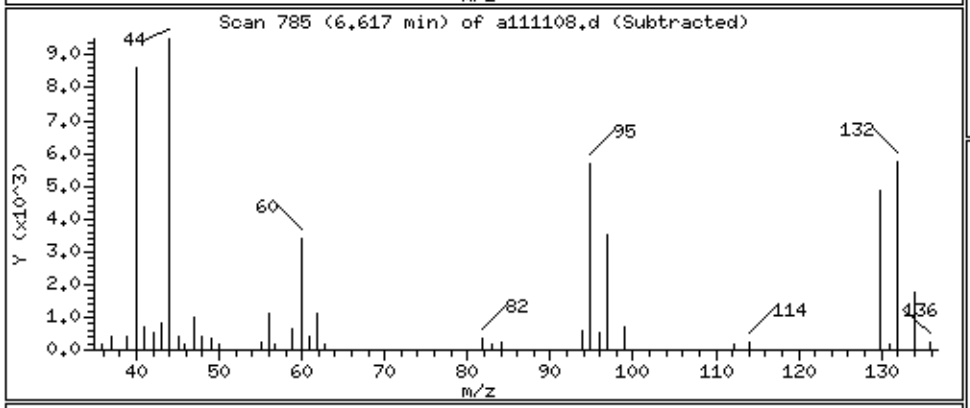
Column phase: RTX-624

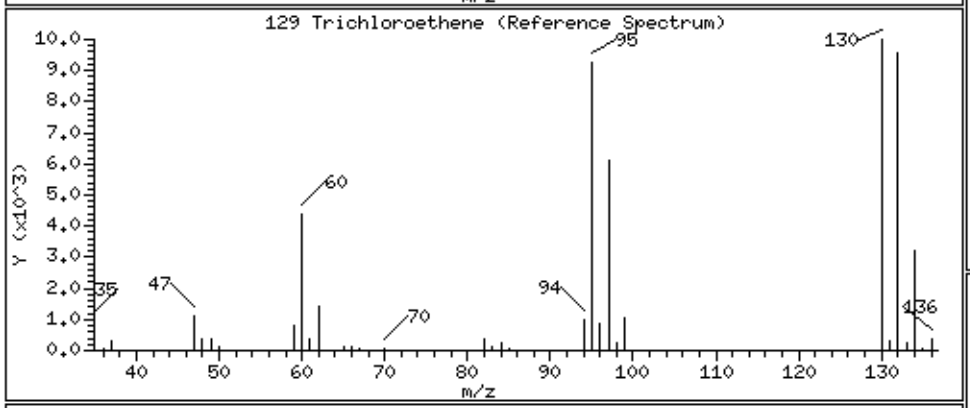
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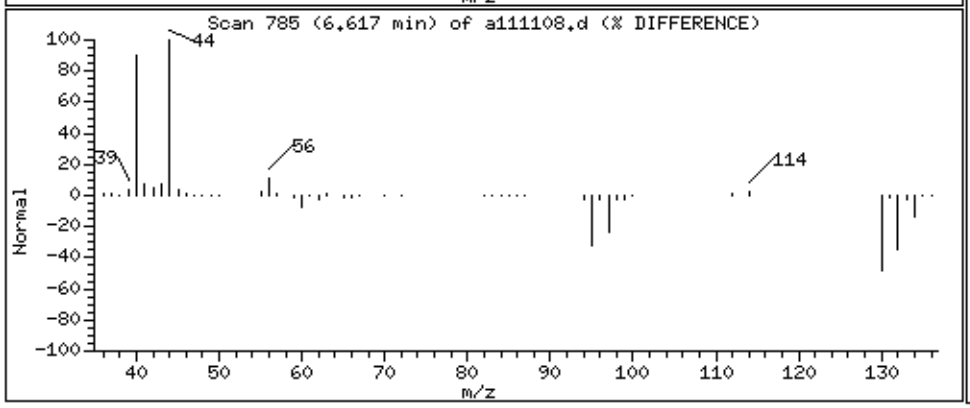
129 Trichloroethene

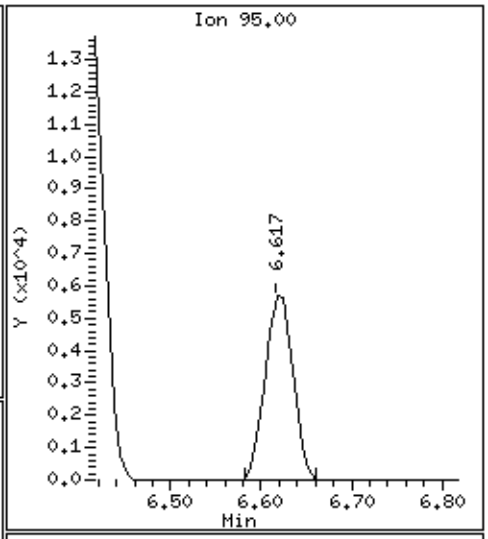
Concentration: 1.562 PPBV

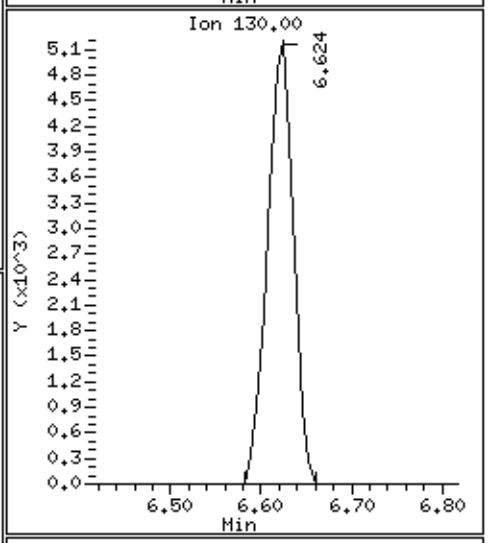


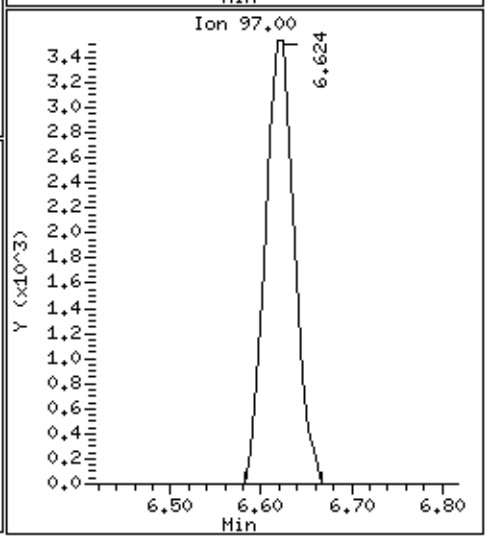












Data File: /chem/msda.i/11NOV24.b/a111108.d

Date : 11-NOV-2024 13:46

Client ID: 2410702B-17A

Instrument: msda.i

Sample Info: 200mL N7473

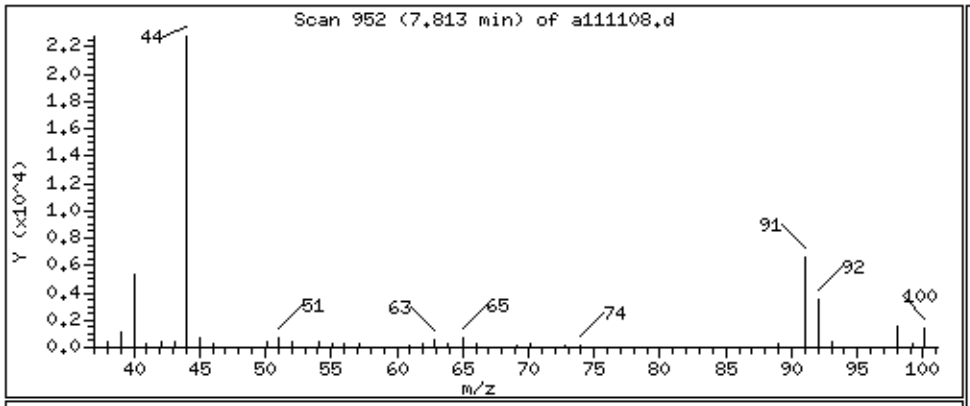
Operator: MS

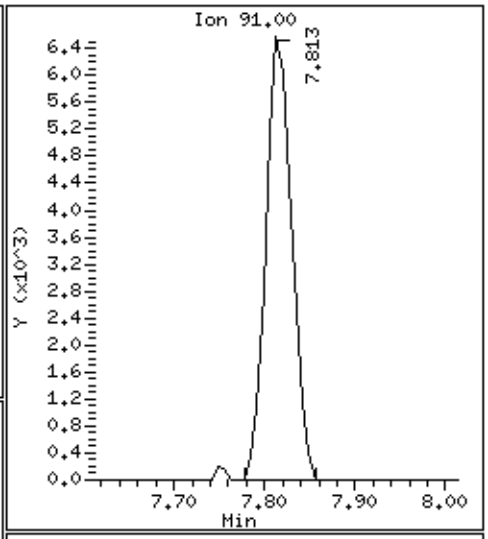
Column phase: RTX-624

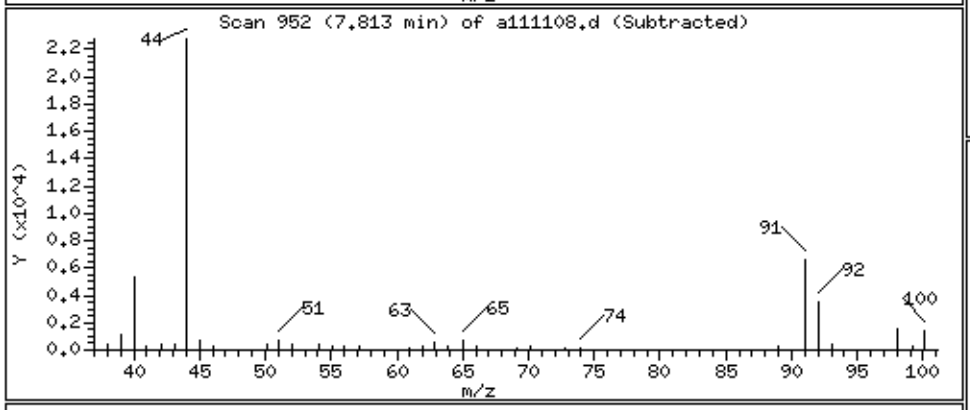
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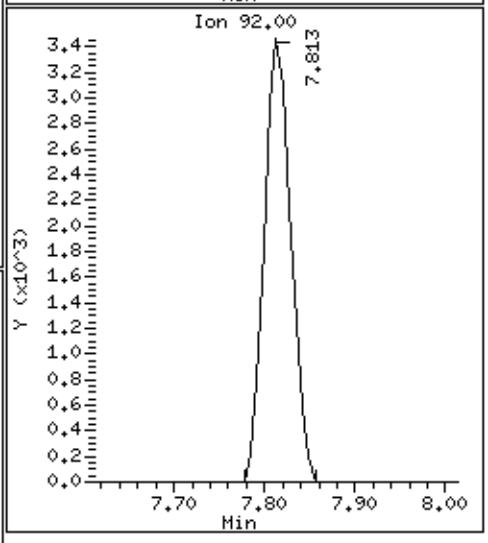
153 Toluene

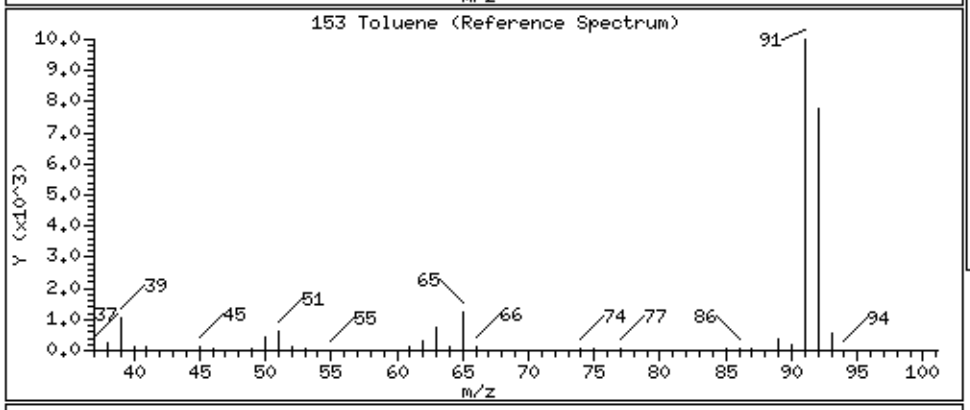
Concentration: 0.6432 PPBV

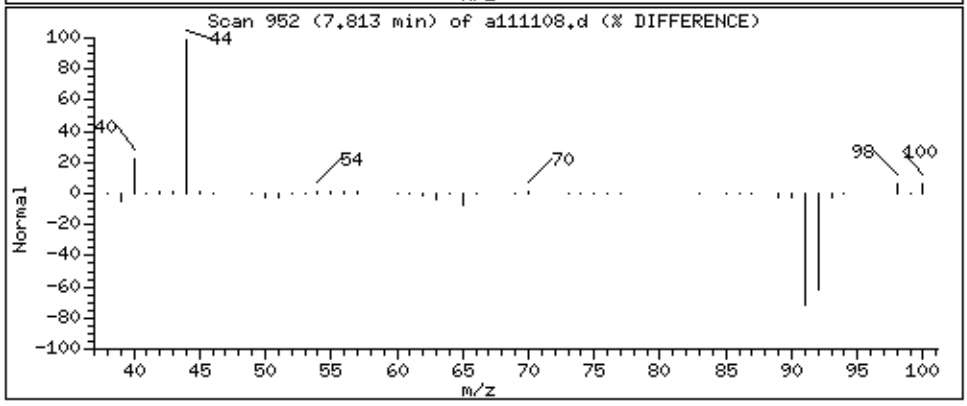












Data File: /chem/msda.i/11NOV24.b/a111108.d

Date : 11-NOV-2024 13:46

Client ID: 2410702B-17A

Instrument: msda.i

Sample Info: 200mL N7473

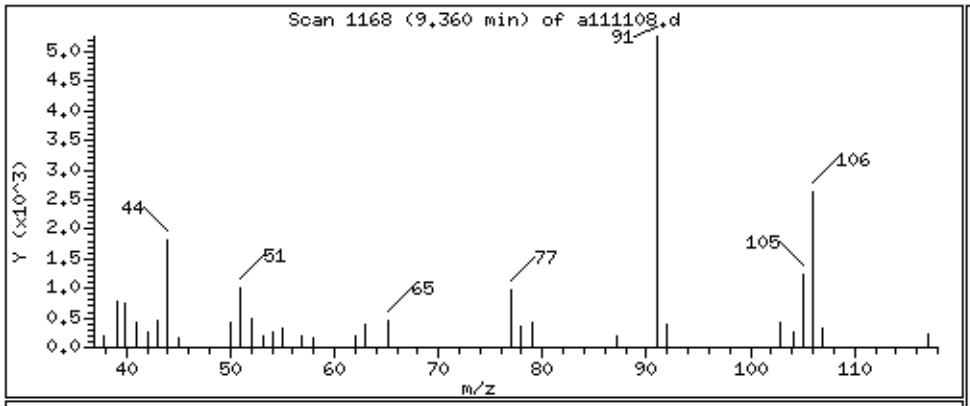
Operator: MS

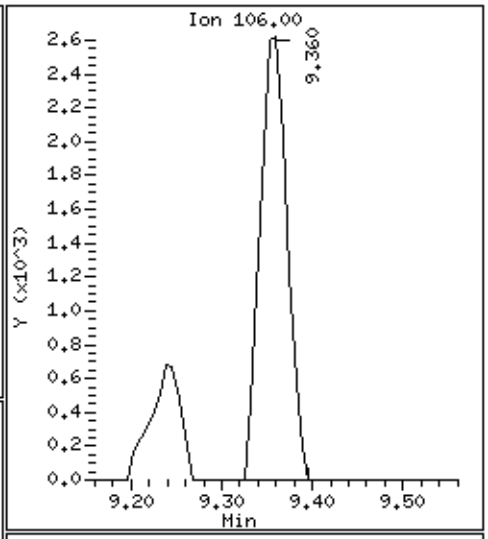
Column phase: RTX-624

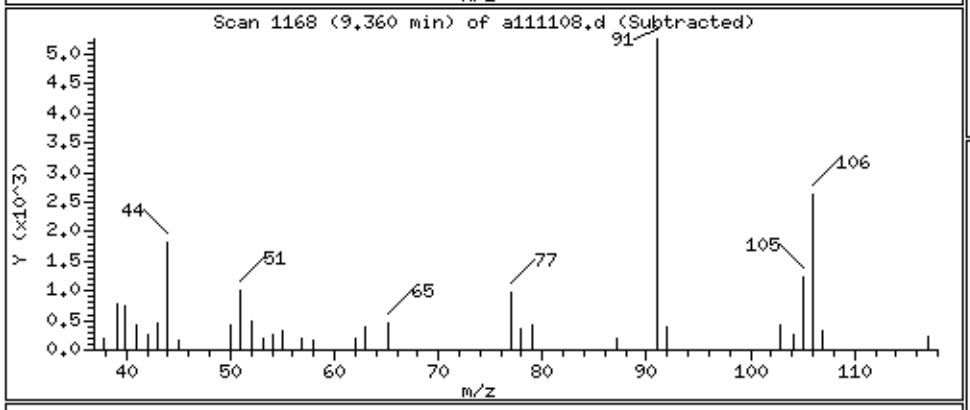
Column diameter: 0.25

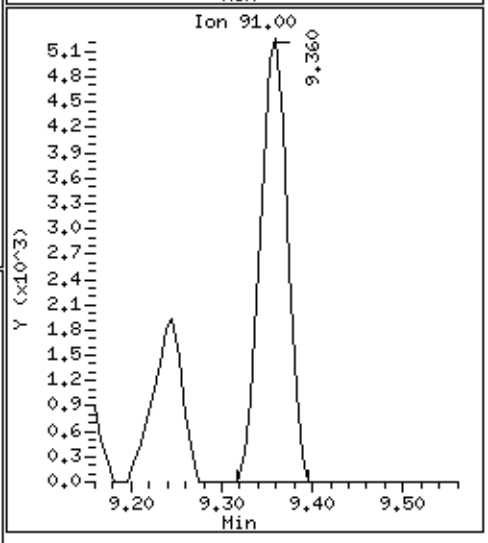
173 m,p-Xylene

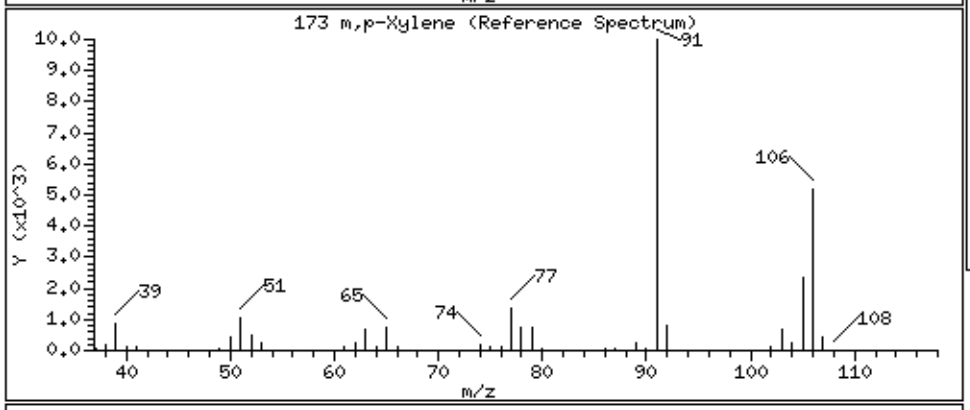
Concentration: 0.4875 PPBV

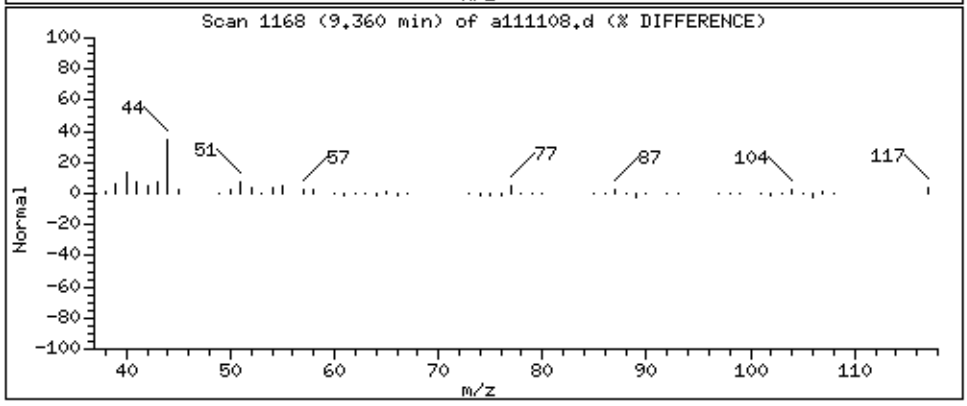












eurofins | Air Toxics

Client ID:	T1AMF-SV033_OCT24 Lab Duplicate		
Lab ID:	2410702B-17AA	**Date/Time Analyzed:**	11/11/24 02:23 PM
Date/Time Collected:	10/24/24 03:56 PM	**Dilution Factor:**	2.16
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111109

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.0	3.8	4.3	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.2	5.8	6.5	Not Detected U
Benzene	71-43-2	0.60	3.1	3.4	0.72 J
cis-1,2-Dichloroethene	156-59-2	1.3	3.8	4.3	Not Detected U
Ethyl Benzene	100-41-4	1.8	4.2	4.7	Not Detected U
m,p-Xylene	108-38-3	1.7	4.2	9.4	1.7 J
o-Xylene	95-47-6	1.6	4.2	4.7	Not Detected U
Toluene	108-88-3	0.90	3.7	8.1	2.3 J
trans-1,2-Dichloroethene	156-60-5	1.6	3.8	4.3	Not Detected U
Trichloroethene	79-01-6	0.85	5.2	5.8	8.3
Vinyl Chloride	75-01-4	1.3	2.5	2.8	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	90
4-Bromofluorobenzene	460-00-4	70-130	94
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111109.d
Lab Smp Id: 2410702B-17AA Client Smp ID: 2410702B-17AA
Inj Date : 11-NOV-2024 14:23
Operator : MS Inst ID: msda.i
Smp Info : 200mL N7473
Misc Info : 7.1 Hg->9.5 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 2
Dil Factor: 2.16000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane							CAS #: 74-97-5	
5.428	5.428 (1.000)	130	261265	25.0000			80.00- 120.00	100.00
5.428	5.428 (1.000)	128	199894				46.45- 106.45	76.51
5.428	5.428 (1.000)	49	533377				167.12- 227.12	204.15
* 126 1,4-Difluorobenzene							CAS #: 540-36-3	
6.409	6.409 (1.000)	114	953833	25.0000			80.00- 120.00	100.00
6.409	6.409 (1.000)	88	154628				0.00- 46.36	16.21
* 165 Chlorobenzene-d5							CAS #: 3114-55-4	
9.153	9.146 (1.000)	117	897671	25.0000			80.00- 120.00	100.00
9.145	9.146 (1.000)	82	502555				27.12- 87.12	55.98
$ 119 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
6.015	6.015 (1.108)	65	409862	22.5496	22.550		80.00- 120.00	100.00
6.015	6.015 (1.108)	67	202303				23.36- 83.36	49.36
$ 152 Toluene-d8							CAS #: 2037-26-5	
7.756	7.756 (1.210)	98	1004239	25.2516	25.252		80.00- 120.00	100.00
7.756	7.756 (1.210)	70	117313				0.00- 41.92	11.68

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.210)	100	676745			39.07- 99.07	67.39
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.124)	174	565676	23.6308	23.631	80.00- 120.00	100.00
10.292	10.292 (1.124)	95	692659			89.27- 149.27	122.45
10.292	10.292 (1.124)	176	541987			66.29- 126.29	95.81
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	3435	0.10394	0.2245	80.00- 120.00	100.00(a)
5.979	5.987 (0.933)	77	1033			0.00- 53.99	30.08
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	12045	0.71490	1.544	80.00- 120.00	100.00
6.624	6.617 (1.034)	130	11113			67.98- 127.98	92.27
6.624	6.617 (1.034)	97	6384			34.45- 94.45	53.01
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.219)	91	12095	0.27862	0.6018	80.00- 120.00	100.00(a)
7.820	7.813 (1.220)	92	6431			27.69- 87.69	53.17
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.360 (1.023)	106	4245	0.18263	0.3945	80.00- 120.00	100.00(aQ)
9.353	9.360 (1.022)	91	10548			176.41- 236.41	248.45

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111109.d
Lab Smp Id: 2410702B-17AA
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 7.1 Hg->9.5 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Client Smp ID: 2410702B-17AA
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	261265	-1.47
126 1,4-Difluorobenze	973920	584352	1363488	953833	-2.06
165 Chlorobenzene-d5	894091	536455	1251727	897671	0.40

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	-0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	-0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:52

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-17AA Client Smp ID: 2410702B-17AA
Level: LOW Operator: MS
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 7.1 Hg->9.5 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.550	90.20	70-130
$ 152 Toluene-d8	25.000	25.252	101.01	70-130
$ 191 4-Bromofluorobenz	25.000	23.631	94.52	70-130

Data File: /chem/msda.i/11NOV24.b/a111109.d

Date : 11-NOV-2024 14:23

Client ID: 2410702B-17AA

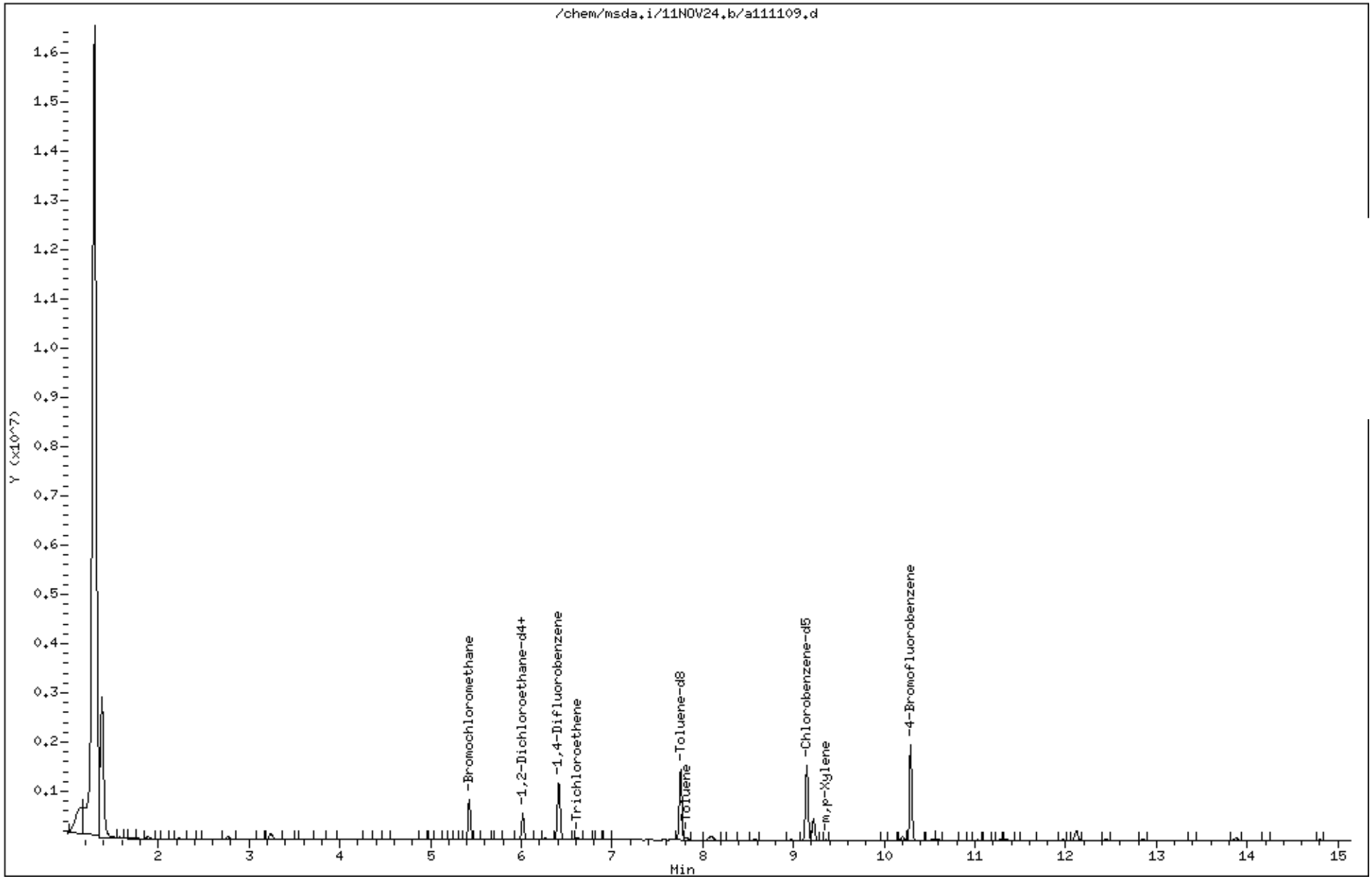
Sample Info: 200mL N7473

Column phase: RTX-624

Instrument: msda.i

Operator: MS

Column diameter: 0.25



Data File: /chem/msda.i/11NOV24.b/a111109.d

Date : 11-NOV-2024 14:23

Client ID: 2410702B-17AA

Instrument: msda.i

Sample Info: 200mL N7473

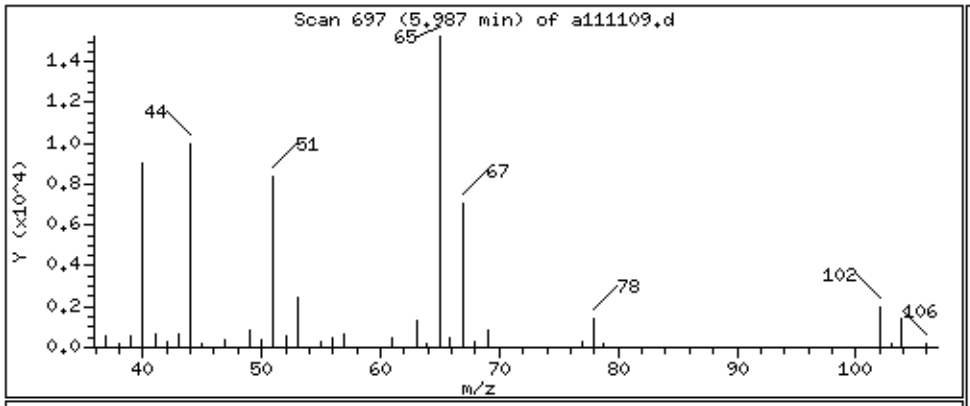
Operator: MS

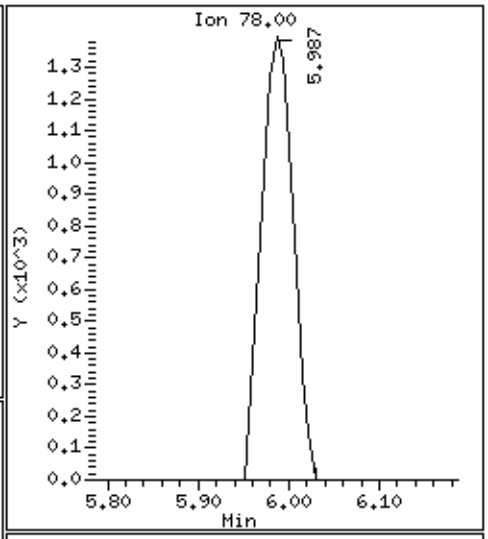
Column phase: RTX-624

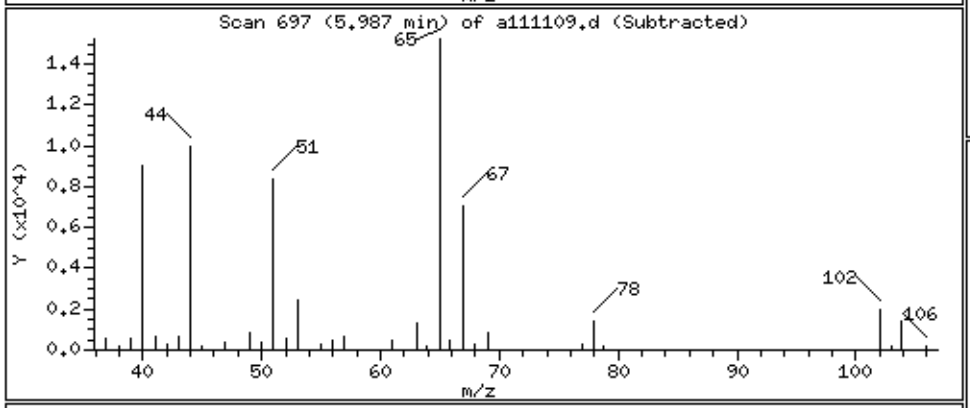
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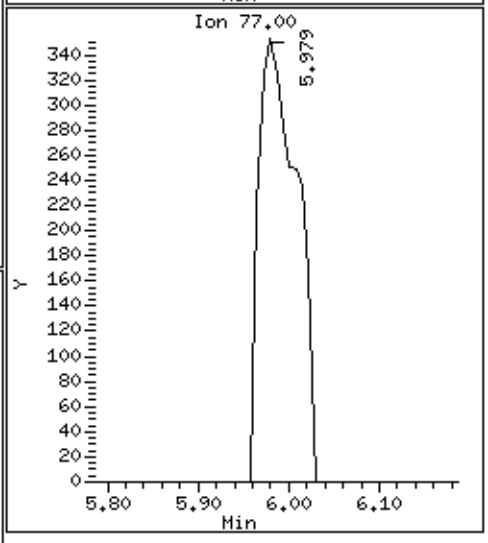
118 Benzene

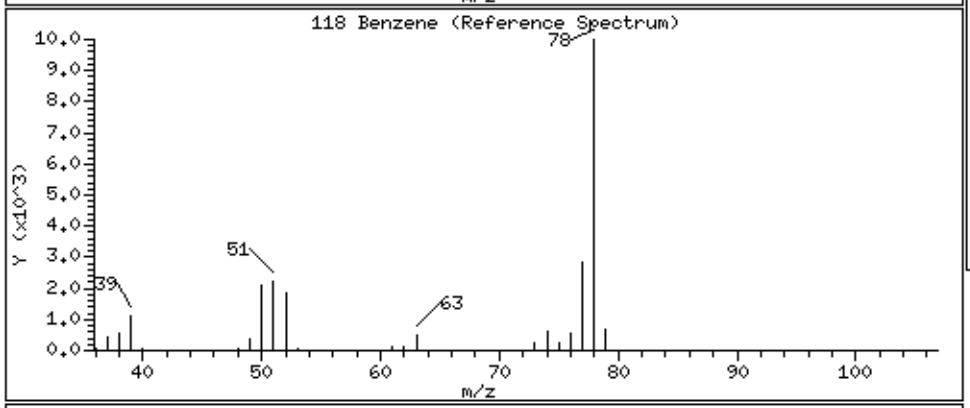
Concentration: 0.2245 PPBV

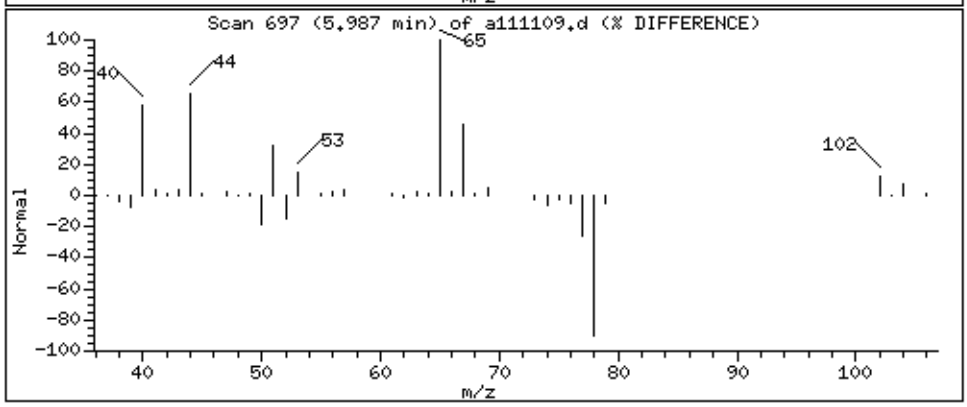












Data File: /chem/msda.i/11NOV24.b/a111109.d

Date : 11-NOV-2024 14:23

Client ID: 2410702B-17AA

Instrument: msda.i

Sample Info: 200mL N7473

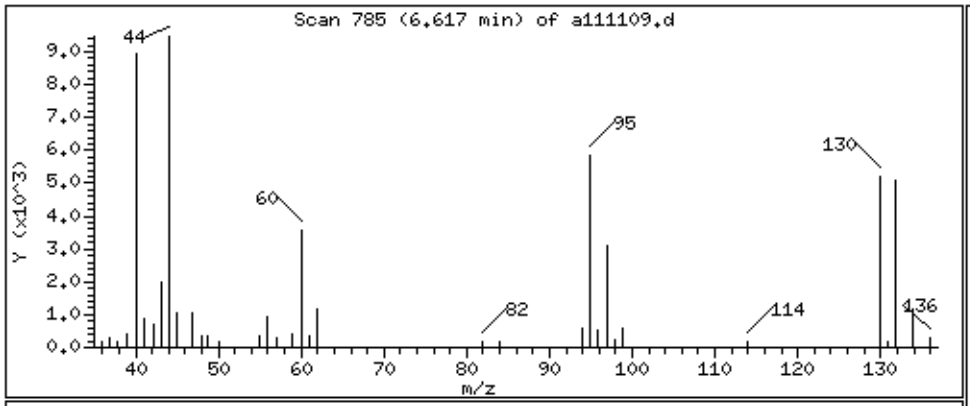
Operator: MS

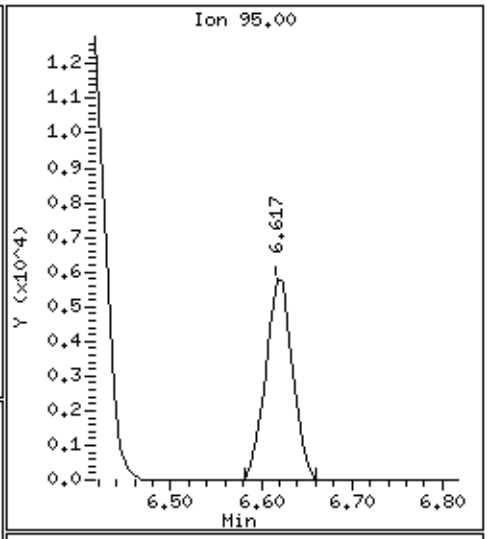
Column phase: RTX-624

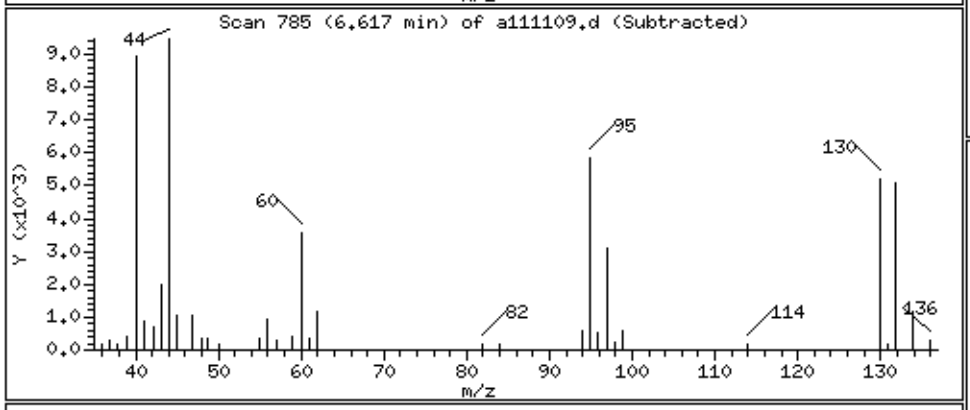
Column diameter: 0.25

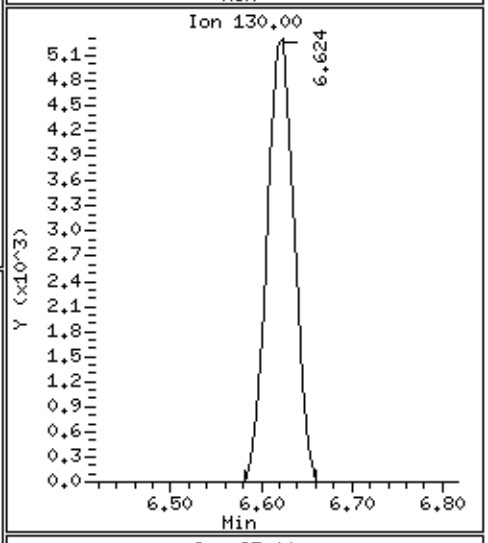
129 Trichloroethene

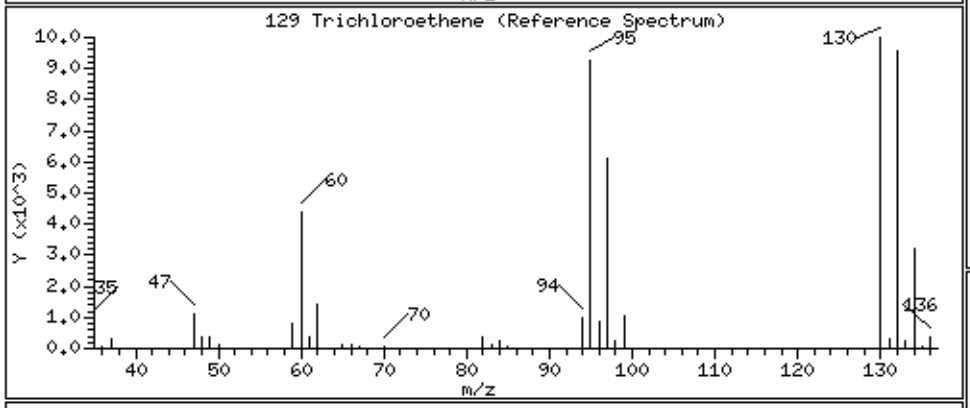
Concentration: 1.544 PPBV

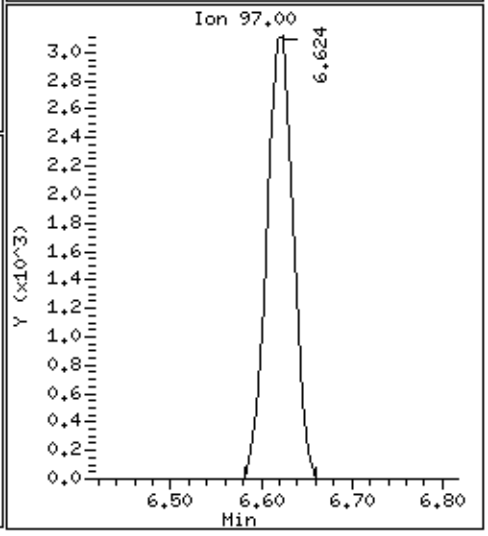


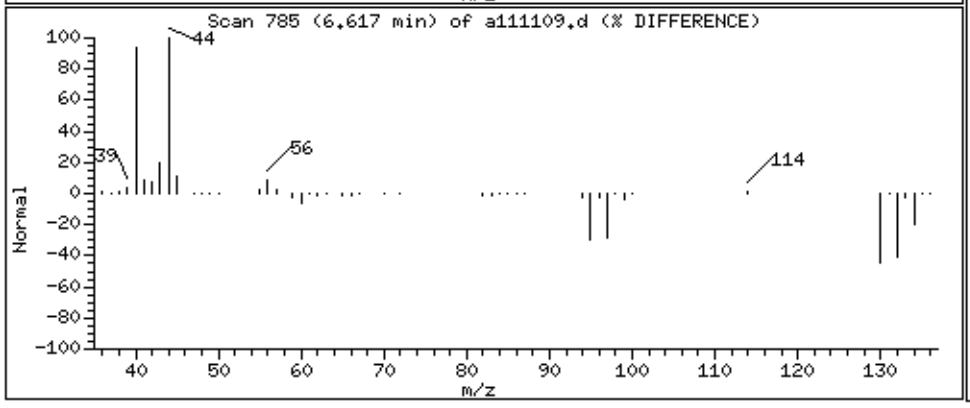












Data File: /chem/msda.i/11NOV24.b/a111109.d

Date : 11-NOV-2024 14:23

Client ID: 2410702B-17AA

Instrument: msda.i

Sample Info: 200mL N7473

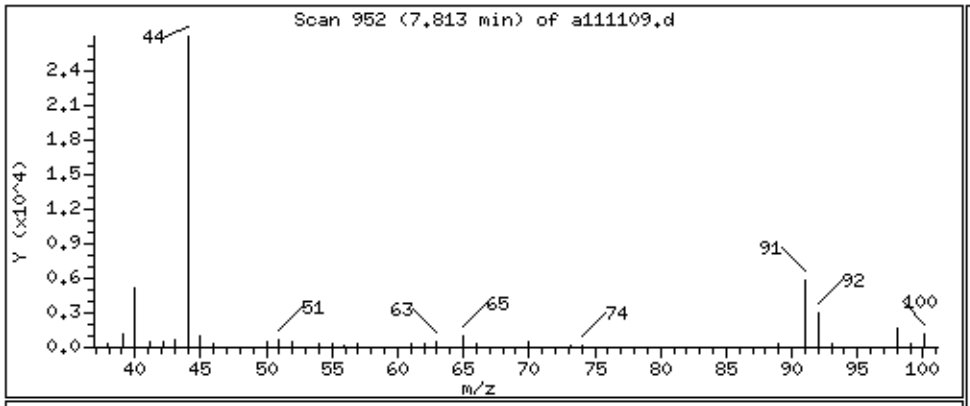
Operator: MS

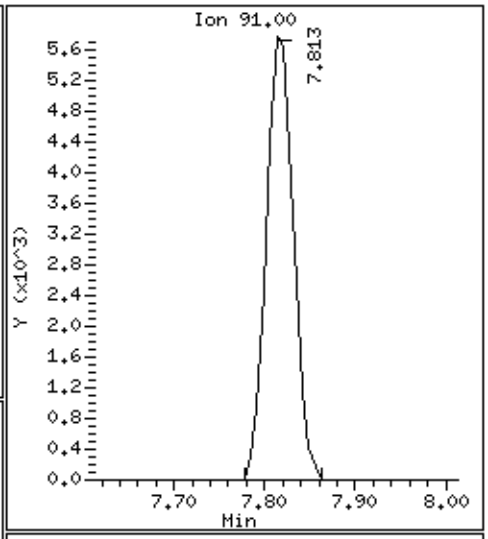
Column phase: RTX-624

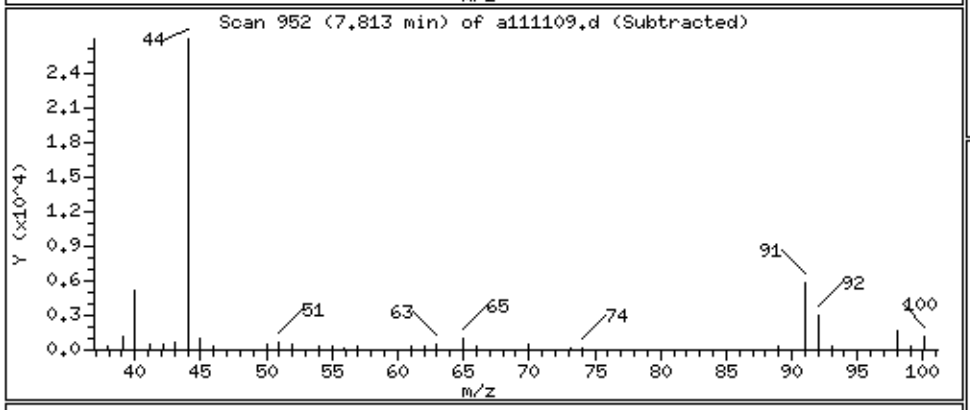
Column diameter: 0.25

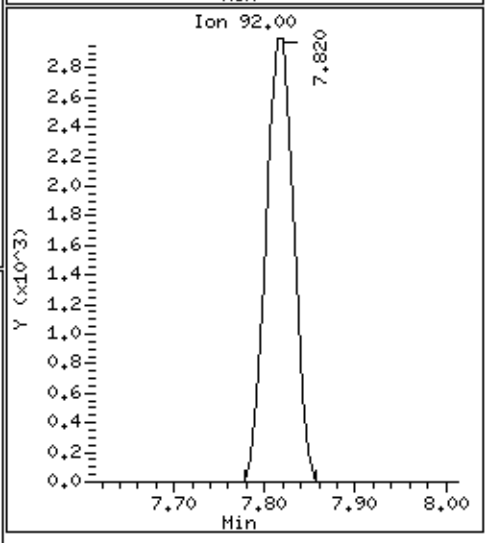
153 Toluene

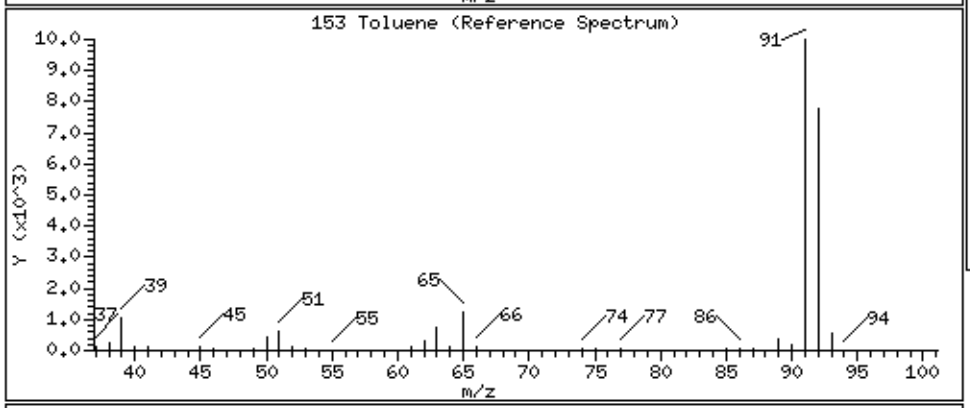
Concentration: 0.6018 PPBV

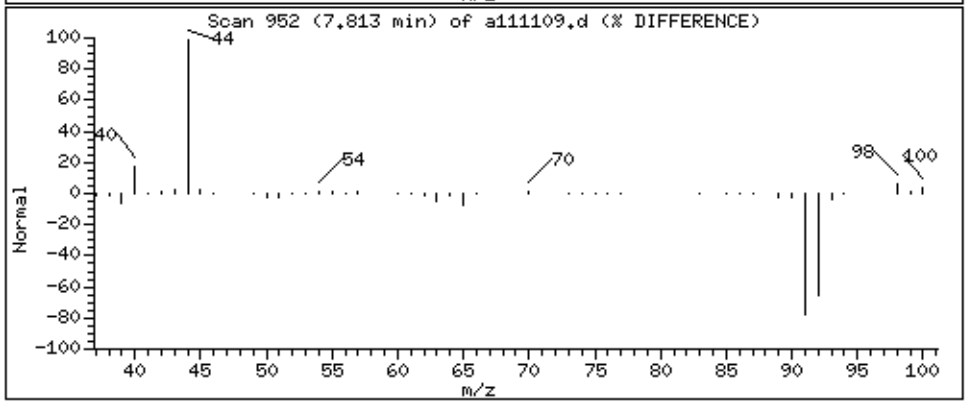












Data File: /chem/msda.i/11NOV24.b/a111109.d

Date : 11-NOV-2024 14:23

Client ID: 2410702B-17AA

Instrument: msda.i

Sample Info: 200mL N7473

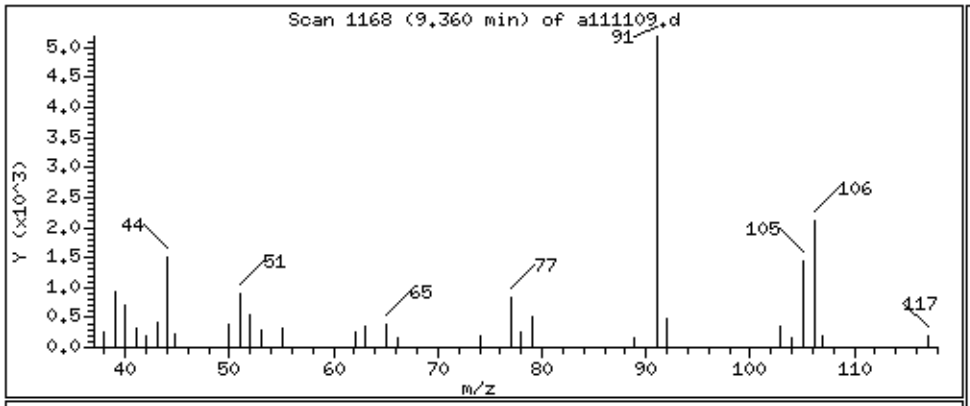
Operator: MS

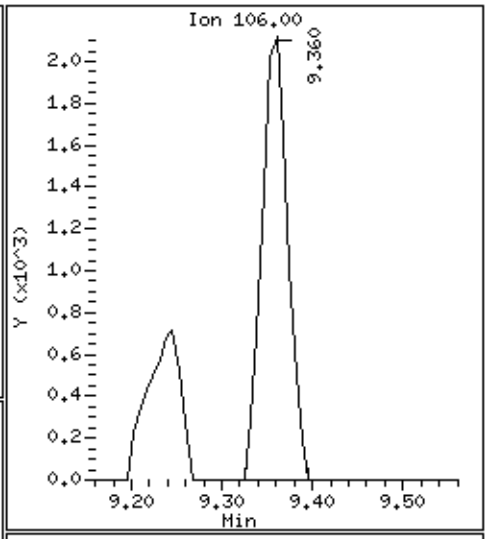
Column phase: RTX-624

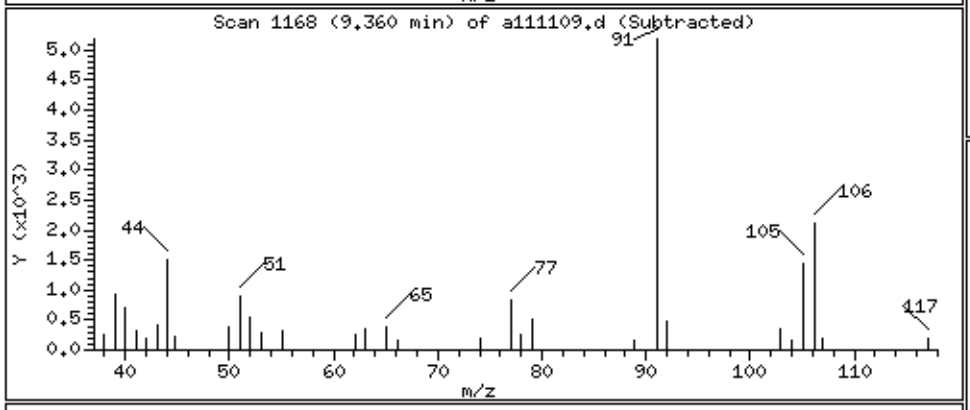
Column diameter: 0.25

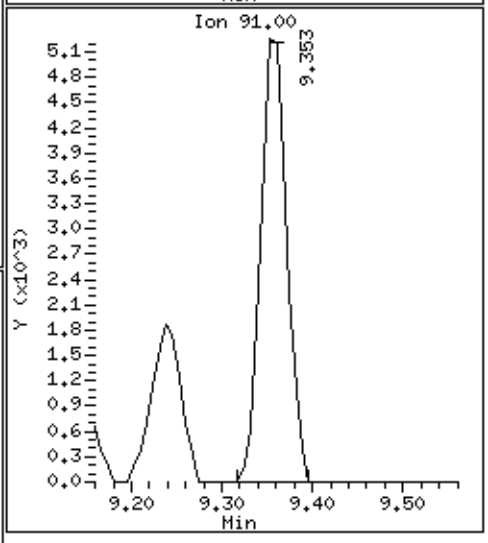
173 m,p-Xylene

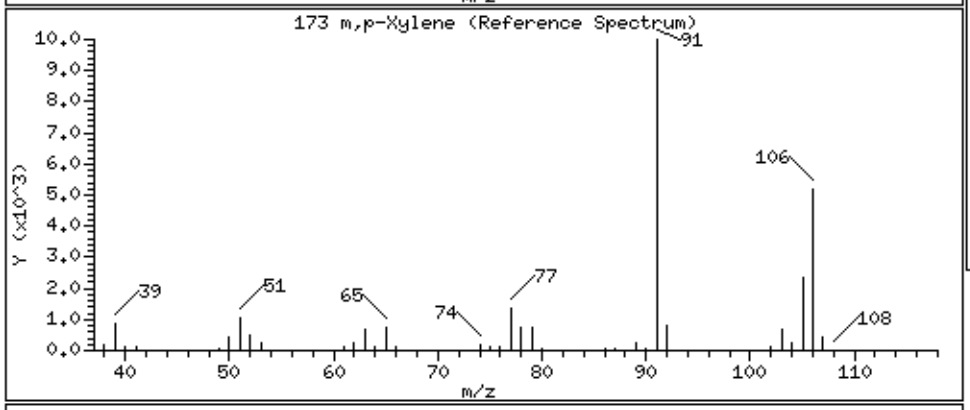
Concentration: 0.3945 PPBV

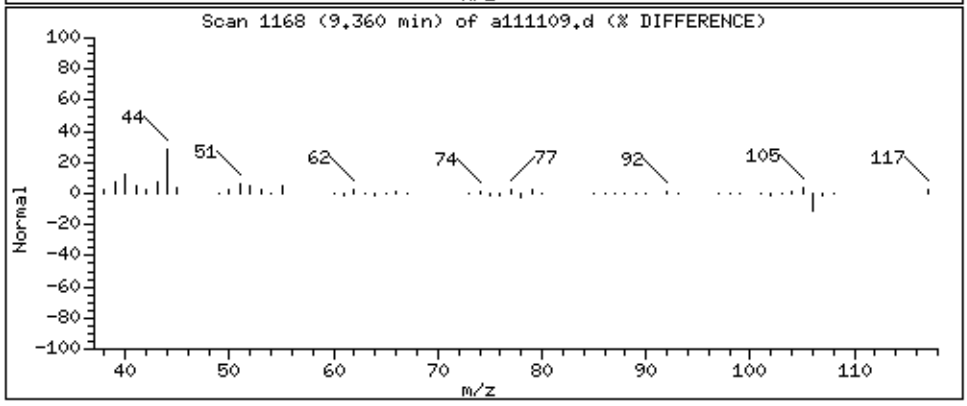












eurofins | Air Toxics

Client ID:	T1AMF-SV023_OCT24		
Lab ID:	2410702B-18A	**Date/Time Analyzed:**	11/11/24 03:00 PM
Date/Time Collected:	10/25/24 08:11 AM	**Dilution Factor:**	1.89
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111110

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.92	3.4	3.7	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.0	5.1	5.7	Not Detected U
Benzene	71-43-2	0.52	2.7	3.0	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.1	3.4	3.7	Not Detected U
Ethyl Benzene	100-41-4	1.6	3.7	4.1	Not Detected U
m,p-Xylene	108-38-3	1.5	3.7	8.2	2.5 J
o-Xylene	95-47-6	1.4	3.7	4.1	Not Detected U
Toluene	108-88-3	0.78	3.2	7.1	3.6 J
trans-1,2-Dichloroethene	156-60-5	1.4	3.4	3.7	Not Detected U
Trichloroethene	79-01-6	0.74	4.6	5.1	Not Detected U
Vinyl Chloride	75-01-4	1.1	2.2	2.4	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	91
4-Bromofluorobenzene	460-00-4	70-130	91
Toluene-d8	2037-26-5	70-130	102

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111110.d
Lab Smp Id: 2410702B-18A Client Smp ID: 2410702B-18A
Inj Date : 11-NOV-2024 15:00
Operator : MS Inst ID: msda.i
Smp Info : 200mL 1L4686
Misc Info : 3.5 Hg->9.9 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 3
Dil Factor: 1.89000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.435	5.428 (1.000)	130	254766	25.0000		80.00- 120.00	100.00
5.435	5.428 (1.000)	128	196115			46.45- 106.45	76.98
5.428	5.428 (1.000)	49	530261			167.12- 227.12	208.14
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	931741	25.0000		80.00- 120.00	100.00
6.416	6.409 (1.000)	88	150225			0.00- 46.36	16.12
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.146 (1.000)	117	887518	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	492065			27.12- 87.12	55.44
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.022	6.015 (1.108)	65	402758	22.7241	22.724	80.00- 120.00	100.00
6.022	6.015 (1.108)	67	199857			23.36- 83.36	49.62
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	992757	25.5548	25.555	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	116269			0.00- 41.92	11.71

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	665478			39.07- 99.07	67.03
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.124)	174	537198	22.6979	22.698	80.00- 120.00	100.00
10.292	10.292 (1.124)	95	658026			89.27- 149.27	122.49
10.292	10.292 (1.124)	176	517038			66.29- 126.29	96.25
153 Toluene					CAS #: 108-88-3		
7.820	7.813 (1.219)	91	21443	0.50567	0.9557	80.00- 120.00	100.00(a)
7.820	7.813 (1.219)	92	11129			27.69- 87.69	51.90
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.360 (1.023)	106	6992	0.30425	0.5750	80.00- 120.00	100.00(a)
9.360	9.360 (1.023)	91	15058			176.41- 236.41	215.35

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111110.d
Lab Smp Id: 2410702B-18A
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 3.5 Hg->9.9 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Client Smp ID: 2410702B-18A
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	254766	-3.92
126 1,4-Difluorobenze	973920	584352	1363488	931741	-4.33
165 Chlorobenzene-d5	894091	536455	1251727	887518	-0.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.44	0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:31

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-18A Client Smp ID: 2410702B-18A
Level: LOW Operator: MS
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 3.5 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.724	90.90	70-130
$ 152 Toluene-d8	25.000	25.555	102.22	70-130
$ 191 4-Bromofluorobenz	25.000	22.698	90.79	70-130

Data File: /chem/msda.i/11NOV24.b/a111110.d

Date : 11-NOV-2024 15:00

Client ID: 2410702B-18A

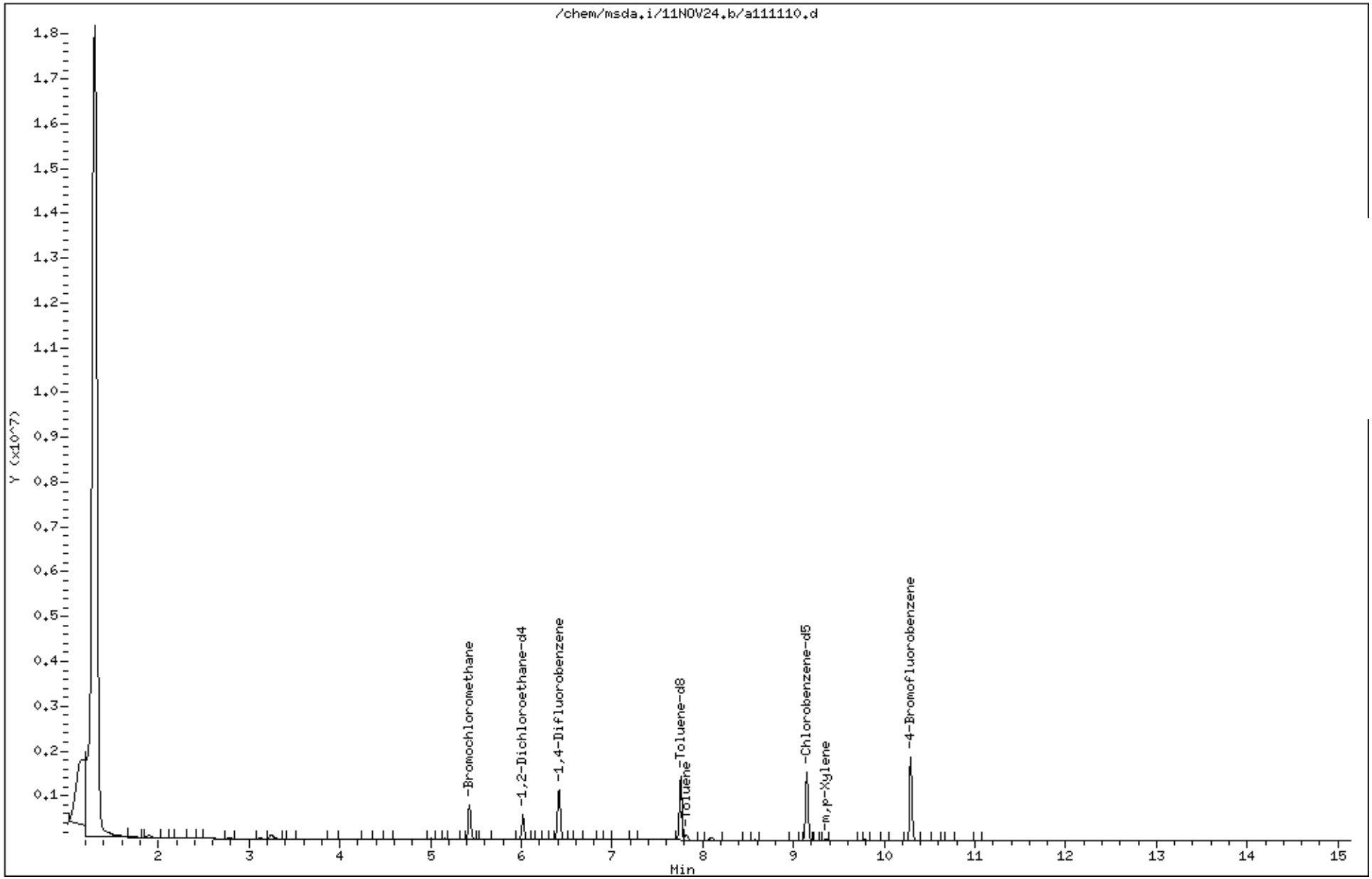
Sample Info: 200mL 1L4686

Column phase: RTX-624

Instrument: msda.i

Operator: MS

Column diameter: 0.25



Data File: /chem/msda.i/11NOV24.b/a111110.d

Date : 11-NOV-2024 15:00

Client ID: 2410702B-18A

Instrument: msda.i

Sample Info: 200mL 1L4686

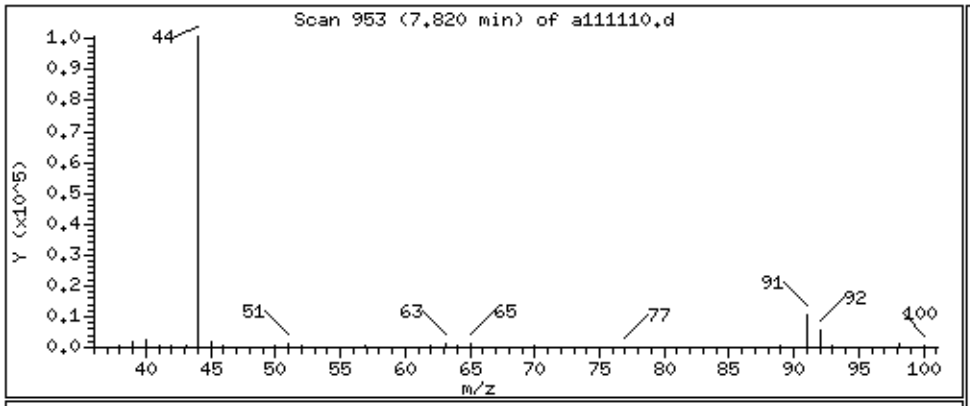
Operator: MS

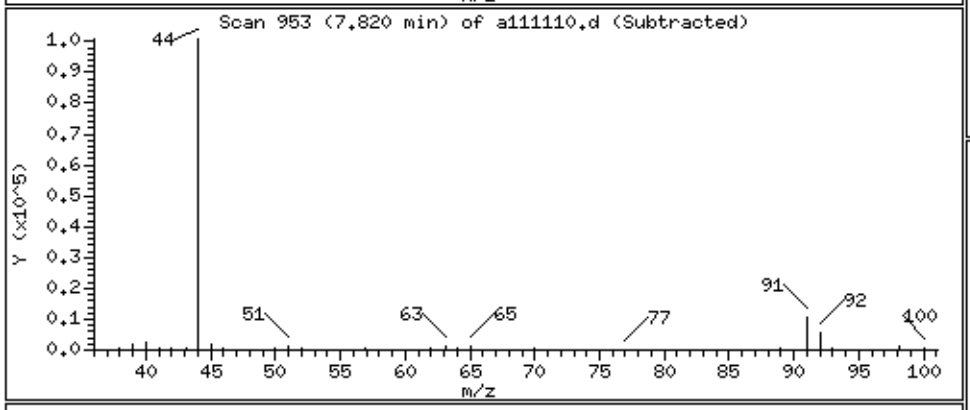
Column phase: RTX-624

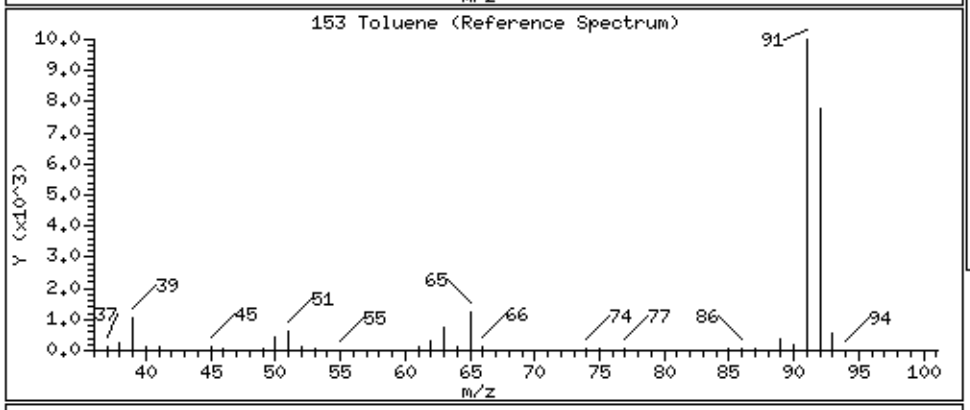
Column diameter: 0.25

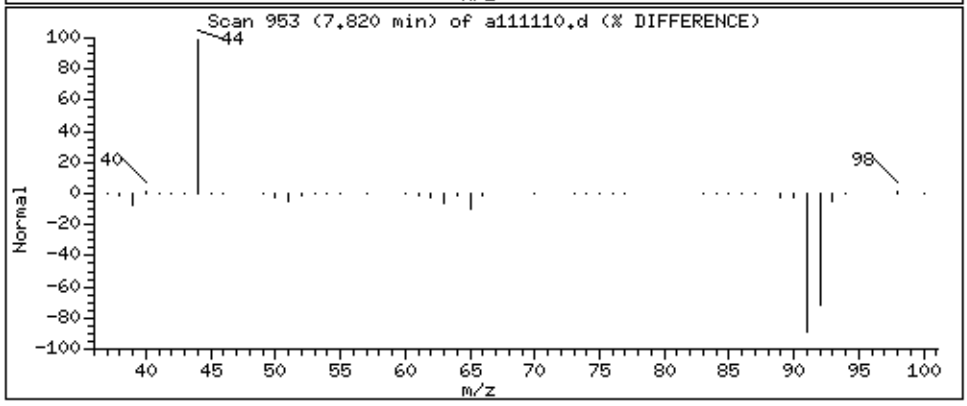
153 Toluene

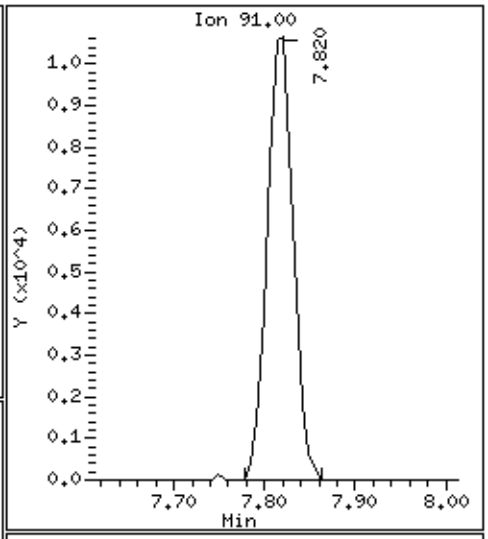
Concentration: 0.9557 PPBV

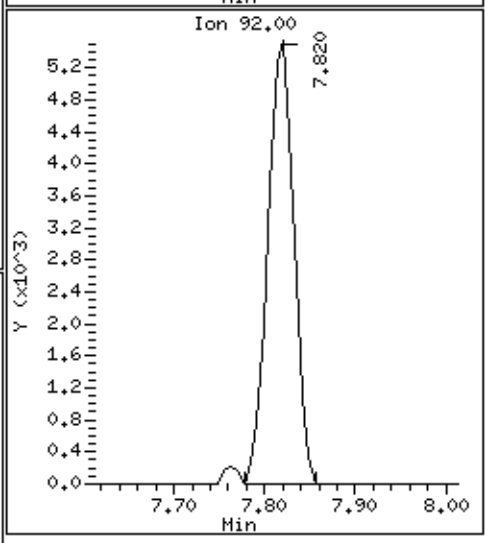












Data File: /chem/msda.i/11NOV24.b/a111110.d

Date : 11-NOV-2024 15:00

Client ID: 2410702B-18A

Instrument: msda.i

Sample Info: 200mL 1L4686

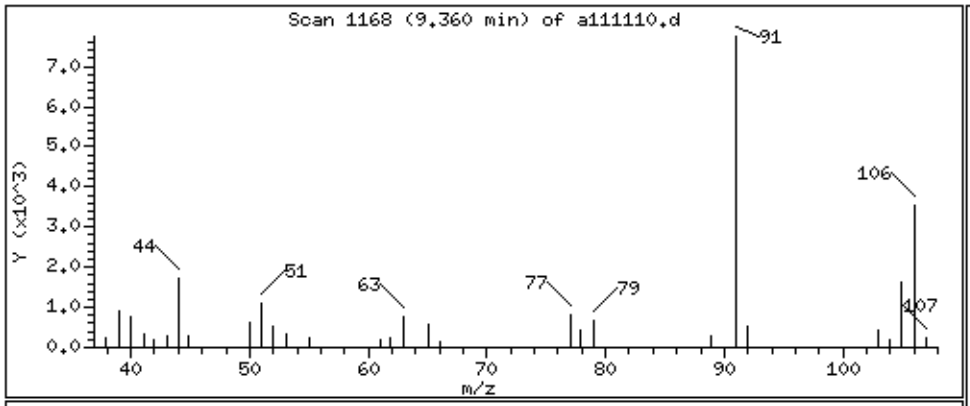
Operator: MS

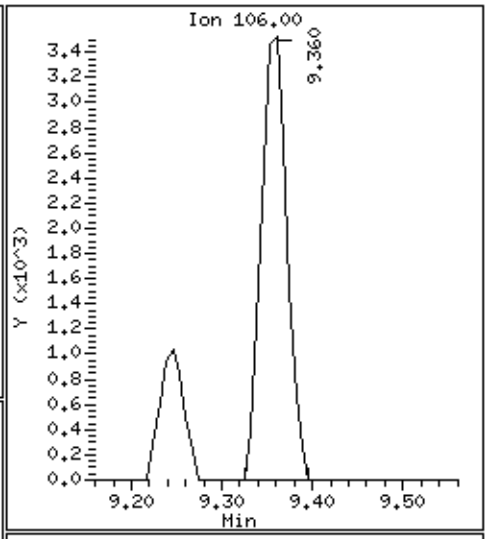
Column phase: RTX-624

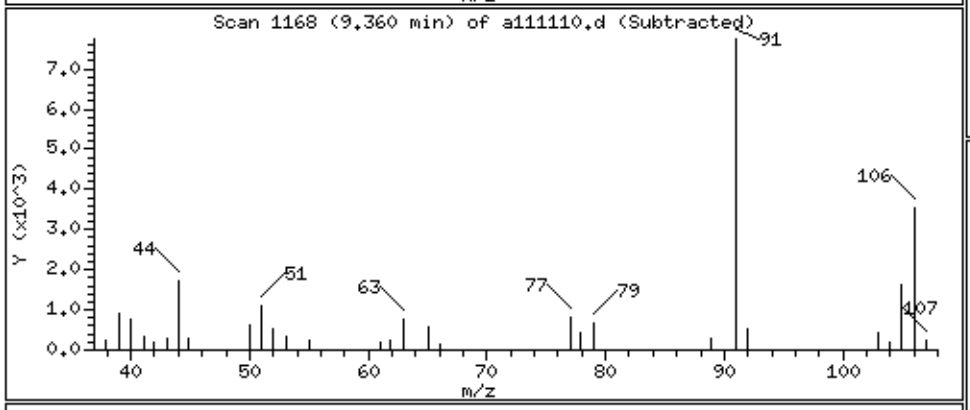
Column diameter: 0.25

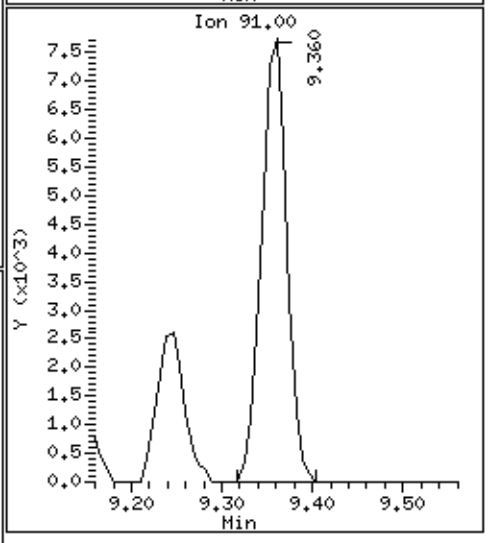
173 m,p-Xylene

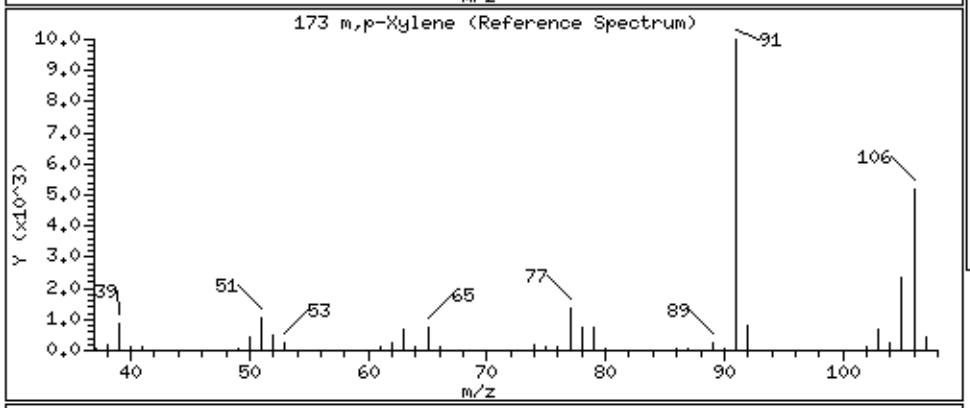
Concentration: 0.5750 PPBV

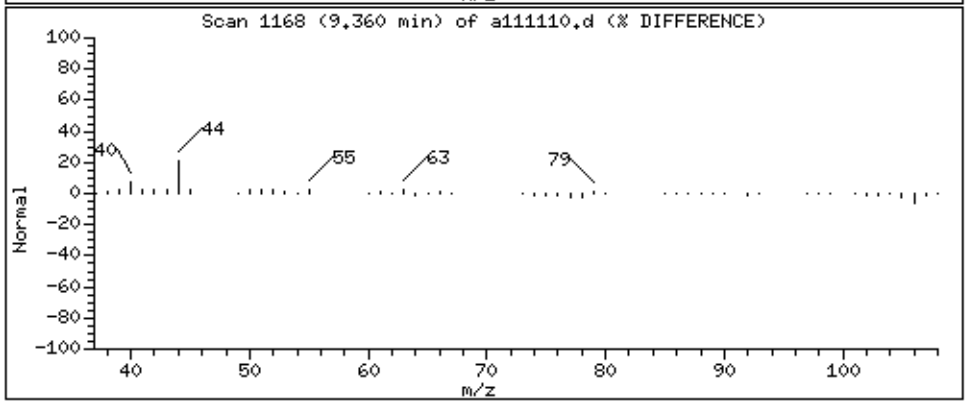












eurofins | Air Toxics

Client ID:	T1AMF-SV023_OCT24_FD		
Lab ID:	2410702B-19A	**Date/Time Analyzed:**	11/11/24 03:37 PM
Date/Time Collected:	10/25/24 08:11 AM	**Dilution Factor:**	2.00
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111111

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.98	3.6	4.0	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.1	5.4	6.0	Not Detected U
Benzene	71-43-2	0.56	2.9	3.2	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.2	3.6	4.0	Not Detected U
Ethyl Benzene	100-41-4	1.6	3.9	4.3	Not Detected U
m,p-Xylene	108-38-3	1.6	3.9	8.7	2.3 J
o-Xylene	95-47-6	1.5	3.9	4.3	Not Detected U
Toluene	108-88-3	0.83	3.4	7.5	3.4 J
trans-1,2-Dichloroethene	156-60-5	1.5	3.6	4.0	Not Detected U
Trichloroethene	79-01-6	0.79	4.8	5.4	Not Detected U
Vinyl Chloride	75-01-4	1.2	2.3	2.6	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	92
4-Bromofluorobenzene	460-00-4	70-130	93
Toluene-d8	2037-26-5	70-130	103

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111111.d
Lab Smp Id: 2410702B-19A
Inj Date : 11-NOV-2024 15:37
Operator : MS Inst ID: msda.i
Smp Info : 200mL O0882
Misc Info : 4.9 Hg->9.9 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 4
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.435	5.428 (1.000)	130	250156	25.0000		80.00- 120.00	100.00
5.435	5.428 (1.000)	128	196336			46.45- 106.45	78.49
5.428	5.428 (1.000)	49	528929			167.12- 227.12	211.44
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	916401	25.0000		80.00- 120.00	100.00
6.416	6.409 (1.000)	88	147202			0.00- 46.36	16.06
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.146 (1.000)	117	860987	25.0000		80.00- 120.00	100.00
9.153	9.146 (1.000)	82	484546			27.12- 87.12	56.28
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.022	6.015 (1.108)	65	398655	22.9071	22.907	80.00- 120.00	100.00
6.022	6.015 (1.108)	67	196365			23.36- 83.36	49.26
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	985181	25.7843	25.784	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	114931			0.00- 41.92	11.67

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	651805			39.07- 99.07	66.16
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.124)	174	532713	23.2020	23.202	80.00- 120.00	100.00
10.292	10.292 (1.124)	95	641024			89.27- 149.27	120.33
10.292	10.292 (1.124)	176	504639			66.29- 126.29	94.73
153 Toluene					CAS #: 108-88-3		
7.820	7.813 (1.219)	91	18828	0.45143	0.9029	80.00- 120.00	100.00(a)
7.813	7.813 (1.218)	92	11021			27.69- 87.69	58.54
173 m,p-Xylene					CAS #: 108-38-3		
9.353	9.360 (1.022)	106	5979	0.26819	0.5364	80.00- 120.00	100.00(a)
9.360	9.360 (1.023)	91	11770			176.41- 236.41	196.84

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111111.d
Lab Smp Id: 2410702B-19A
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 4.9 Hg->9.9 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	250156	-5.66
126 1,4-Difluorobenze	973920	584352	1363488	916401	-5.91
165 Chlorobenzene-d5	894091	536455	1251727	860987	-3.70

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:31

US32TAR1

RECOVERY REPORT

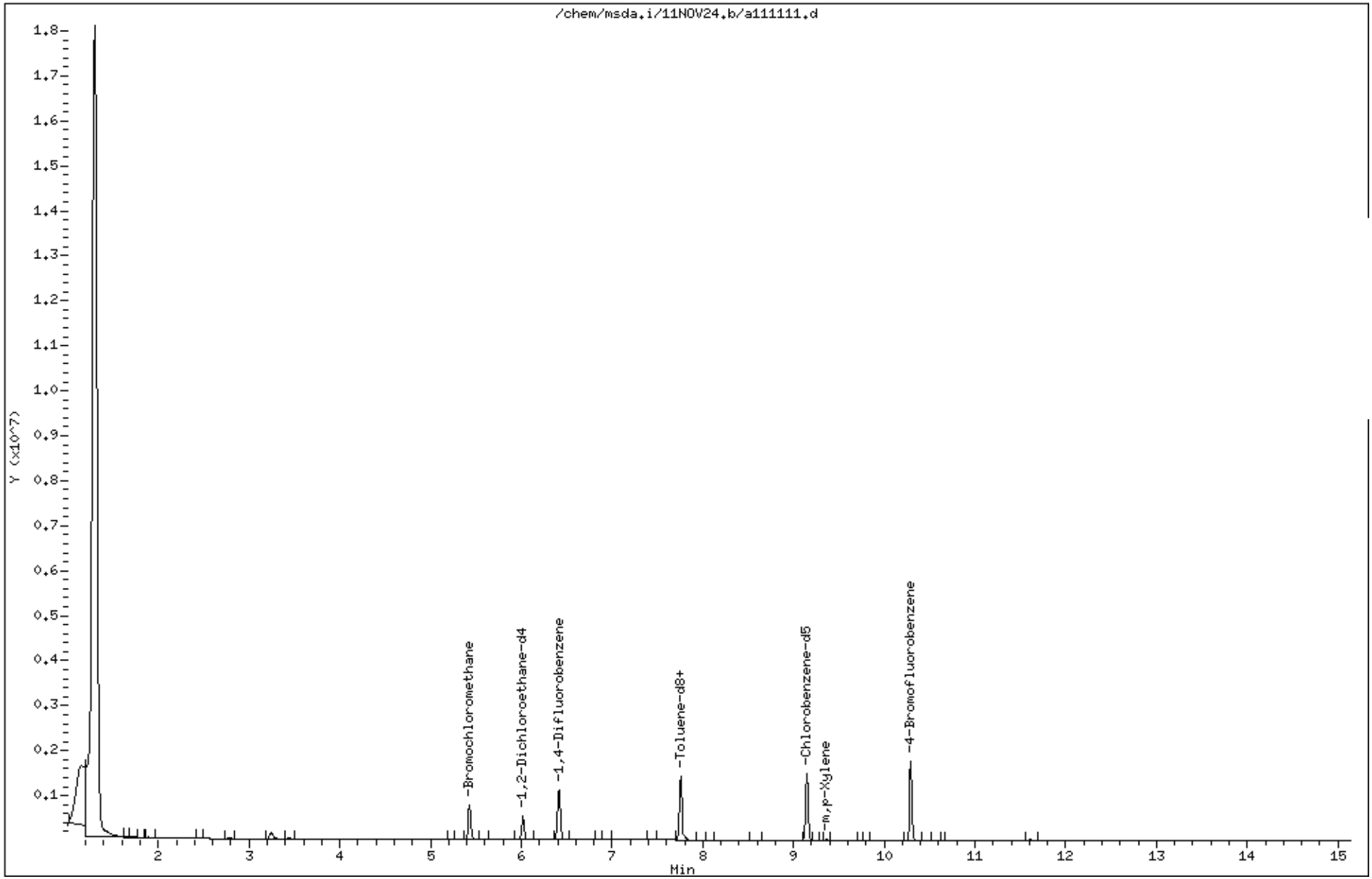
Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-19A
Level: LOW Operator: MS
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 4.9 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.907	91.63	70-130
$ 152 Toluene-d8	25.000	25.784	103.14	70-130
$ 191 4-Bromofluorobenz	25.000	23.202	92.81	70-130

Data File: /chem/msda.i/11NOV24.b/a111111.d
Date : 11-NOV-2024 15:37
Client ID:
Sample Info: 200mL 00882

Instrument: msda.i
Operator: MS
Column diameter: 0.25

Column phase: RTX-624



Data File: /chem/msda.i/11NOV24.b/a111111.d

Date : 11-NOV-2024 15:37

Client ID:

Instrument: msda.i

Sample Info: 200mL 00882

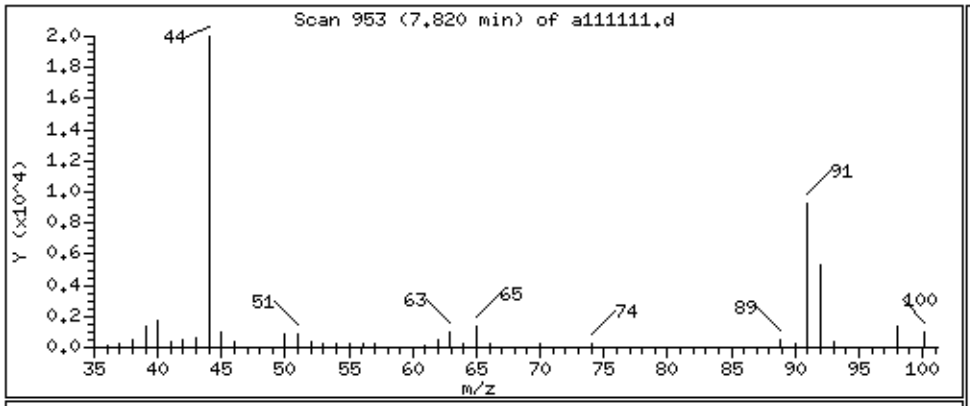
Operator: MS

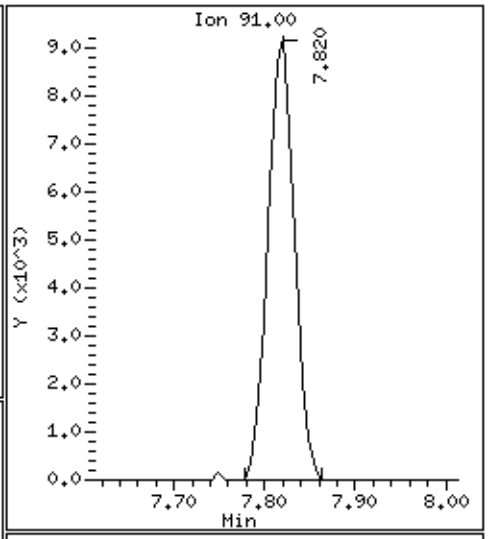
Column phase: RTX-624

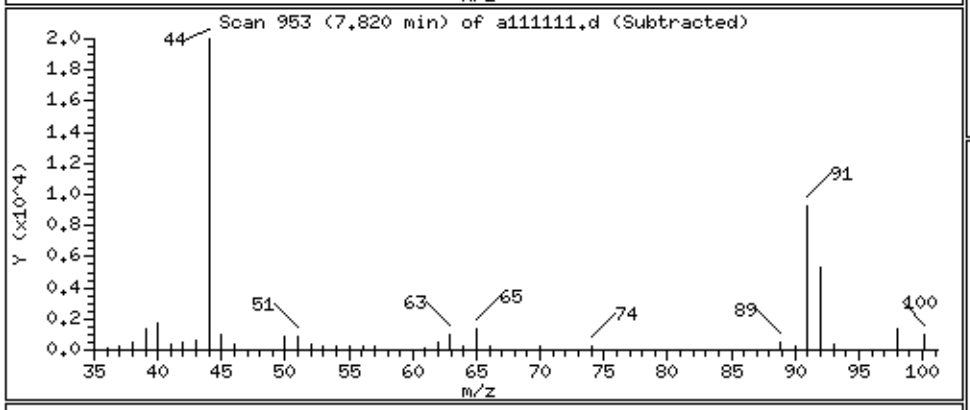
Column diameter: 0.25

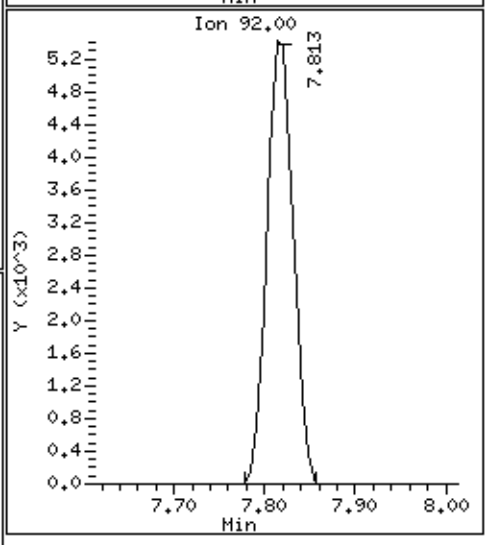
153 Toluene

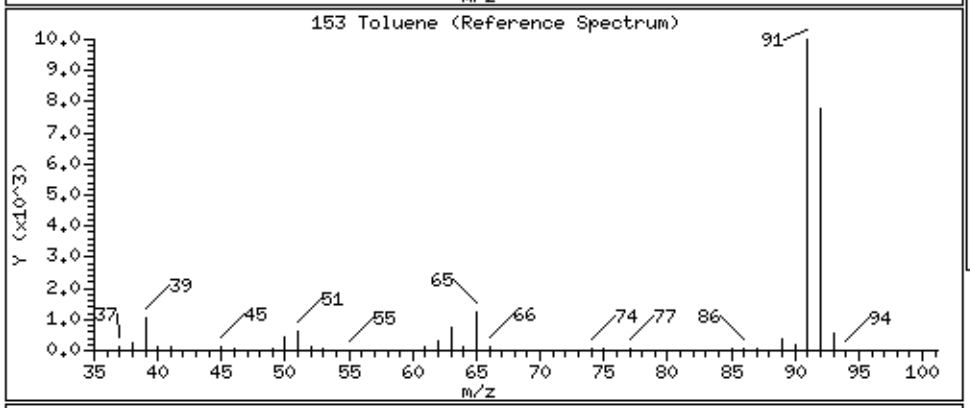
Concentration: 0.9029 PPBV

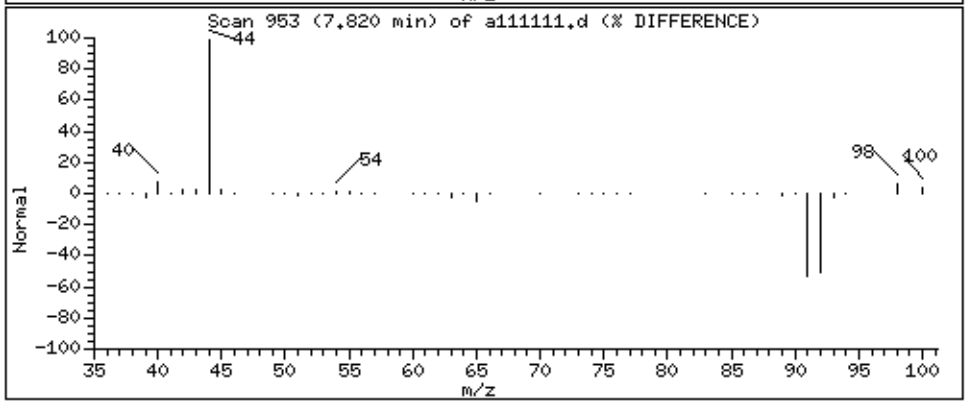












Data File: /chem/msda.i/11NOV24.b/a111111.d

Date : 11-NOV-2024 15:37

Client ID:

Instrument: msda.i

Sample Info: 200mL 00882

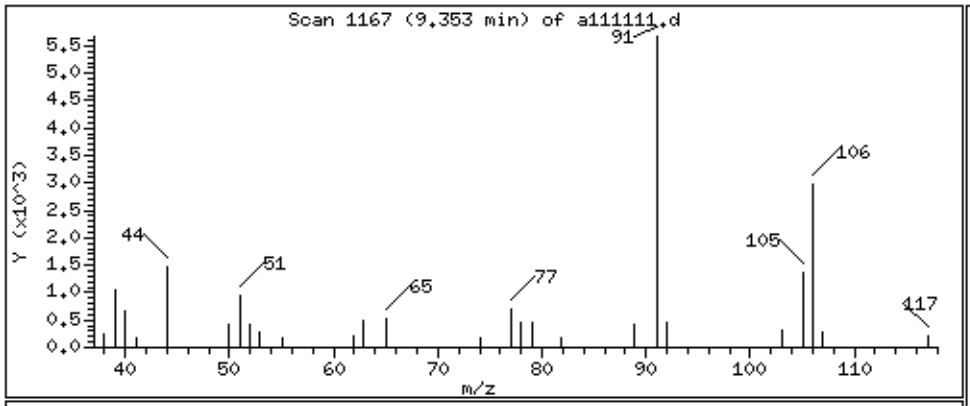
Operator: MS

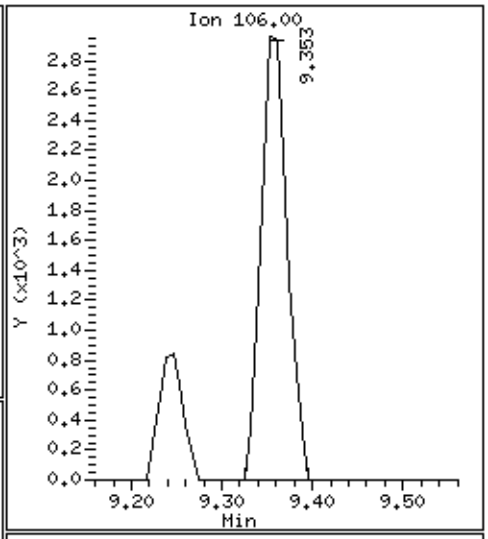
Column phase: RTX-624

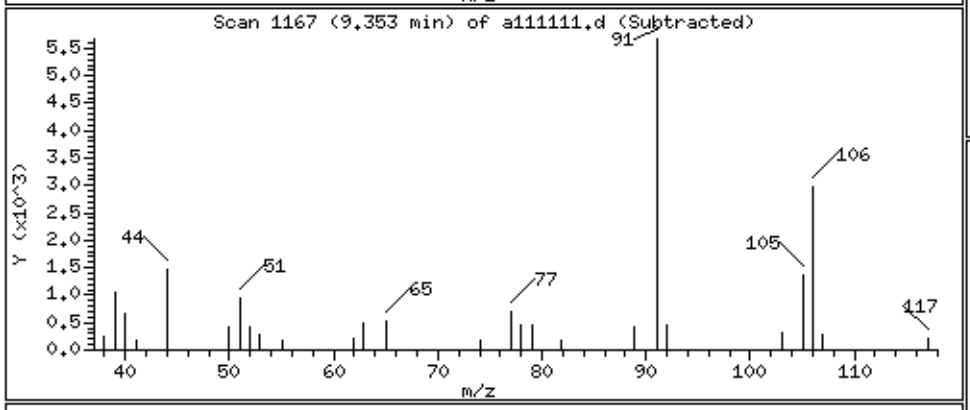
Column diameter: 0.25

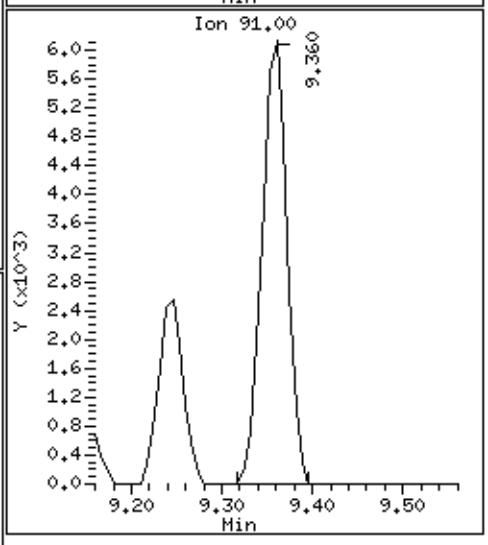
173 m,p-Xylene

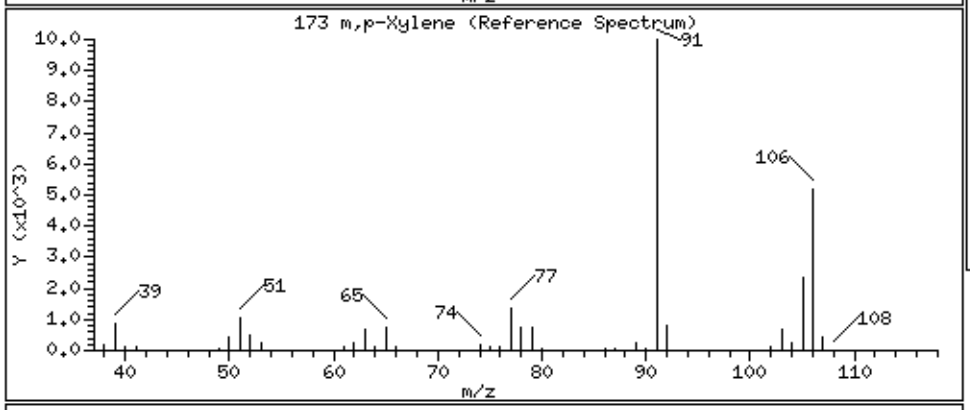
Concentration: 0.5364 PPBV

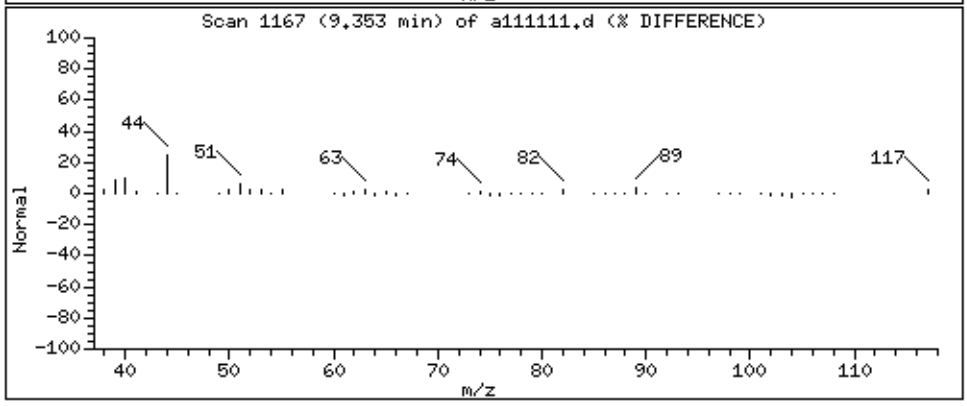












eurofins | Air Toxics

Client ID:	T1AMF-SV021_OCT24		
Lab ID:	2410702B-20A	**Date/Time Analyzed:**	11/11/24 04:14 PM
Date/Time Collected:	10/25/24 09:48 AM	**Dilution Factor:**	15.3
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111112

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	7.5	27	30	Not Detected U
1,4-Dichlorobenzene	106-46-7	16	41	46	Not Detected U
Benzene	71-43-2	4.2	22	24	Not Detected U
cis-1,2-Dichloroethene	156-59-2	9.2	27	30	Not Detected U
Ethyl Benzene	100-41-4	13	30	33	Not Detected U
m,p-Xylene	108-38-3	12	30	66	Not Detected U
o-Xylene	95-47-6	12	30	33	Not Detected U
Toluene	108-88-3	6.3	26	58	17 J
trans-1,2-Dichloroethene	156-60-5	12	27	30	Not Detected U
Trichloroethene	79-01-6	6.0	37	41	Not Detected U
Vinyl Chloride	75-01-4	9.1	18	20	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	91
4-Bromofluorobenzene	460-00-4	70-130	91
Toluene-d8	2037-26-5	70-130	103

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111112.d
Lab Smp Id: 2410702B-20A
Inj Date : 11-NOV-2024 16:14
Operator : MS Inst ID: msda.i
Smp Info : 200mL N1965
Misc Info : 26.7 Hg->10 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 5
Dil Factor: 15.30000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========		=======	=======	==========	=====
* 100 Bromochloromethane							CAS #: 74-97-5	
5.428	5.428 (1.000)	130	252146	25.0000			80.00- 120.00	100.00
5.428	5.428 (1.000)	128	195389				46.45- 106.45	77.49
5.428	5.428 (1.000)	49	528850				167.12- 227.12	209.74
* 126 1,4-Difluorobenzene							CAS #: 540-36-3	
6.417	6.409 (1.000)	114	900108	25.0000			80.00- 120.00	100.00
6.409	6.409 (1.000)	88	147831				0.00- 46.36	16.42
* 165 Chlorobenzene-d5							CAS #: 3114-55-4	
9.153	9.146 (1.000)	117	857506	25.0000			80.00- 120.00	100.00
9.146	9.146 (1.000)	82	482161				27.12- 87.12	56.23
$ 119 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
6.015	6.015 (1.108)	65	399374	22.7673	22.767		80.00- 120.00	100.00
6.015	6.015 (1.108)	67	195320				23.36- 83.36	48.91
$ 152 Toluene-d8							CAS #: 2037-26-5	
7.756	7.756 (1.209)	98	965031	25.7141	25.714		80.00- 120.00	100.00
7.756	7.756 (1.209)	70	113559				0.00- 41.92	11.77

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	644049			39.07- 99.07	66.74
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.124)	174	522200	22.8364	22.836	80.00- 120.00	100.00
10.292	10.292 (1.124)	95	644052			89.27- 149.27	123.33
10.292	10.292 (1.124)	176	508715			66.29- 126.29	97.42
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.218)	91	11891	0.29027	4.441	80.00- 120.00	100.00(a)
7.820	7.813 (1.219)	92	6465			27.69- 87.69	54.37

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111112.d
Lab Smp Id: 2410702B-20A
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 26.7 Hg->10 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	252146	-4.91
126 1,4-Difluorobenze	973920	584352	1363488	900108	-7.58
165 Chlorobenzene-d5	894091	536455	1251727	857506	-4.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:32

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-20A
Level: LOW Operator: MS
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 26.7 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.767	91.07	70-130
$ 152 Toluene-d8	25.000	25.714	102.86	70-130
$ 191 4-Bromofluorobenz	25.000	22.836	91.35	70-130

Data File: /chem/msda.i/11NOV24.b/a111112.d

Page 1

Date : 11-NOV-2024 16:14

Client ID:

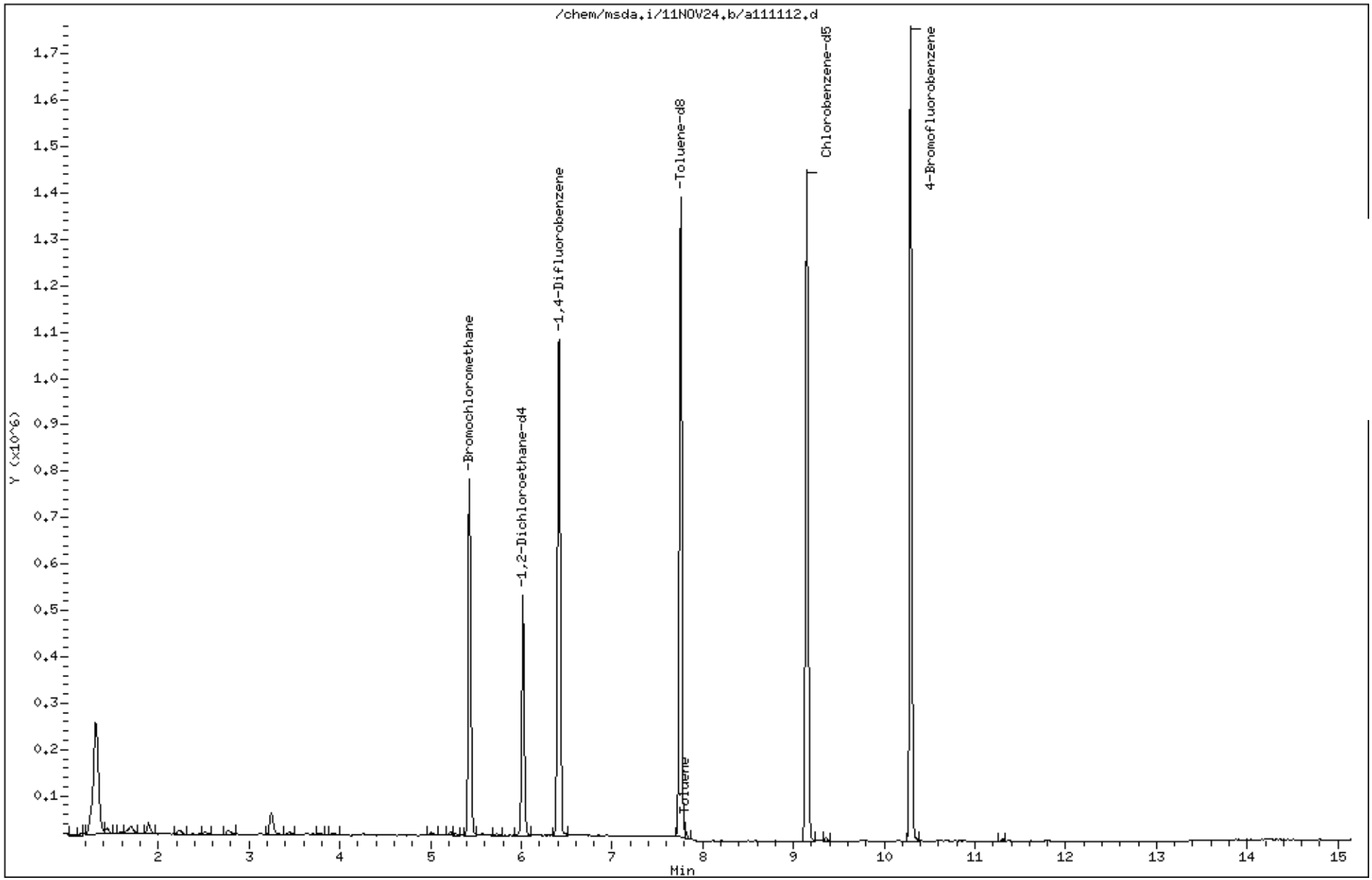
Instrument: msda.i

Sample Info: 200mL N1965

Operator: MS

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msda.i/11NOV24.b/a111112.d

Date : 11-NOV-2024 16:14

Client ID:

Instrument: msda.i

Sample Info: 200mL N1965

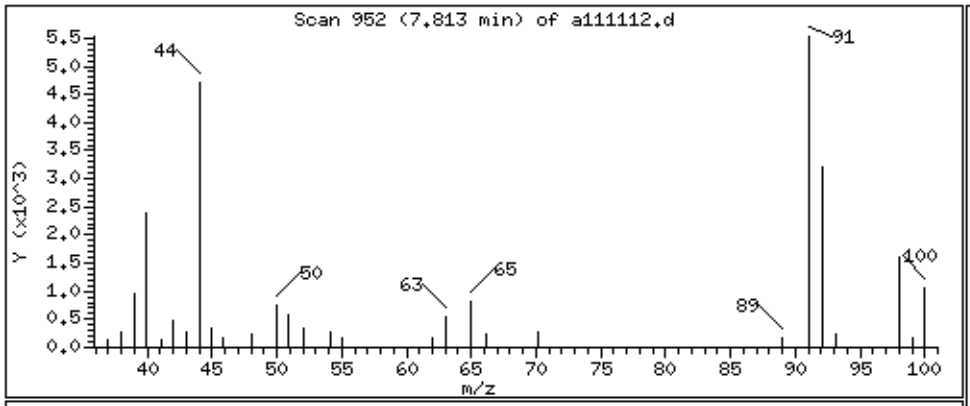
Operator: MS

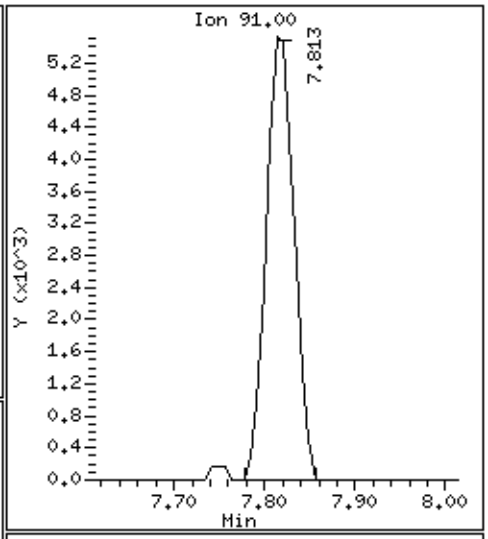
Column phase: RTX-624

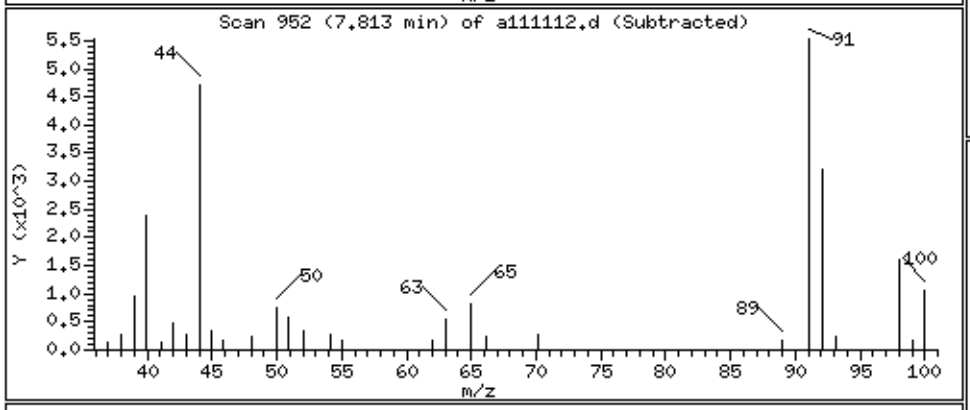
Column diameter: 0.25

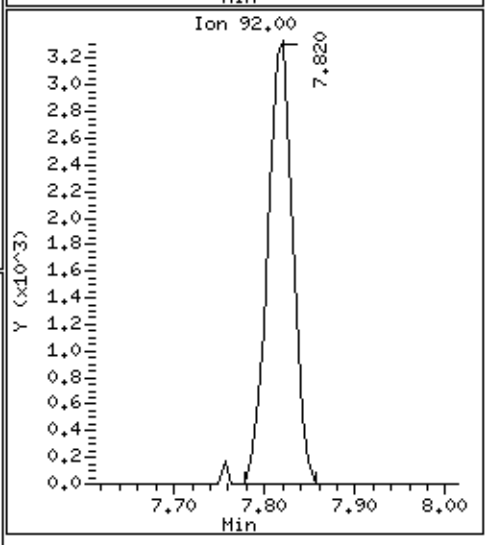
153 Toluene

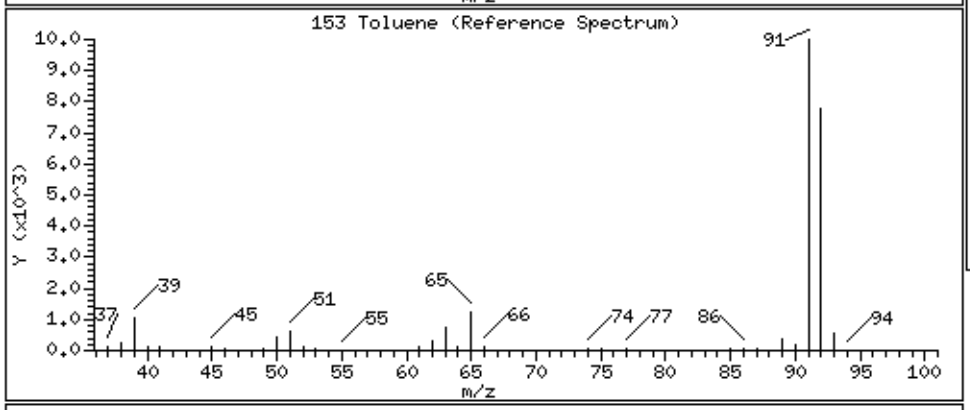
Concentration: 4.441 PPBV

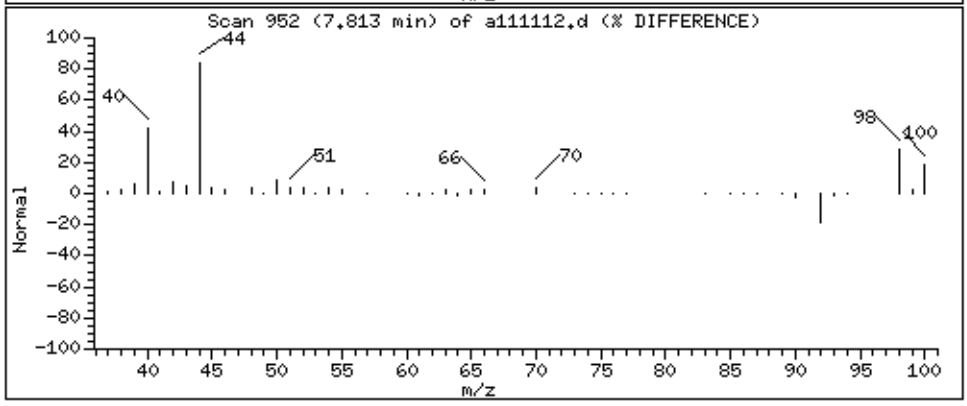












eurofins | Air Toxics

Client ID:	T1AMF-SV002_OCT24		
Lab ID:	2410702B-21A	**Date/Time Analyzed:**	11/11/24 04:51 PM
Date/Time Collected:	10/25/24 10:36 AM	**Dilution Factor:**	2.00
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111113

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.98	3.6	4.0	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.1	5.4	6.0	Not Detected U
Benzene	71-43-2	0.56	2.9	3.2	0.61 J
cis-1,2-Dichloroethene	156-59-2	1.2	3.6	4.0	Not Detected U
Ethyl Benzene	100-41-4	1.6	3.9	4.3	Not Detected U
m,p-Xylene	108-38-3	1.6	3.9	8.7	4.1 J
o-Xylene	95-47-6	1.5	3.9	4.3	1.7 J
Toluene	108-88-3	0.83	3.4	7.5	3.9 J
trans-1,2-Dichloroethene	156-60-5	1.5	3.6	4.0	Not Detected U
Trichloroethene	79-01-6	0.79	4.8	5.4	1.2 J
Vinyl Chloride	75-01-4	1.2	2.3	2.6	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	91
4-Bromofluorobenzene	460-00-4	70-130	93
Toluene-d8	2037-26-5	70-130	102

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111113.d
Lab Smp Id: 2410702B-21A
Inj Date : 11-NOV-2024 16:51
Operator : MS Inst ID: msda.i
Smp Info : 200mL N7879
Misc Info : 4.9 Hg->9.9 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 6
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.435	5.428 (1.000)	130	248167	25.0000		80.00- 120.00	100.00
5.435	5.428 (1.000)	128	194336			46.45- 106.45	78.31
5.428	5.428 (1.000)	49	512664			167.12- 227.12	206.58
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	894826	25.0000		80.00- 120.00	100.00
6.416	6.409 (1.000)	88	141325			0.00- 46.36	15.79
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.146 (1.000)	117	851661	25.0000		80.00- 120.00	100.00
9.145	9.146 (1.000)	82	485663			27.12- 87.12	57.03
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.107)	65	391815	22.6945	22.694	80.00- 120.00	100.00
6.015	6.015 (1.107)	67	195824			23.36- 83.36	49.98
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	949786	25.4572	25.457	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	112736			0.00- 41.92	11.87

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	633219			39.07- 99.07	66.67
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.124)	174	526285	23.1730	23.173	80.00- 120.00	100.00
10.292	10.292 (1.124)	95	647171			89.27- 149.27	122.97
10.292	10.292 (1.124)	176	504899			66.29- 126.29	95.94
118 Benzene					CAS #: 71-43-2		
5.994	5.987 (0.934)	78	2981	0.09615	0.1923	80.00- 120.00	100.00(a)
5.994	5.987 (0.934)	77	895			0.00- 53.99	30.04
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.031)	95	1804	0.11413	0.2283	80.00- 120.00	100.00(aQ)
6.624	6.617 (1.032)	130	2309			67.98- 127.98	128.01
6.624	6.617 (1.032)	97	1526			34.45- 94.45	84.58
153 Toluene					CAS #: 108-88-3		
7.820	7.813 (1.219)	91	21118	0.51855	1.037	80.00- 120.00	100.00(a)
7.820	7.813 (1.219)	92	12483			27.69- 87.69	59.11
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.360 (1.023)	106	10494	0.47587	0.9517	80.00- 120.00	100.00(a)
9.360	9.360 (1.023)	91	22969			176.41- 236.41	218.87
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	4033	0.19547	0.3909	80.00- 120.00	100.00(a)
9.747	9.747 (1.065)	91	8177			186.60- 246.60	202.76

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111113.d
Lab Smp Id: 2410702B-21A
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 4.9 Hg->9.9 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	248167	-6.41
126 1,4-Difluorobenze	973920	584352	1363488	894826	-8.12
165 Chlorobenzene-d5	894091	536455	1251727	851661	-4.75

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.44	0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:34

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-21A
Level: LOW Operator: MS
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 4.9 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.694	90.78	70-130
$ 152 Toluene-d8	25.000	25.457	101.83	70-130
$ 191 4-Bromofluorobenz	25.000	23.173	92.69	70-130

Data File: /chem/msda.i/11NOV24.b/a111113.d

Date : 11-NOV-2024 16:51

Client ID:

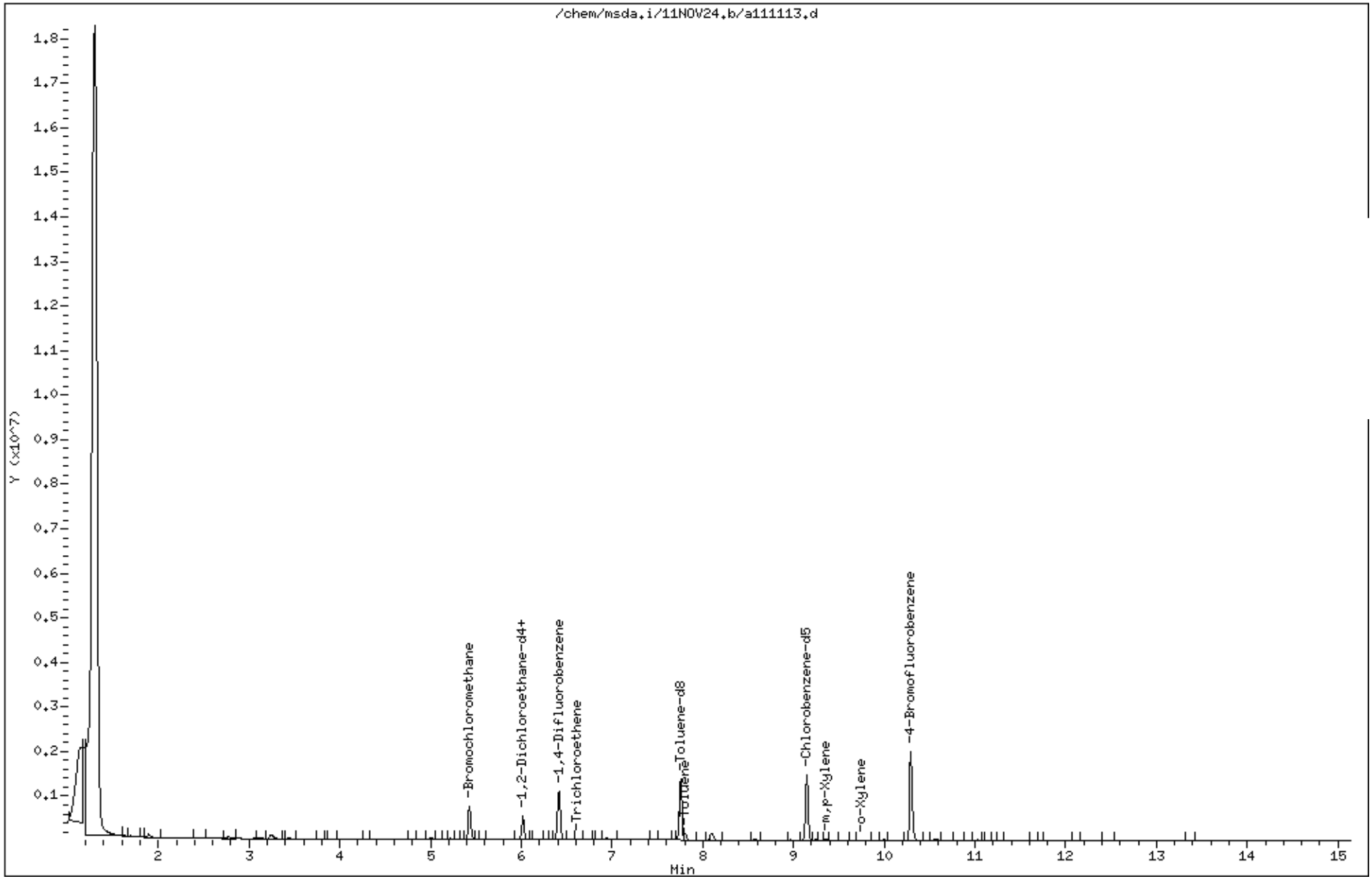
Sample Info: 200mL N7879

Instrument: msda.i

Operator: MS

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msda.i/11NOV24.b/a111113.d

Date : 11-NOV-2024 16:51

Client ID:

Instrument: msda.i

Sample Info: 200mL N7879

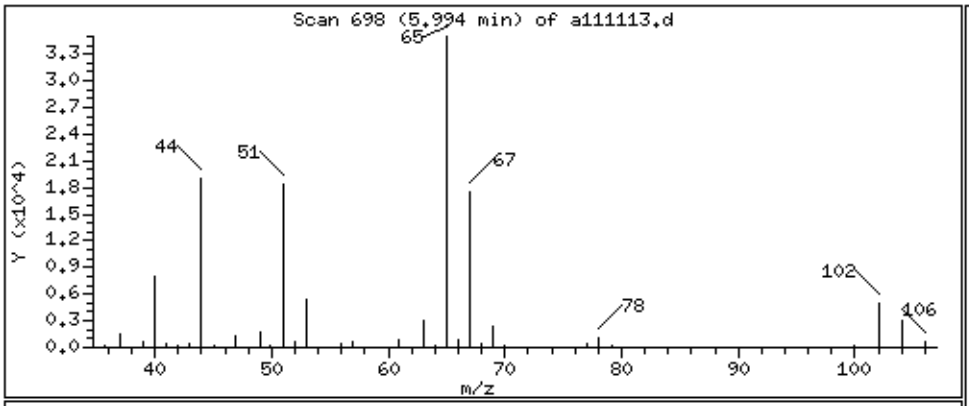
Operator: MS

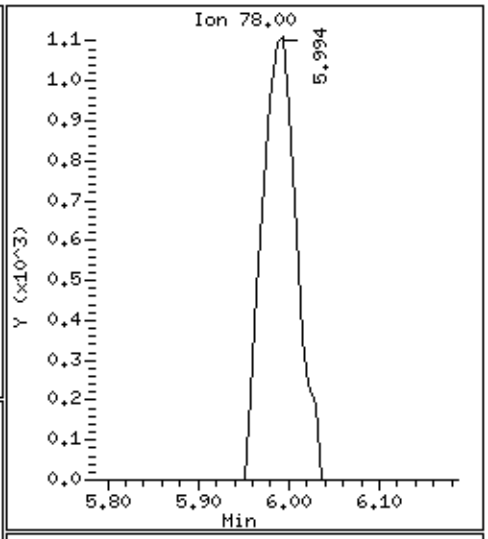
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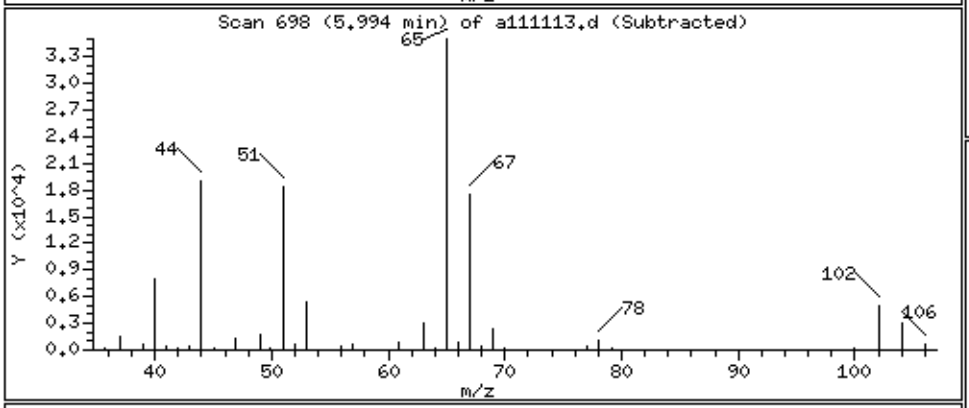
Column diameter: 0.25

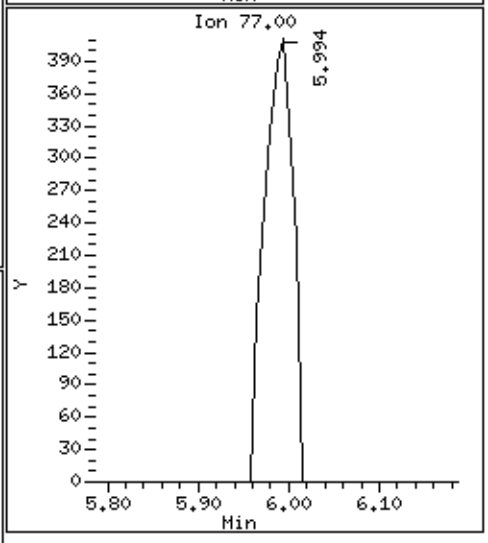
118 Benzene

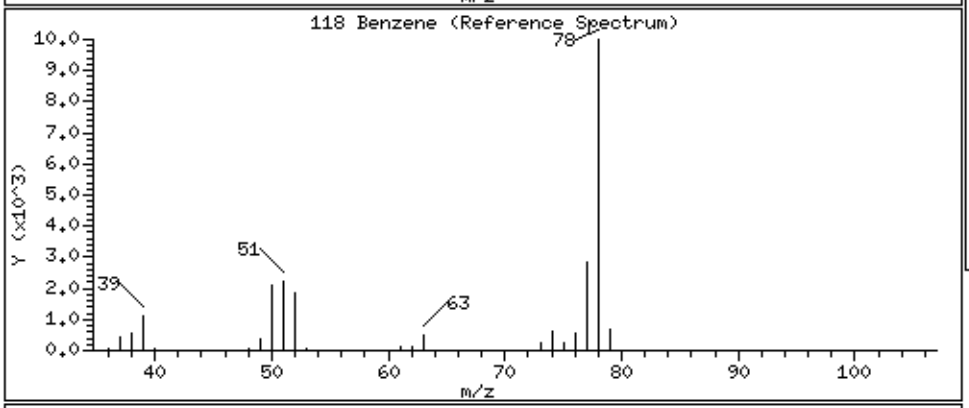
Concentration: 0.1923 PPBV

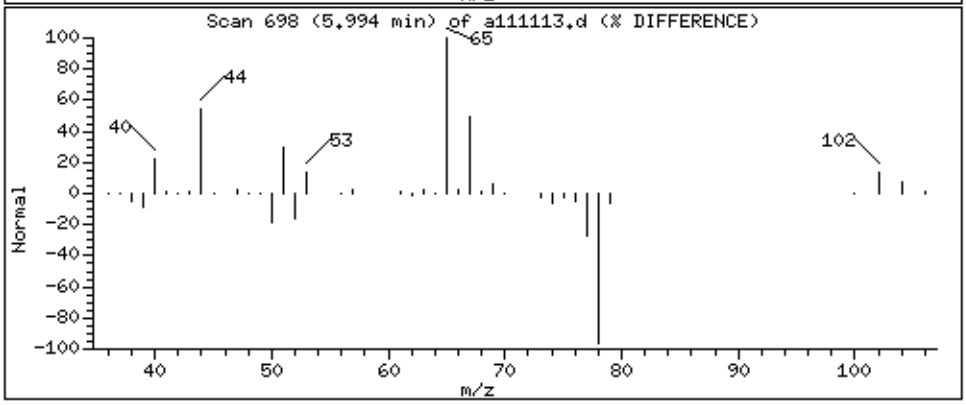












Data File: /chem/msda.i/11NOV24.b/a111113.d

Date : 11-NOV-2024 16:51

Client ID:

Instrument: msda.i

Sample Info: 200mL N7879

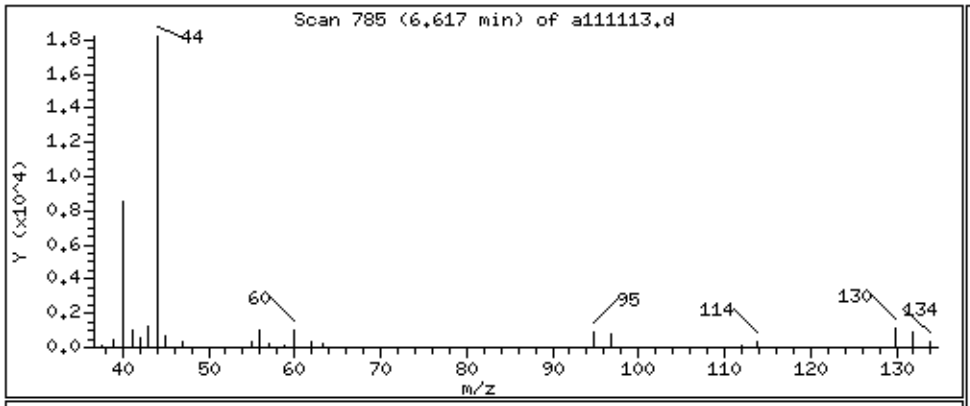
Operator: MS

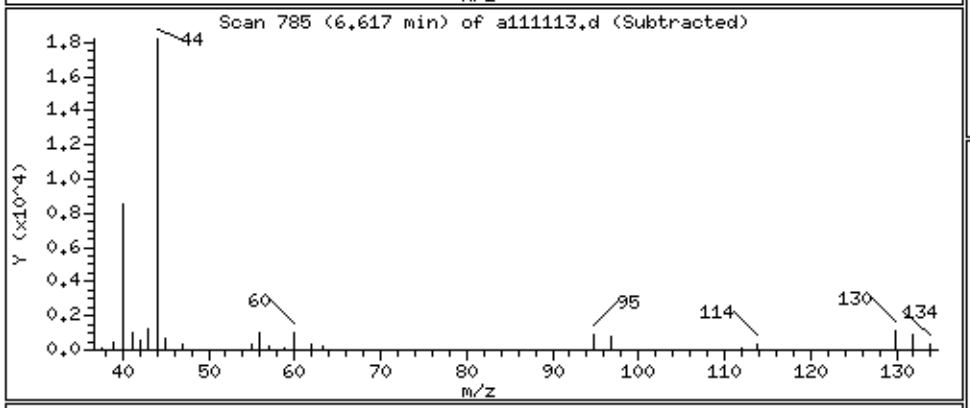
Column phase: RTX-624

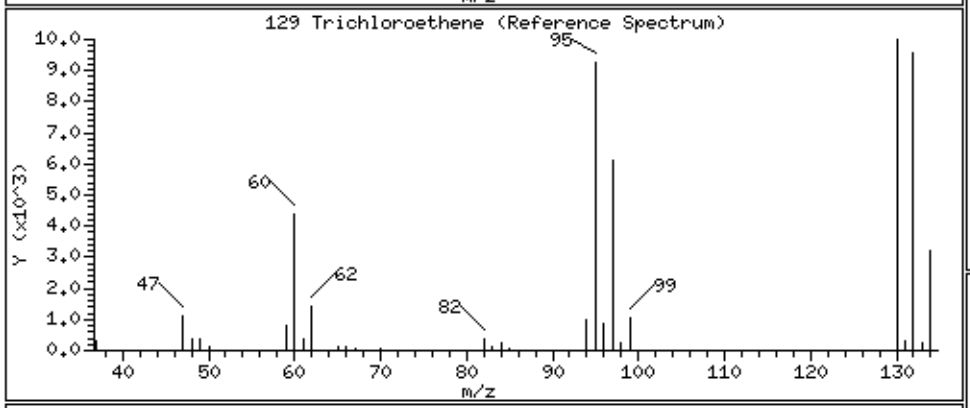
Column diameter: 0.25

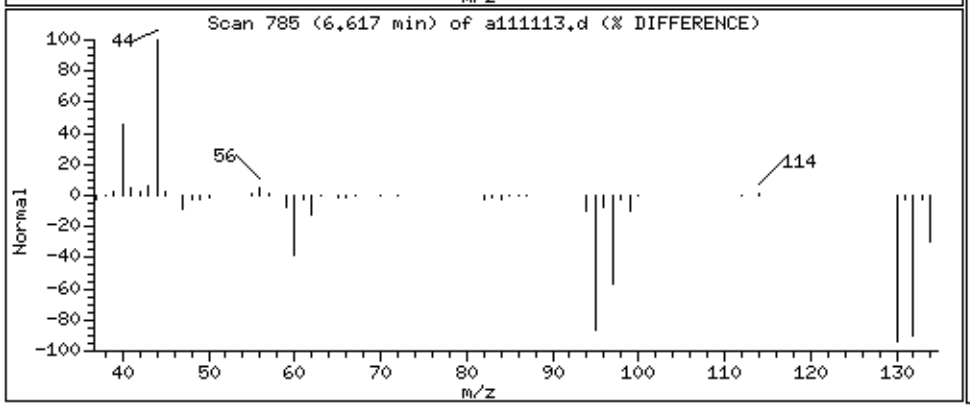
129 Trichloroethene

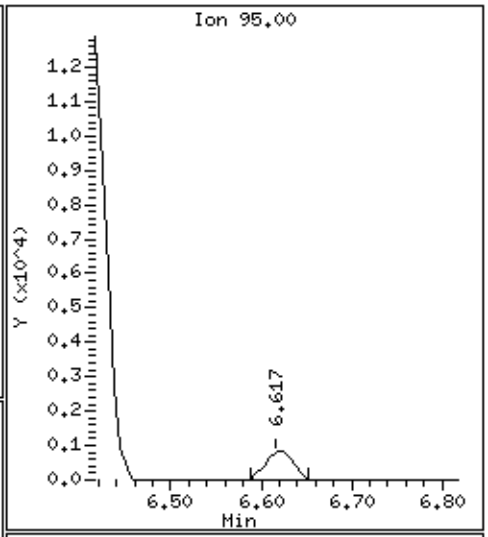
Concentration: 0.2283 PPBV

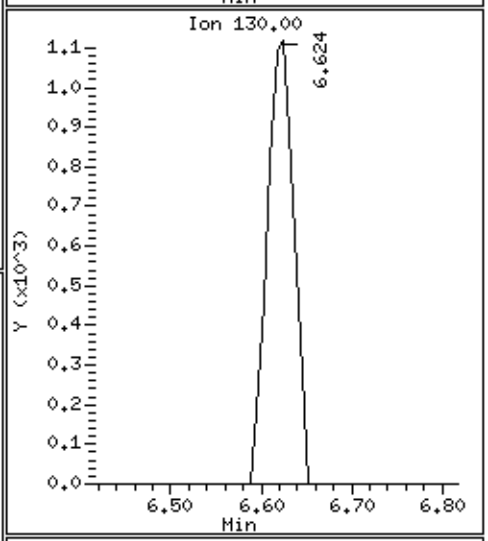


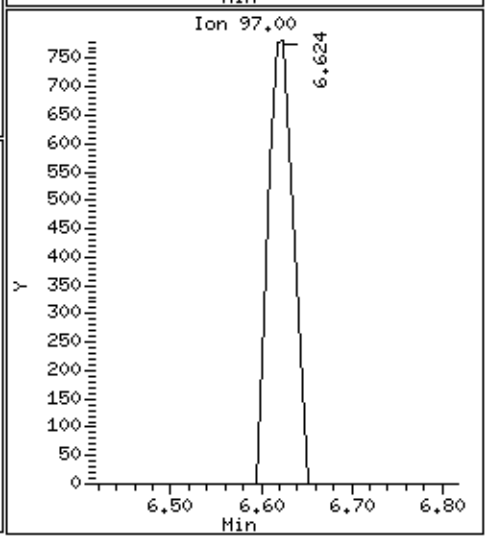












Data File: /chem/msda.i/11NOV24.b/a111113.d

Date : 11-NOV-2024 16:51

Client ID:

Instrument: msda.i

Sample Info: 200mL N7879

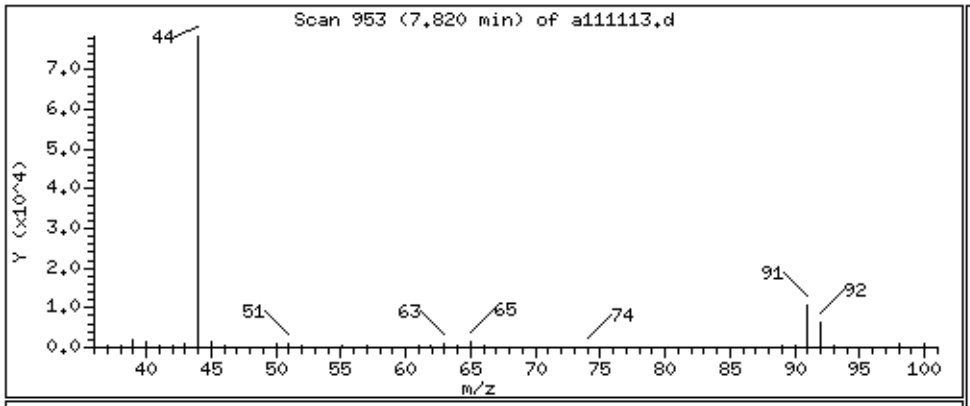
Operator: MS

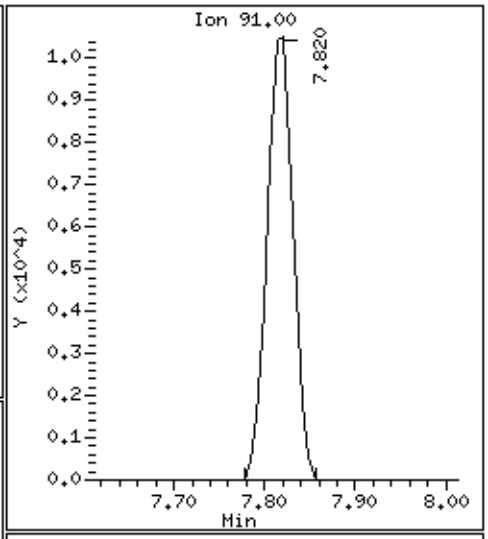
Column phase: RTX-624

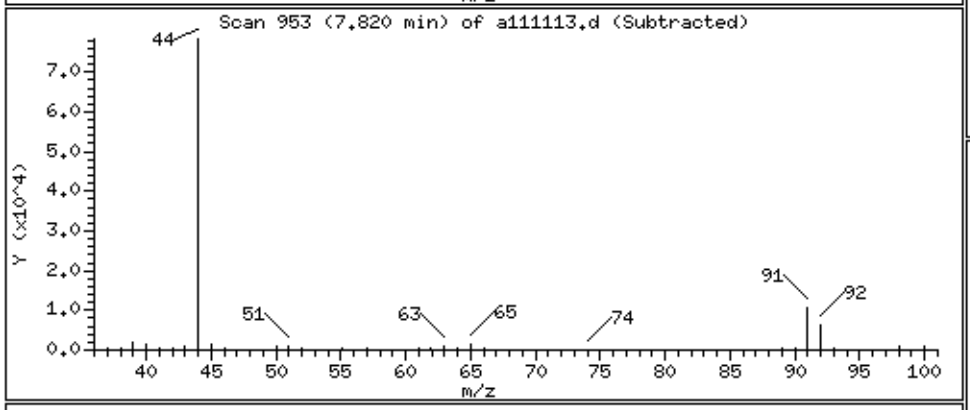
Column diameter: 0.25

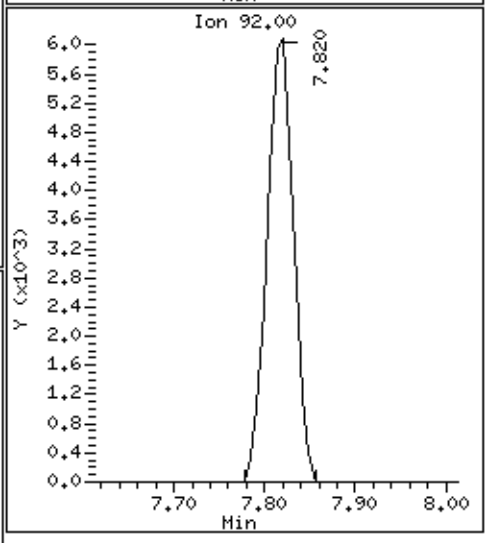
153 Toluene

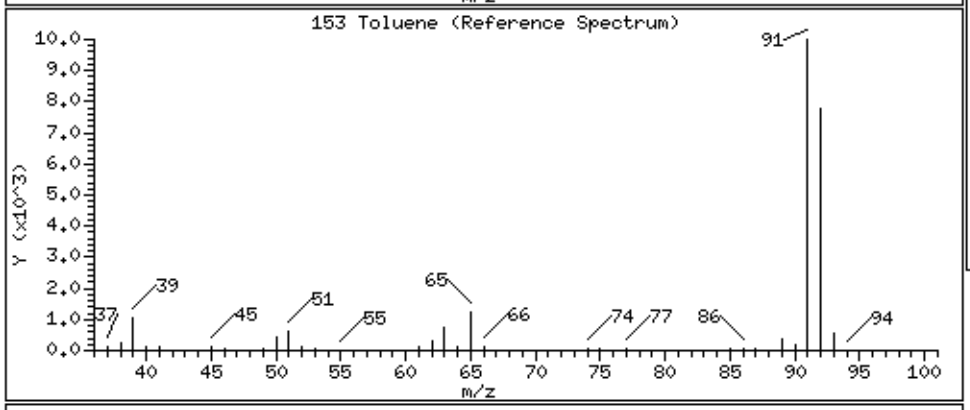
Concentration: 1.037 PPBV

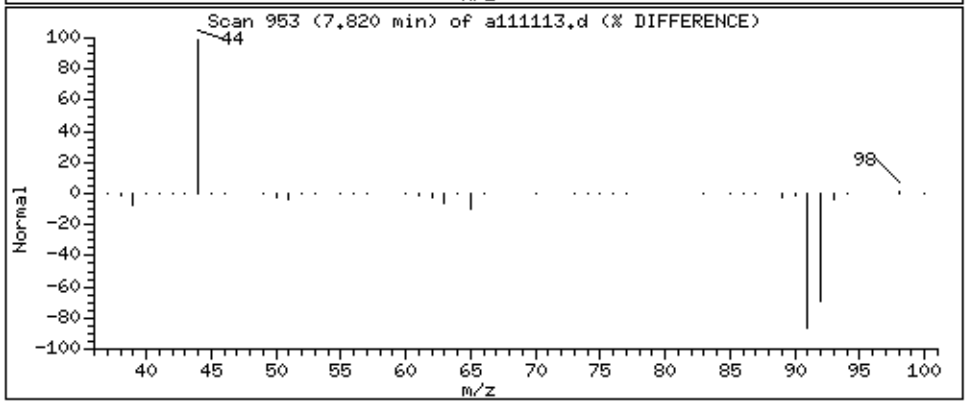












Data File: /chem/msda.i/11NOV24.b/a111113.d

Date : 11-NOV-2024 16:51

Client ID:

Instrument: msda.i

Sample Info: 200mL N7879

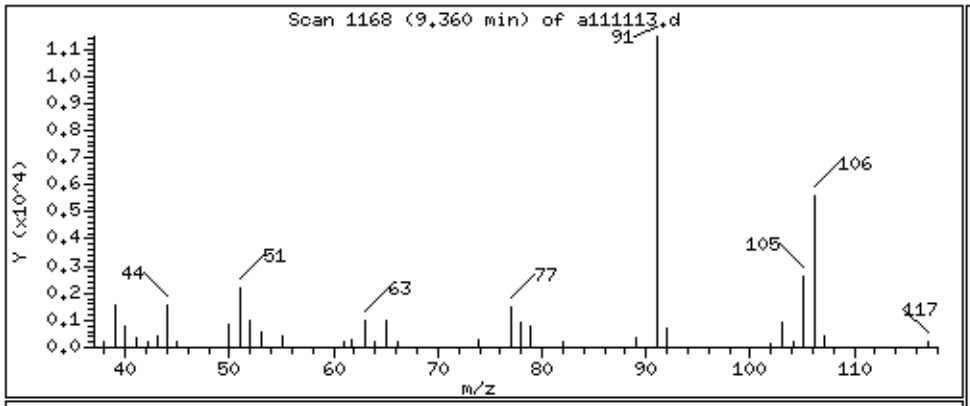
Operator: MS

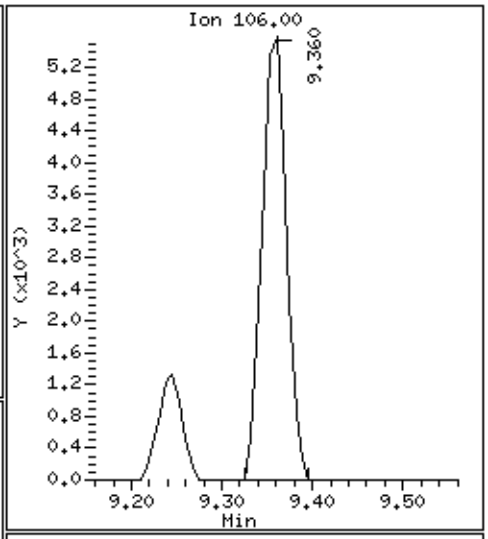
Column phase: RTX-624

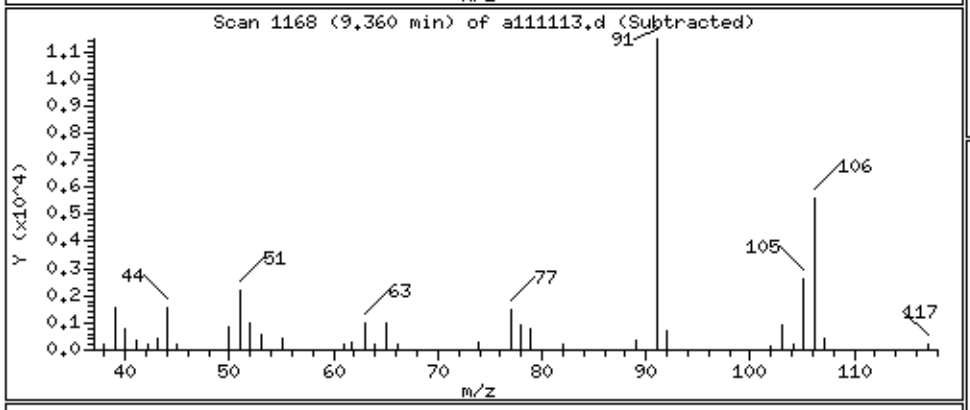
Column diameter: 0.25

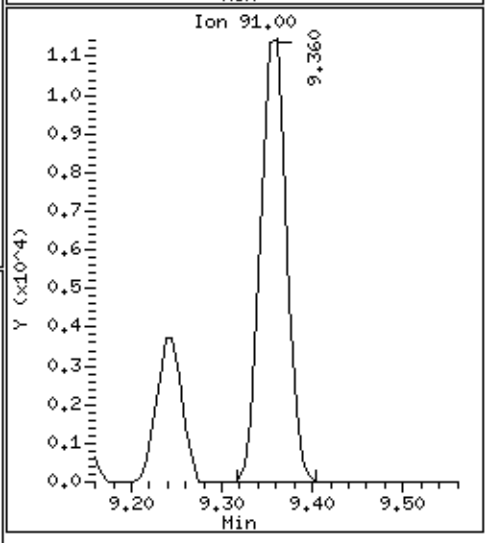
173 m,p-Xylene

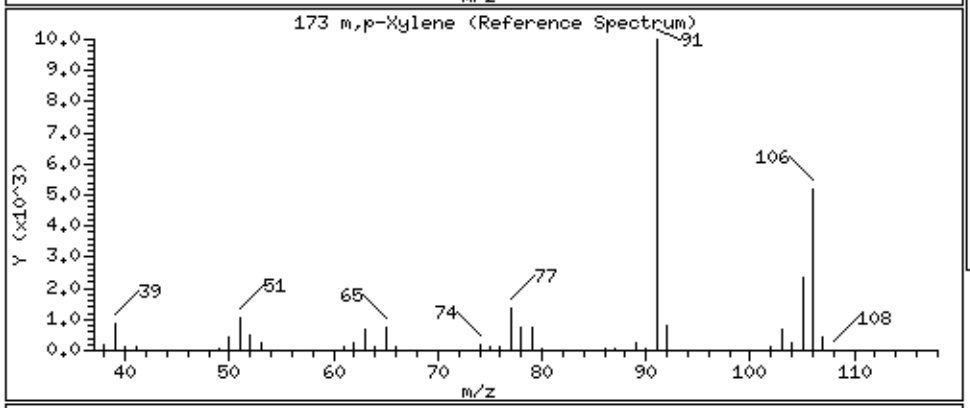
Concentration: 0.9517 PPBV

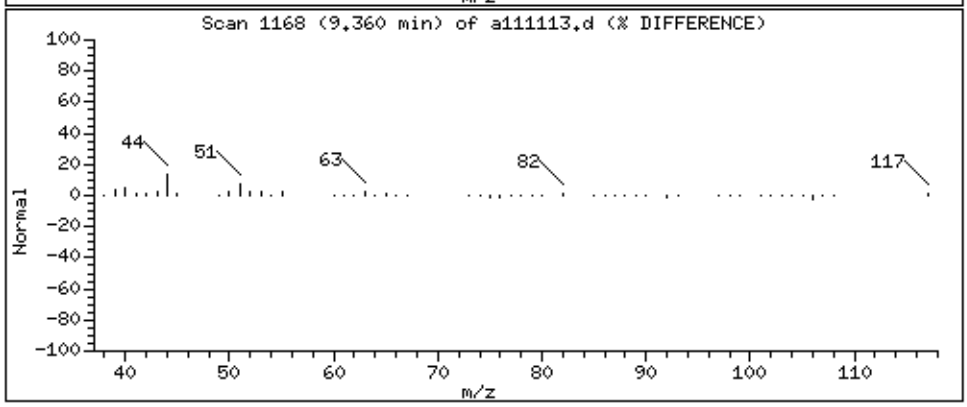












Data File: /chem/msda.i/11NOV24.b/a111113.d

Date : 11-NOV-2024 16:51

Client ID:

Instrument: msda.i

Sample Info: 200mL N7879

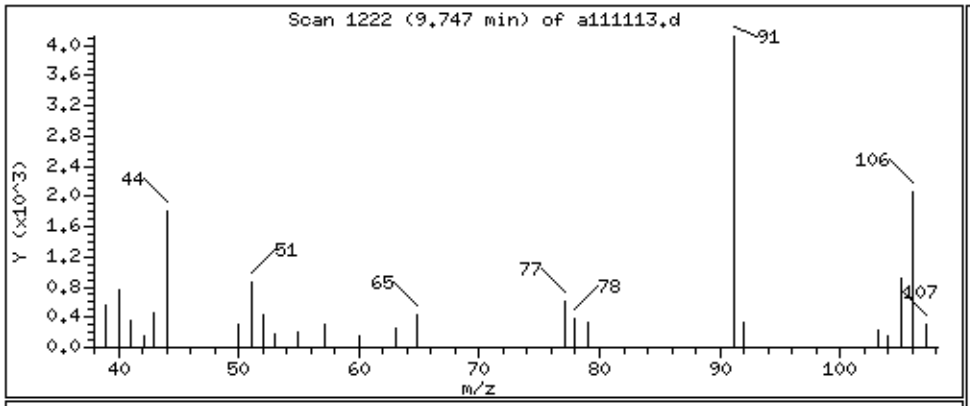
Operator: MS

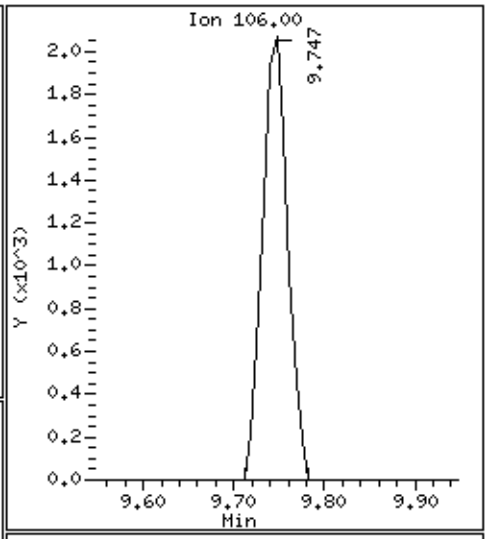
Column phase: RTX-624

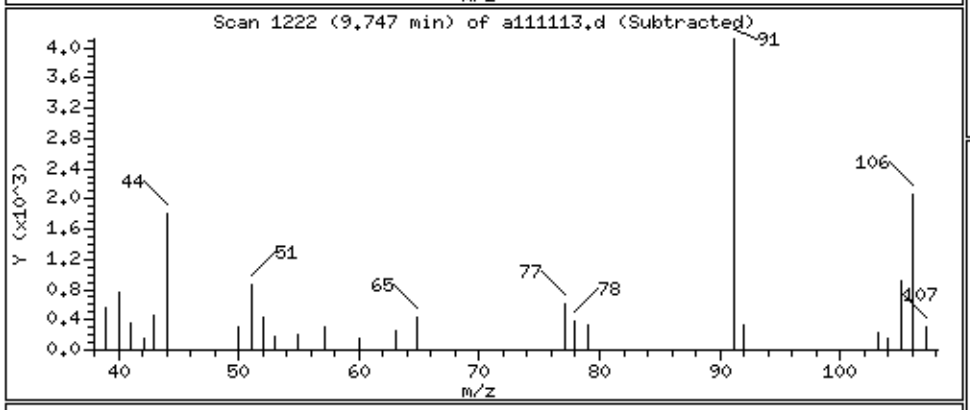
Column diameter: 0.25

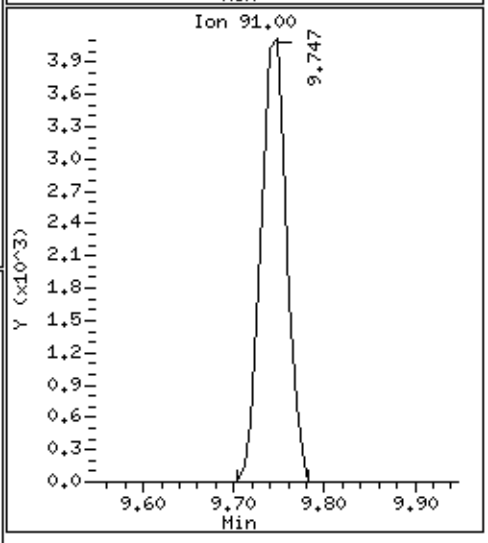
176 o-Xylene

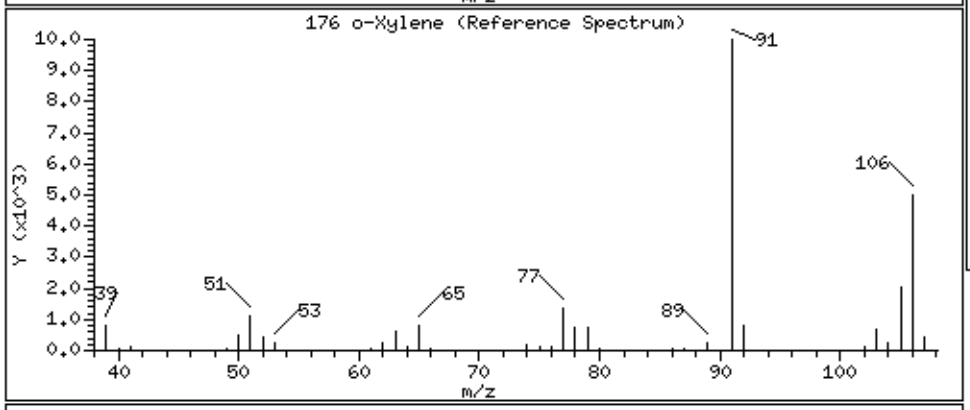
Concentration: 0.3909 PPBV

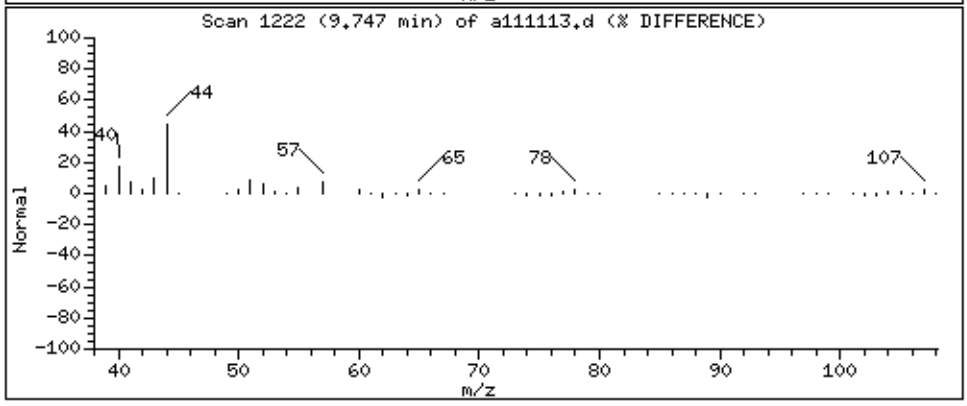












eurofins | Air Toxics

Client ID:	T1AMF-SV034_OCT24		
Lab ID:	2410702B-22A	**Date/Time Analyzed:**	11/11/24 08:27 PM
Date/Time Collected:	10/25/24 11:45 AM	**Dilution Factor:**	2.06
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111119

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.0	3.7	4.1	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.1	5.6	6.2	Not Detected U
Benzene	71-43-2	0.57	3.0	3.3	1.6 J
cis-1,2-Dichloroethene	156-59-2	1.2	3.7	4.1	Not Detected U
Ethyl Benzene	100-41-4	1.7	4.0	4.5	1.7 J
m,p-Xylene	108-38-3	1.6	4.0	8.9	5.6 J
o-Xylene	95-47-6	1.6	4.0	4.5	2.2 J
Toluene	108-88-3	0.85	3.5	7.8	9.1
trans-1,2-Dichloroethene	156-60-5	1.6	3.7	4.1	Not Detected U
Trichloroethene	79-01-6	0.81	5.0	5.5	58
Vinyl Chloride	75-01-4	1.2	2.4	2.6	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	92
4-Bromofluorobenzene	460-00-4	70-130	93
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111119.d
Lab Smp Id: 2410702B-22A
Inj Date : 11-NOV-2024 20:27
Operator : MS Inst ID: msda.i
Smp Info : 200mL N7870
Misc Info : 5.5 Hg->10.1 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 7
Dil Factor: 2.06000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.435	5.428 (1.000)	130	234381	25.0000		80.00- 120.00	100.00
5.435	5.428 (1.000)	128	184967			46.45- 106.45	78.92
5.428	5.428 (1.000)	49	501552			167.12- 227.12	213.99
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	859663	25.0000		80.00- 120.00	100.00
6.416	6.409 (1.000)	88	140694			0.00- 46.36	16.37
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.146 (1.000)	117	820238	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	461862			27.12- 87.12	56.31
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.022	6.015 (1.108)	65	376891	23.1141	23.114	80.00- 120.00	100.00
6.015	6.015 (1.107)	67	189773			23.36- 83.36	50.35
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	909431	25.3726	25.373	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	109123			0.00- 41.92	12.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	620989			39.07- 99.07	68.28
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.124)	174	506549	23.1585	23.158	80.00- 120.00	100.00
10.292	10.292 (1.124)	95	611688			89.27- 149.27	120.76
10.292	10.292 (1.124)	176	488617			66.29- 126.29	96.46
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.933)	78	7353	0.24688	0.5086	80.00- 120.00	100.00(a)
5.994	5.987 (0.934)	77	2195			0.00- 53.99	29.86
129 Trichloroethene					CAS #: 79-01-6		
6.624	6.617 (1.032)	95	79024	5.20403	10.720	80.00- 120.00	100.00
6.624	6.617 (1.032)	130	75379			67.98- 127.98	95.39
6.624	6.617 (1.032)	97	49699			34.45- 94.45	62.89
153 Toluene					CAS #: 108-88-3		
7.820	7.813 (1.219)	91	46049	1.17698	2.424	80.00- 120.00	100.00
7.820	7.813 (1.219)	92	26776			27.69- 87.69	58.15
167 Ethyl Benzene					CAS #: 100-41-4		
9.239	9.246 (1.009)	106	3275	0.19197	0.3955	80.00- 120.00	100.00(aQ)
9.246	9.246 (1.010)	91	11431			281.27- 341.27	348.98
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.360 (1.023)	106	13302	0.62631	1.290	80.00- 120.00	100.00(a)
9.360	9.360 (1.023)	91	30091			176.41- 236.41	226.22
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	5015	0.25238	0.5199	80.00- 120.00	100.00(a)
9.747	9.747 (1.065)	91	11020			186.60- 246.60	219.74

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111119.d
Lab Smp Id: 2410702B-22A
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 5.5 Hg->10.1 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	234381	-11.61
126 1,4-Difluorobenze	973920	584352	1363488	859663	-11.73
165 Chlorobenzene-d5	894091	536455	1251727	820238	-8.26

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.44	0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:35

US32TAR1

RECOVERY REPORT

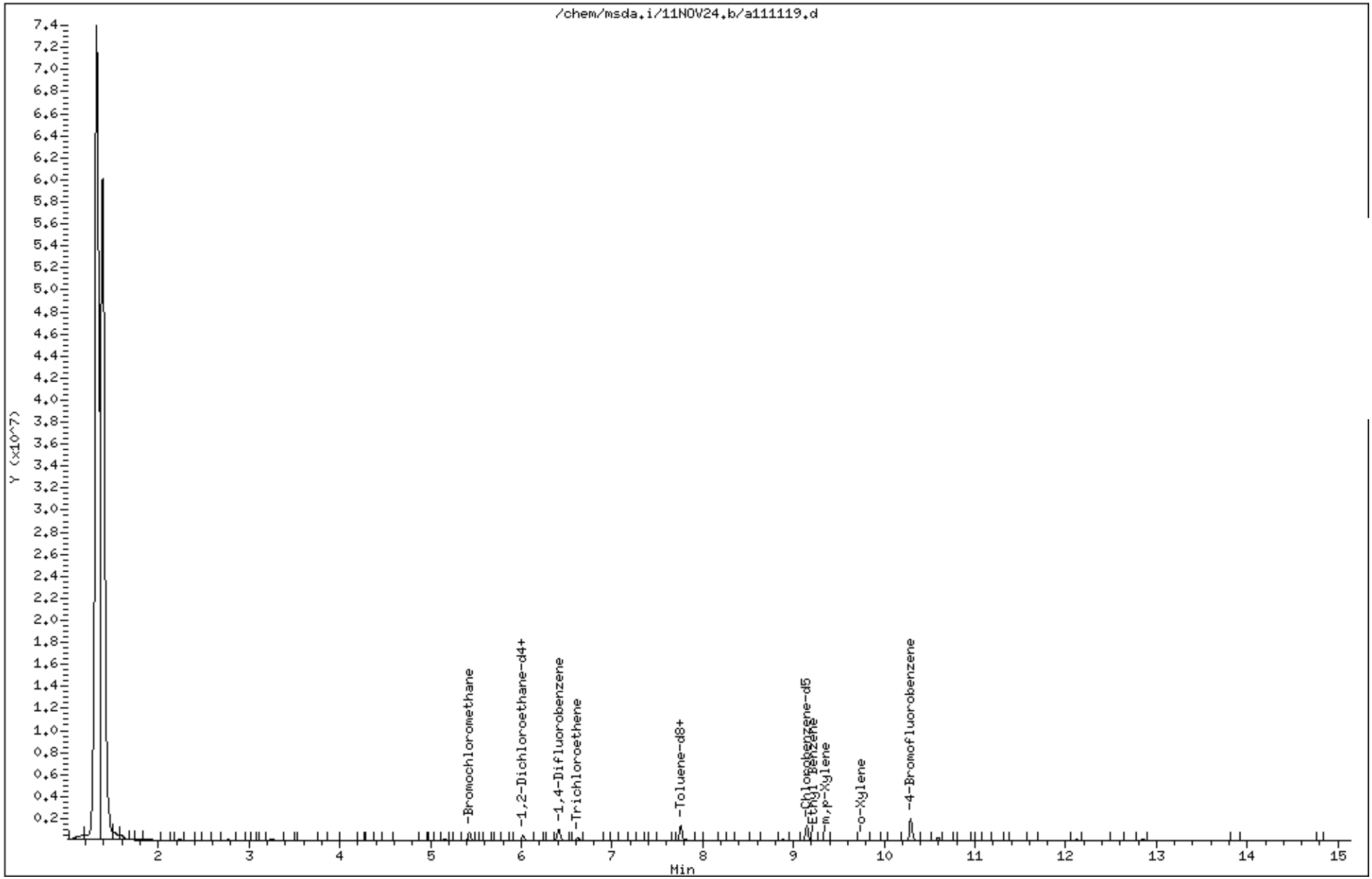
Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-22A
Level: LOW Operator: MS
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 5.5 Hg->10.1 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	23.114	92.46	70-130
$ 152 Toluene-d8	25.000	25.373	101.49	70-130
$ 191 4-Bromofluorobenz	25.000	23.158	92.63	70-130

Data File: /chem/msda.i/11NOV24.b/a111119.d
Date : 11-NOV-2024 20:27
Client ID:
Sample Info: 200mL N7870

Instrument: msda.i
Operator: MS
Column diameter: 0.25

Column phase: RTX-624



Data File: /chem/msda.i/11NOV24.b/a111119.d

Date : 11-NOV-2024 20:27

Client ID:

Instrument: msda.i

Sample Info: 200mL N7870

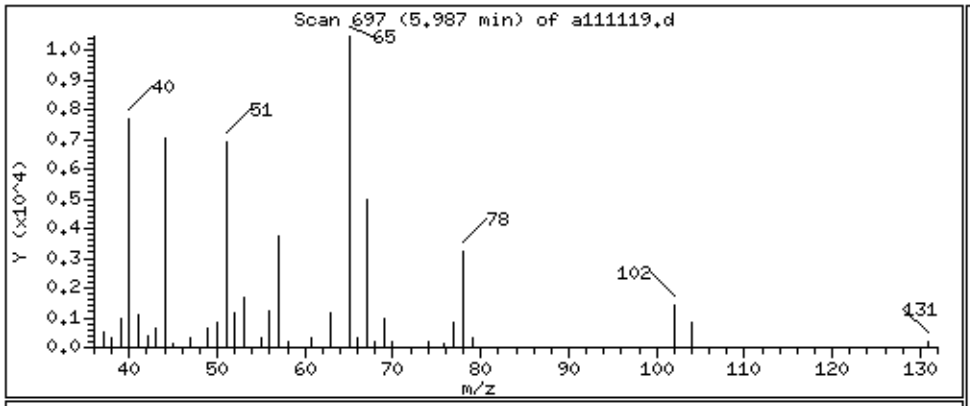
Operator: MS

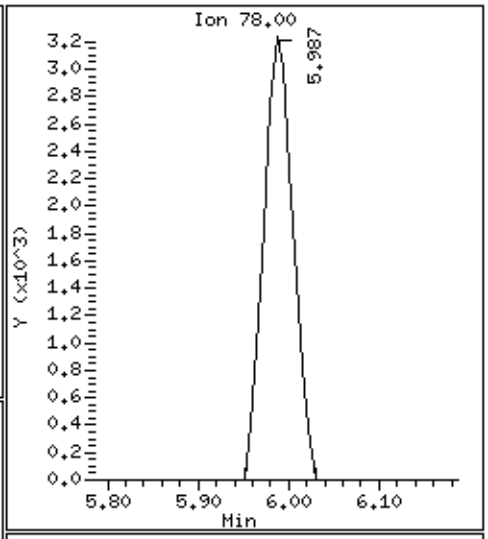
Column phase: RTX-624

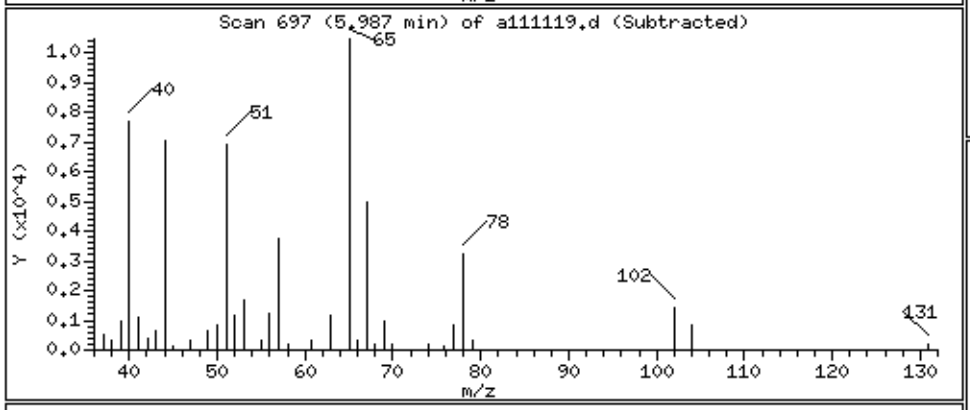
Column diameter: 0.25

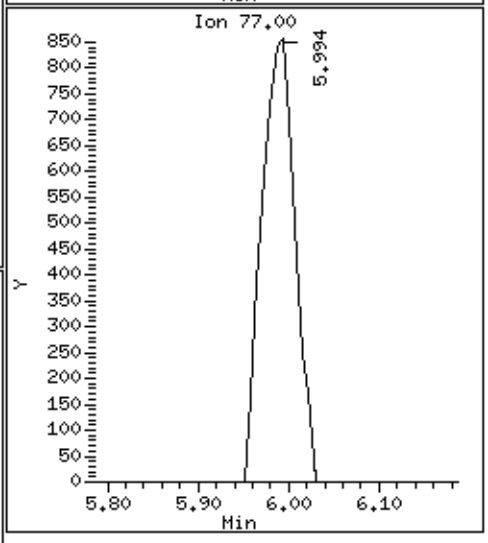
118 Benzene

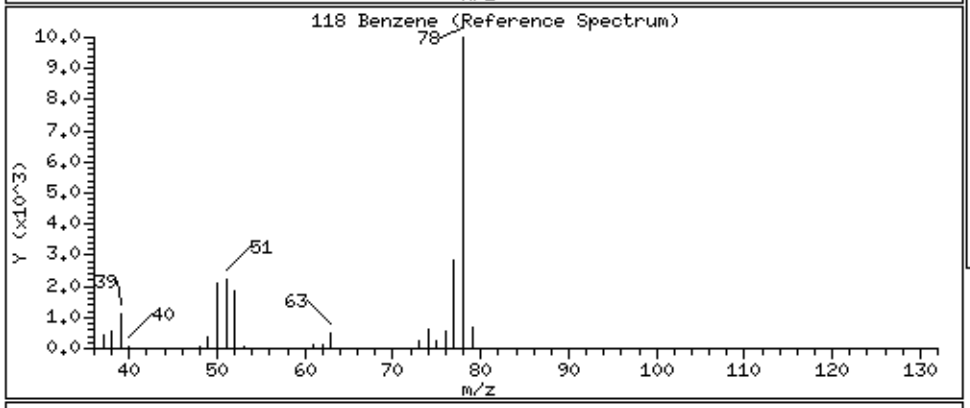
Concentration: 0.5086 PPBV

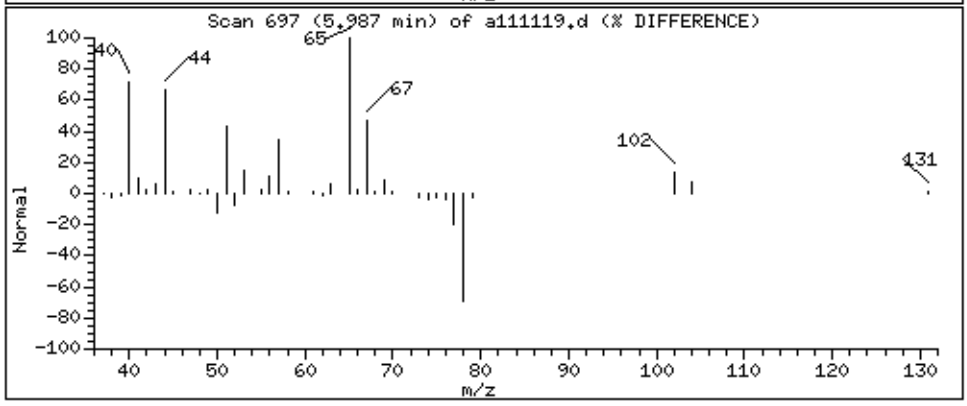












Data File: /chem/msda.i/11NOV24.b/a111119.d

Date : 11-NOV-2024 20:27

Client ID:

Instrument: msda.i

Sample Info: 200mL N7870

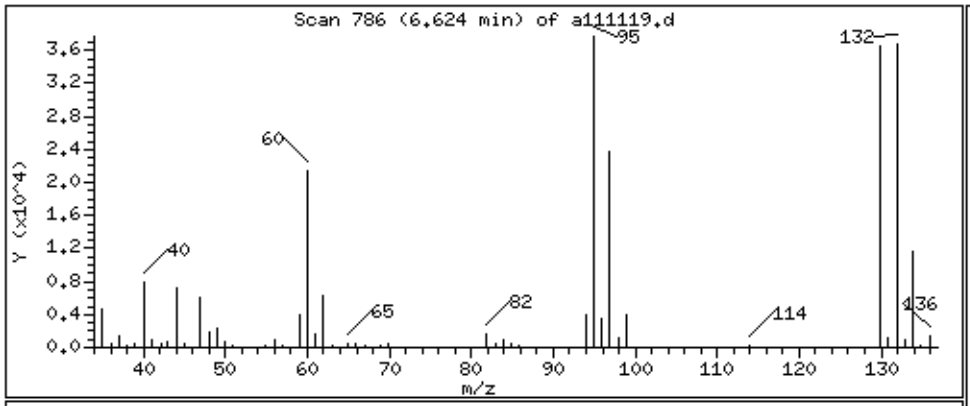
Operator: MS

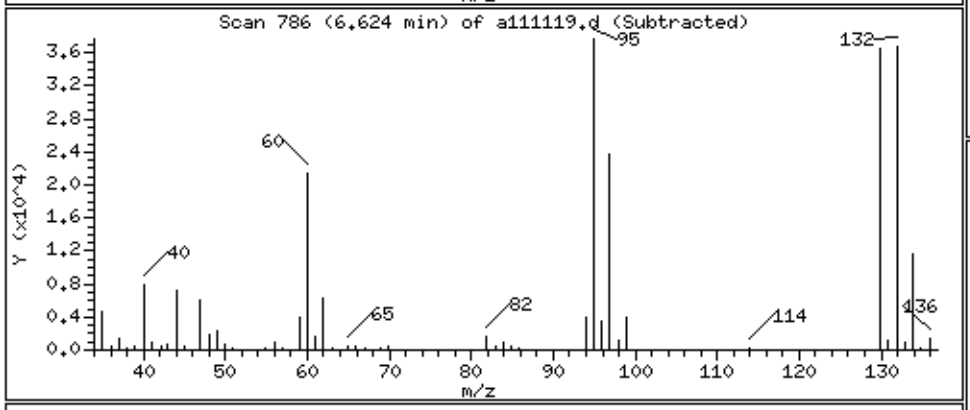
Column phase: RTX-624

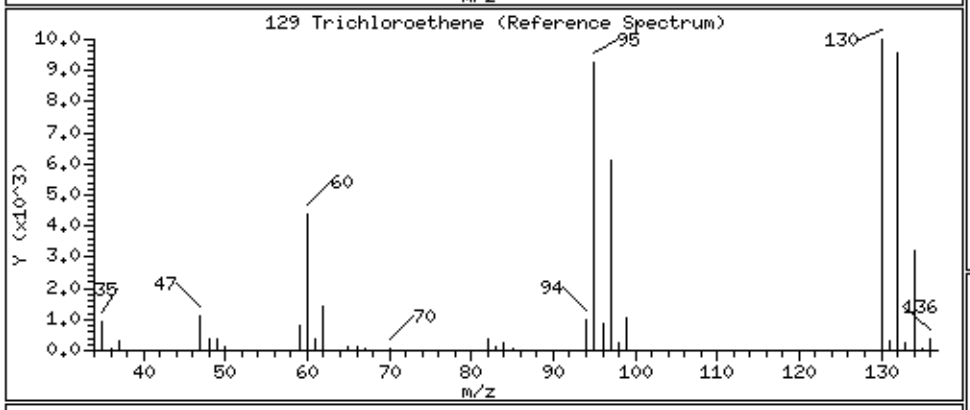
Column diameter: 0.25

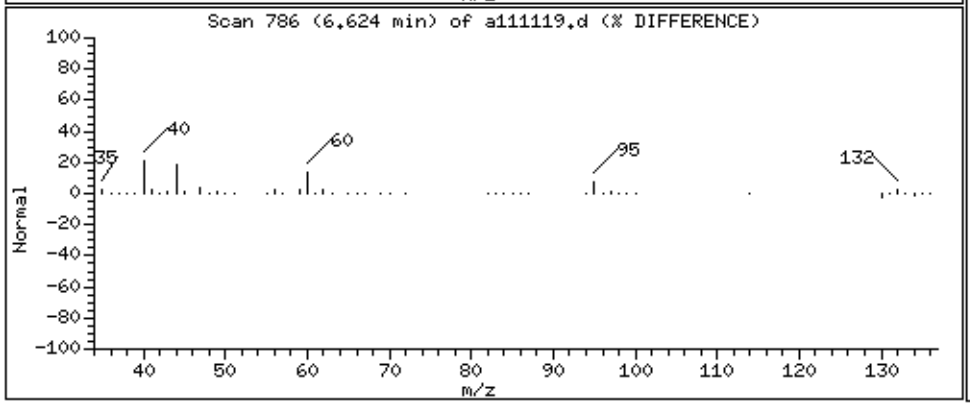
129 Trichloroethene

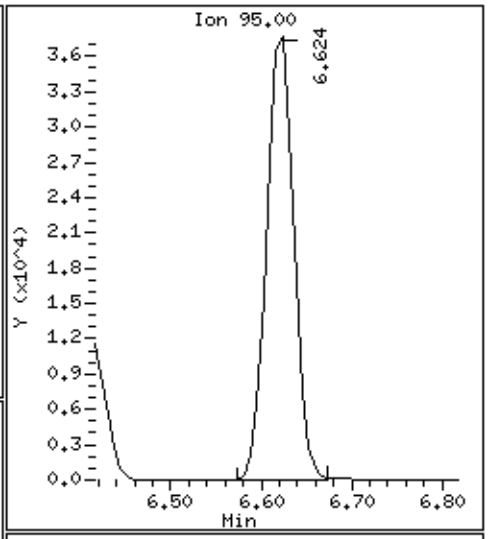
Concentration: 10.720 PPBV

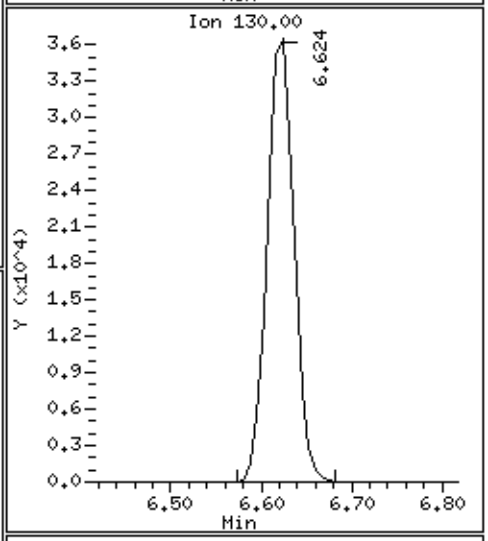


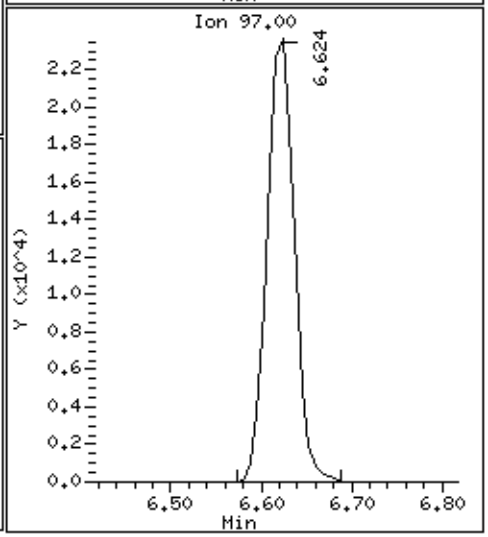












Data File: /chem/msda.i/11NOV24.b/a111119.d

Date : 11-NOV-2024 20:27

Client ID:

Instrument: msda.i

Sample Info: 200mL N7870

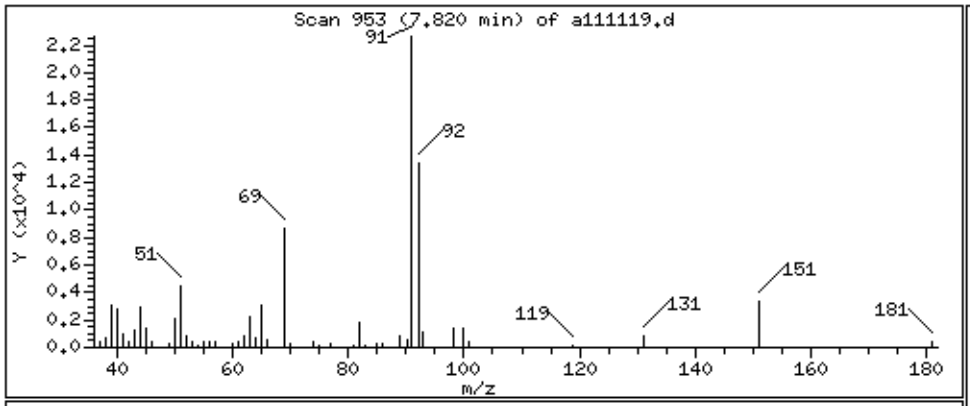
Operator: MS

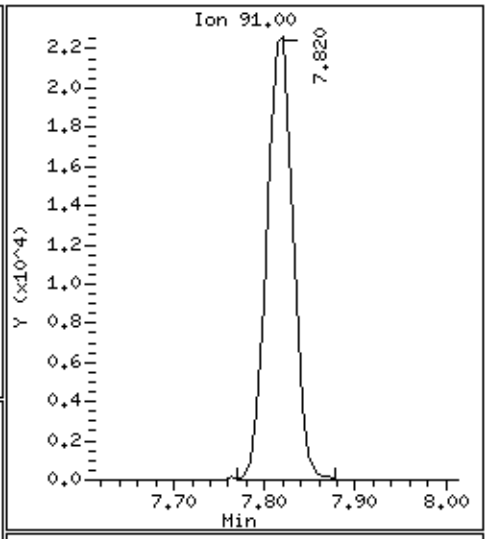
Column phase: RTX-624

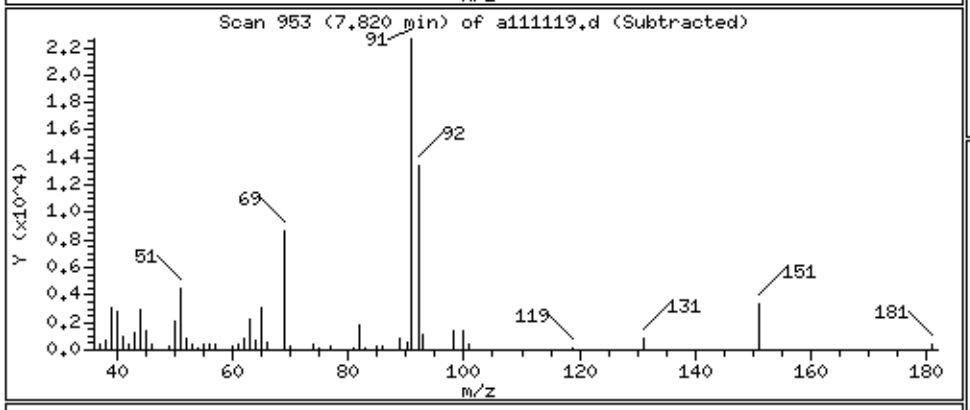
Column diameter: 0.25

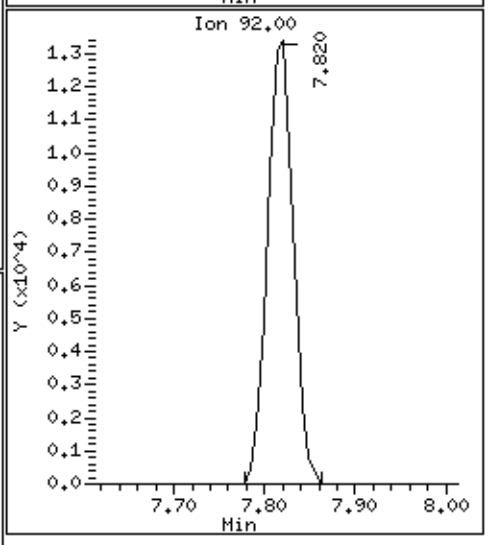
153 Toluene

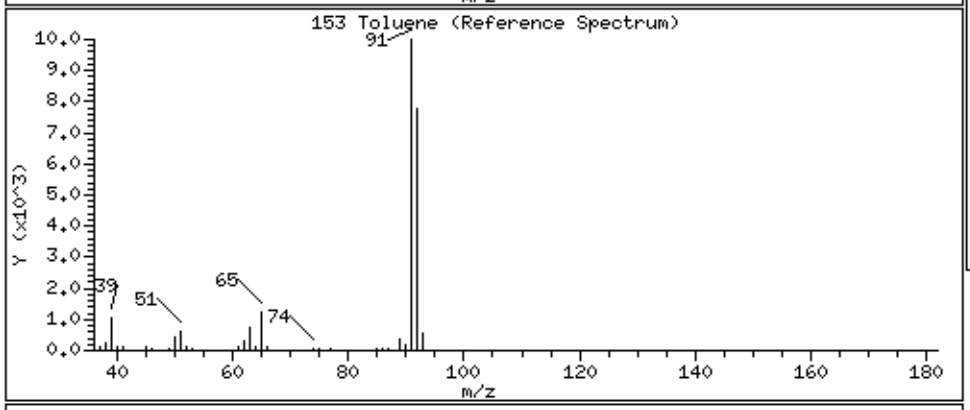
Concentration: 2.424 PPBV

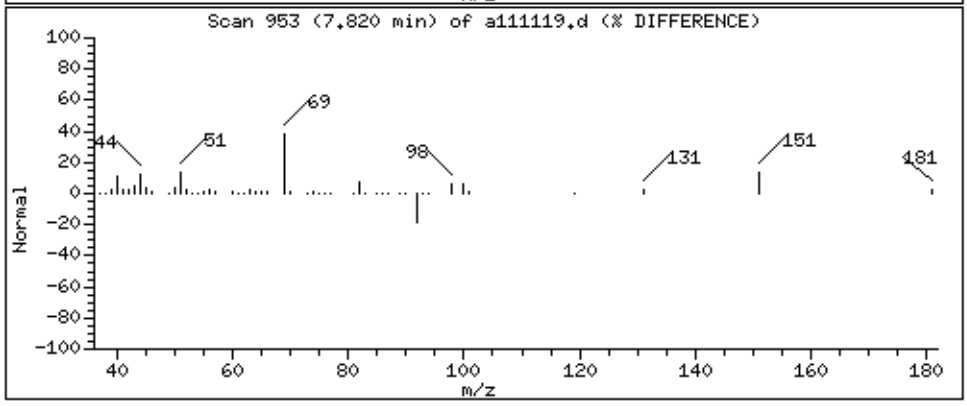












Data File: /chem/msda.i/11NOV24.b/a111119.d

Date : 11-NOV-2024 20:27

Client ID:

Instrument: msda.i

Sample Info: 200mL N7870

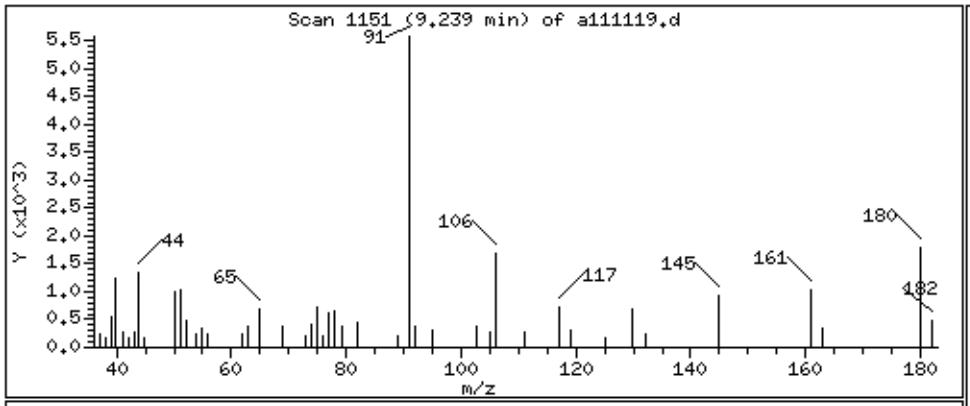
Operator: MS

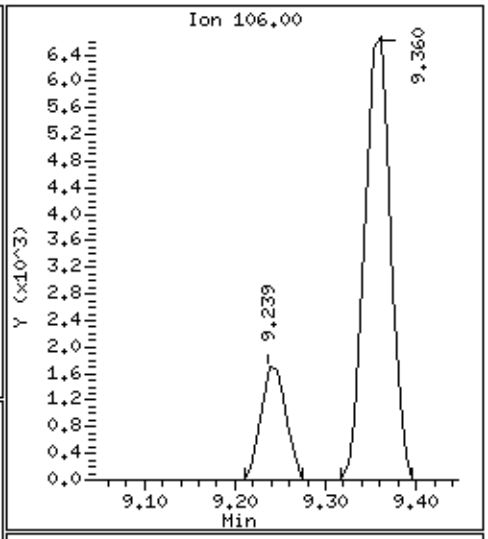
Column phase: RTX-624

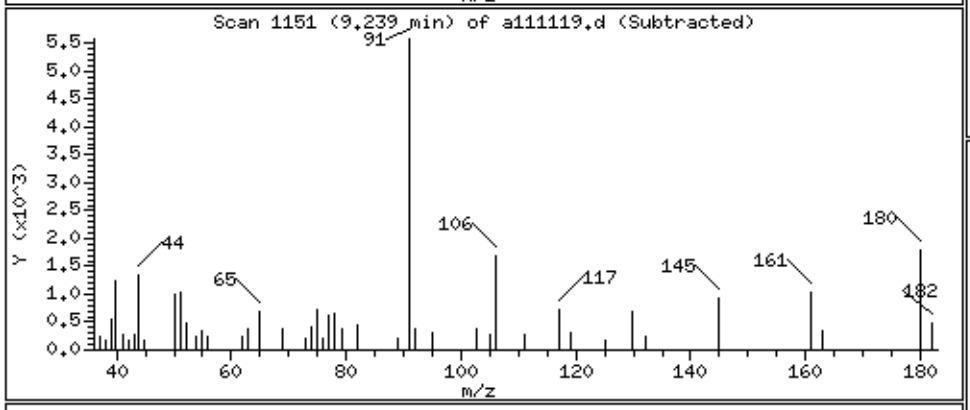
Column diameter: 0.25

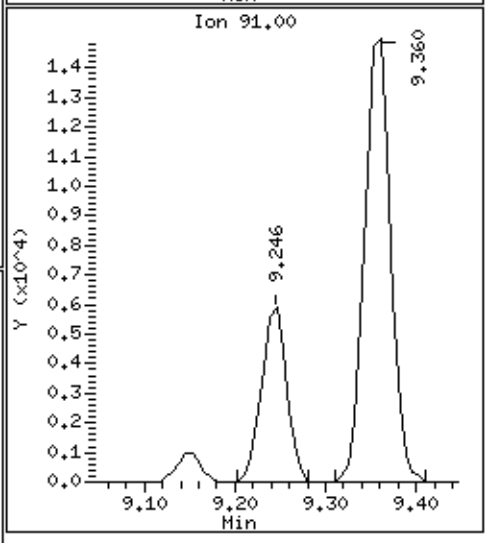
167 Ethyl Benzene

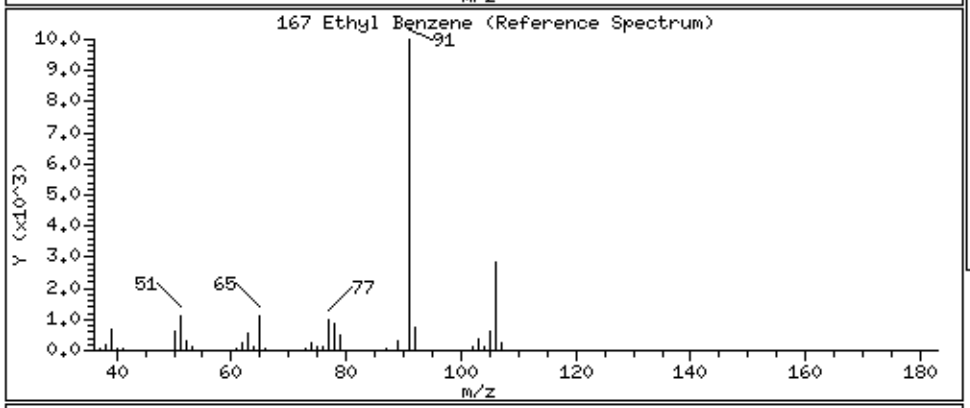
Concentration: 0.3955 PPBV

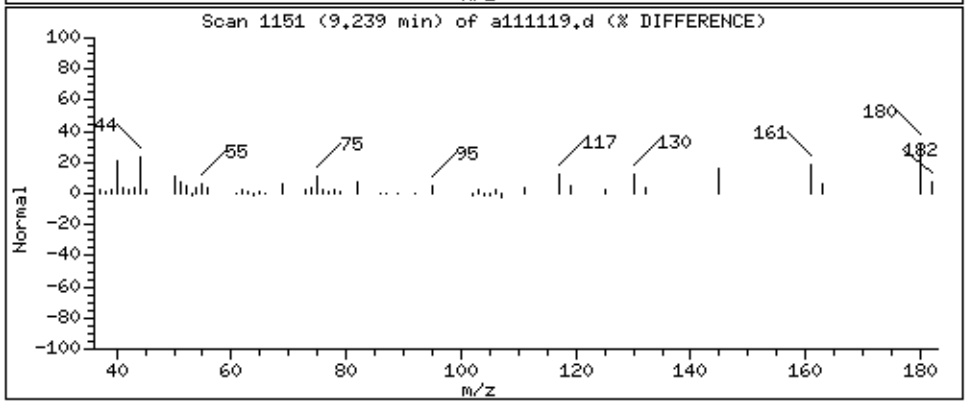












Data File: /chem/msda.i/11NOV24.b/a111119.d

Date : 11-NOV-2024 20:27

Client ID:

Instrument: msda.i

Sample Info: 200mL N7870

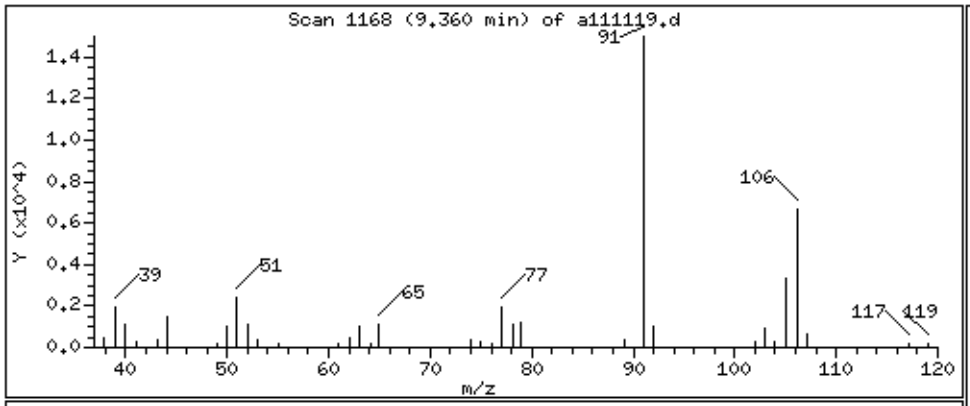
Operator: MS

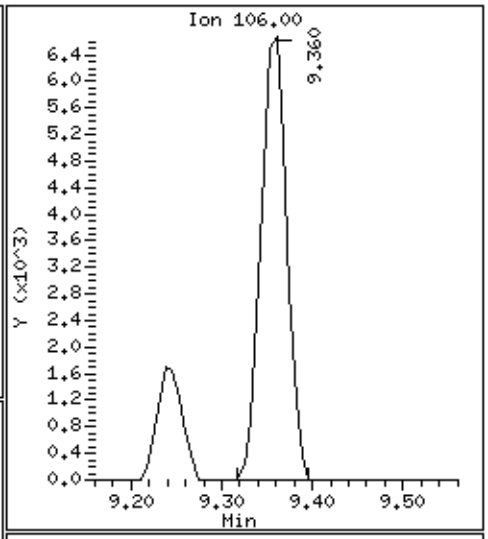
Column phase: RTX-624

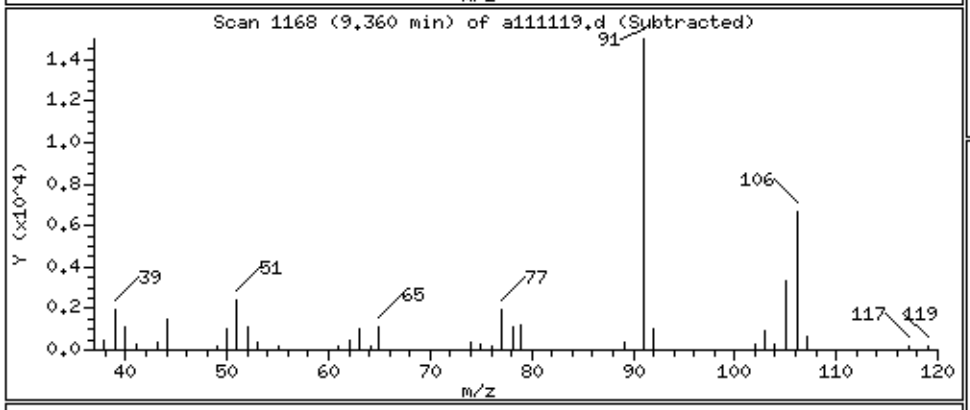
Column diameter: 0.25

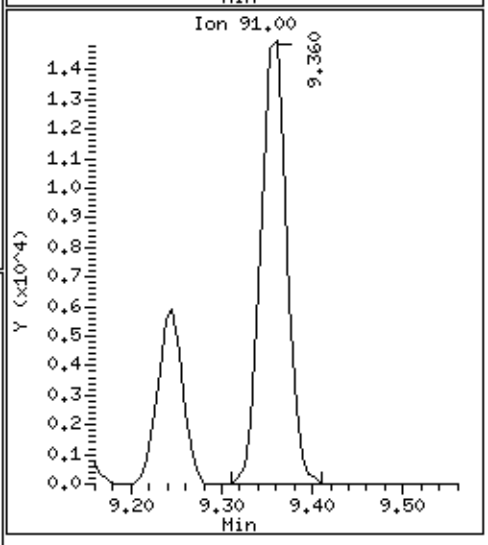
173 m,p-Xylene

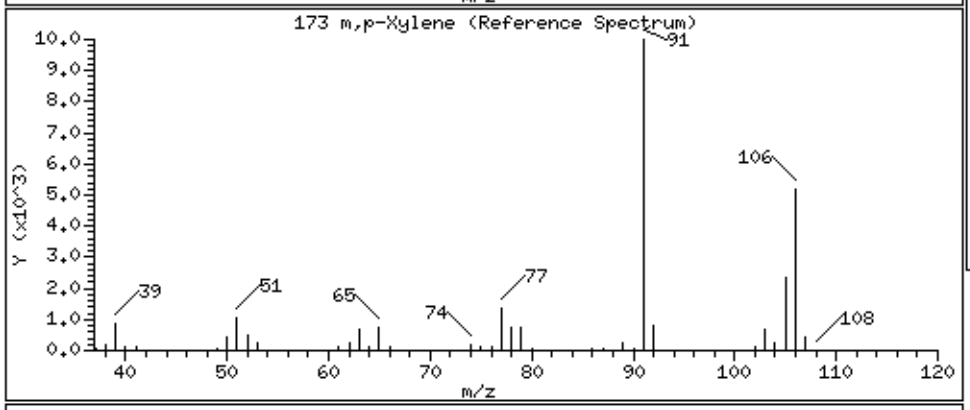
Concentration: 1.290 PPBV

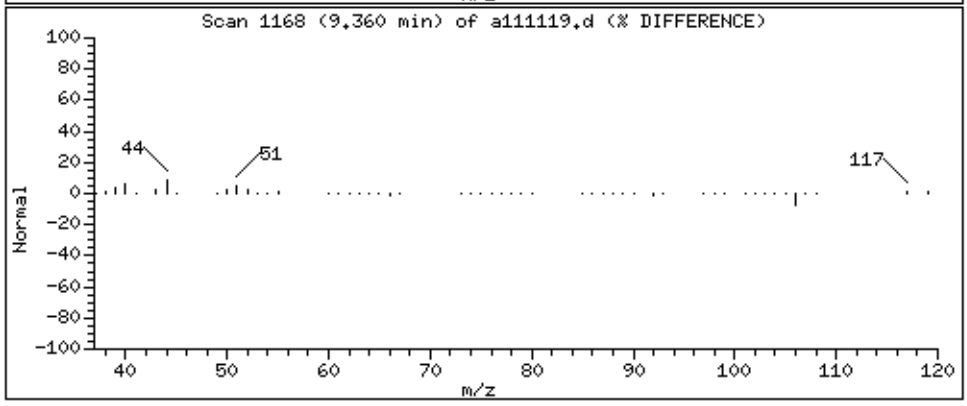












Data File: /chem/msda.i/11NOV24.b/a111119.d

Date : 11-NOV-2024 20:27

Client ID:

Instrument: msda.i

Sample Info: 200mL N7870

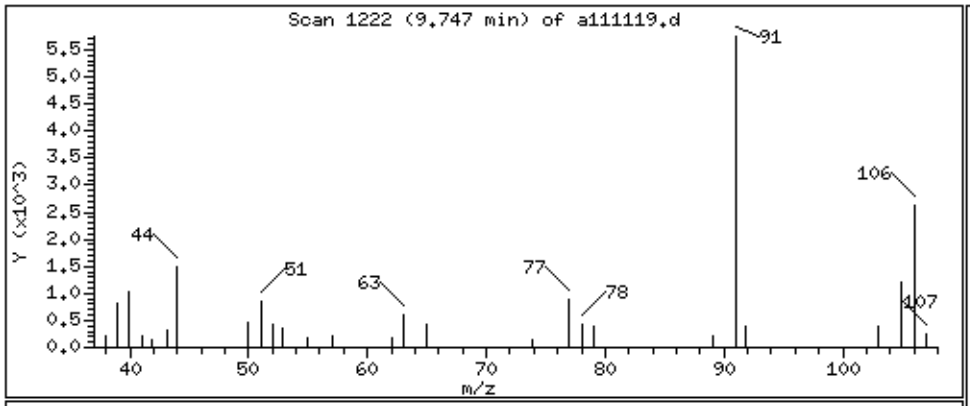
Operator: MS

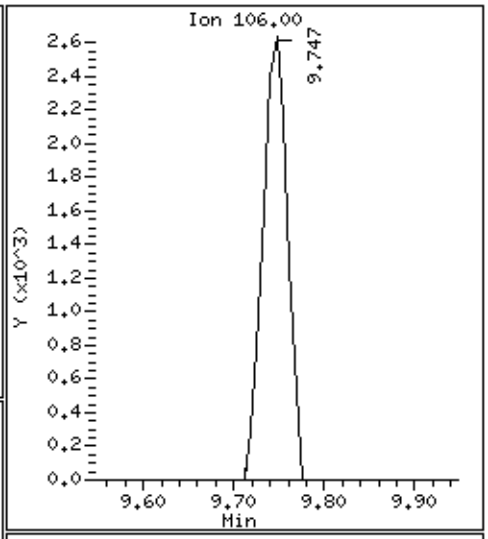
Column phase: RTX-624

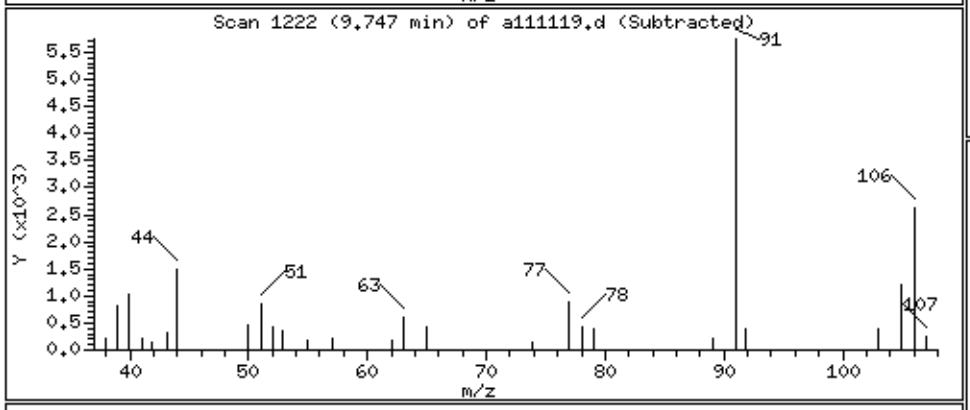
Column diameter: 0.25

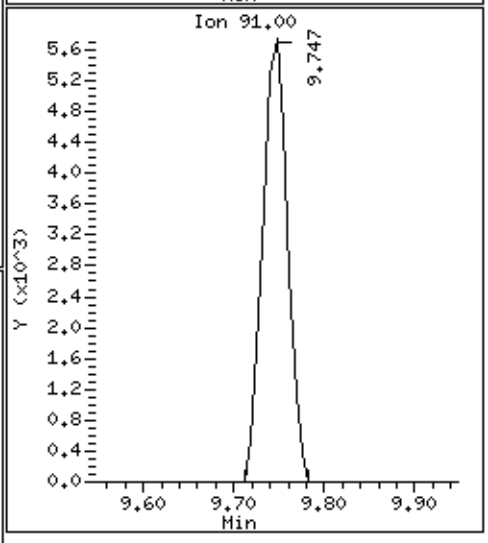
176 o-Xylene

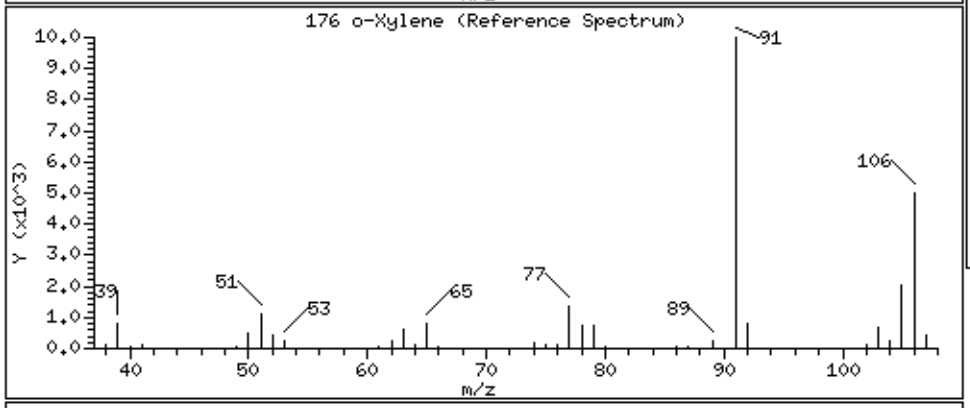
Concentration: 0.5199 PPBV

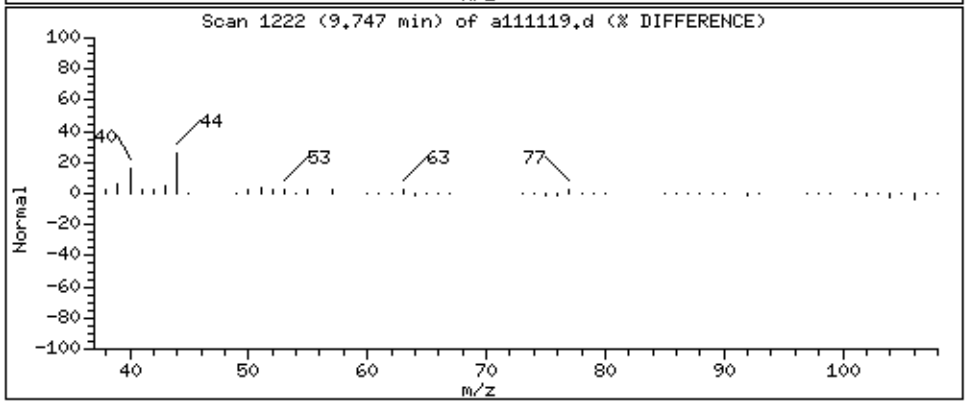












eurofins | Air Toxics

Client ID:	T1AMF-SV020_OCT24		
Lab ID:	2410702B-23A	**Date/Time Analyzed:**	11/11/24 06:02 PM
Date/Time Collected:	10/25/24 12:50 PM	**Dilution Factor:**	2.18
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111115

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.1	3.9	4.3	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.3	5.9	6.6	Not Detected U
Benzene	71-43-2	0.60	3.1	3.5	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.3	3.9	4.3	Not Detected U
Ethyl Benzene	100-41-4	1.8	4.2	4.7	Not Detected U
m,p-Xylene	108-38-3	1.7	4.2	9.5	2.4 J
o-Xylene	95-47-6	1.6	4.2	4.7	Not Detected U
Toluene	108-88-3	0.90	3.7	8.2	1.4 J
trans-1,2-Dichloroethene	156-60-5	1.6	3.9	4.3	Not Detected U
Trichloroethene	79-01-6	0.86	5.3	5.8	4.7 J
Vinyl Chloride	75-01-4	1.3	2.5	2.8	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	93
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	102

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111115.d
Lab Smp Id: 2410702B-23A
Inj Date : 11-NOV-2024 18:02
Operator : MS Inst ID: msda.i
Smp Info : 200mL N3123
Misc Info : 6.9 Hg->10 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 8
Dil Factor: 2.18000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.435	5.428 (1.000)	130	240852	25.0000		80.00- 120.00	100.00
5.435	5.428 (1.000)	128	190831			46.45- 106.45	79.23
5.428	5.428 (1.000)	49	513578			167.12- 227.12	213.23
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	887942	25.0000		80.00- 120.00	100.00
6.416	6.409 (1.000)	88	142009			0.00- 46.36	15.99
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.146 (1.000)	117	846752	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	476642			27.12- 87.12	56.29
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.107)	65	388913	23.2105	23.210	80.00- 120.00	100.00
6.015	6.015 (1.107)	67	191032			23.36- 83.36	49.12
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	941101	25.4200	25.420	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	109287			0.00- 41.92	11.61

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	624849			39.07- 99.07	66.40
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.124)	174	521100	23.0778	23.078	80.00- 120.00	100.00
10.292	10.292 (1.124)	95	629996			89.27- 149.27	120.90
10.292	10.292 (1.124)	176	494875			66.29- 126.29	94.97
129 Trichloroethene					CAS #: 79-01-6		
6.624	6.617 (1.032)	95	6336	0.40396	0.8806	80.00- 120.00	100.00(a)
6.624	6.617 (1.032)	130	6480			67.98- 127.98	102.26
6.624	6.617 (1.032)	97	4104			34.45- 94.45	64.77
153 Toluene					CAS #: 108-88-3		
7.820	7.813 (1.219)	91	7168	0.17737	0.3867	80.00- 120.00	100.00(a)
7.813	7.813 (1.218)	92	3785			27.69- 87.69	52.80
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.360 (1.023)	106	5630	0.25678	0.5598	80.00- 120.00	100.00(a)
9.360	9.360 (1.023)	91	11449			176.41- 236.41	203.34

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111115.d
Lab Smp Id: 2410702B-23A
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 6.9 Hg->10 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	240852	-9.17
126 1,4-Difluorobenze	973920	584352	1363488	887942	-8.83
165 Chlorobenzene-d5	894091	536455	1251727	846752	-5.29

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.44	0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:34

US32TAR1

RECOVERY REPORT

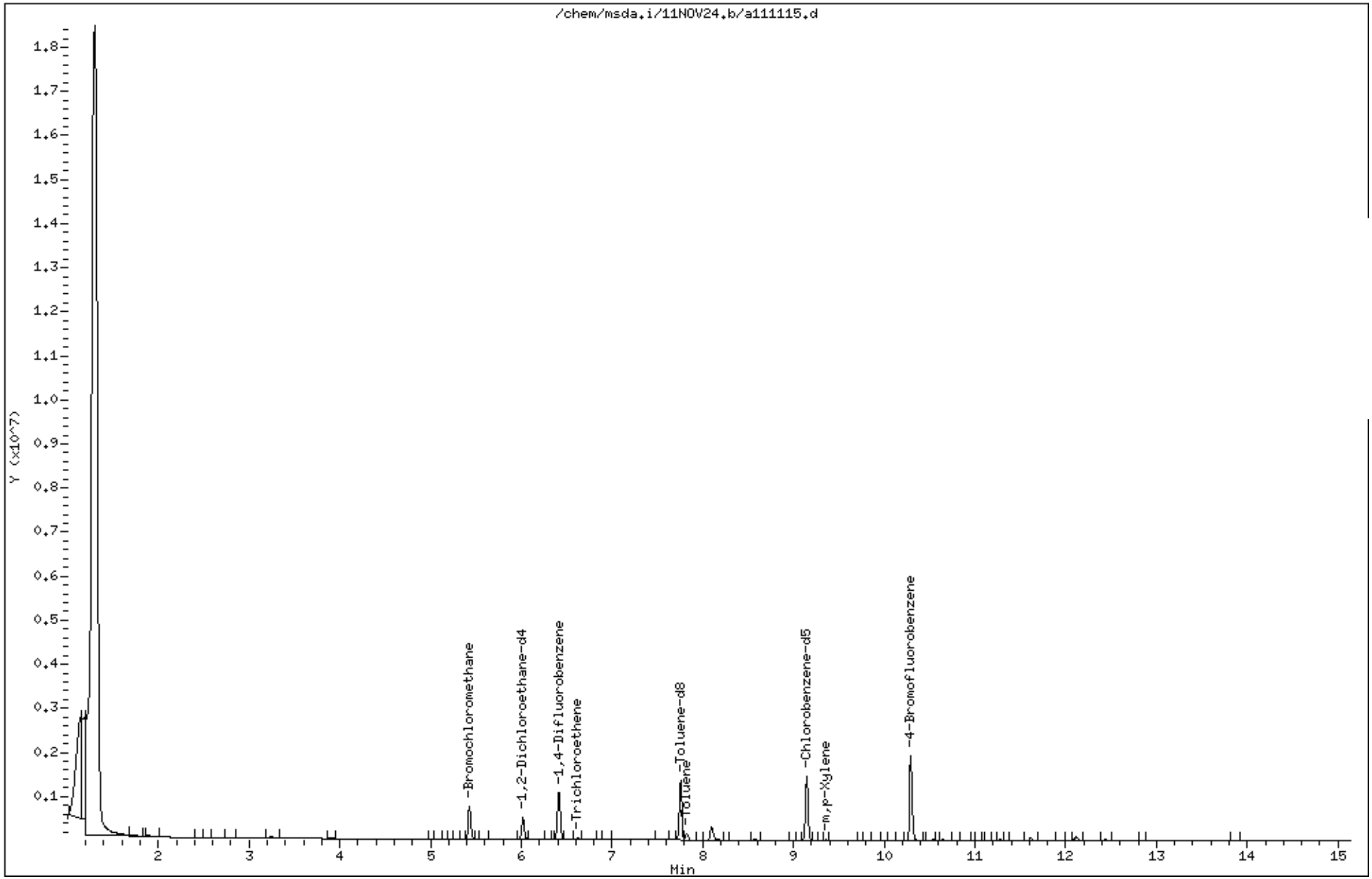
Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-23A
Level: LOW Operator: MS
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 6.9 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	23.210	92.84	70-130
$ 152 Toluene-d8	25.000	25.420	101.68	70-130
$ 191 4-Bromofluorobenz	25.000	23.078	92.31	70-130

Data File: /chem/msda.i/11NOV24.b/a111115.d
Date : 11-NOV-2024 18:02
Client ID:
Sample Info: 200mL N3123

Instrument: msda.i
Operator: MS
Column diameter: 0.25

Column phase: RTX-624



Data File: /chem/msda.i/11NOV24.b/a111115.d

Date : 11-NOV-2024 18:02

Client ID:

Instrument: msda.i

Sample Info: 200mL N3123

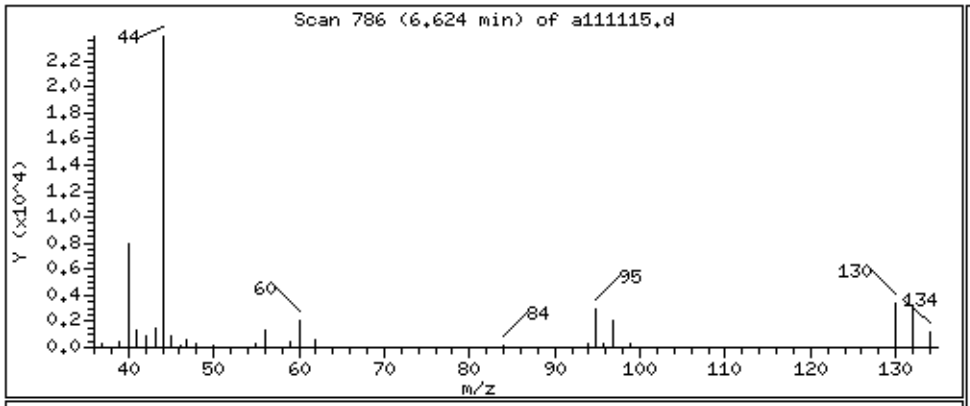
Operator: MS

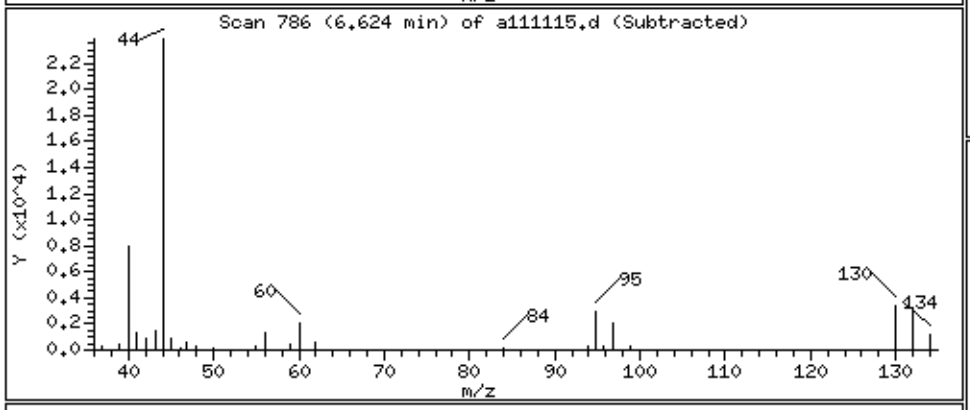
Column phase: RTX-624

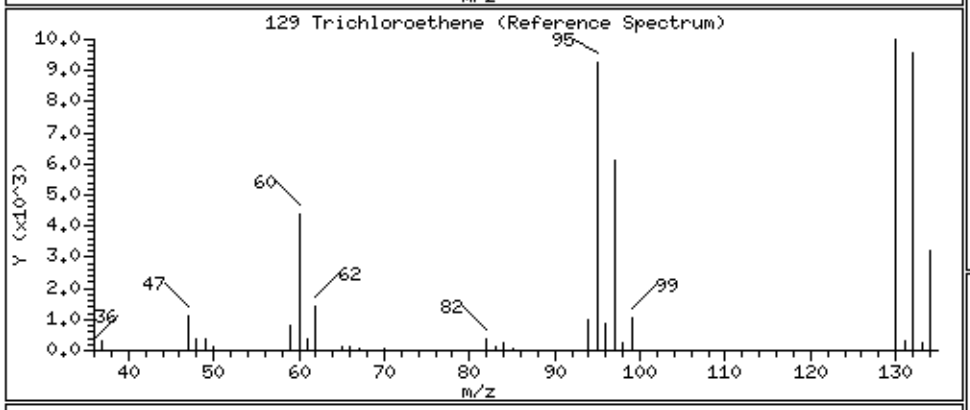
Column diameter: 0.25

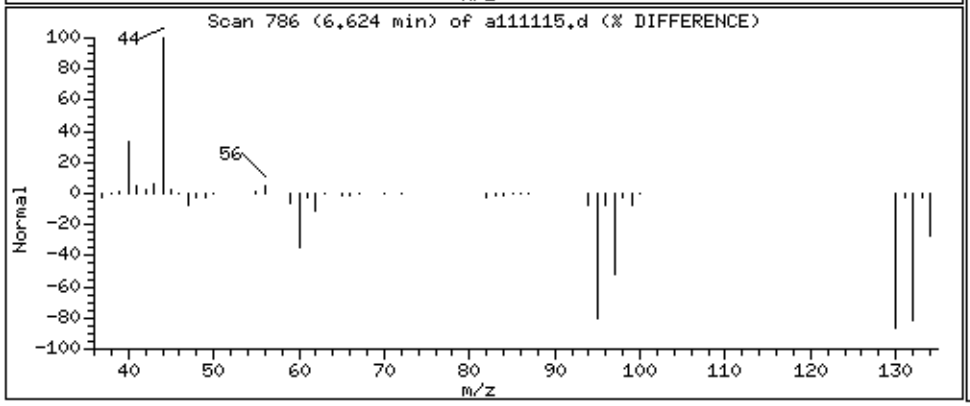
129 Trichloroethene

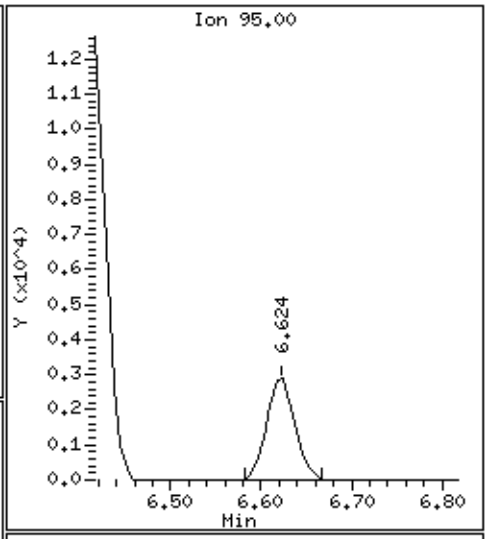
Concentration: 0.8806 PPBV

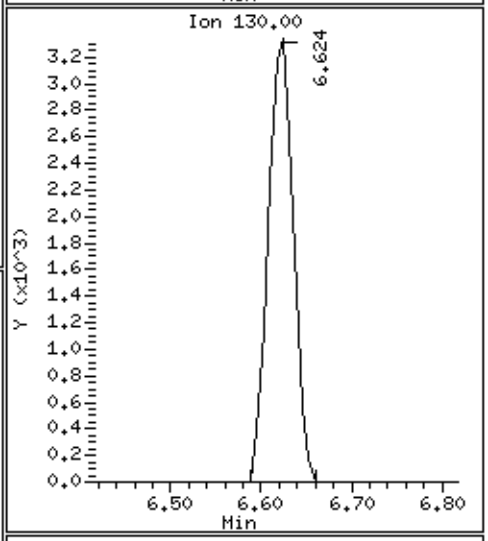


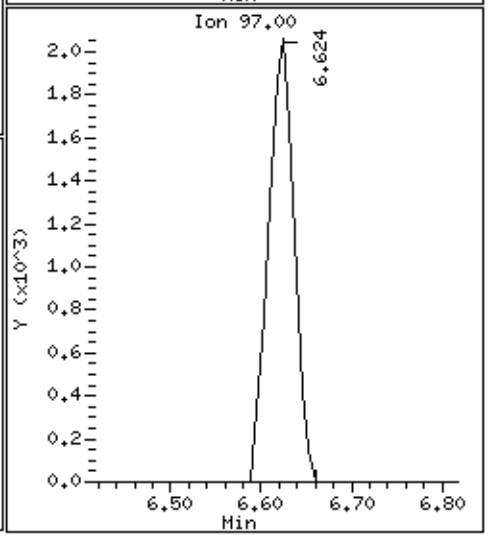












Data File: /chem/msda.i/11NOV24.b/a111115.d

Date : 11-NOV-2024 18:02

Client ID:

Instrument: msda.i

Sample Info: 200mL N3123

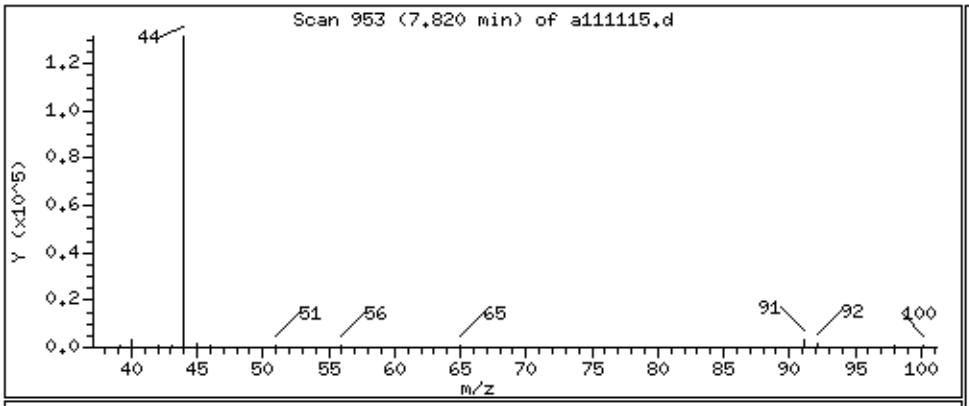
Operator: MS

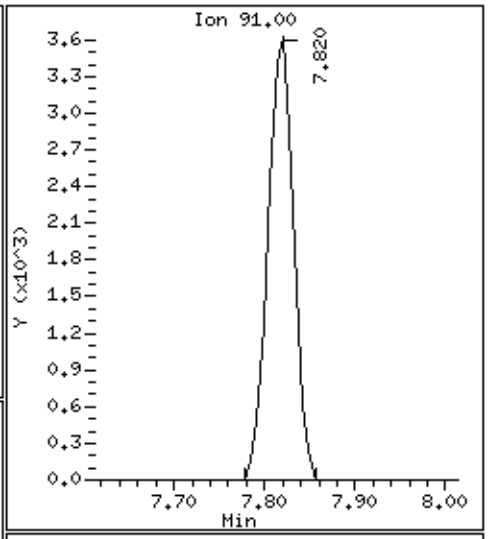
Column phase: RTX-624

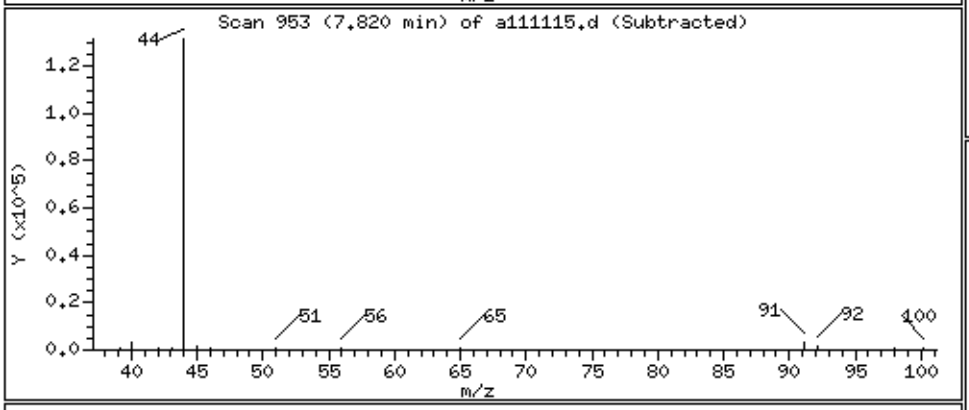
Column diameter: 0.25

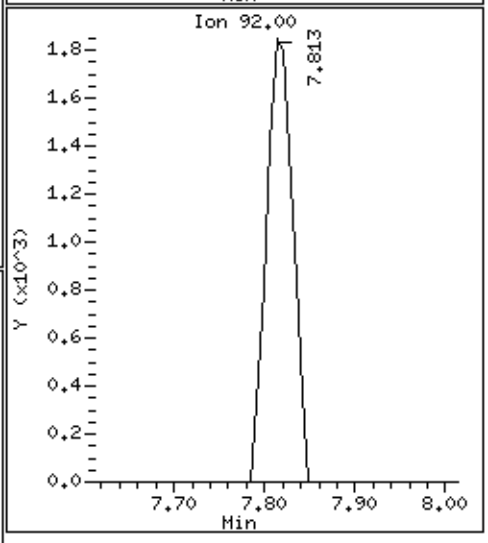
153 Toluene

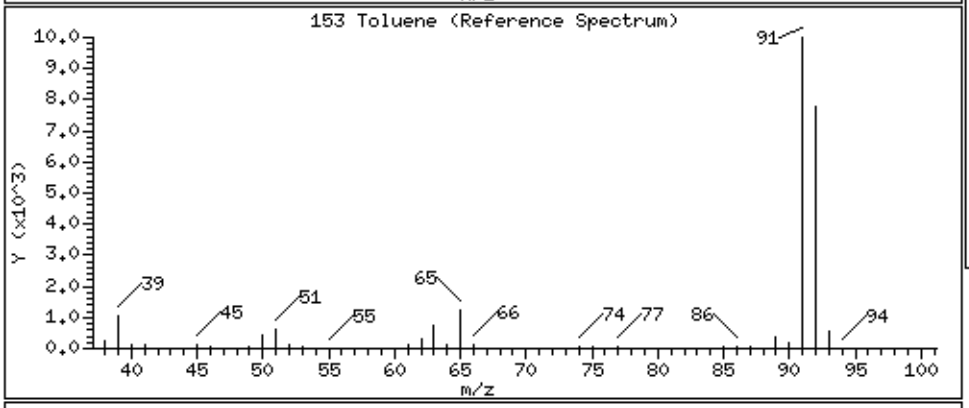
Concentration: 0.3867 PPBV

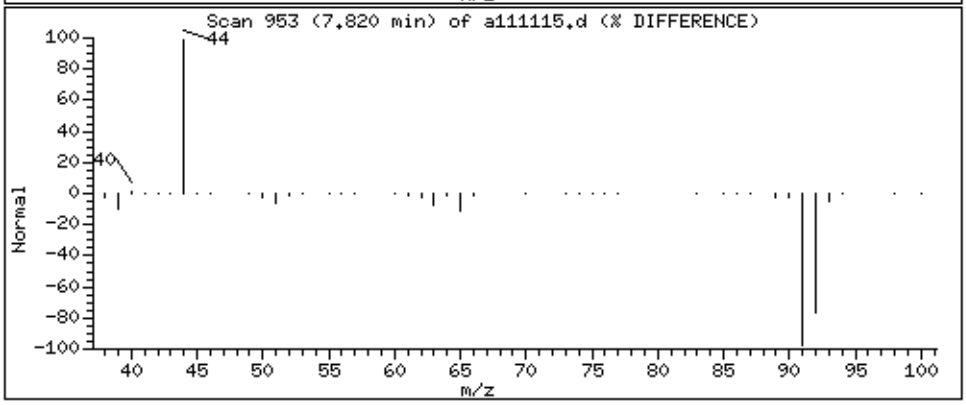












Data File: /chem/msda.i/11NOV24.b/a111115.d

Date : 11-NOV-2024 18:02

Client ID:

Instrument: msda.i

Sample Info: 200mL N3123

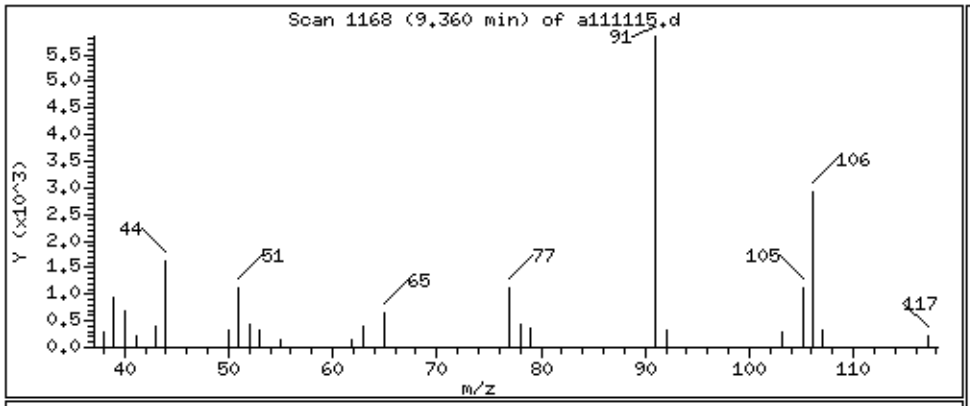
Operator: MS

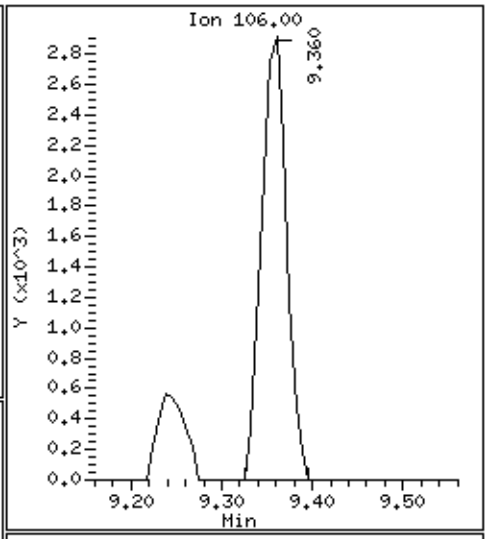
Column phase: RTX-624

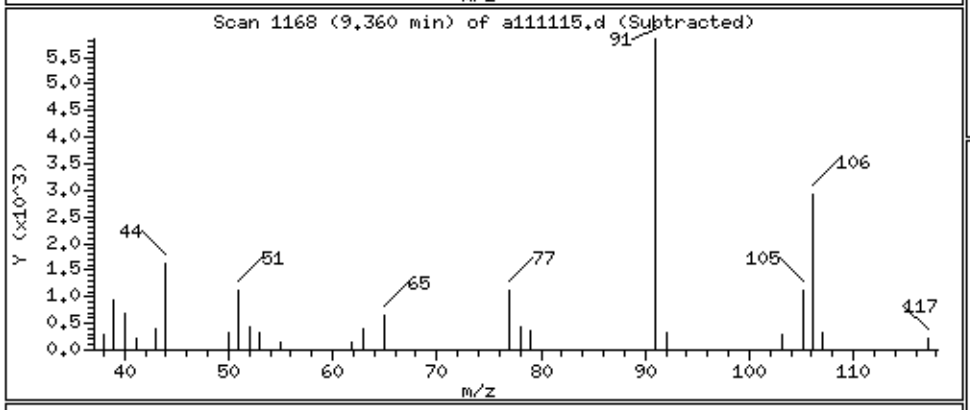
Column diameter: 0.25

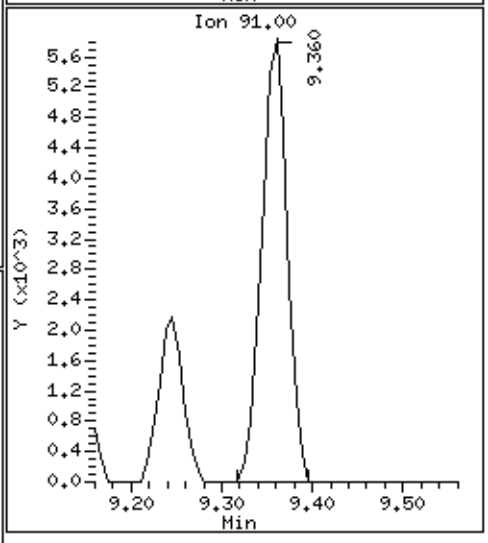
173 m,p-Xylene

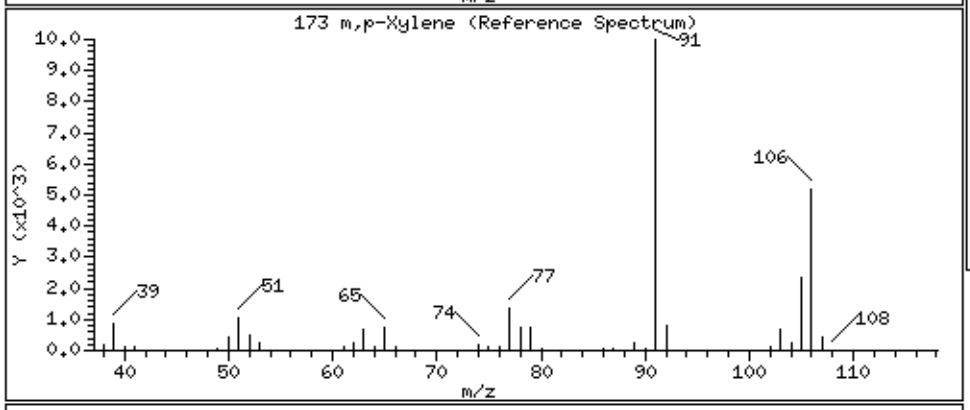
Concentration: 0.5598 PPBV

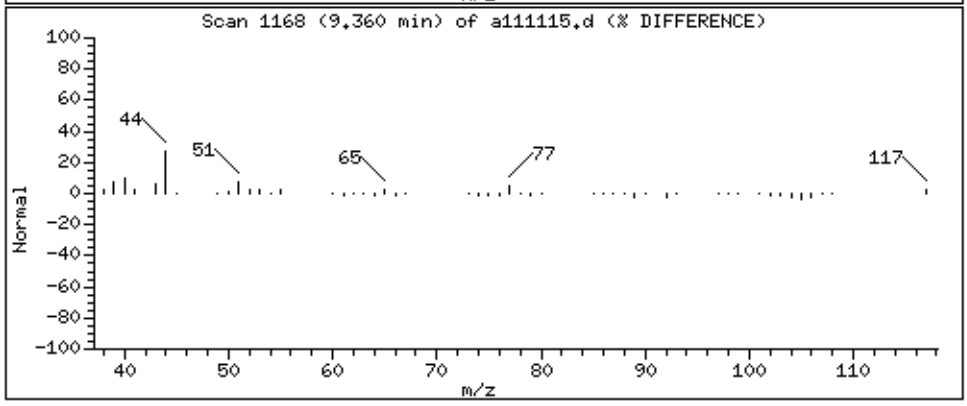












eurofins | Air Toxics

Client ID:	T1AMF-SV022_OCT24		
Lab ID:	2410702B-24A	**Date/Time Analyzed:**	11/11/24 06:36 PM
Date/Time Collected:	10/25/24 01:48 PM	**Dilution Factor:**	9.00
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111116

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	4.4	16	18	Not Detected U
1,4-Dichlorobenzene	106-46-7	9.4	24	27	Not Detected U
Benzene	71-43-2	2.5	13	14	Not Detected U
cis-1,2-Dichloroethene	156-59-2	5.4	16	18	34
Ethyl Benzene	100-41-4	7.4	18	20	Not Detected U
m,p-Xylene	108-38-3	7.0	18	39	Not Detected U
o-Xylene	95-47-6	6.8	18	20	Not Detected U
Toluene	108-88-3	3.7	15	34	Not Detected U
trans-1,2-Dichloroethene	156-60-5	6.8	16	18	Not Detected U
Trichloroethene	79-01-6	3.5	22	24	8800
Vinyl Chloride	75-01-4	5.3	10	12	Not Detected U

U = The analyte was not detected above the MDL.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	90
4-Bromofluorobenzene	460-00-4	70-130	91
Toluene-d8	2037-26-5	70-130	102

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111116.d
Lab Smp Id: 2410702B-24A
Inj Date : 11-NOV-2024 18:36
Operator : MS Inst ID: msda.i
Smp Info : 50mL N5499
Misc Info : 7.6 Hg->10 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 9
Dil Factor: 9.00000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	247245	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	191196			46.45- 106.45	77.33
5.428	5.428 (1.000)	49	521784			167.12- 227.12	211.04
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	885320	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	141036			0.00- 46.36	15.93
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	836088	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	466605			27.12- 87.12	55.81
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	388903	22.6098	22.610	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	192158			23.36- 83.36	49.41
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.210)	98	937181	25.3891	25.389	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	109505			0.00- 41.92	11.68

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.210)	100	623247			39.07- 99.07	66.50
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	509209	22.8388	22.839	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	623691			89.27- 149.27	122.48
10.292	10.292 (1.125)	176	487808			66.29- 126.29	95.80
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	7174	0.96627	8.696	80.00- 120.00	100.00(Q)
5.177	5.177 (0.954)	96	11938			123.49- 183.49	166.40
5.177	5.177 (0.954)	61	21439			310.35- 370.35	298.82
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	2843199	181.809	1636.3	80.00- 120.00	100.00
6.617	6.617 (1.032)	130	2795952			67.98- 127.98	98.34
6.617	6.617 (1.032)	97	1849578			34.45- 94.45	65.05

QC Flag Legend

Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111116.d
Lab Smp Id: 2410702B-24A
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 7.6 Hg->10 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	247245	-6.76
126 1,4-Difluorobenze	973920	584352	1363488	885320	-9.10
165 Chlorobenzene-d5	894091	536455	1251727	836088	-6.49

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:34

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-24A
Level: LOW Operator: MS
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 7.6 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.610	90.44	70-130
$ 152 Toluene-d8	25.000	25.389	101.56	70-130
$ 191 4-Bromofluorobenz	25.000	22.839	91.36	70-130

Data File: /chem/msda.i/11NOV24.b/a111116.d

Date : 11-NOV-2024 18:36

Client ID:

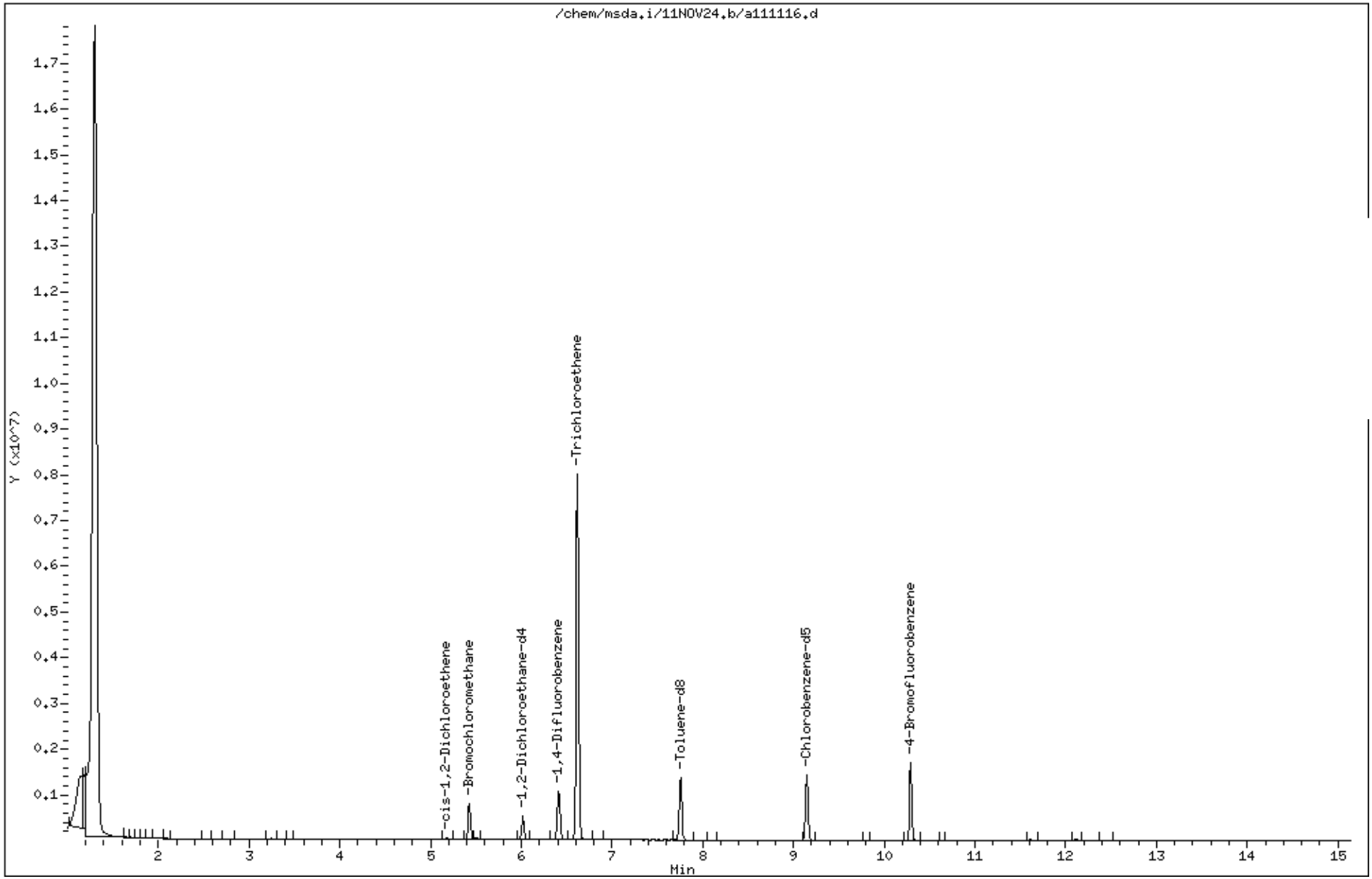
Sample Info: 50mL N5499

Column phase: RTX-624

Instrument: msda.i

Operator: MS

Column diameter: 0.25



Data File: /chem/msda.i/11NOV24.b/a111116.d

Date : 11-NOV-2024 18:36

Client ID:

Instrument: msda.i

Sample Info: 50mL N5499

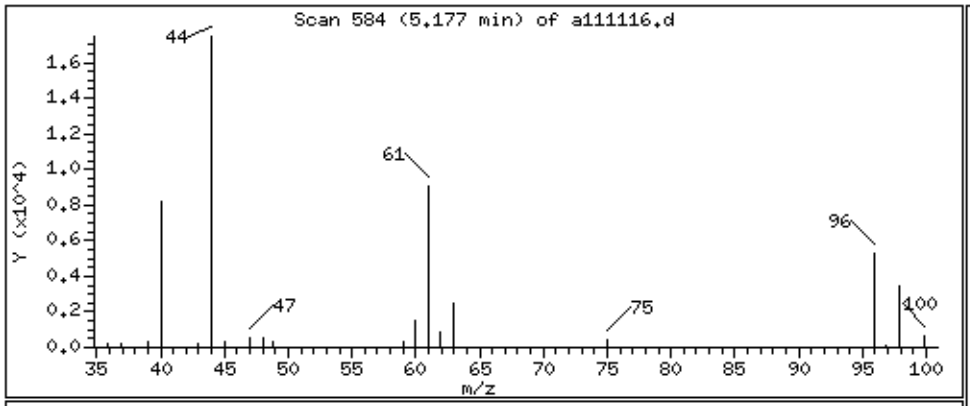
Operator: MS

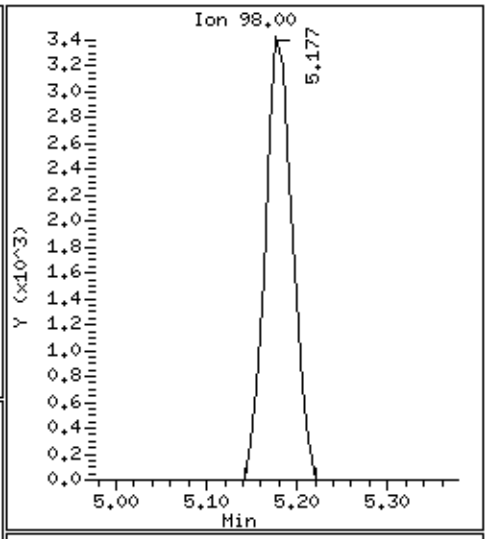
Column phase: RTX-624

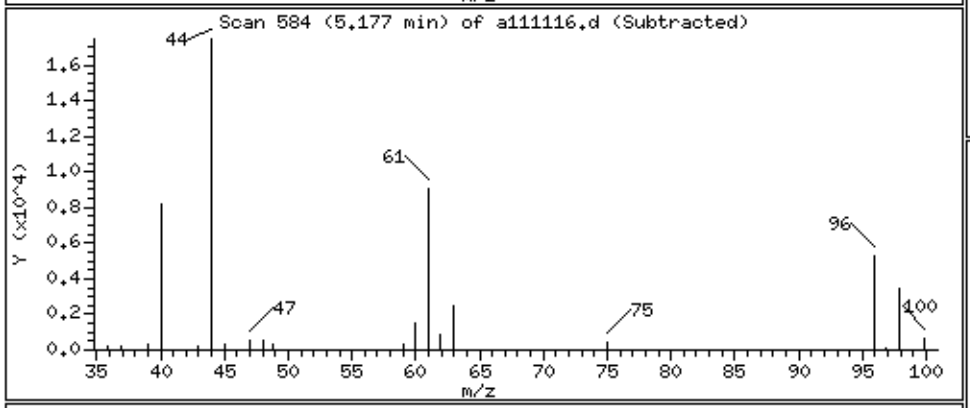
Column diameter: 0.25

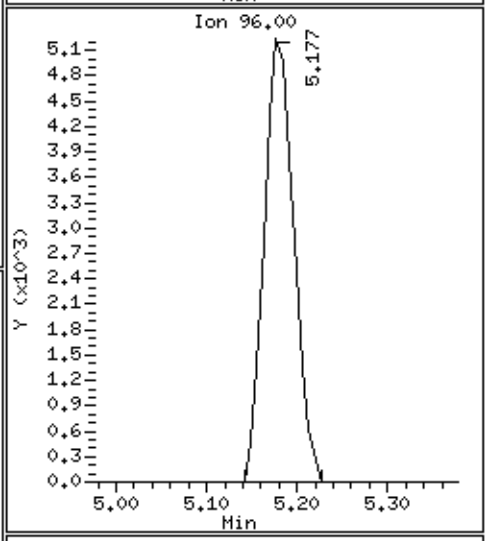
91 cis-1,2-Dichloroethene

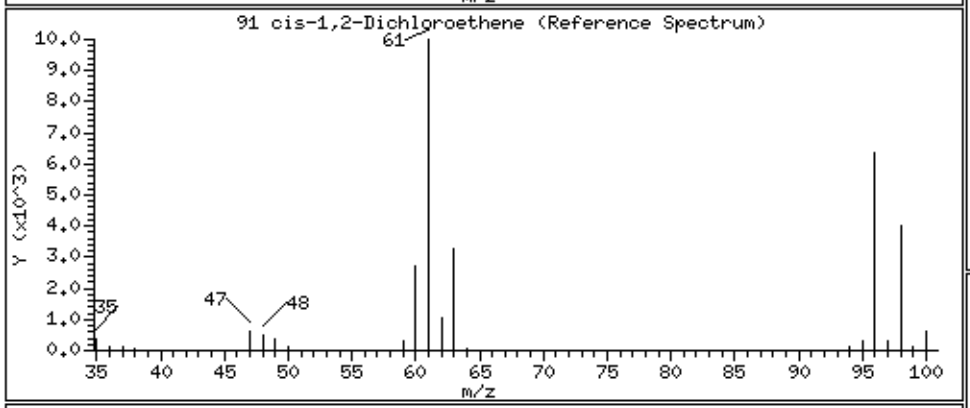
Concentration: 8.696 PPBV

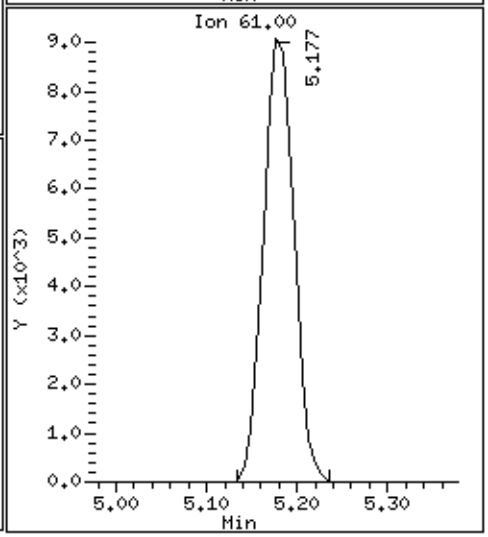


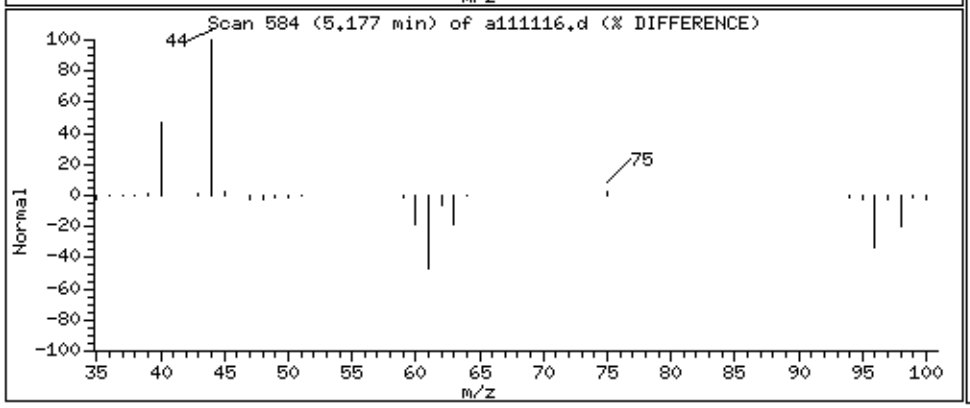












Data File: /chem/msda.i/11NOV24.b/a111116.d

Date : 11-NOV-2024 18:36

Client ID:

Instrument: msda.i

Sample Info: 50mL N5499

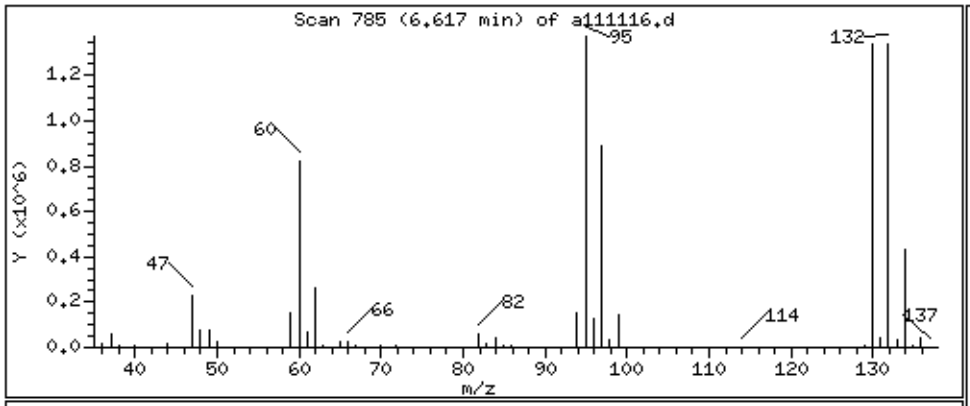
Operator: MS

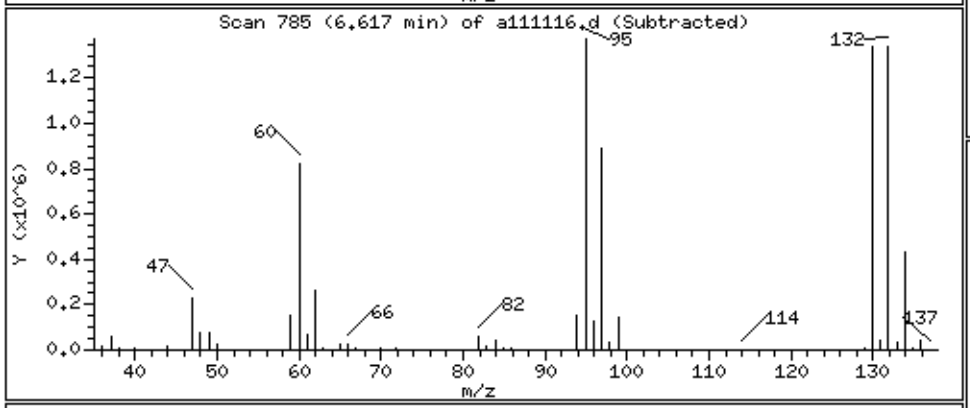
Column phase: RTX-624

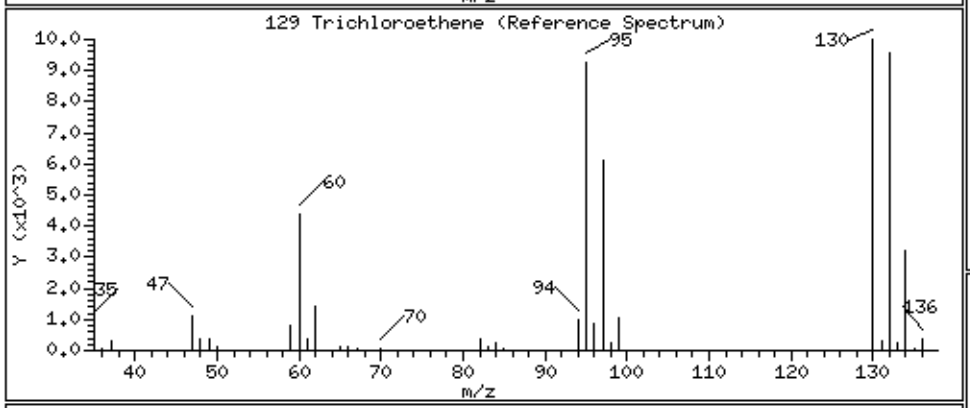
Column diameter: 0.25

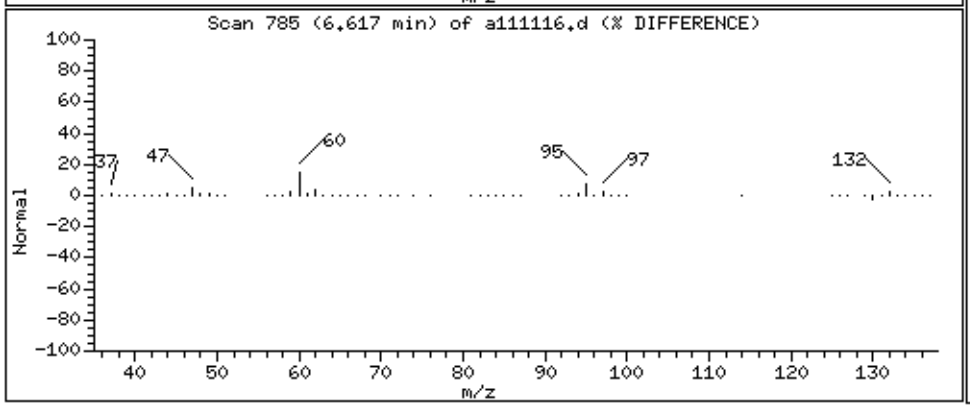
129 Trichloroethene

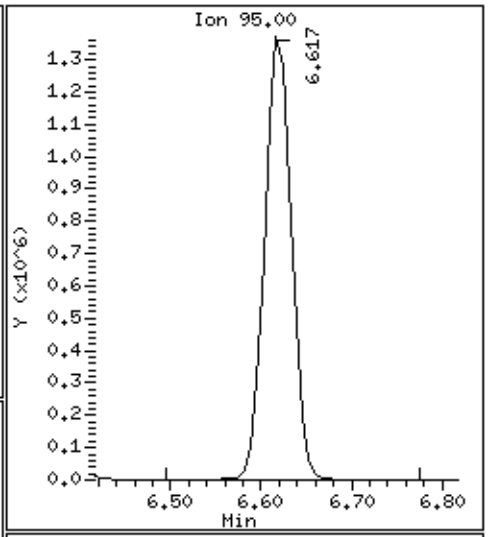
Concentration: 1636.3 PPBV

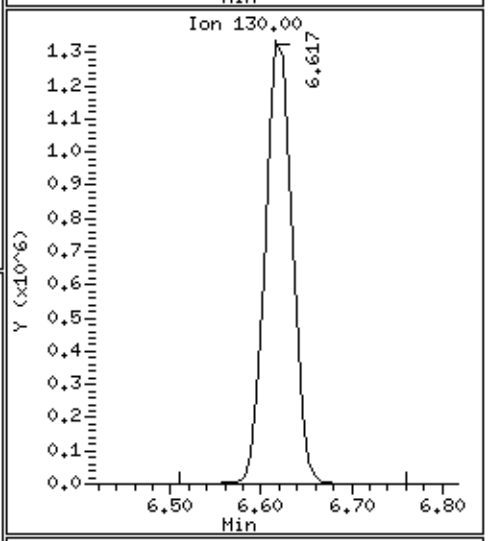


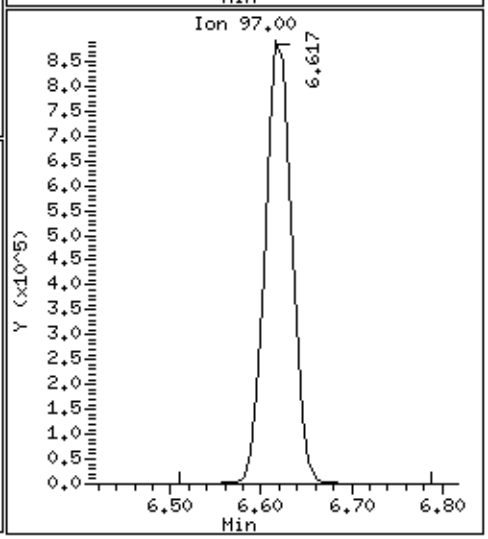












eurofins | Air Toxics

Client ID:	T1AMF-SV025_OCT24		
Lab ID:	2410702B-25A	**Date/Time Analyzed:**	11/11/24 07:13 PM
Date/Time Collected:	10/25/24 02:39 PM	**Dilution Factor:**	2.13
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111117

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.0	3.8	4.2	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.2	5.8	6.4	Not Detected U
Benzene	71-43-2	0.59	3.1	3.4	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.3	3.8	4.2	Not Detected U
Ethyl Benzene	100-41-4	1.8	4.2	4.6	Not Detected U
m,p-Xylene	108-38-3	1.6	4.2	9.2	Not Detected U
o-Xylene	95-47-6	1.6	4.2	4.6	Not Detected U
Toluene	108-88-3	0.88	3.6	8.0	1.2 J
trans-1,2-Dichloroethene	156-60-5	1.6	3.8	4.2	Not Detected U
Trichloroethene	79-01-6	0.84	5.2	5.7	2.5 J
Vinyl Chloride	75-01-4	1.3	2.4	2.7	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	91
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111117.d
Lab Smp Id: 2410702B-25A
Inj Date : 11-NOV-2024 19:13
Operator : MS Inst ID: msda.i
Smp Info : 200mL O0714
Misc Info : 6.5 Hg->9.8 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 10
Dil Factor: 2.13000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.435	5.428 (1.000)	130	243325	25.0000		80.00- 120.00	100.00
5.435	5.428 (1.000)	128	192694			46.45- 106.45	79.19
5.428	5.428 (1.000)	49	513825			167.12- 227.12	211.17
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	871172	25.0000		80.00- 120.00	100.00
6.416	6.409 (1.000)	88	142168			0.00- 46.36	16.32
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.152	9.146 (1.000)	117	833813	25.0000		80.00- 120.00	100.00
9.145	9.146 (1.000)	82	469982			27.12- 87.12	56.37
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.022	6.015 (1.108)	65	386205	22.8147	22.815	80.00- 120.00	100.00
6.022	6.015 (1.108)	67	189770			23.36- 83.36	49.14
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	917093	25.2484	25.248	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	105833			0.00- 41.92	11.54

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	625801			39.07- 99.07	68.24
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.291	10.292 (1.124)	174	512641	23.0554	23.055	80.00- 120.00	100.00
10.291	10.292 (1.124)	95	629175			89.27- 149.27	122.73
10.291	10.292 (1.124)	176	493777			66.29- 126.29	96.32
129 Trichloroethene					CAS #: 79-01-6		
6.624	6.617 (1.032)	95	3419	0.22218	0.4732	80.00- 120.00	100.00(a)
6.624	6.617 (1.032)	130	3328			67.98- 127.98	97.33
6.624	6.617 (1.032)	97	2155			34.45- 94.45	63.04
153 Toluene					CAS #: 108-88-3		
7.820	7.813 (1.219)	91	5790	0.14603	0.3110	80.00- 120.00	100.00(a)
7.820	7.813 (1.219)	92	3539			27.69- 87.69	61.12

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111117.d
Lab Smp Id: 2410702B-25A
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 6.5 Hg->9.8 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	243325	-8.24
126 1,4-Difluorobenze	973920	584352	1363488	871172	-10.55
165 Chlorobenzene-d5	894091	536455	1251727	833813	-6.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:42

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-25A
Level: LOW Operator: MS
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 6.5 Hg->9.8 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.815	91.26	70-130
$ 152 Toluene-d8	25.000	25.248	100.99	70-130
$ 191 4-Bromofluorobenz	25.000	23.055	92.22	70-130

Data File: /chem/msda.i/11NOV24.b/a111117.d

Page 1

Date : 11-NOV-2024 19:13

Client ID:

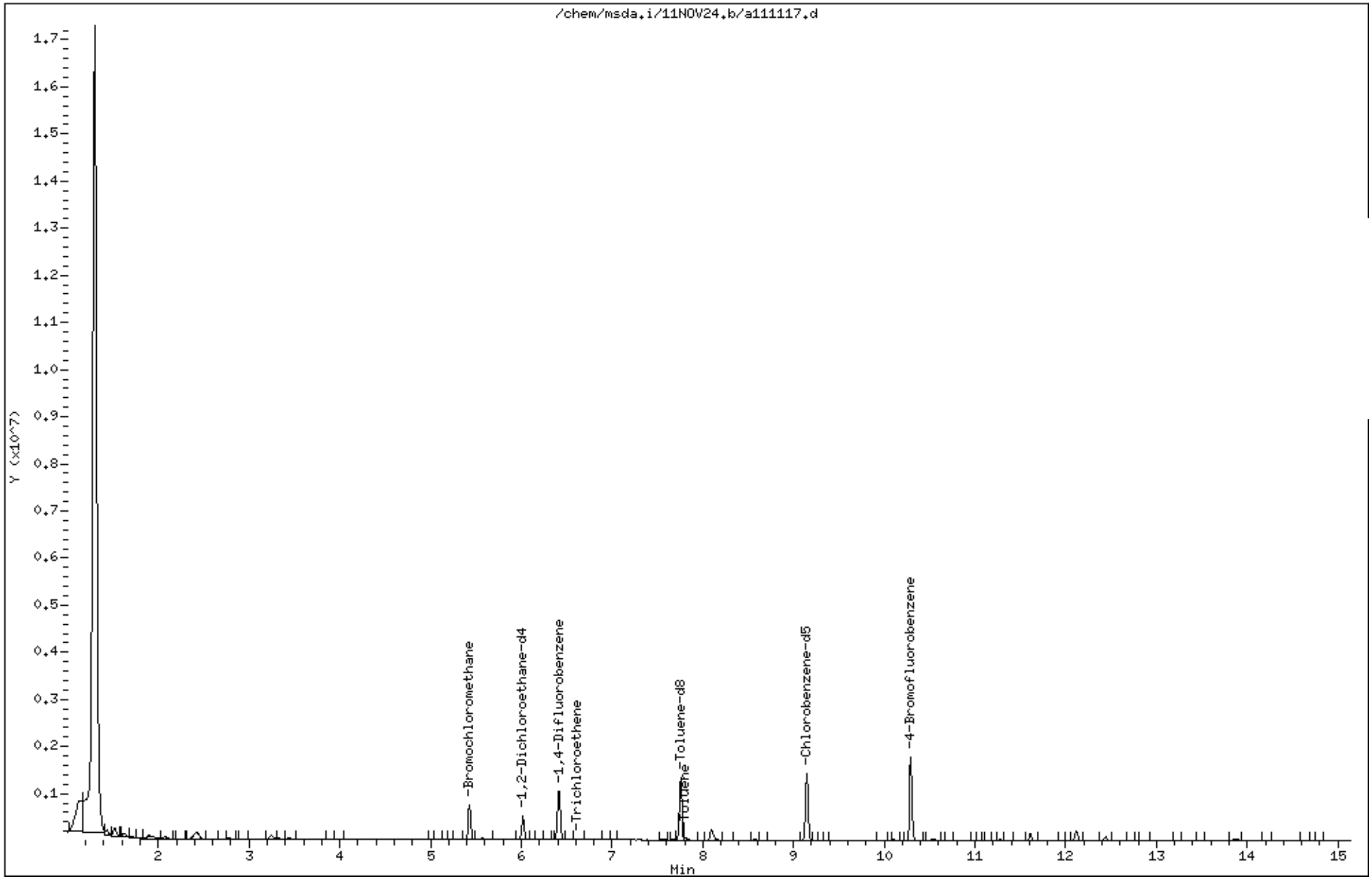
Instrument: msda.i

Sample Info: 200mL 00714

Operator: MS

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msda.i/11NOV24.b/a111117.d

Date : 11-NOV-2024 19:13

Client ID:

Instrument: msda.i

Sample Info: 200mL 00714

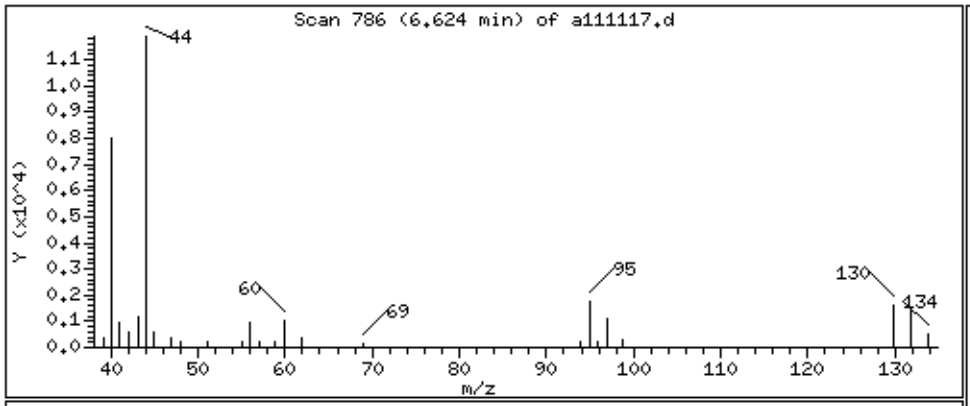
Operator: MS

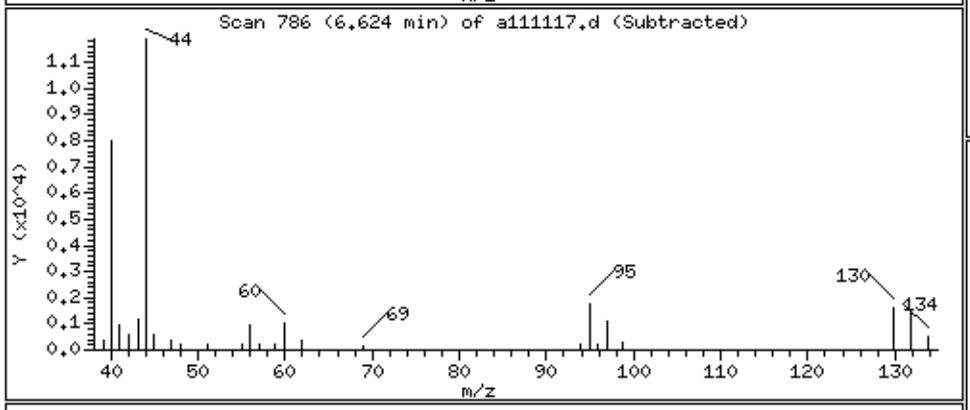
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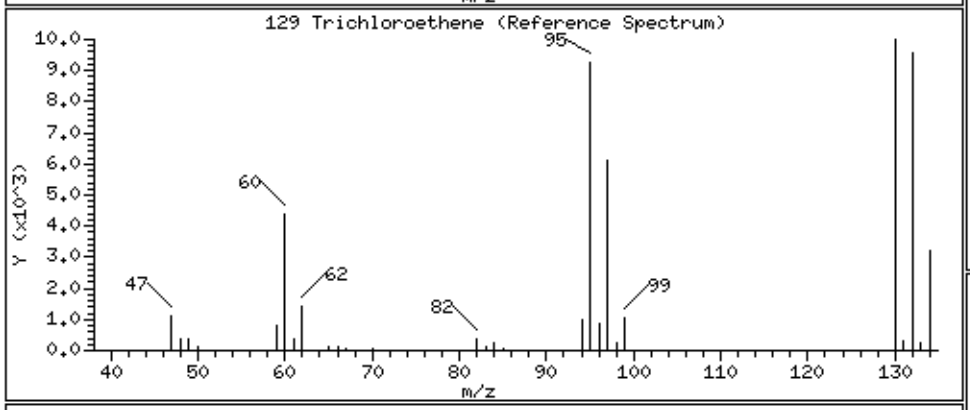
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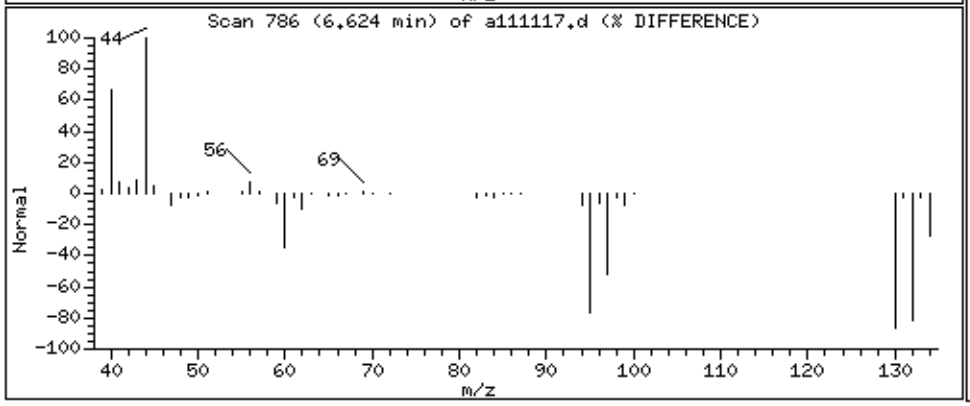
129 Trichloroethene

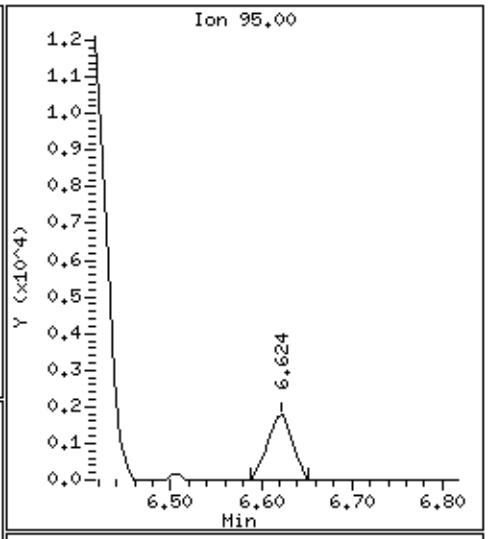
Concentration: 0.4732 PPBV

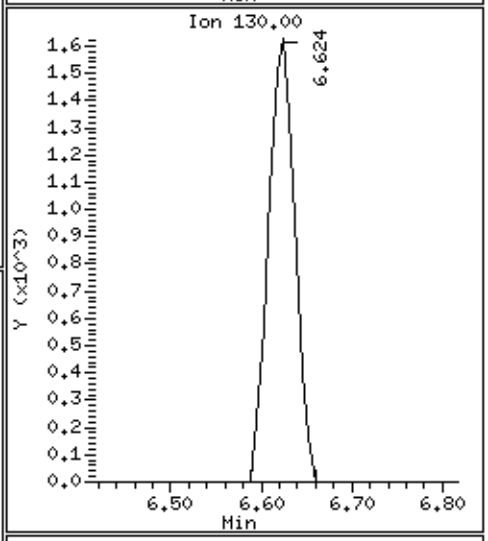


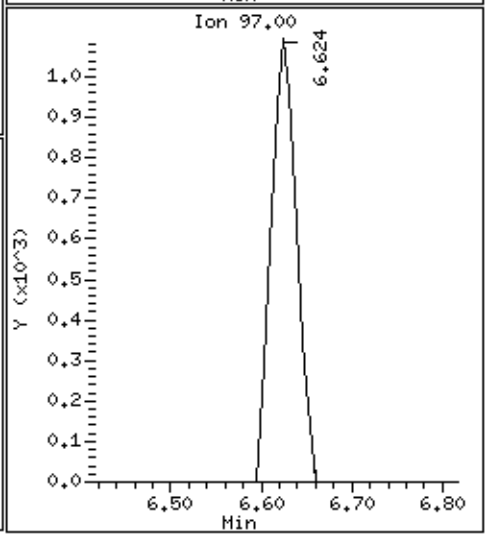












Data File: /chem/msda.i/11NOV24.b/a111117.d

Date : 11-NOV-2024 19:13

Client ID:

Instrument: msda.i

Sample Info: 200mL 00714

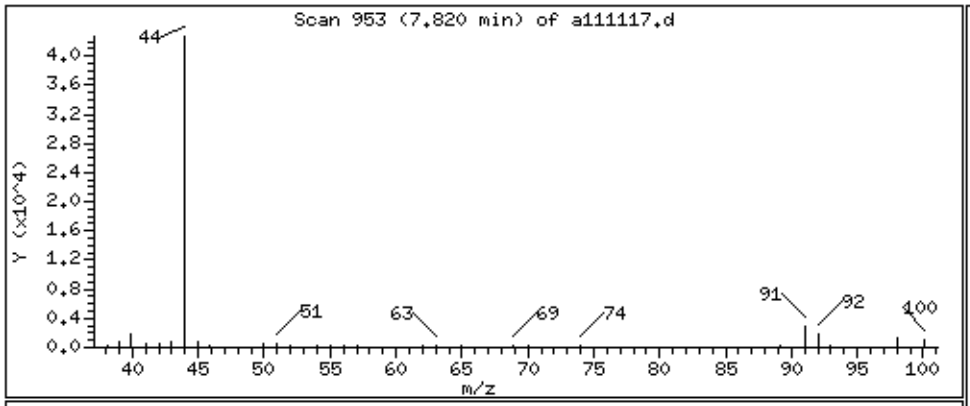
Operator: MS

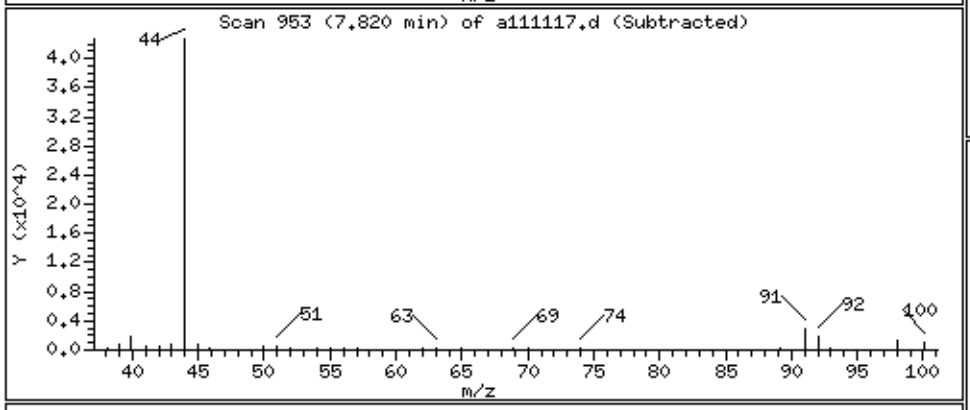
Column phase: RTX-624

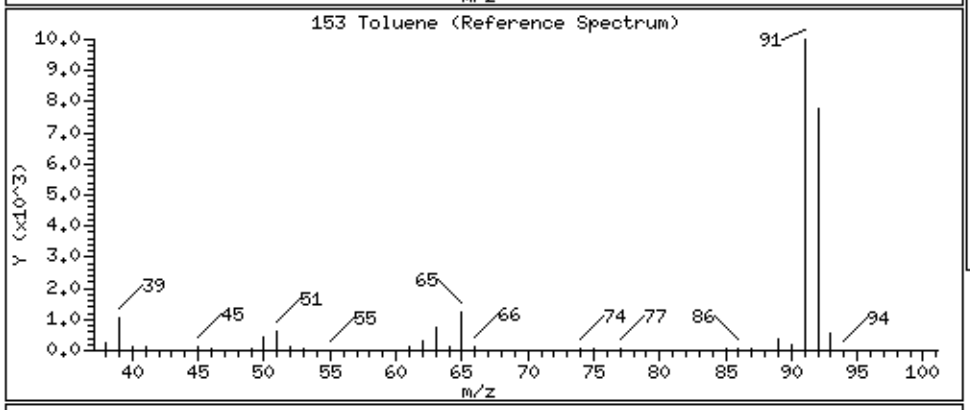
Column diameter: 0.25

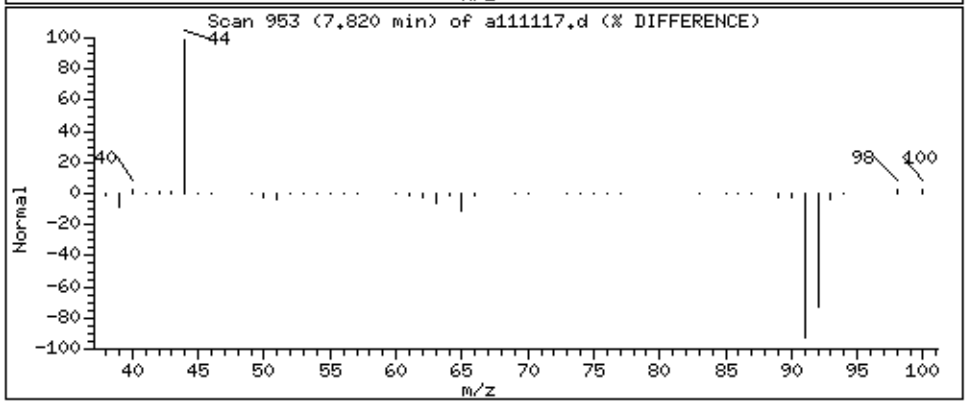
153 Toluene

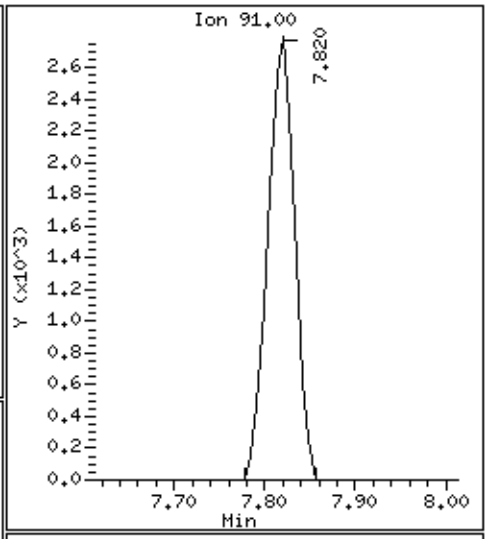
Concentration: 0.3110 PPBV

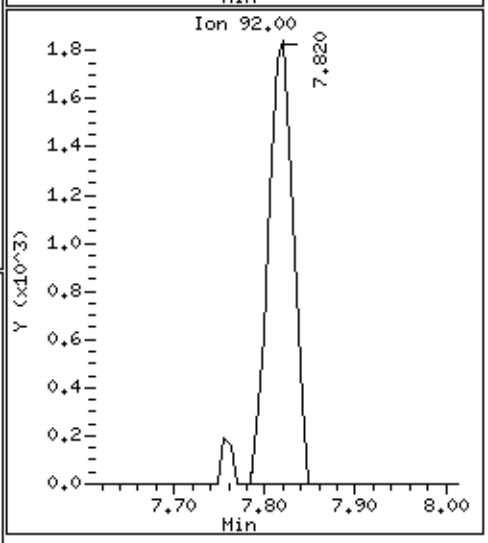












eurofins | Air Toxics

Client ID:	T1AMF-SV019_OCT24		
Lab ID:	2410702B-26A	**Date/Time Analyzed:**	11/11/24 07:50 PM
Date/Time Collected:	10/28/24 08:30 AM	**Dilution Factor:**	2.02
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111118

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.98	3.6	4.0	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.1	5.5	6.1	Not Detected U
Benzene	71-43-2	0.56	2.9	3.2	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.2	3.6	4.0	Not Detected U
Ethyl Benzene	100-41-4	1.7	3.9	4.4	Not Detected U
m,p-Xylene	108-38-3	1.6	3.9	8.8	2.8 J
o-Xylene	95-47-6	1.5	3.9	4.4	Not Detected U
Toluene	108-88-3	0.84	3.4	7.6	2.7 J
trans-1,2-Dichloroethene	156-60-5	1.5	3.6	4.0	Not Detected U
Trichloroethene	79-01-6	0.80	4.9	5.4	7.1
Vinyl Chloride	75-01-4	1.2	2.3	2.6	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	92
4-Bromofluorobenzene	460-00-4	70-130	93
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111118.d
Lab Smp Id: 2410702B-26A
Inj Date : 11-NOV-2024 19:50
Operator : MS Inst ID: msda.i
Smp Info : 200mL N6137
Misc Info : 5.3 Hg->9.8 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 11
Dil Factor: 2.02000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.435	5.428 (1.000)	130	239744	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	185031			46.45- 106.45	77.18
5.428	5.428 (1.000)	49	509604			167.12- 227.12	212.56
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.417	6.409 (1.000)	114	866613	25.0000		80.00- 120.00	100.00
6.417	6.409 (1.000)	88	139379			0.00- 46.36	16.08
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	814654	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	457850			27.12- 87.12	56.20
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.107)	65	384266	23.0392	23.039	80.00- 120.00	100.00
6.015	6.015 (1.107)	67	190200			23.36- 83.36	49.50
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	916148	25.3551	25.355	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	106551			0.00- 41.92	11.63

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	623677			39.07- 99.07	68.08
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	504601	23.2276	23.228	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	625458			89.27- 149.27	123.95
10.292	10.292 (1.125)	176	486367			66.29- 126.29	96.39
129 Trichloroethene					CAS #: 79-01-6		
6.624	6.617 (1.032)	95	10078	0.65835	1.330	80.00- 120.00	100.00
6.624	6.617 (1.032)	130	8826			67.98- 127.98	87.58
6.617	6.617 (1.031)	97	5735			34.45- 94.45	56.91
153 Toluene					CAS #: 108-88-3		
7.821	7.813 (1.219)	91	14125	0.35813	0.7234	80.00- 120.00	100.00(a)
7.813	7.813 (1.218)	92	7604			27.69- 87.69	53.83
173 m,p-Xylene					CAS #: 108-38-3		
9.361	9.360 (1.023)	106	6839	0.32421	0.6549	80.00- 120.00	100.00(a)
9.361	9.360 (1.023)	91	14164			176.41- 236.41	207.10

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111118.d
Lab Smp Id: 2410702B-26A
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 5.3 Hg->9.8 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	239744	-9.59
126 1,4-Difluorobenze	973920	584352	1363488	866613	-11.02
165 Chlorobenzene-d5	894091	536455	1251727	814654	-8.88

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.44	0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:34

US32TAR1

RECOVERY REPORT

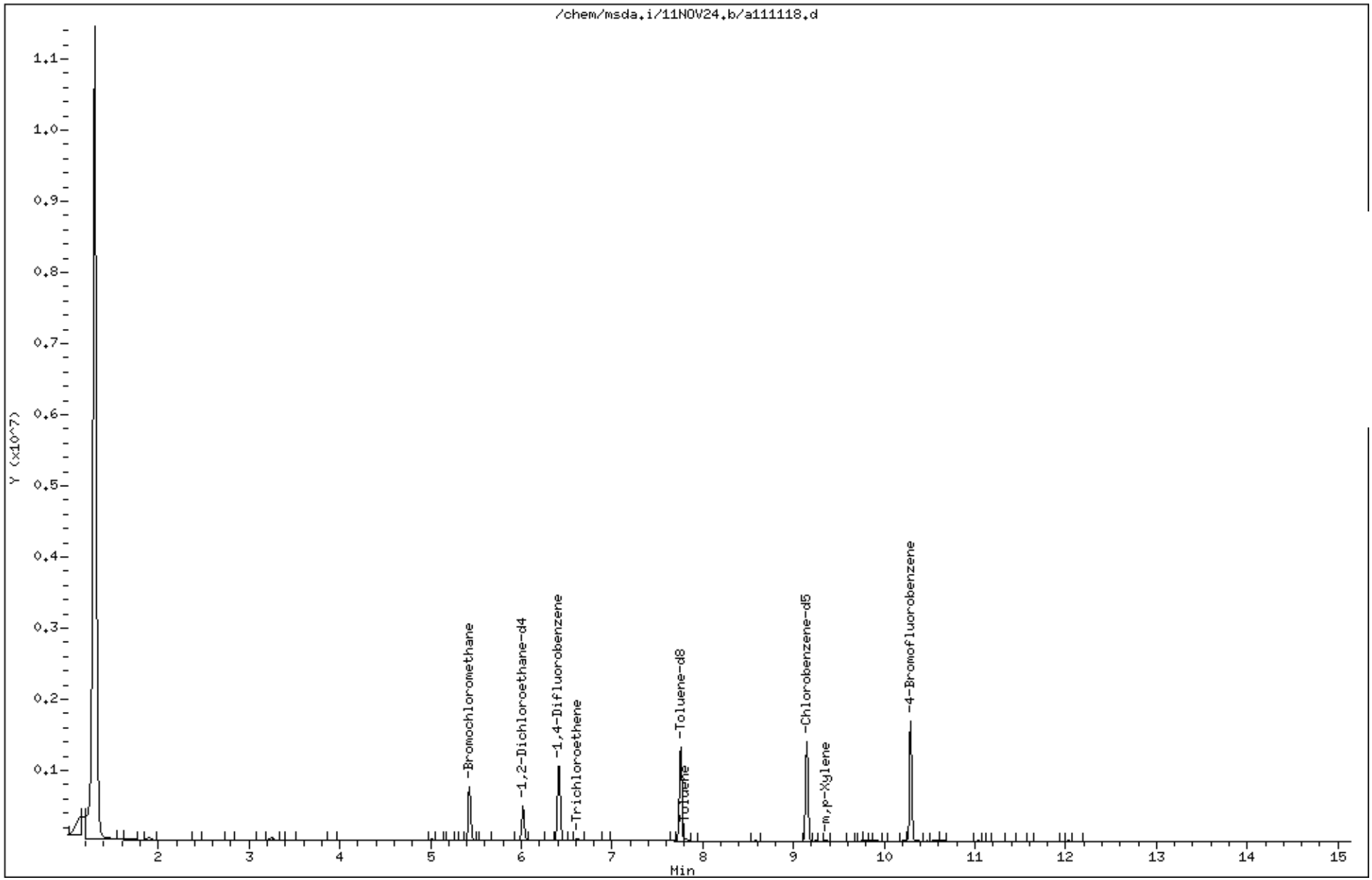
Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-26A
Level: LOW Operator: MS
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 5.3 Hg->9.8 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	23.039	92.16	70-130
$ 152 Toluene-d8	25.000	25.355	101.42	70-130
$ 191 4-Bromofluorobenz	25.000	23.228	92.91	70-130

Data File: /chem/msda.i/11NOV24.b/a111118.d
Date : 11-NOV-2024 19:50
Client ID:
Sample Info: 200mL N6137

Instrument: msda.i
Operator: MS
Column diameter: 0.25

Column phase: RTX-624



Data File: /chem/msda.i/11NOV24.b/a111118.d

Date : 11-NOV-2024 19:50

Client ID:

Instrument: msda.i

Sample Info: 200mL N6137

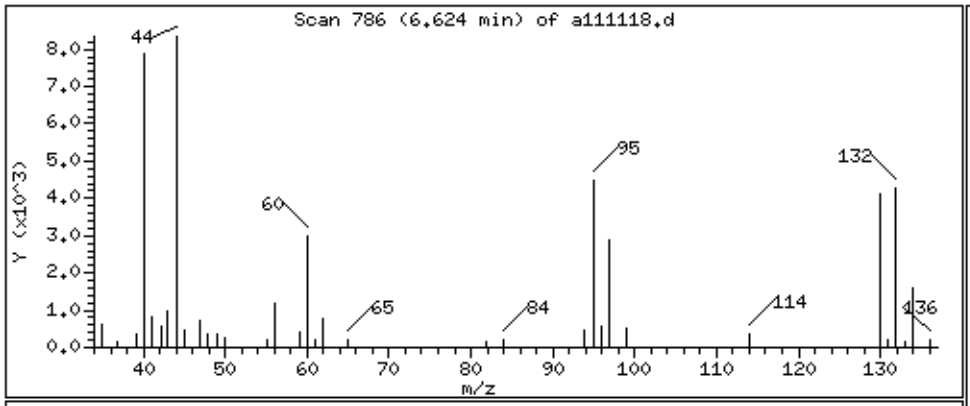
Operator: MS

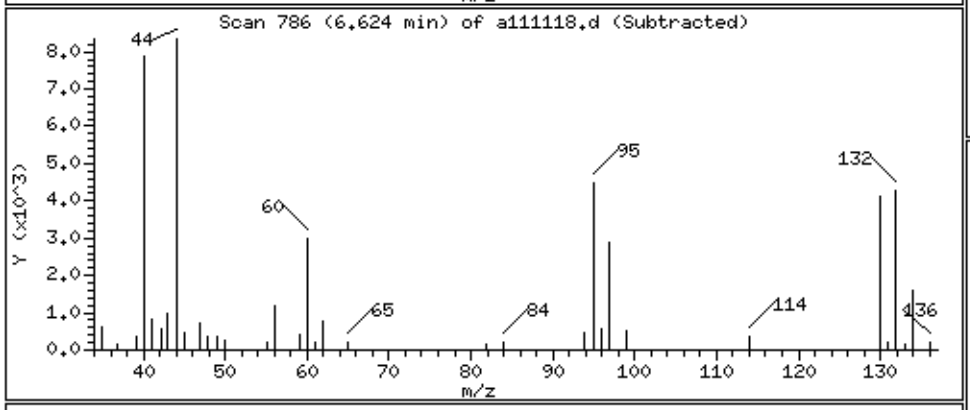
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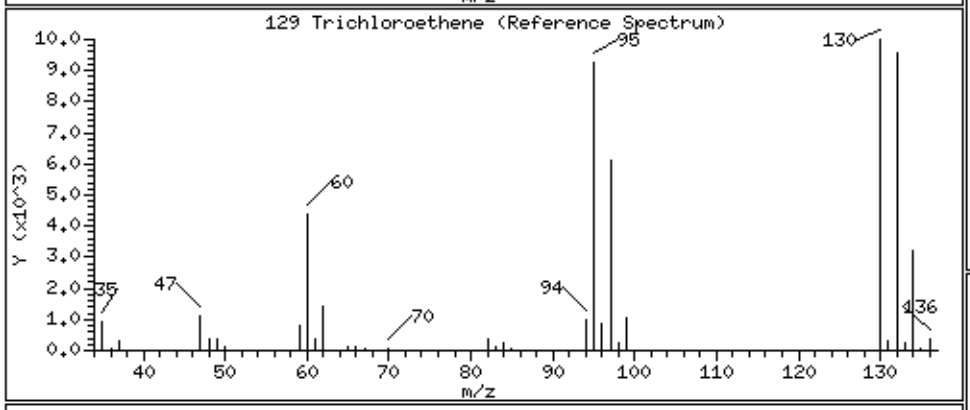
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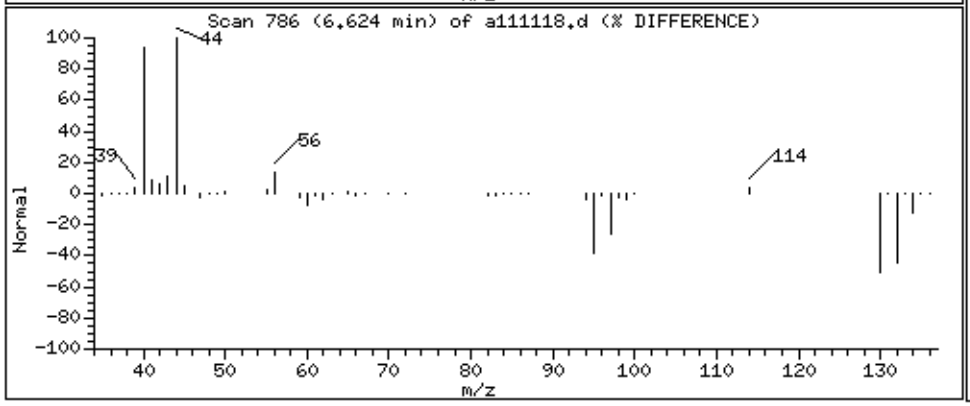
129 Trichloroethene

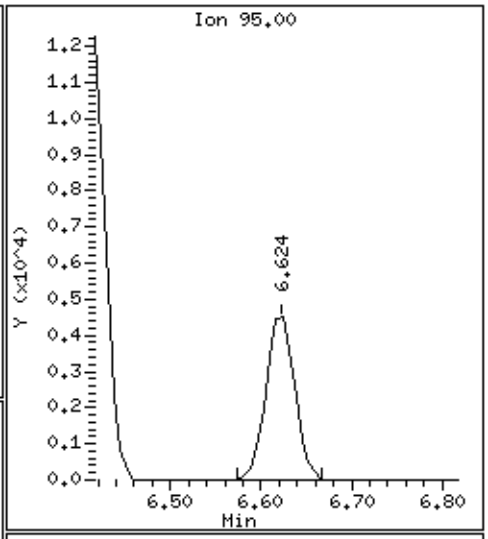
Concentration: 1.330 PPBV

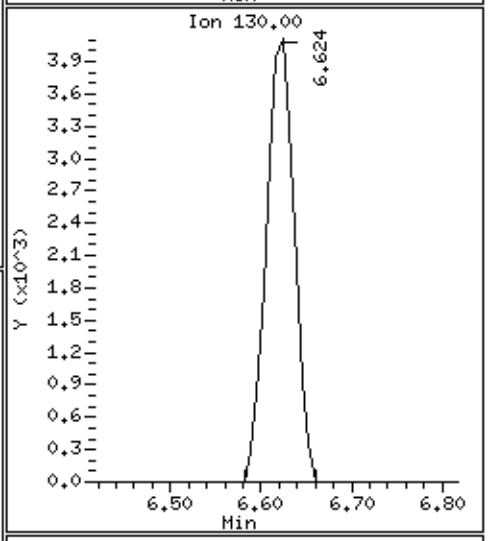


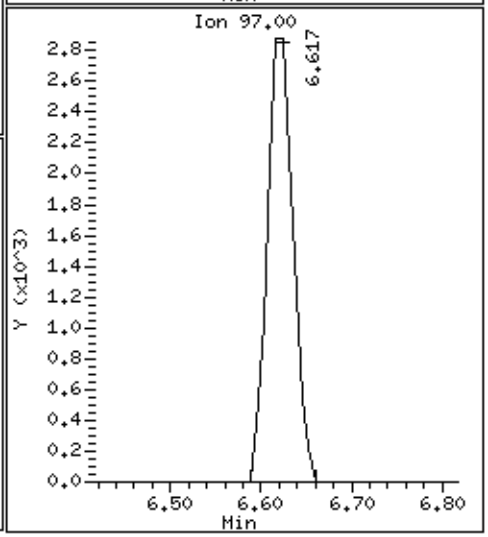












Data File: /chem/msda.i/11NOV24.b/a111118.d

Date : 11-NOV-2024 19:50

Client ID:

Instrument: msda.i

Sample Info: 200mL N6137

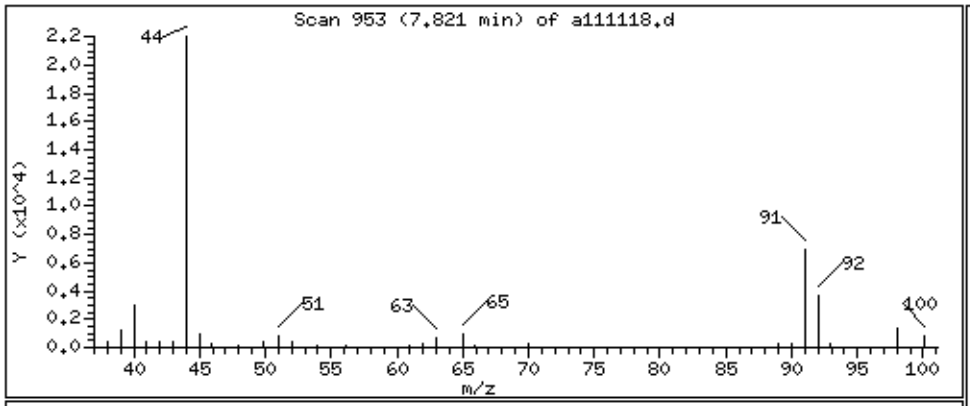
Operator: MS

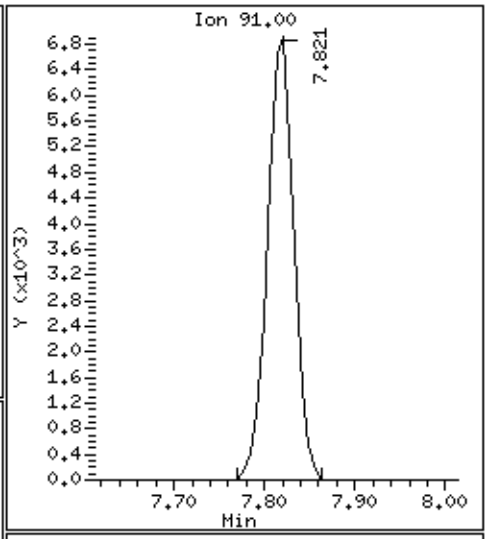
Column phase: RTX-624

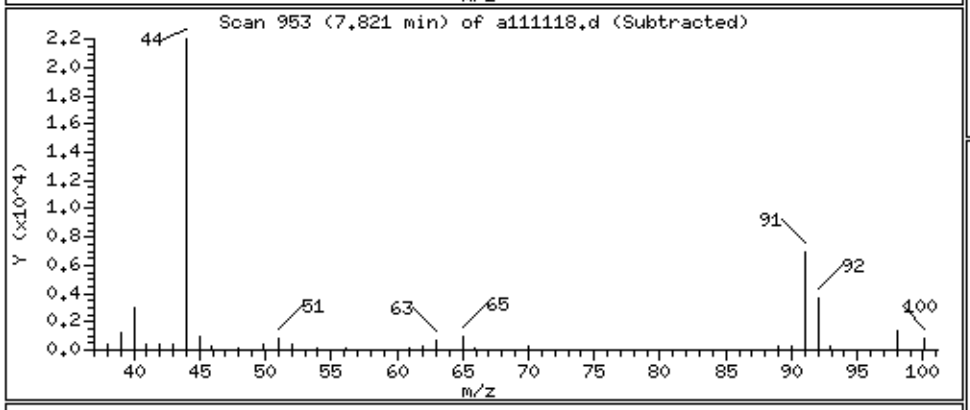
Column diameter: 0.25

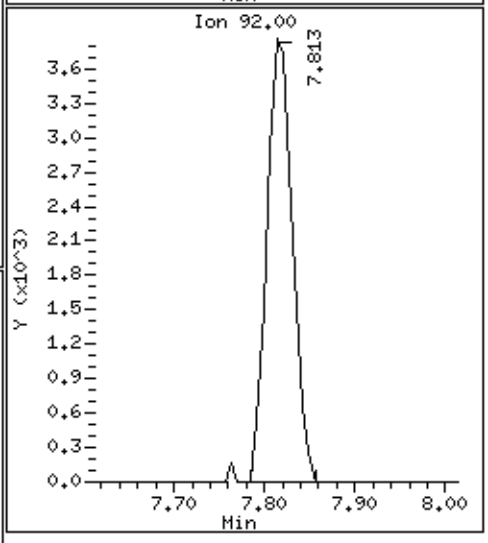
153 Toluene

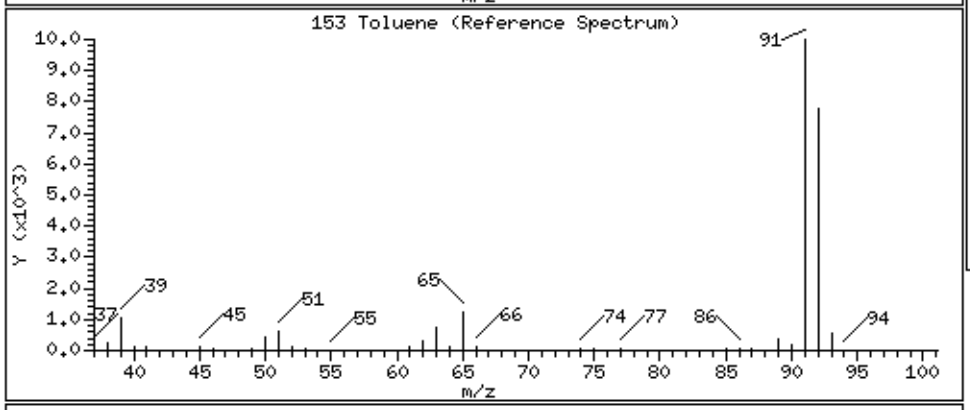
Concentration: 0.7234 PPBV

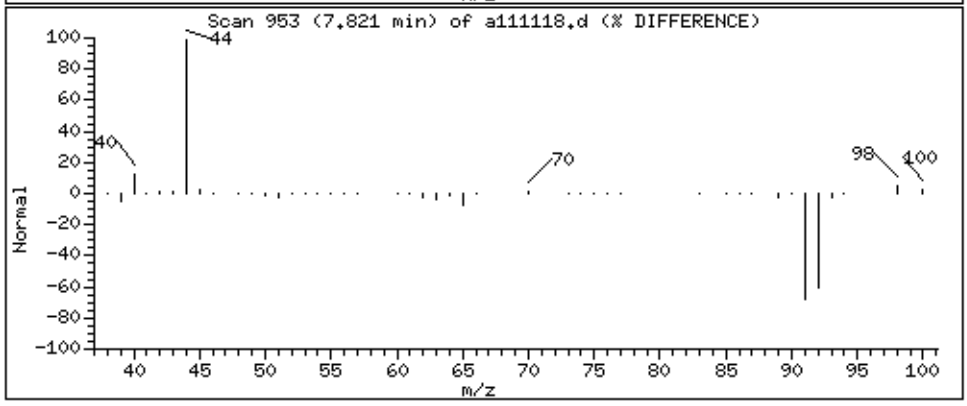












Data File: /chem/msda.i/11NOV24.b/a111118.d

Date : 11-NOV-2024 19:50

Client ID:

Instrument: msda.i

Sample Info: 200mL N6137

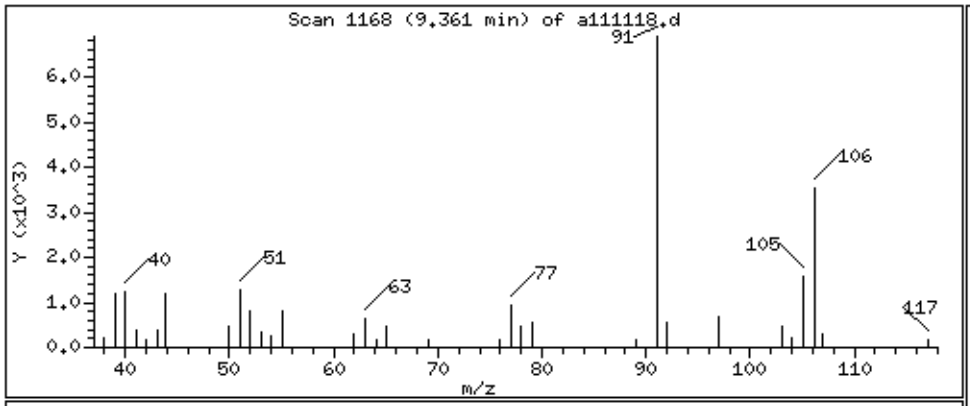
Operator: MS

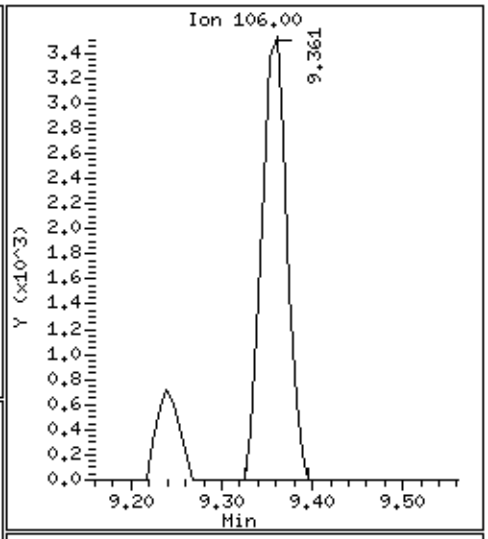
Column phase: RTX-624

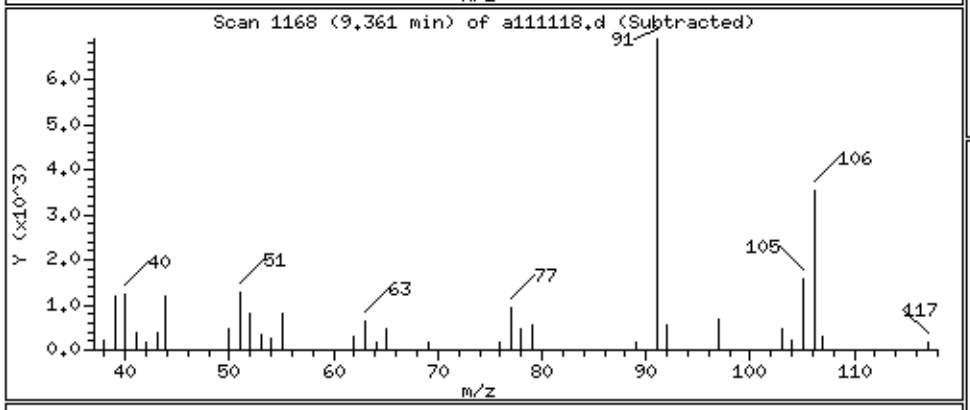
Column diameter: 0.25

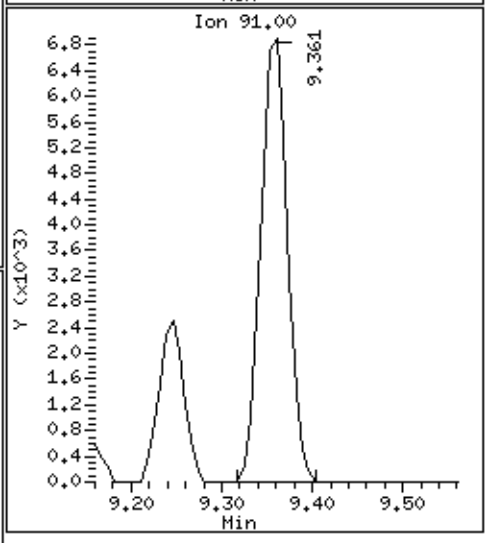
173 m,p-Xylene

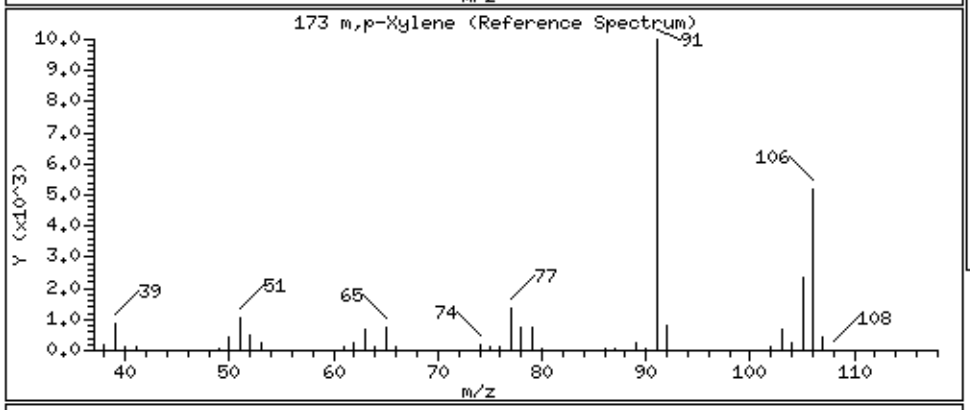
Concentration: 0.6549 PPBV

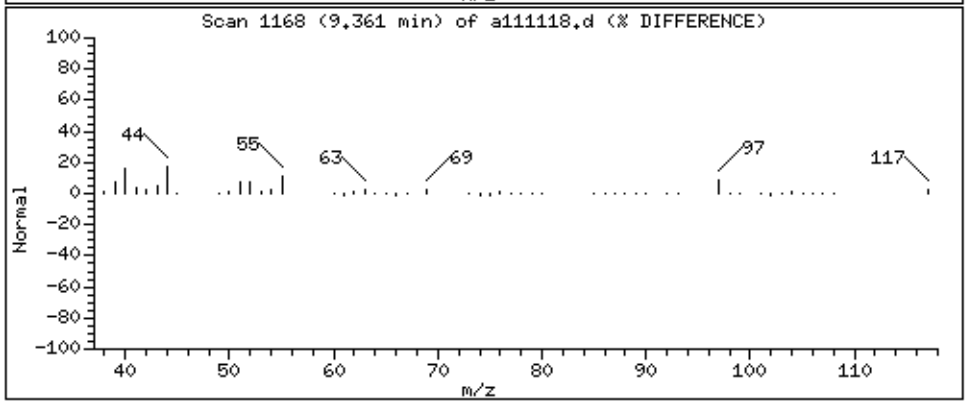












eurofins | Air Toxics

Client ID:	T1AMF-SV004_OCT24		
Lab ID:	2410702B-27A	**Date/Time Analyzed:**	11/11/24 10:58 PM
Date/Time Collected:	10/28/24 09:40 AM	**Dilution Factor:**	2.34
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111120

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.1	4.2	4.6	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.4	6.3	7.0	Not Detected U
Benzene	71-43-2	0.65	3.4	3.7	1.6 J
cis-1,2-Dichloroethene	156-59-2	1.4	4.2	4.6	Not Detected U
Ethyl Benzene	100-41-4	1.9	4.6	5.1	Not Detected U
m,p-Xylene	108-38-3	1.8	4.6	10	4.3 J
o-Xylene	95-47-6	1.8	4.6	5.1	1.8 J
Toluene	108-88-3	0.97	4.0	8.8	9.6
trans-1,2-Dichloroethene	156-60-5	1.8	4.2	4.6	Not Detected U
Trichloroethene	79-01-6	0.92	5.6	6.3	Not Detected U
Vinyl Chloride	75-01-4	1.4	2.7	3.0	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	92
4-Bromofluorobenzene	460-00-4	70-130	91
Toluene-d8	2037-26-5	70-130	103

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111120.d
Lab Smp Id: 2410702B-27A Client Smp ID: 2410702B-27A
Inj Date : 11-NOV-2024 22:58
Operator : AB Inst ID: msda.i
Smp Info : 200mL B2153
Misc Info : 8.6 Hg->9.9 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 1
Dil Factor: 2.34000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	=======	==========	=====
* 100 Bromochloromethane						CAS #: 74-97-5		
5.428	5.428 (1.000)	130	242575	25.0000			80.00- 120.00	100.00
5.428	5.428 (1.000)	128	186858				46.45- 106.45	77.03
5.428	5.428 (1.000)	49	521328				167.12- 227.12	214.91
* 126 1,4-Difluorobenzene						CAS #: 540-36-3		
6.417	6.409 (1.000)	114	870534	25.0000			80.00- 120.00	100.00
6.409	6.409 (1.000)	88	142489				0.00- 46.36	16.37
* 165 Chlorobenzene-d5						CAS #: 3114-55-4		
9.153	9.146 (1.000)	117	826792	25.0000			80.00- 120.00	100.00
9.146	9.146 (1.000)	82	464687				27.12- 87.12	56.20
$ 119 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	390577	23.1443	23.144		80.00- 120.00	100.00
6.015	6.015 (1.108)	67	187947				23.36- 83.36	48.12
$ 152 Toluene-d8						CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	936654	25.8058	25.806		80.00- 120.00	100.00
7.756	7.756 (1.209)	70	111226				0.00- 41.92	11.87

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	625067			39.07- 99.07	66.73
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.124)	174	500787	22.7136	22.714	80.00- 120.00	100.00
10.292	10.292 (1.124)	95	625001			89.27- 149.27	124.80
10.292	10.292 (1.124)	176	485166			66.29- 126.29	96.88
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.933)	78	6364	0.21100	0.4937	80.00- 120.00	100.00(a)
5.994	5.987 (0.934)	77	1506			0.00- 53.99	23.68
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.218)	91	43089	1.08757	2.545	80.00- 120.00	100.00
7.813	7.813 (1.218)	92	24801			27.69- 87.69	57.56
173 m,p-Xylene					CAS #: 108-38-3		
9.353	9.360 (1.022)	106	8981	0.41951	0.9816	80.00- 120.00	100.00(a)
9.361	9.360 (1.023)	91	19864			176.41- 236.41	221.18
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	3548	0.17714	0.4145	80.00- 120.00	100.00(aQ)
9.747	9.747 (1.065)	91	6544			186.60- 246.60	184.43

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111120.d
Lab Smp Id: 2410702B-27A
Analysis Type: VOA
Quant Type: ISTD
Operator: AB
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 8.6 Hg->9.9 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Client Smp ID: 2410702B-27A
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	242575	-8.52
126 1,4-Difluorobenze	973920	584352	1363488	870534	-10.62
165 Chlorobenzene-d5	894091	536455	1251727	826792	-7.53

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:35

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-27A Client Smp ID: 2410702B-27A
Level: LOW Operator: AB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 8.6 Hg->9.9 psi

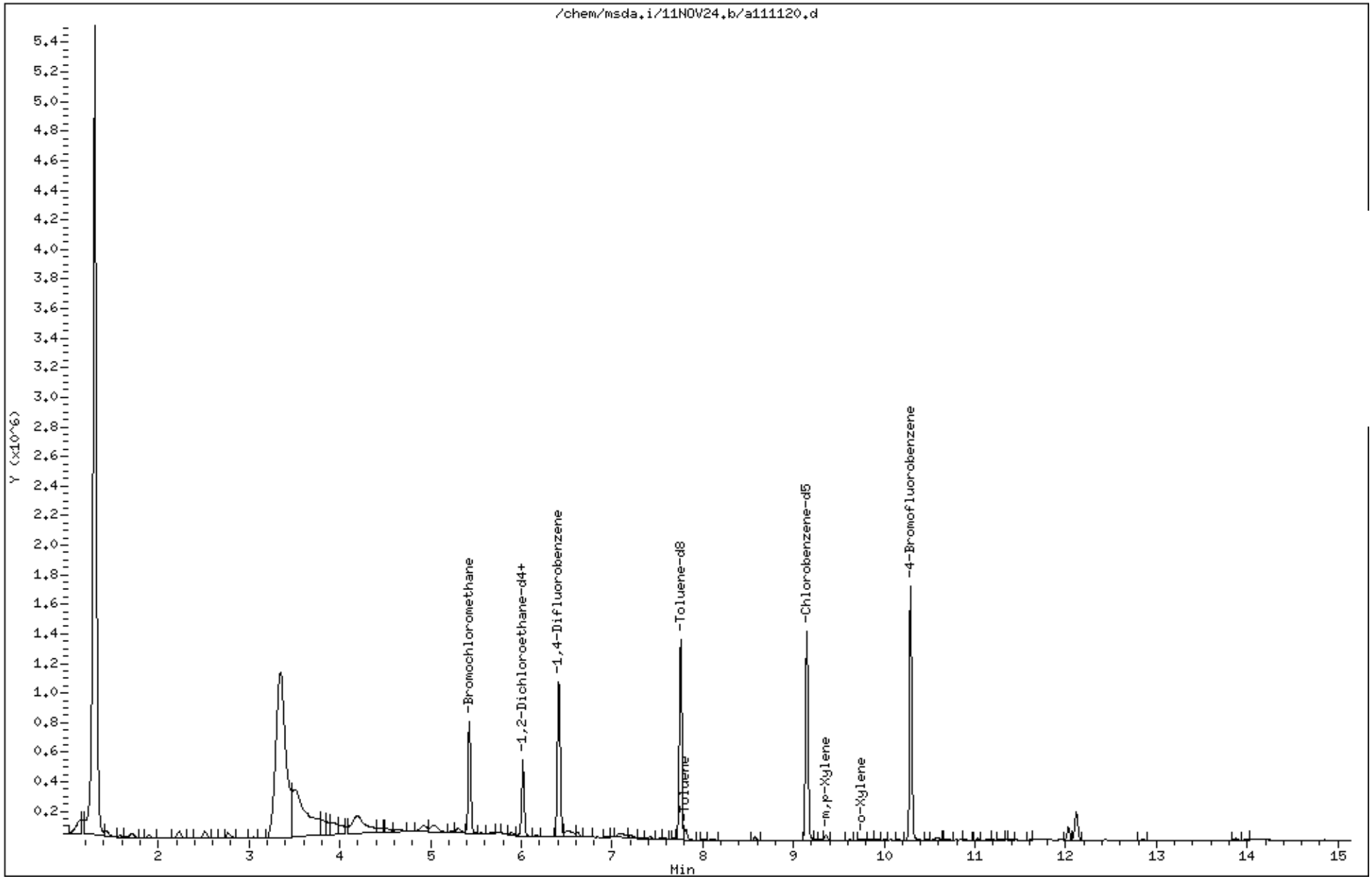
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	23.144	92.58	70-130
$ 152 Toluene-d8	25.000	25.806	103.22	70-130
$ 191 4-Bromofluorobenz	25.000	22.714	90.85	70-130

Data File: /chem/msda.i/11NOV24.b/a111120.d
Date : 11-NOV-2024 22:58
Client ID: 2410702B-27A
Sample Info: 200mL B2153

Instrument: msda.i

Operator: AB
Column diameter: 0.25

Column phase: RTX-624



Data File: /chem/msda.i/11NOV24.b/a111120.d

Date : 11-NOV-2024 22:58

Client ID: 2410702B-27A

Instrument: msda.i

Sample Info: 200mL B2153

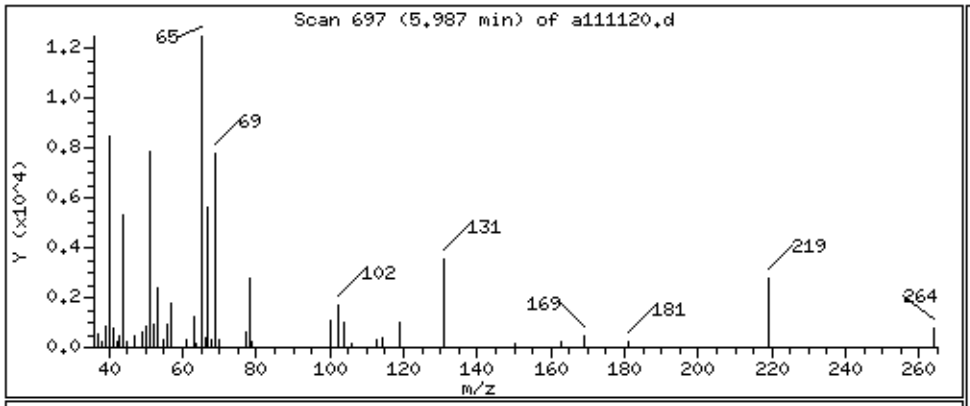
Operator: AB

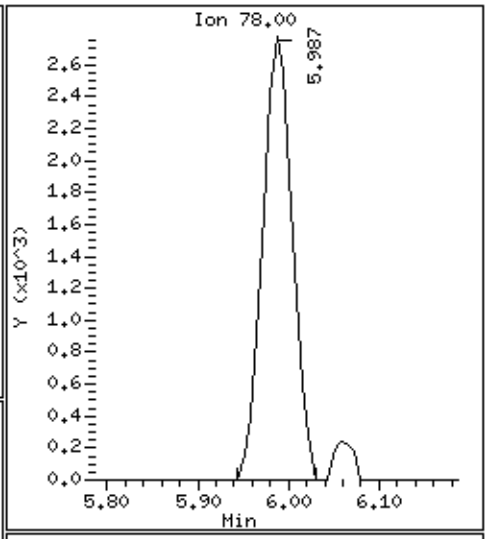
Column phase: RTX-624

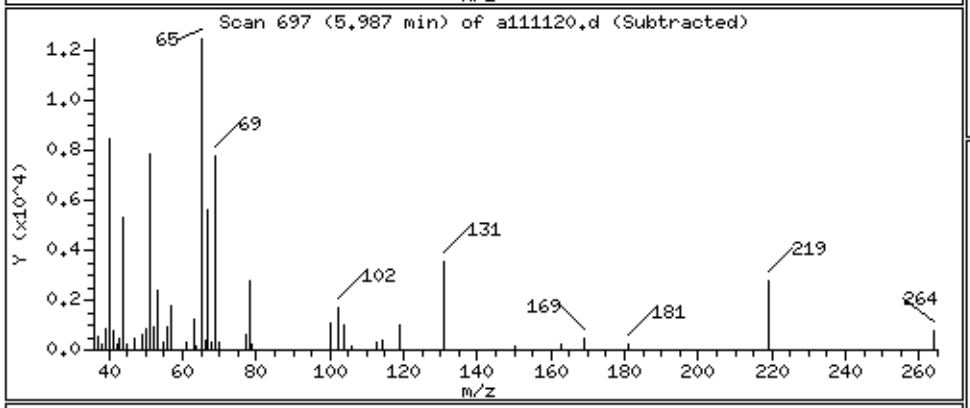
Column diameter: 0.25

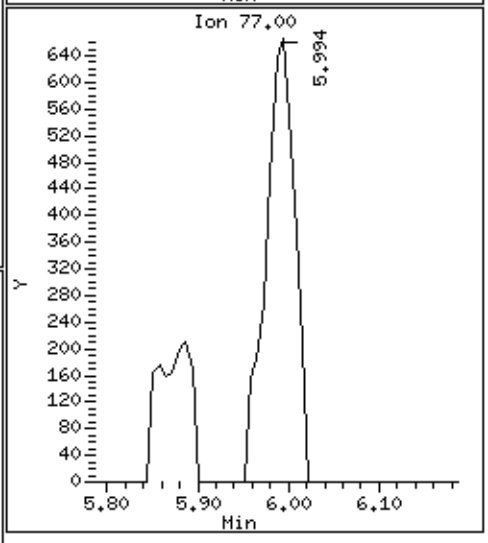
118 Benzene

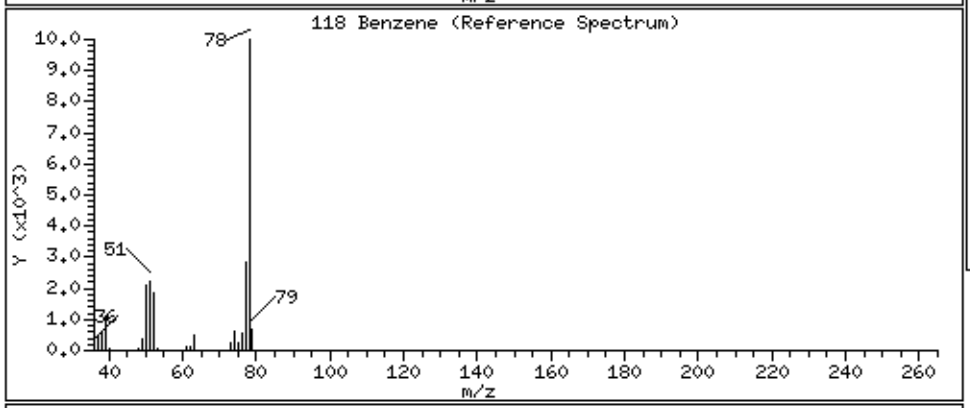
Concentration: 0.4937 PPBV

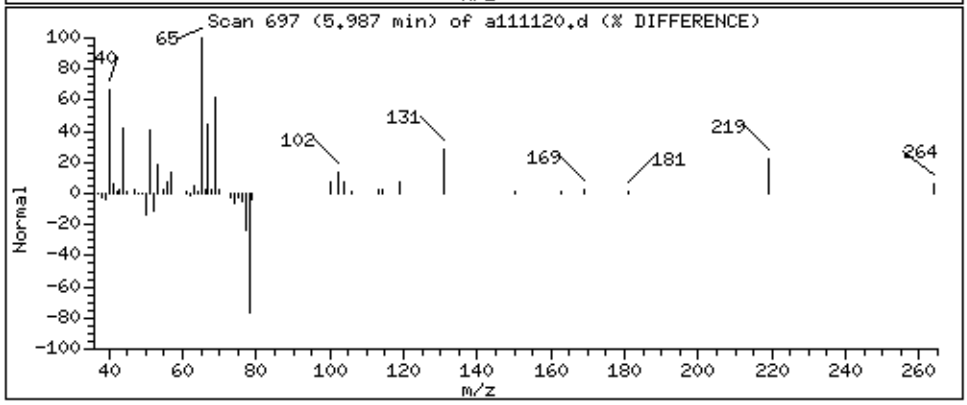












Data File: /chem/msda.i/11NOV24.b/a111120.d

Date : 11-NOV-2024 22:58

Client ID: 2410702B-27A

Instrument: msda.i

Sample Info: 200mL B2153

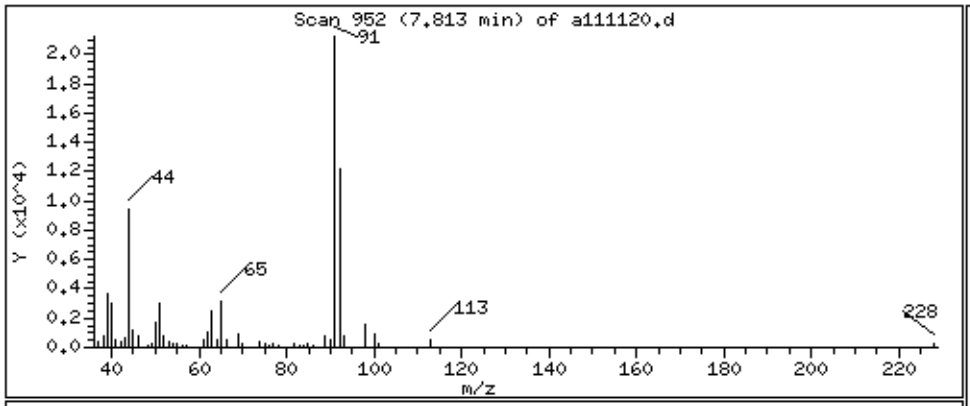
Operator: AB

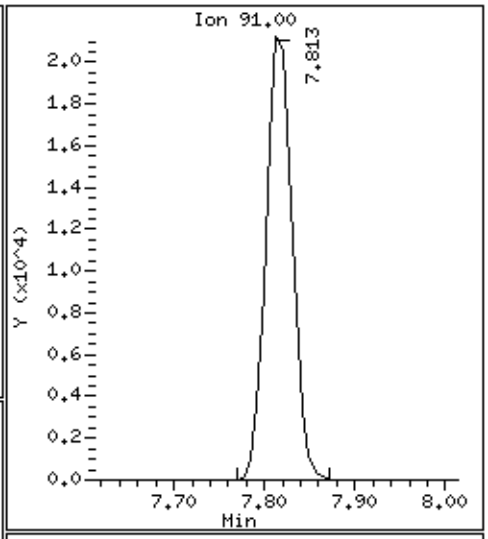
Column phase: RTX-624

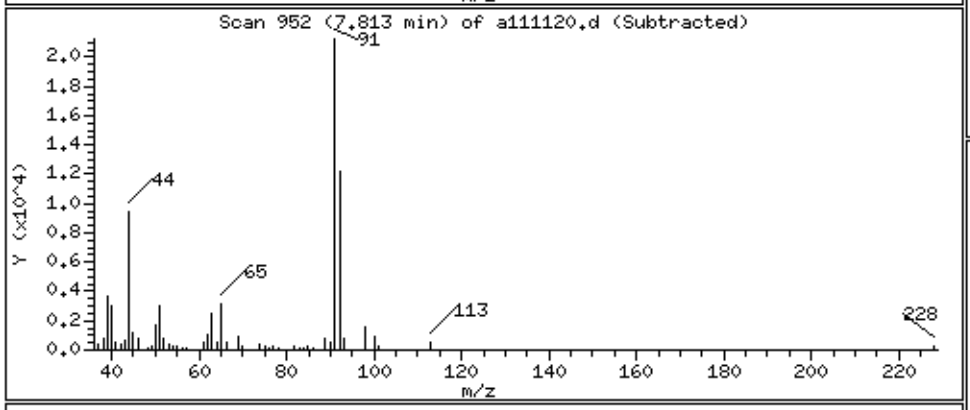
Column diameter: 0.25

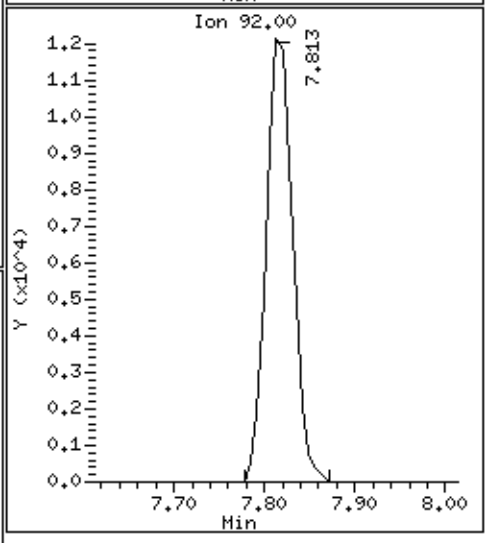
153 Toluene

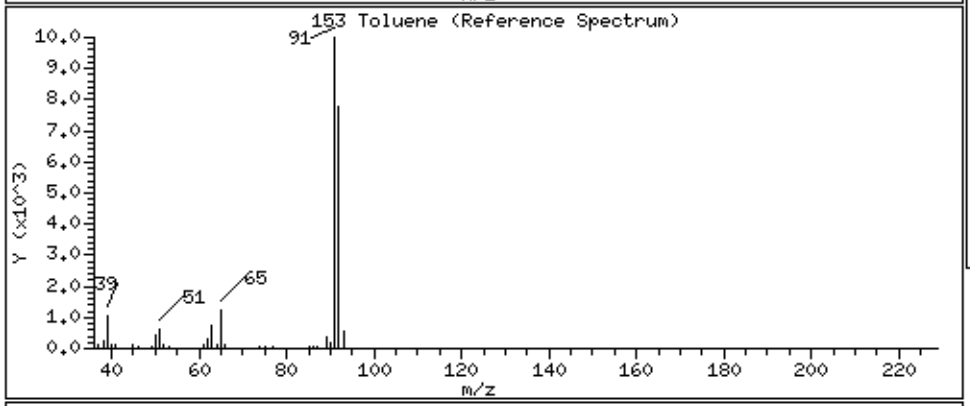
Concentration: 2.545 PPBV

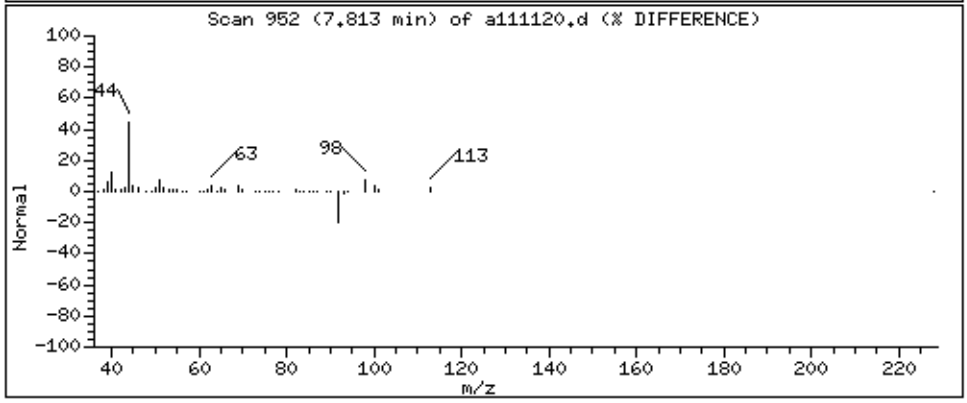












Data File: /chem/msda.i/11NOV24.b/a111120.d

Date : 11-NOV-2024 22:58

Client ID: 2410702B-27A

Instrument: msda.i

Sample Info: 200mL B2153

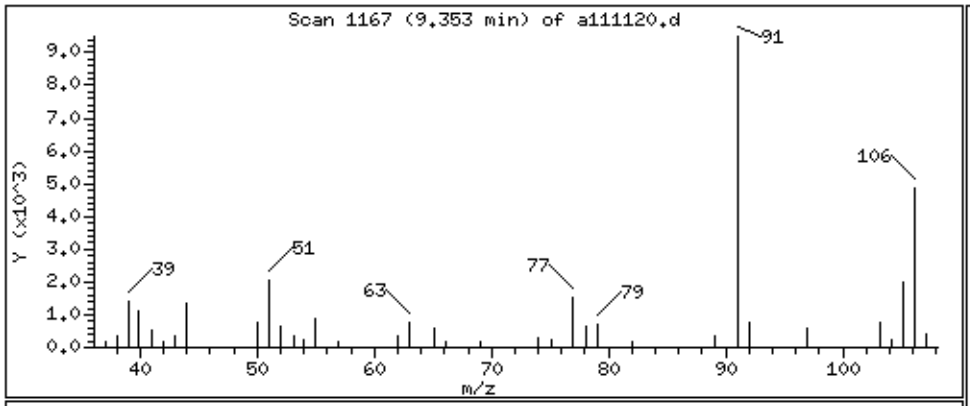
Operator: AB

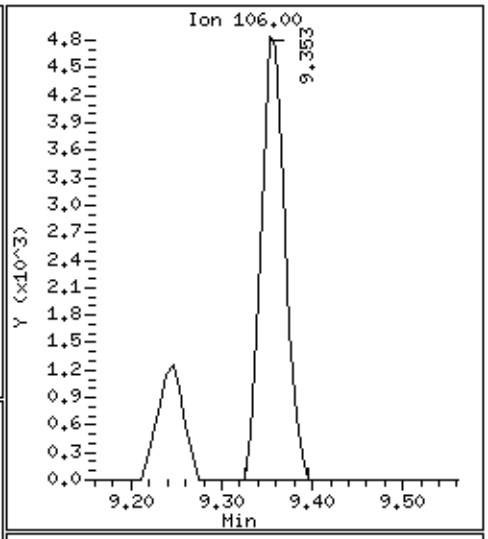
Column phase: RTX-624

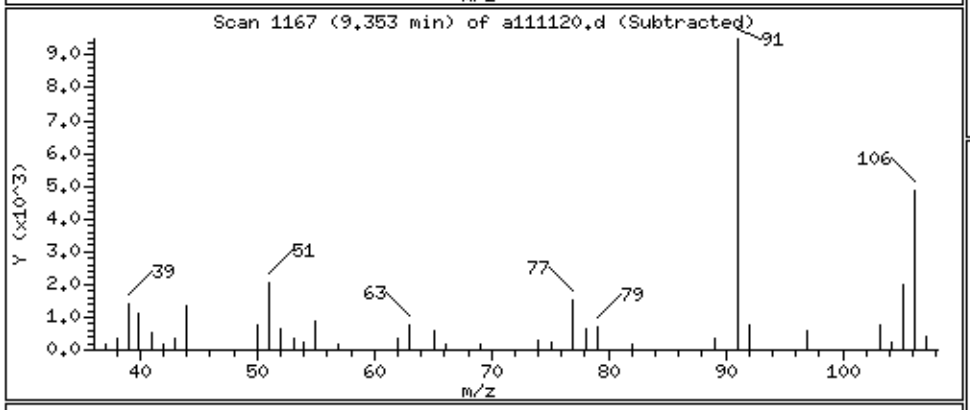
Column diameter: 0.25

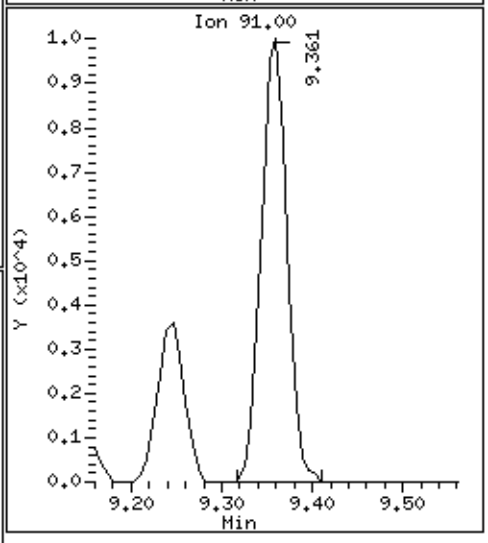
173 m,p-Xylene

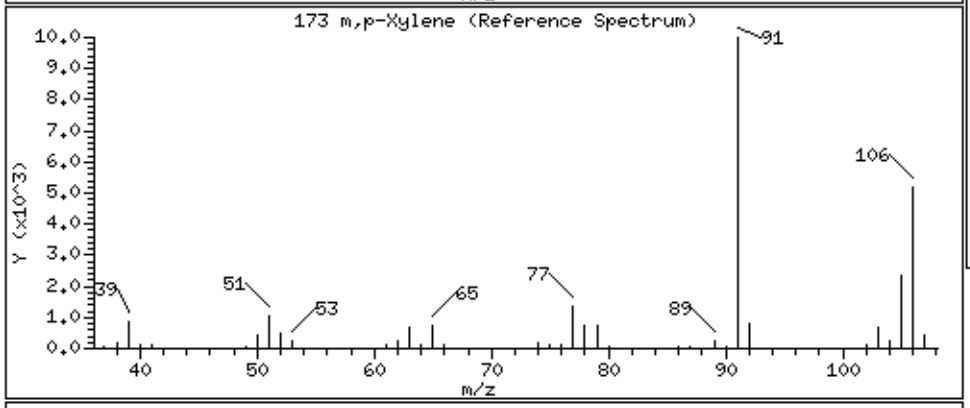
Concentration: 0.9816 PPBV

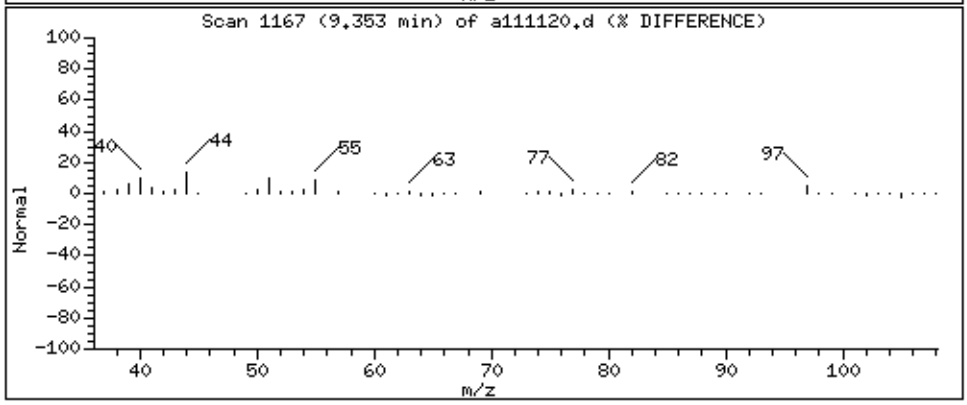












Data File: /chem/msda.i/11NOV24.b/a111120.d

Date : 11-NOV-2024 22:58

Client ID: 2410702B-27A

Instrument: msda.i

Sample Info: 200mL B2153

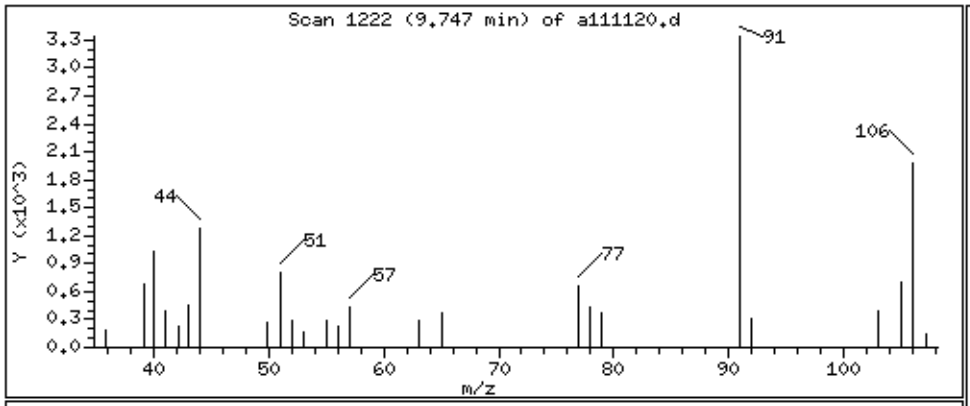
Operator: AB

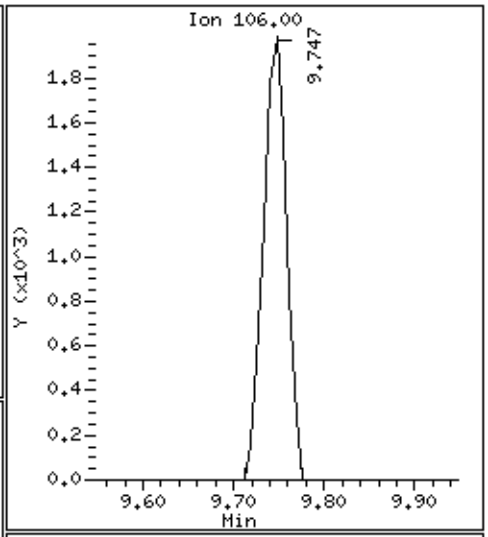
Column phase: RTX-624

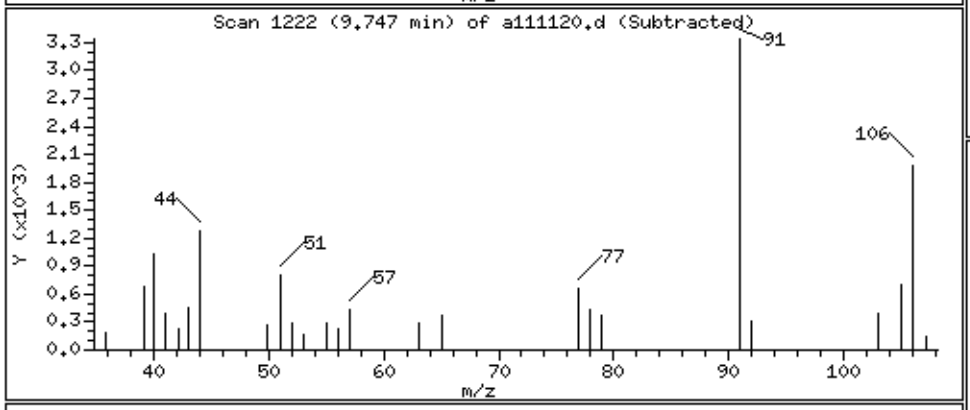
Column diameter: 0.25

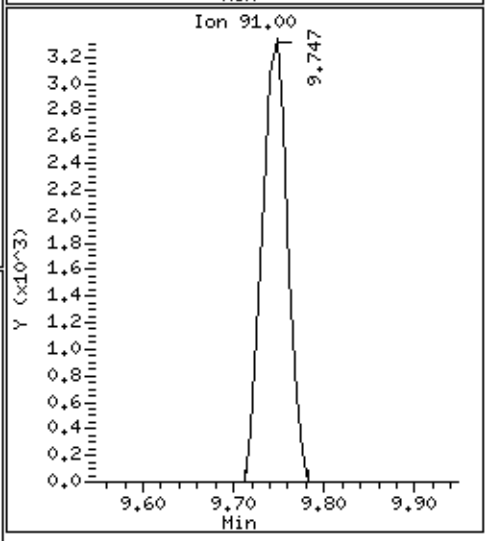
176 o-Xylene

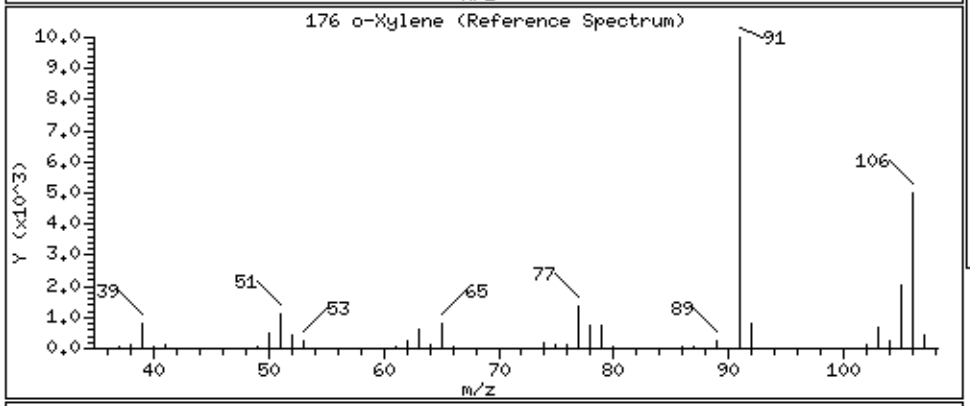
Concentration: 0.4145 PPBV

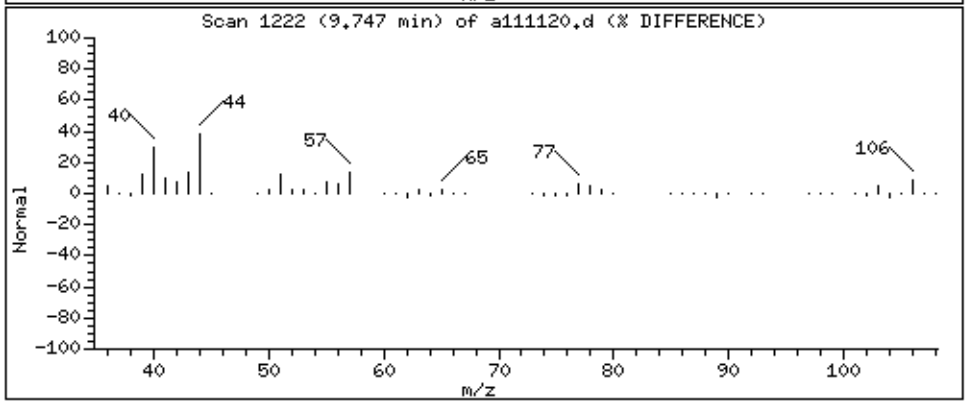












eurofins | Air Toxics

Client ID:	T1AMF-SV09B_OCT24		
Lab ID:	2410702B-28A	**Date/Time Analyzed:**	11/11/24 11:35 PM
Date/Time Collected:	10/28/24 10:47 AM	**Dilution Factor:**	2.17
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111121

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.0	3.9	4.3	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.2	5.9	6.5	Not Detected U
Benzene	71-43-2	0.60	3.1	3.5	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.3	3.9	4.3	Not Detected U
Ethyl Benzene	100-41-4	1.8	4.2	4.7	Not Detected U
m,p-Xylene	108-38-3	1.7	4.2	9.4	1.8 J
o-Xylene	95-47-6	1.6	4.2	4.7	Not Detected U
Toluene	108-88-3	0.90	3.7	8.2	1.6 J
trans-1,2-Dichloroethene	156-60-5	1.6	3.9	4.3	Not Detected U
Trichloroethene	79-01-6	0.85	5.2	5.8	3.1 J
Vinyl Chloride	75-01-4	1.3	2.5	2.8	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	95
4-Bromofluorobenzene	460-00-4	70-130	93
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111121.d
Lab Smp Id: 2410702B-28A Client Smp ID: 2410702B-28A
Inj Date : 11-NOV-2024 23:35
Operator : AB Inst ID: msda.i
Smp Info : 200mL N2627
Misc Info : 6.7 Hg->10.1 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 2
Dil Factor: 2.17000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	=======	==========	=====
* 100 Bromochloromethane						CAS #: 74-97-5		
5.428	5.428 (1.000)	130	233766	25.0000			80.00- 120.00	100.00
5.428	5.428 (1.000)	128	186832				46.45- 106.45	79.92
5.428	5.428 (1.000)	49	504665				167.12- 227.12	215.88
* 126 1,4-Difluorobenzene						CAS #: 540-36-3		
6.417	6.409 (1.000)	114	863098	25.0000			80.00- 120.00	100.00
6.417	6.409 (1.000)	88	137122				0.00- 46.36	15.89
* 165 Chlorobenzene-d5						CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	806266	25.0000			80.00- 120.00	100.00
9.146	9.146 (1.000)	82	455556				27.12- 87.12	56.50
$ 119 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	385030	23.6753	23.675		80.00- 120.00	100.00
6.023	6.015 (1.110)	67	185573				23.36- 83.36	48.20
$ 152 Toluene-d8						CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	906126	25.1798	25.180		80.00- 120.00	100.00
7.756	7.756 (1.209)	70	105644				0.00- 41.92	11.66

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	607000			39.07- 99.07	66.99
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	499679	23.2403	23.240	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	612343			89.27- 149.27	122.55
10.292	10.292 (1.125)	176	490034			66.29- 126.29	98.07
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.031)	95	4088	0.26814	0.5819	80.00- 120.00	100.00(a)
6.624	6.617 (1.032)	130	4023			67.98- 127.98	98.40
6.617	6.617 (1.031)	97	2417			34.45- 94.45	59.12
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.218)	91	7465	0.19004	0.4124	80.00- 120.00	100.00(a)
7.821	7.813 (1.219)	92	3812			27.69- 87.69	51.06
173 m,p-Xylene					CAS #: 108-38-3		
9.361	9.360 (1.023)	106	3879	0.18580	0.4032	80.00- 120.00	100.00(a)
9.361	9.360 (1.023)	91	8895			176.41- 236.41	229.29

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111121.d
Lab Smp Id: 2410702B-28A
Analysis Type: VOA
Quant Type: ISTD
Operator: AB
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 6.7 Hg->10.1 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Client Smp ID: 2410702B-28A
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	233766	-11.84
126 1,4-Difluorobenze	973920	584352	1363488	863098	-11.38
165 Chlorobenzene-d5	894091	536455	1251727	806266	-9.82

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:52

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-28A Client Smp ID: 2410702B-28A
Level: LOW Operator: AB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 6.7 Hg->10.1 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	23.675	94.70	70-130
$ 152 Toluene-d8	25.000	25.180	100.72	70-130
$ 191 4-Bromofluorobenz	25.000	23.240	92.96	70-130

Data File: /chem/msda.i/11NOV24.b/a111121.d

Page 1

Date : 11-NOV-2024 23:35

Client ID: 2410702B-28A

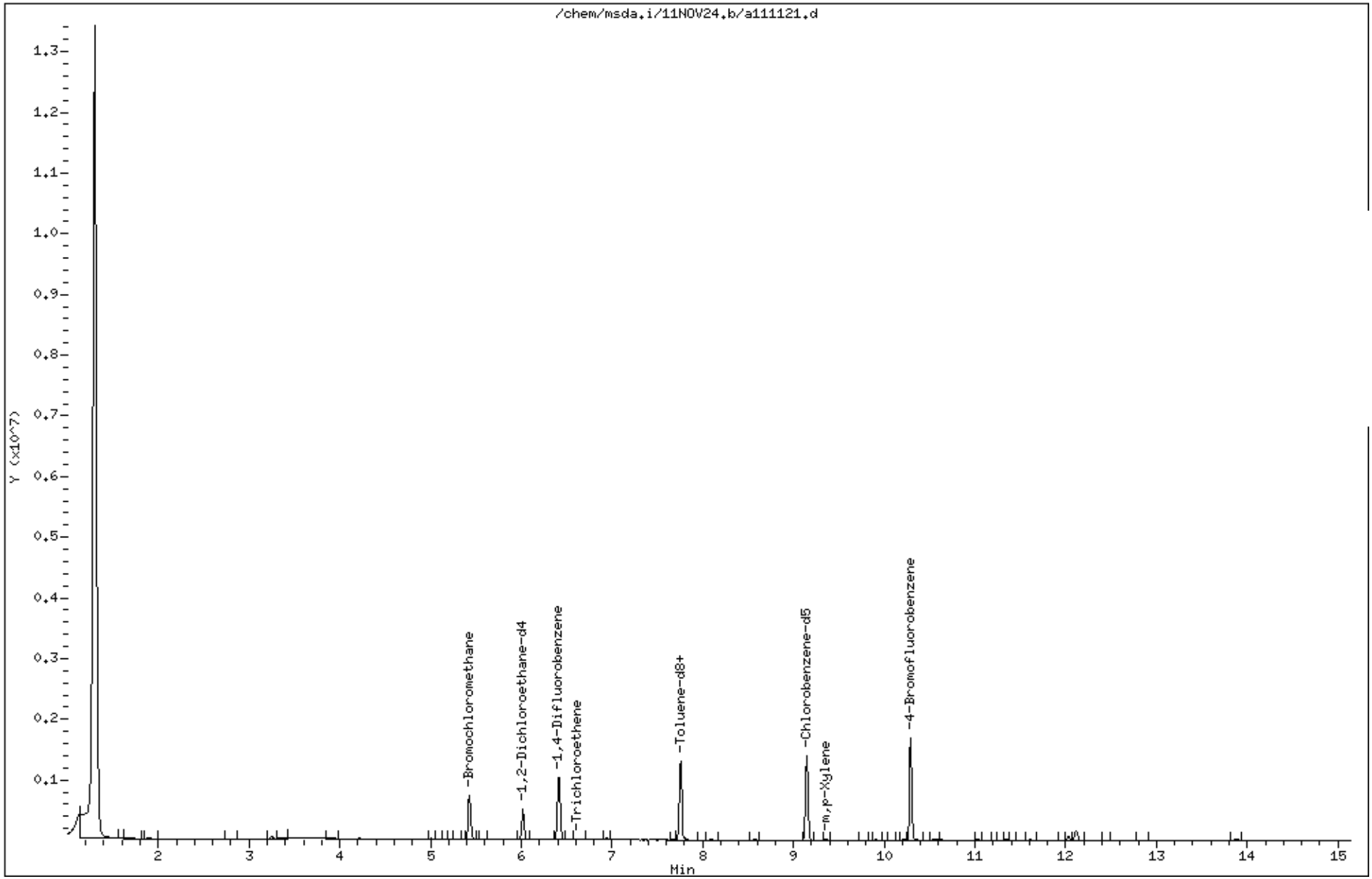
Instrument: msda.i

Sample Info: 200mL N2627

Operator: AB

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msda.i/11NOV24.b/a111121.d

Date : 11-NOV-2024 23:35

Client ID: 2410702B-28A

Instrument: msda.i

Sample Info: 200mL N2627

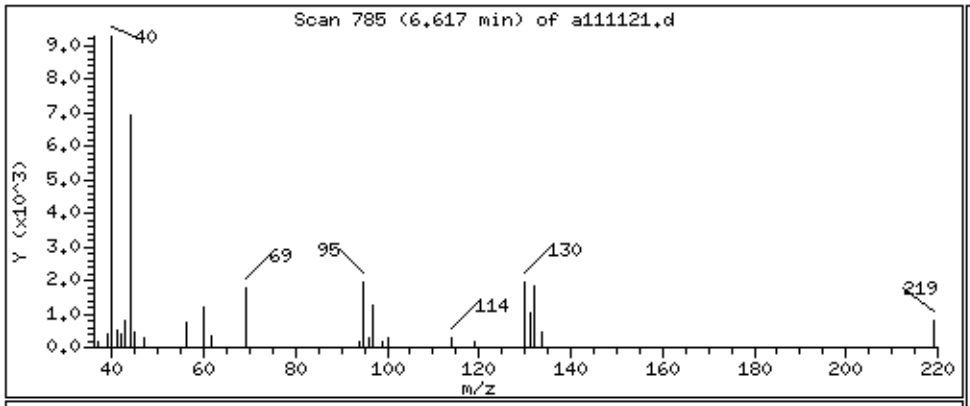
Operator: AB

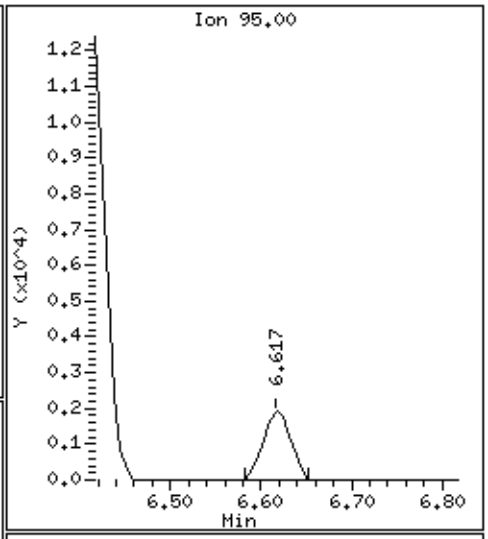
Column phase: RTX-624

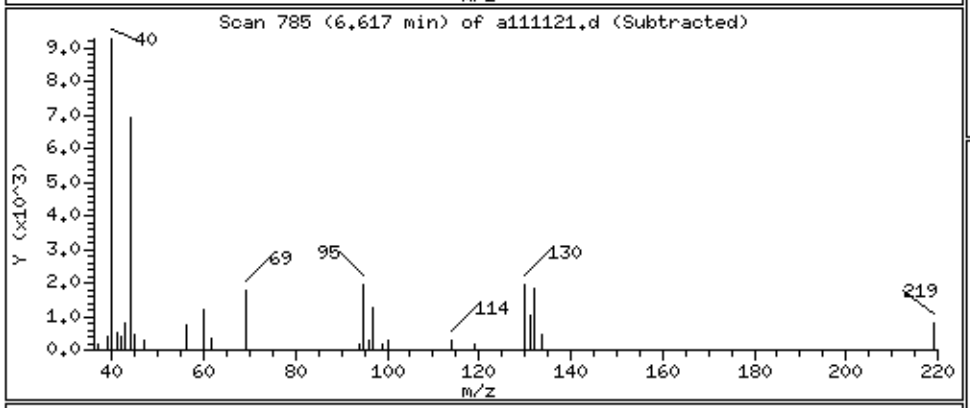
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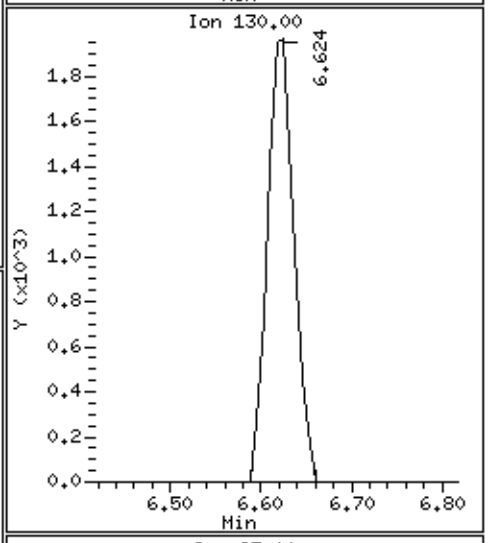
129 Trichloroethene

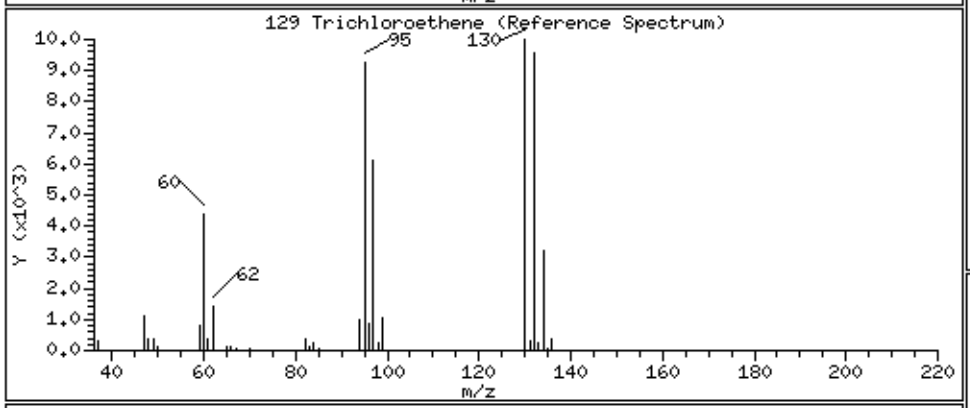
Concentration: 0.5819 PPBV

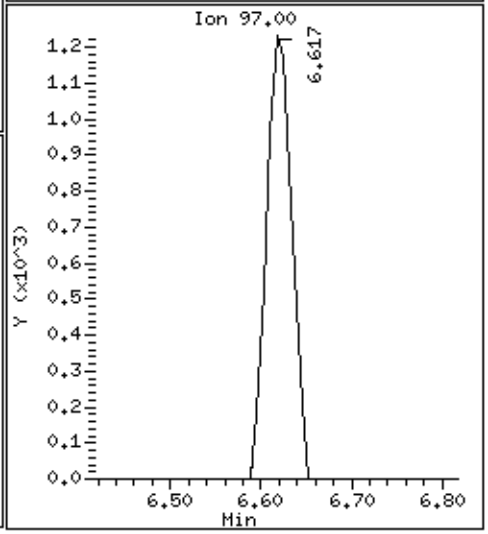


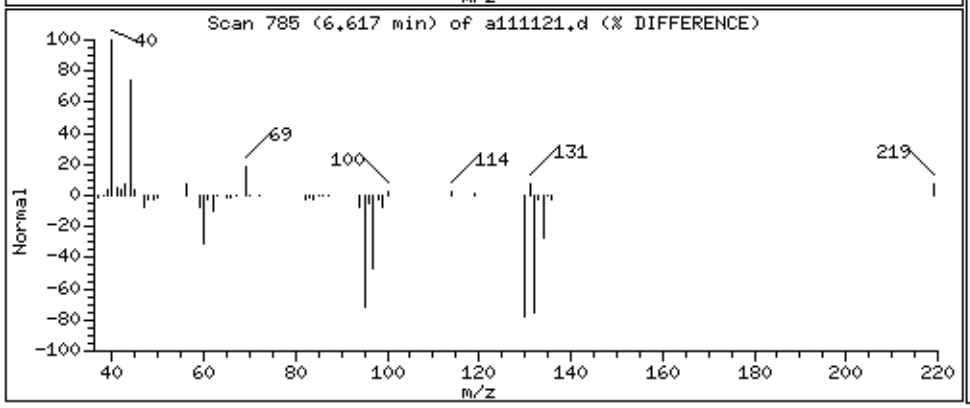












Data File: /chem/msda.i/11NOV24.b/a111121.d

Date : 11-NOV-2024 23:35

Client ID: 2410702B-28A

Instrument: msda.i

Sample Info: 200mL N2627

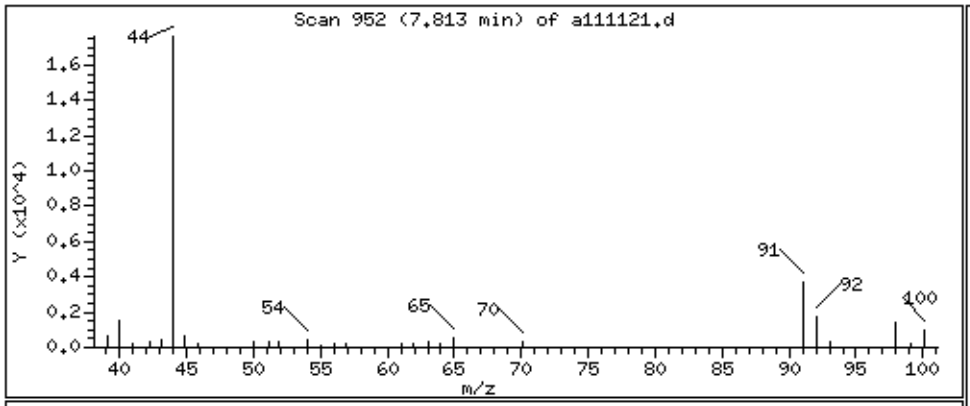
Operator: AB

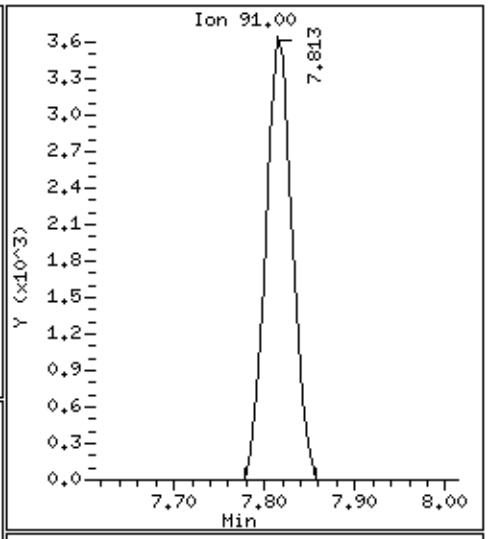
Column phase: RTX-624

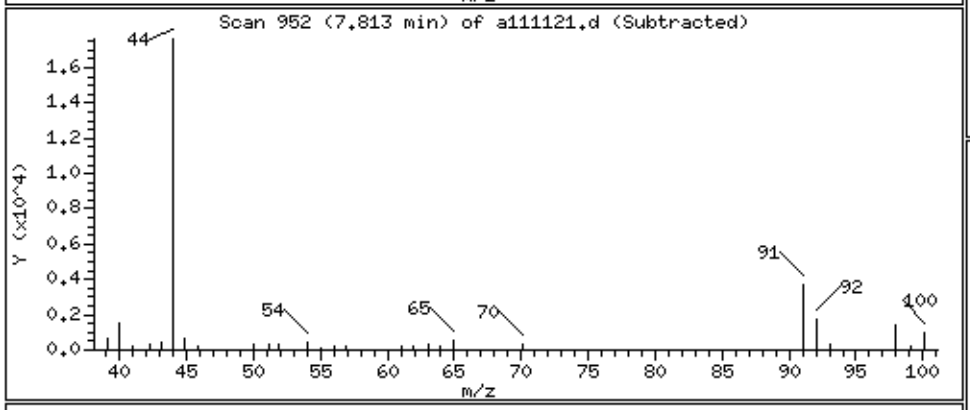
Column diameter: 0.25

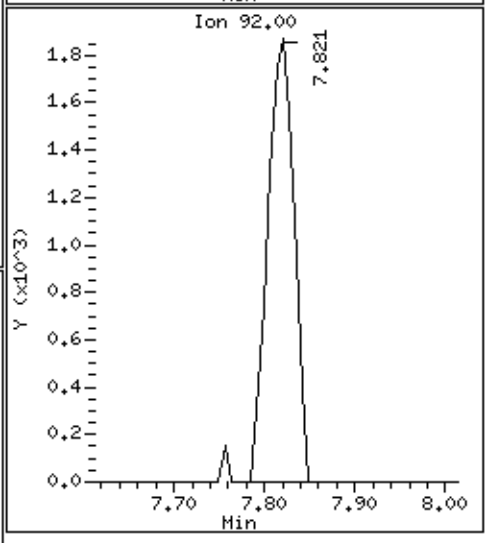
153 Toluene

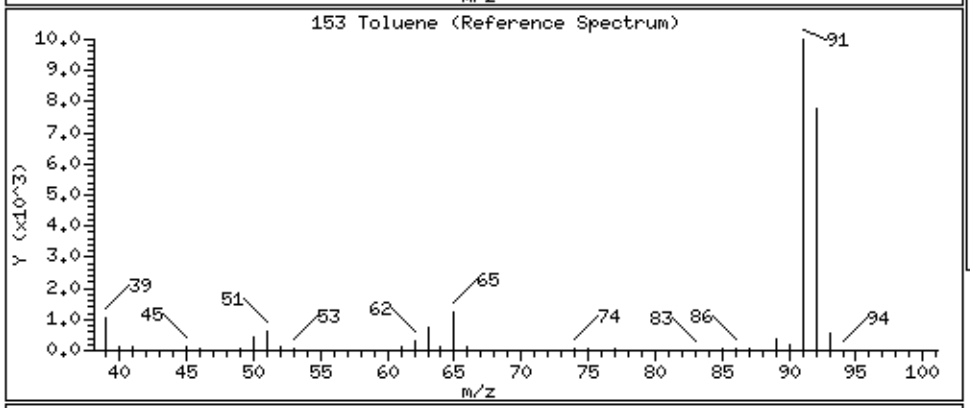
Concentration: 0.4124 PPBV

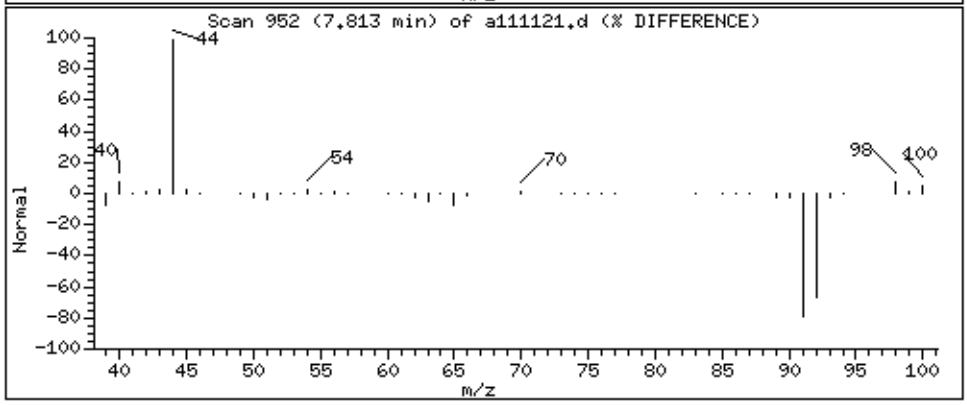












Data File: /chem/msda.i/11NOV24.b/a111121.d

Date : 11-NOV-2024 23:35

Client ID: 2410702B-28A

Instrument: msda.i

Sample Info: 200mL N2627

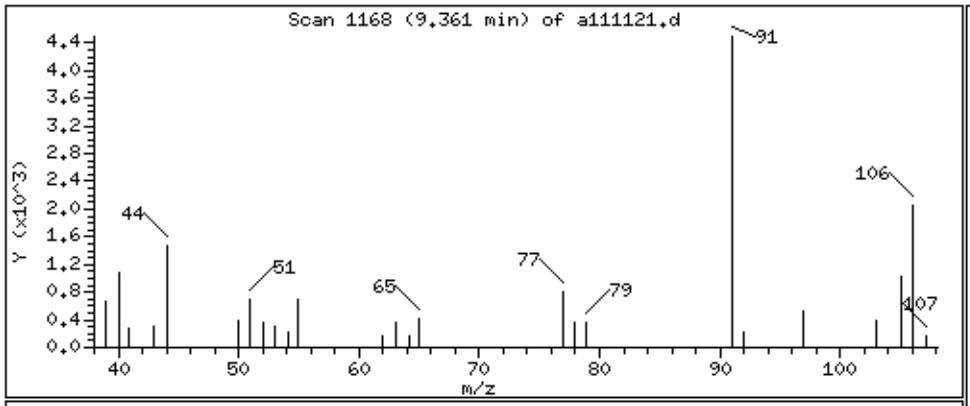
Operator: AB

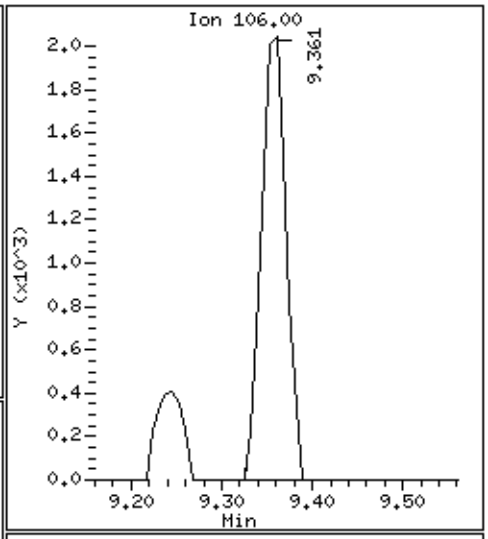
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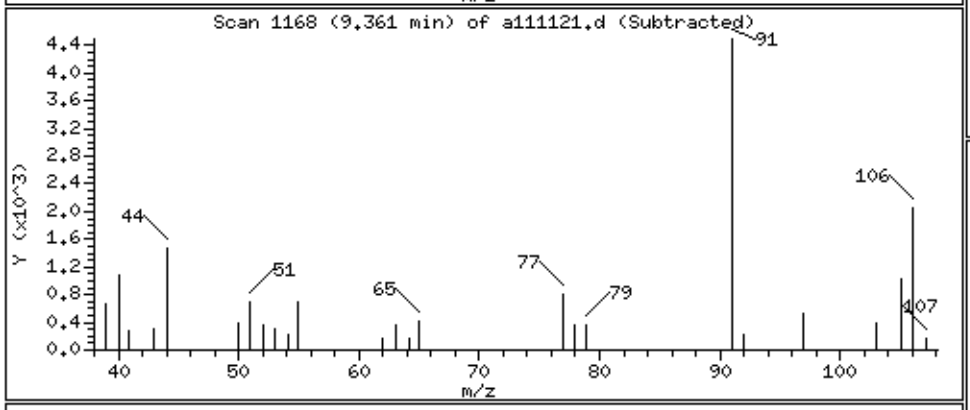
Column diameter: 0.25

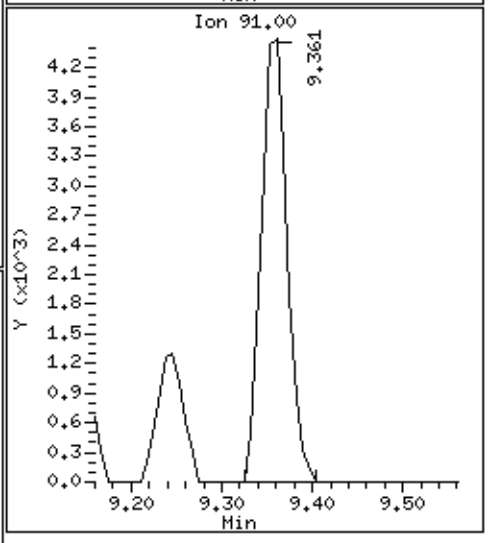
173 m,p-Xylene

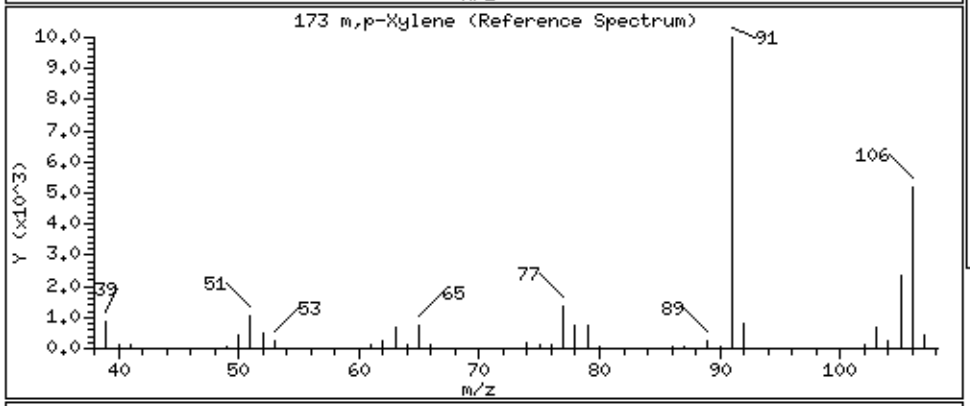
Concentration: 0.4032 PPBV

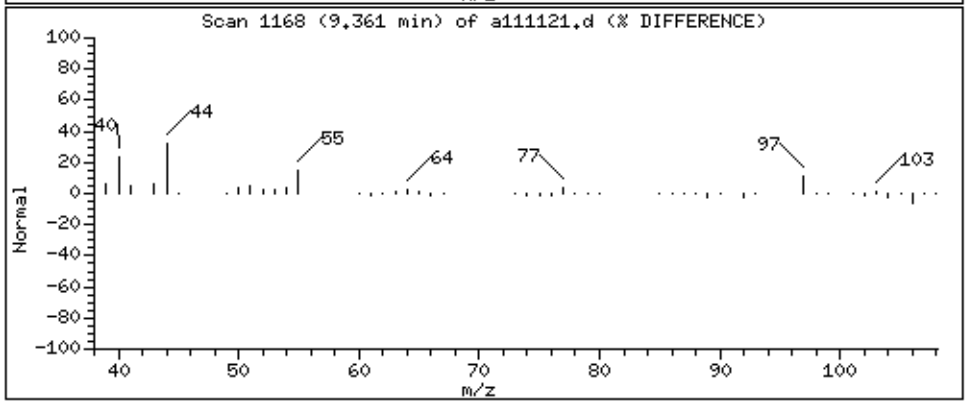












eurofins | Air Toxics

Client ID:	T1AMF-SV015B_OCT24		
Lab ID:	2410702B-29A	**Date/Time Analyzed:**	11/12/24 12:12 AM
Date/Time Collected:	10/28/24 12:38 PM	**Dilution Factor:**	2.12
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111122

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.0	3.8	4.2	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.2	5.7	6.4	Not Detected U
Benzene	71-43-2	0.59	3.0	3.4	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.3	3.8	4.2	Not Detected U
Ethyl Benzene	100-41-4	1.7	4.1	4.6	Not Detected U
m,p-Xylene	108-38-3	1.6	4.1	9.2	Not Detected U
o-Xylene	95-47-6	1.6	4.1	4.6	Not Detected U
Toluene	108-88-3	0.88	3.6	8.0	Not Detected U
trans-1,2-Dichloroethene	156-60-5	1.6	3.8	4.2	Not Detected U
Trichloroethene	79-01-6	0.84	5.1	5.7	Not Detected U
Vinyl Chloride	75-01-4	1.2	2.4	2.7	Not Detected U

U = The analyte was not detected above the MDL.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	92
4-Bromofluorobenzene	460-00-4	70-130	93
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111122.d
Lab Smp Id: 2410702B-29A Client Smp ID: 2410702B-29A
Inj Date : 12-NOV-2024 00:12
Operator : AB Inst ID: msda.i
Smp Info : 200mL N8415
Misc Info : 6.1 Hg->10.1 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 3
Dil Factor: 2.12000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	=======	==========	=====
* 100 Bromochloromethane							CAS #: 74-97-5	
5.428	5.428 (1.000)	130	234487	25.0000			80.00- 120.00	100.00
5.428	5.428 (1.000)	128	180791				46.45- 106.45	77.10
5.428	5.428 (1.000)	49	503319				167.12- 227.12	214.65
* 126 1,4-Difluorobenzene							CAS #: 540-36-3	
6.416	6.409 (1.000)	114	851522	25.0000			80.00- 120.00	100.00
6.409	6.409 (1.000)	88	138965				0.00- 46.36	16.32
* 165 Chlorobenzene-d5							CAS #: 3114-55-4	
9.146	9.146 (1.000)	117	802952	25.0000			80.00- 120.00	100.00
9.146	9.146 (1.000)	82	447483				27.12- 87.12	55.73
$ 119 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
6.015	6.015 (1.108)	65	376351	23.0705	23.070		80.00- 120.00	100.00
6.015	6.015 (1.108)	67	183881				23.36- 83.36	48.86
$ 152 Toluene-d8							CAS #: 2037-26-5	
7.756	7.756 (1.209)	98	899433	25.3336	25.334		80.00- 120.00	100.00
7.756	7.756 (1.209)	70	106664				0.00- 41.92	11.86

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	601693			39.07- 99.07	66.90
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	497346	23.2272	23.227	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	597884			89.27- 149.27	120.21
10.292	10.292 (1.125)	176	470984			66.29- 126.29	94.70

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111122.d
Lab Smp Id: 2410702B-29A
Analysis Type: VOA
Quant Type: ISTD
Operator: AB
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 6.1 Hg->10.1 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Client Smp ID: 2410702B-29A
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	234487	-11.57
126 1,4-Difluorobenze	973920	584352	1363488	851522	-12.57
165 Chlorobenzene-d5	894091	536455	1251727	802952	-10.19

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	-0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:52

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-29A Client Smp ID: 2410702B-29A
Level: LOW Operator: AB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 6.1 Hg->10.1 psi

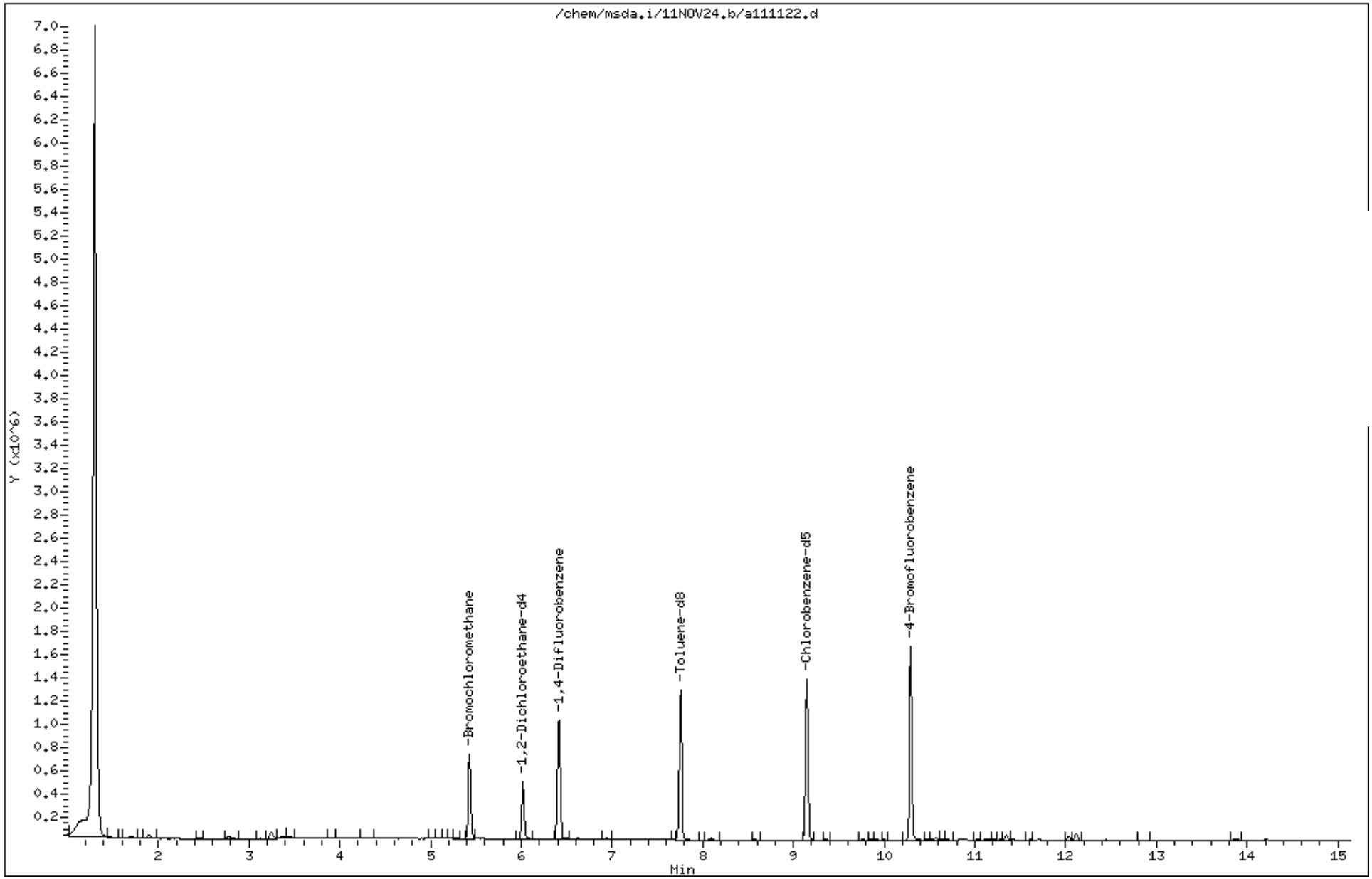
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	23.070	92.28	70-130
$ 152 Toluene-d8	25.000	25.334	101.33	70-130
$ 191 4-Bromofluorobenz	25.000	23.227	92.91	70-130

Data File: /chem/msda.i/11NOV24.b/a111122.d
Date : 12-NOV-2024 00:12
Client ID: 2410702B-29A
Sample Info: 200mL N8415

Instrument: msda.i

Operator: AB
Column diameter: 0.25

Column phase: RTX-624



eurofins | Air Toxics

Client ID:	T1AMF-SV030_OCT24		
Lab ID:	2410702B-30A	**Date/Time Analyzed:**	11/12/24 12:49 AM
Date/Time Collected:	10/28/24 01:41 PM	**Dilution Factor:**	2.27
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111123

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.1	4.0	4.5	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.4	6.1	6.8	Not Detected U
Benzene	71-43-2	0.63	3.3	3.6	4.8
cis-1,2-Dichloroethene	156-59-2	1.4	4.0	4.5	Not Detected U
Ethyl Benzene	100-41-4	1.9	4.4	4.9	6.1
m,p-Xylene	108-38-3	1.8	4.4	9.8	21
o-Xylene	95-47-6	1.7	4.4	4.9	6.1
Toluene	108-88-3	0.94	3.8	8.6	12
trans-1,2-Dichloroethene	156-60-5	1.7	4.0	4.5	Not Detected U
Trichloroethene	79-01-6	0.89	5.5	6.1	Not Detected U
Vinyl Chloride	75-01-4	1.3	2.6	2.9	Not Detected U

U = The analyte was not detected above the MDL.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	95
4-Bromofluorobenzene	460-00-4	70-130	94
Toluene-d8	2037-26-5	70-130	100

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111123.d
Lab Smp Id: 2410702B-30A Client Smp ID: 2410702b-30A
Inj Date : 12-NOV-2024 00:49
Operator : AB Inst ID: msda.i
Smp Info : 200mL N6164
Misc Info : 8 Hg->9.8 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 4
Dil Factor: 2.27000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane						CAS #: 74-97-5	
5.435	5.428 (1.000)	130	227243	25.0000		80.00- 120.00	100.00
5.435	5.428 (1.000)	128	178089			46.45- 106.45	78.37
5.428	5.428 (1.000)	49	483212			167.12- 227.12	212.64
* 126 1,4-Difluorobenzene						CAS #: 540-36-3	
6.417	6.409 (1.000)	114	862547	25.0000		80.00- 120.00	100.00
6.417	6.409 (1.000)	88	139312			0.00- 46.36	16.15
* 165 Chlorobenzene-d5						CAS #: 3114-55-4	
9.146	9.146 (1.000)	117	799020	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	456424			27.12- 87.12	57.12
$ 119 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
6.023	6.015 (1.108)	65	375447	23.7488	23.749	80.00- 120.00	100.00
6.023	6.015 (1.108)	67	186074			23.36- 83.36	49.56
$ 152 Toluene-d8						CAS #: 2037-26-5	
7.756	7.756 (1.209)	98	899287	25.0057	25.006	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	109274			0.00- 41.92	12.15

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	616135			39.07- 99.07	68.51
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	498468	23.3942	23.394	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	639924			89.27- 149.27	128.38
10.292	10.292 (1.125)	176	483786			66.29- 126.29	97.05
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.933)	78	19707	0.65945	1.497	80.00- 120.00	100.00
5.987	5.987 (0.933)	77	5788			0.00- 53.99	29.37
153 Toluene					CAS #: 108-88-3		
7.820	7.813 (1.219)	91	56964	1.45109	3.294	80.00- 120.00	100.00
7.813	7.813 (1.218)	92	30942			27.69- 87.69	54.32
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.011)	106	10273	0.61818	1.403	80.00- 120.00	100.00
9.246	9.246 (1.011)	91	33206			281.27- 341.27	323.24
173 m,p-Xylene					CAS #: 108-38-3		
9.361	9.360 (1.023)	106	44998	2.17495	4.937	80.00- 120.00	100.00
9.361	9.360 (1.023)	91	93910			176.41- 236.41	208.70
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.066)	106	12023	0.62113	1.410	80.00- 120.00	100.00
9.747	9.747 (1.066)	91	26524			186.60- 246.60	220.61

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111123.d
Lab Smp Id: 2410702B-30A
Analysis Type: VOA
Quant Type: ISTD
Operator: AB
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 8 Hg->9.8 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Client Smp ID: 2410702b-30A
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	227243	-14.30
126 1,4-Difluorobenze	973920	584352	1363488	862547	-11.44
165 Chlorobenzene-d5	894091	536455	1251727	799020	-10.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.44	0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:52

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-30A Client Smp ID: 2410702b-30A
Level: LOW Operator: AB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 8 Hg->9.8 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	23.749	95.00	70-130
$ 152 Toluene-d8	25.000	25.006	100.02	70-130
$ 191 4-Bromofluorobenz	25.000	23.394	93.58	70-130

Data File: /chem/msda.i/11NOV24.b/a111123.d

Date : 12-NOV-2024 00:49

Client ID: 2410702b-30A

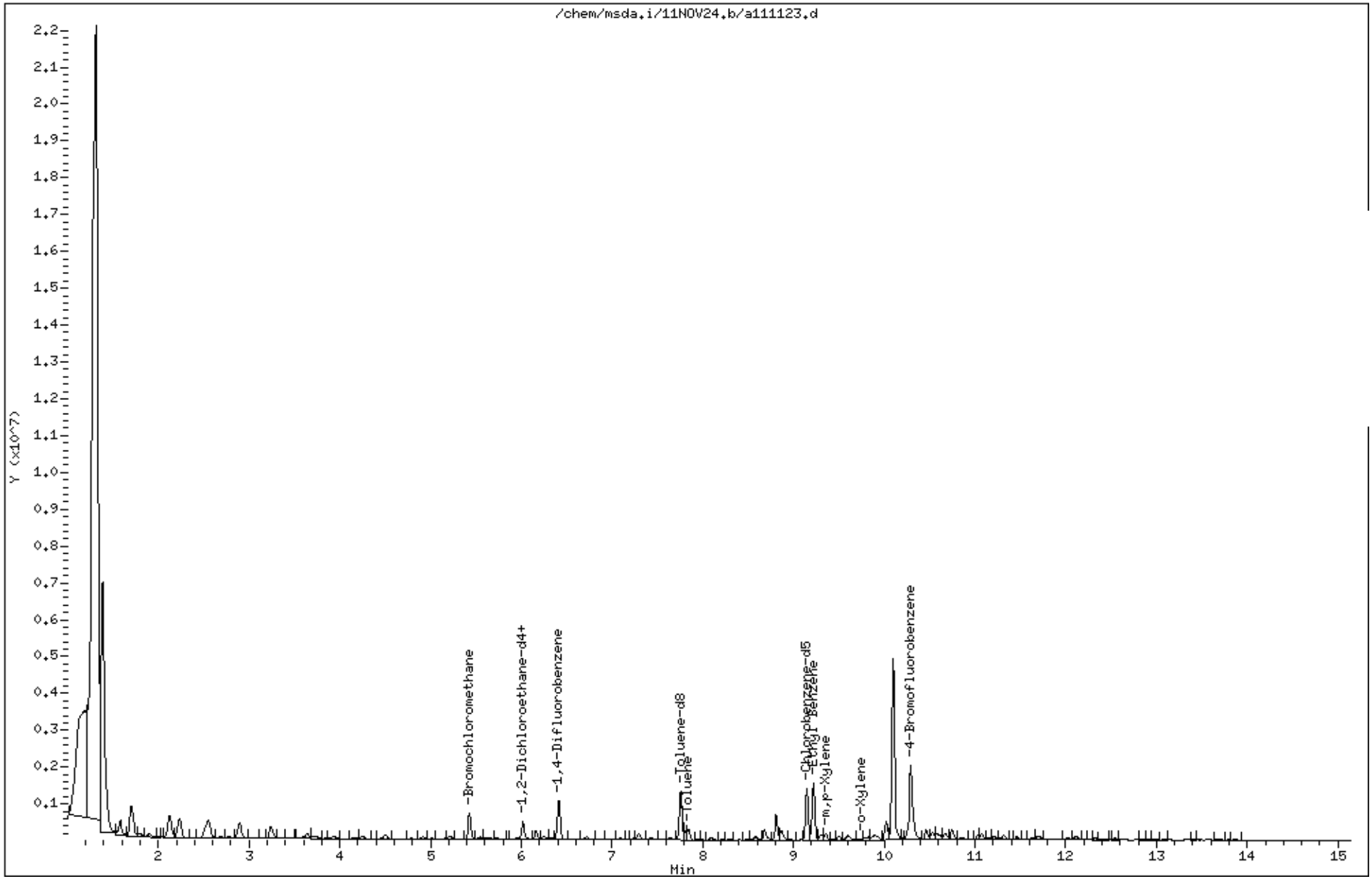
Sample Info: 200mL N6164

Column phase: RTX-624

Instrument: msda.i

Operator: AB

Column diameter: 0.25



Data File: /chem/msda.i/11NOV24.b/a111123.d

Date : 12-NOV-2024 00:49

Client ID: 2410702b-30A

Instrument: msda.i

Sample Info: 200mL N6164

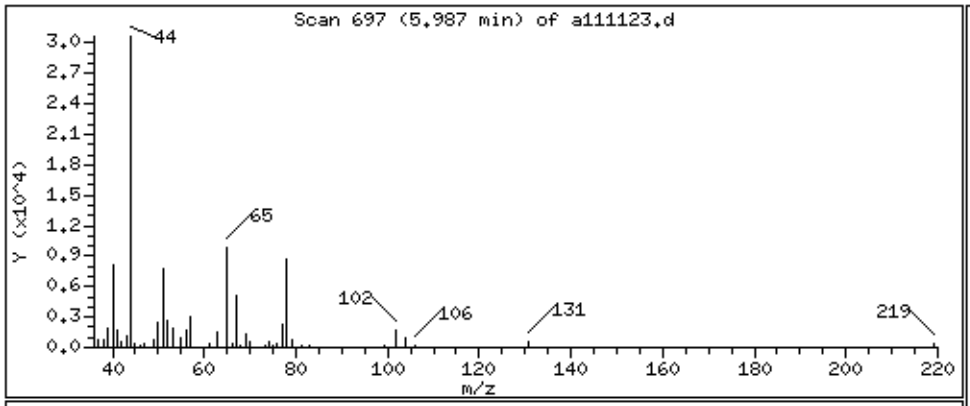
Operator: AB

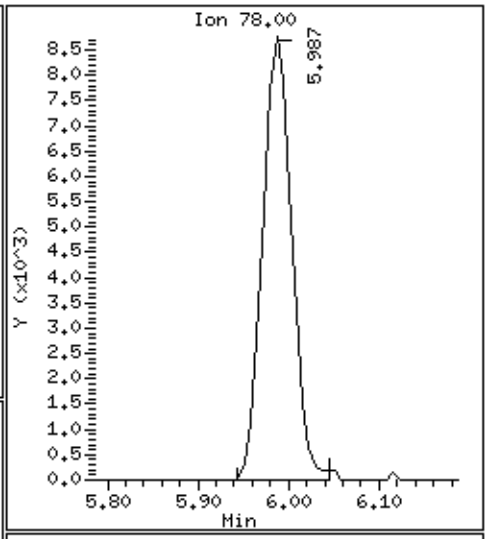
Column phase: RTX-624

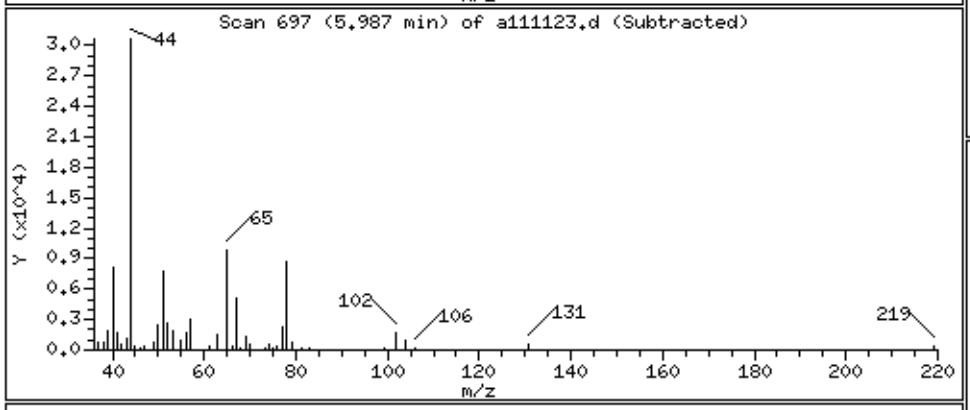
Column diameter: 0.25

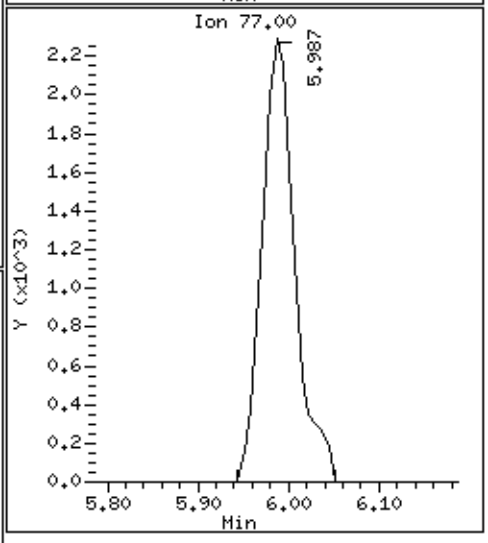
118 Benzene

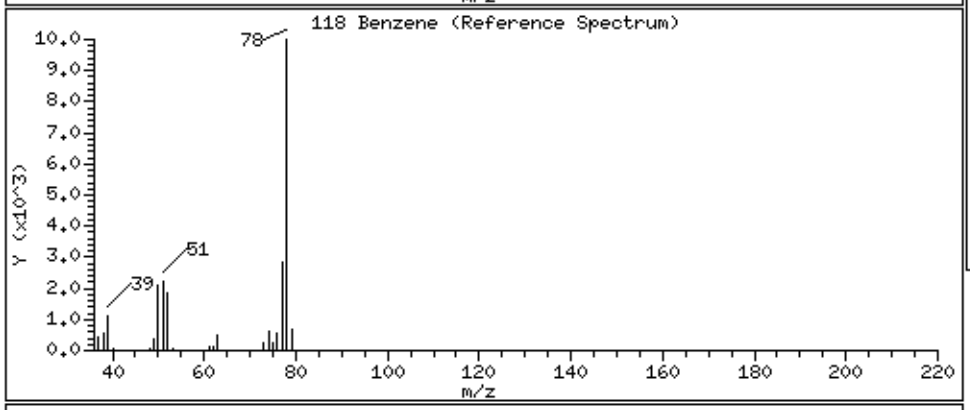
Concentration: 1.497 PPBV

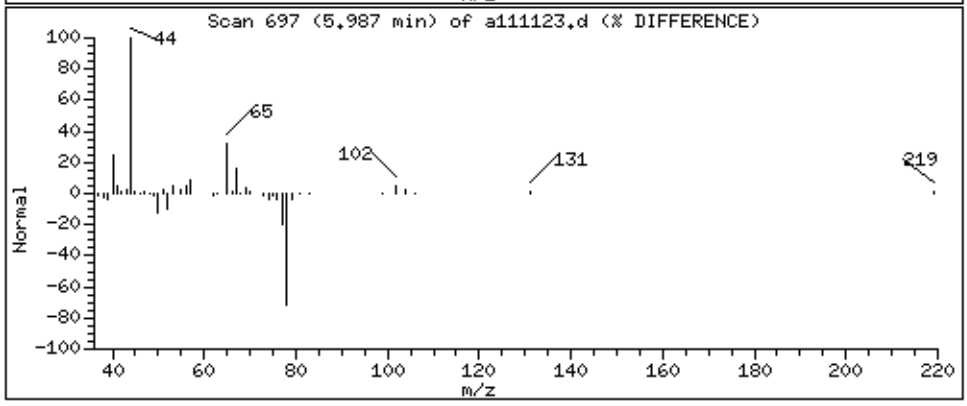












Data File: /chem/msda.i/11NOV24.b/a111123.d

Date : 12-NOV-2024 00:49

Client ID: 2410702b-30A

Instrument: msda.i

Sample Info: 200mL N6164

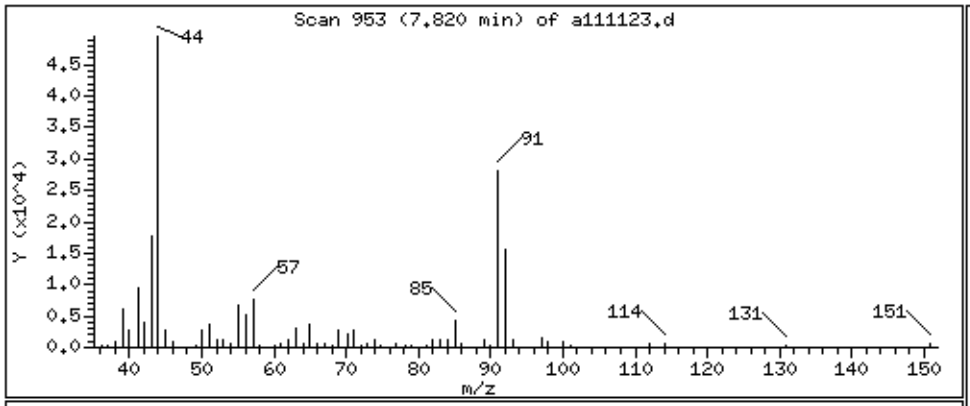
Operator: AB

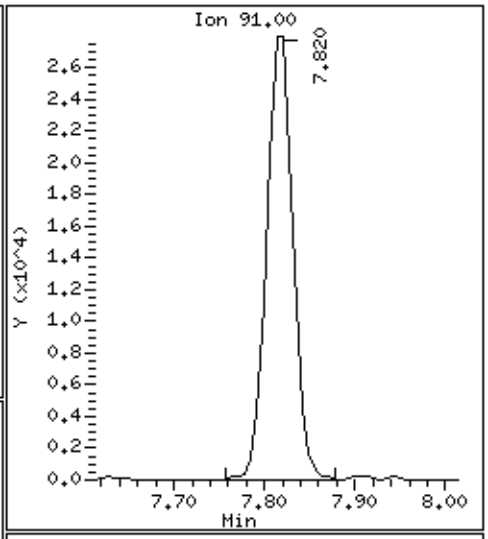
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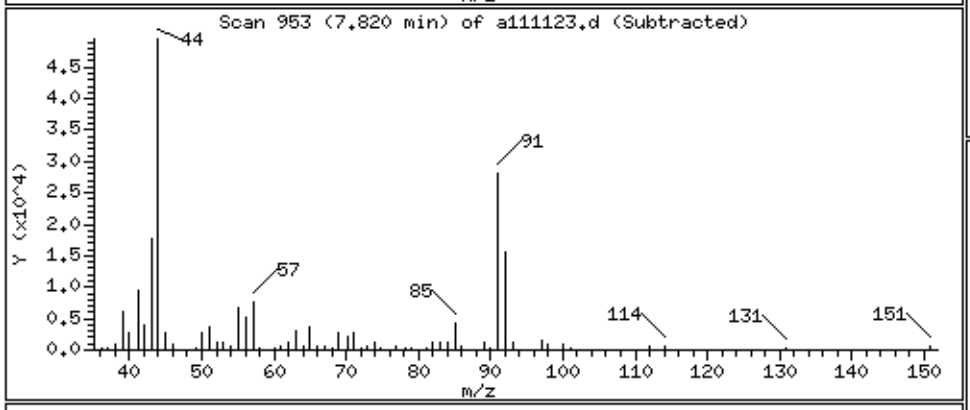
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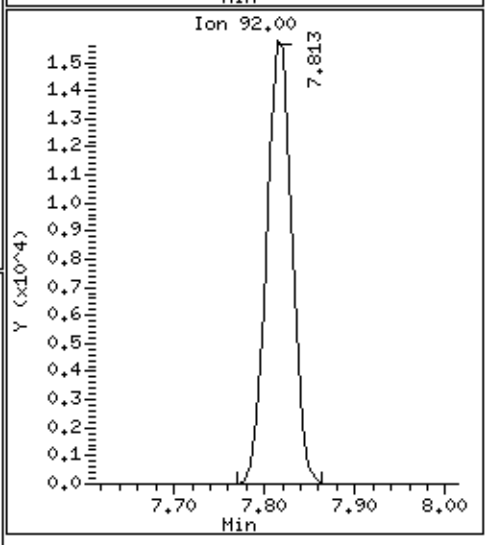
153 Toluene

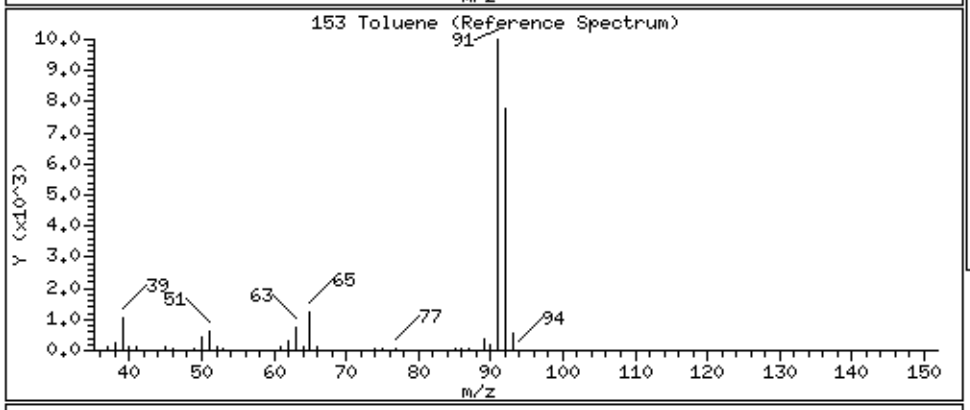
Concentration: 3.294 PPBV

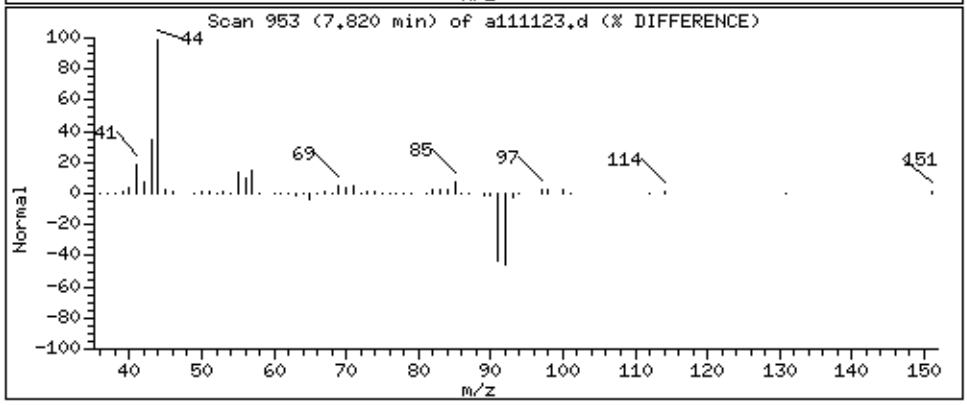












Data File: /chem/msda.i/11NOV24.b/a111123.d

Date : 12-NOV-2024 00:49

Client ID: 2410702b-30A

Instrument: msda.i

Sample Info: 200mL N6164

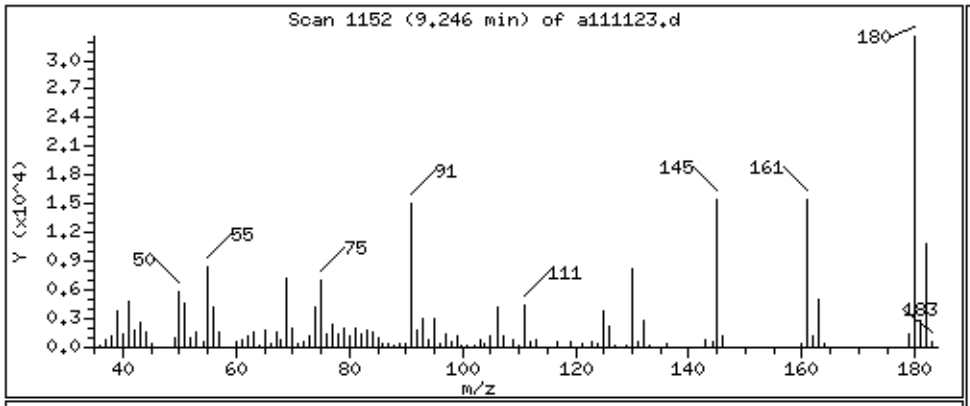
Operator: AB

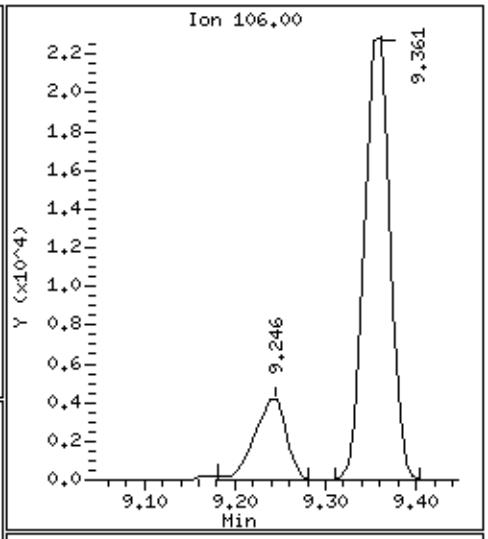
Column phase: RTX-624

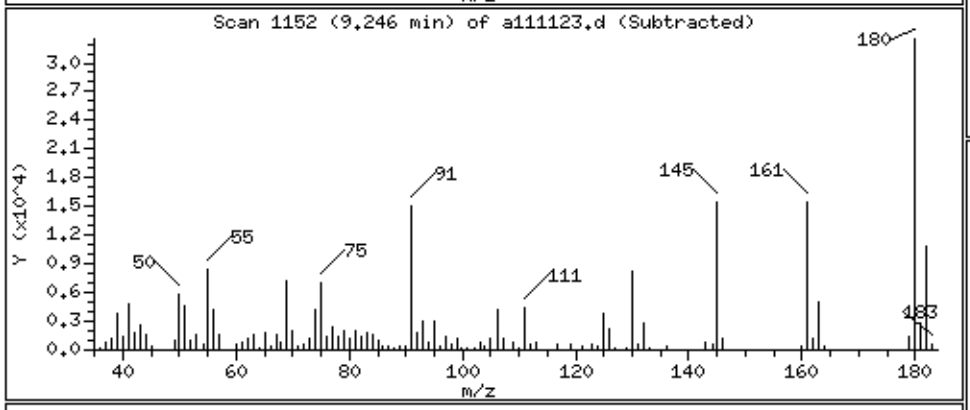
Column diameter: 0.25

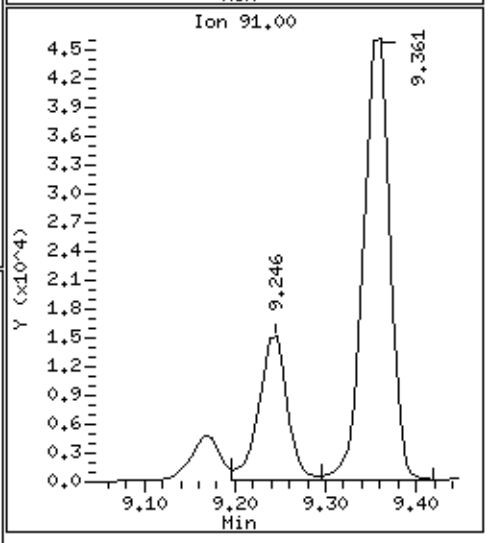
167 Ethyl Benzene

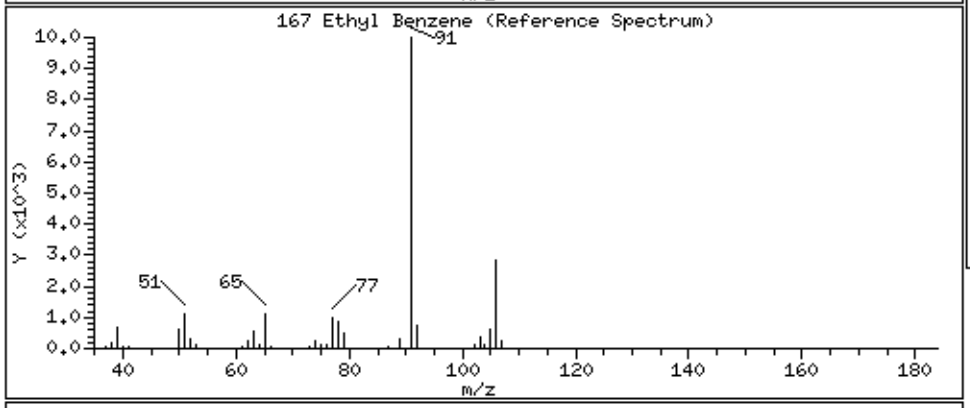
Concentration: 1.403 PPBV

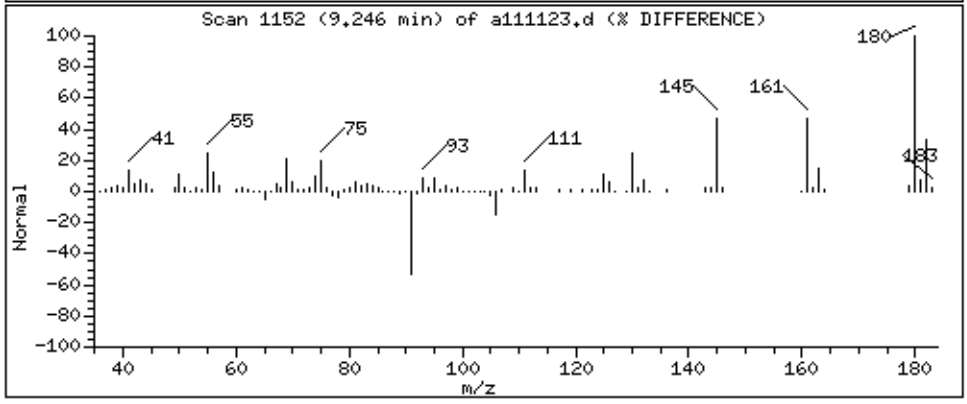












Data File: /chem/msda.i/11NOV24.b/a111123.d

Date : 12-NOV-2024 00:49

Client ID: 2410702b-30A

Instrument: msda.i

Sample Info: 200mL N6164

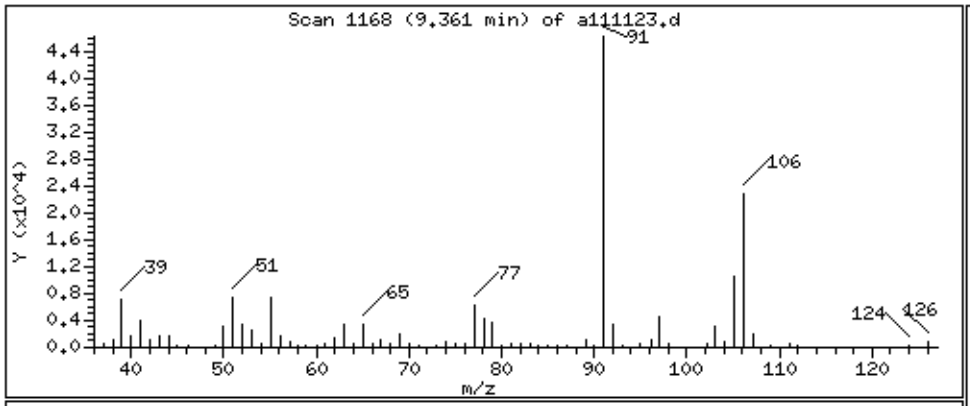
Operator: AB

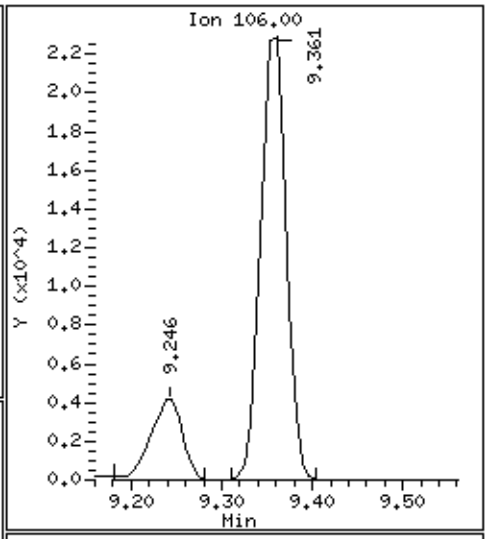
Column phase: RTX-624

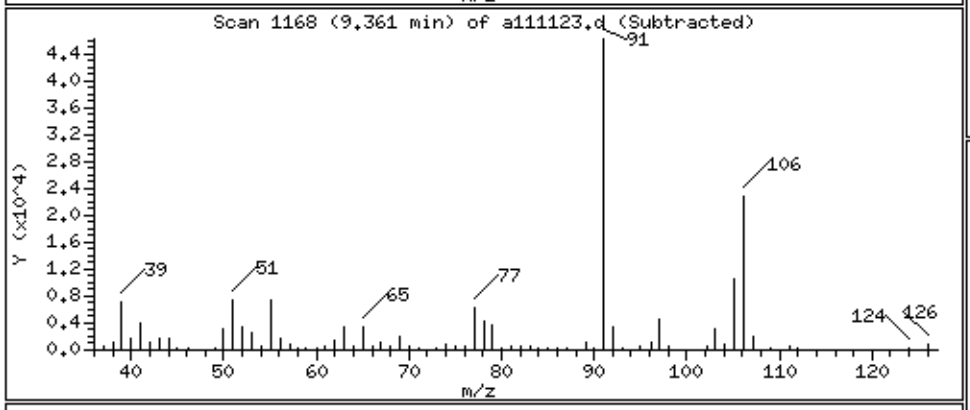
Column diameter: 0.25

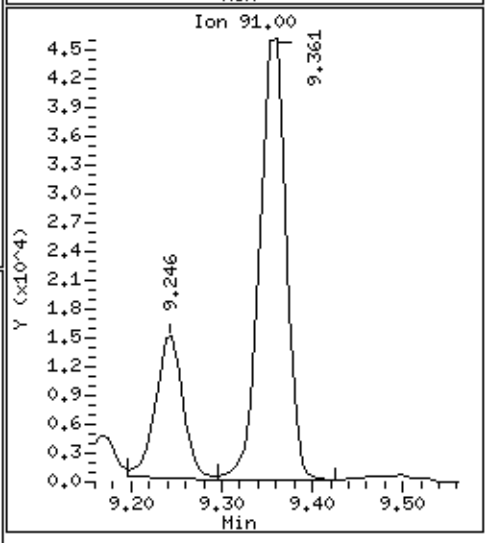
173 m,p-Xylene

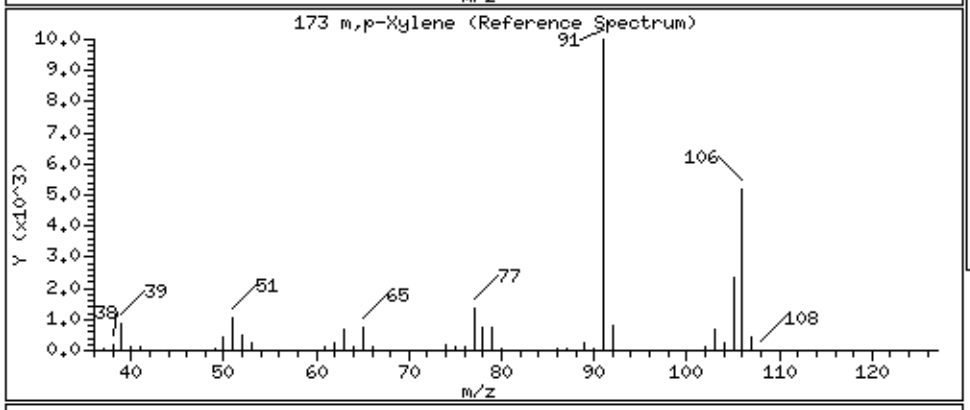
Concentration: 4.937 PPBV

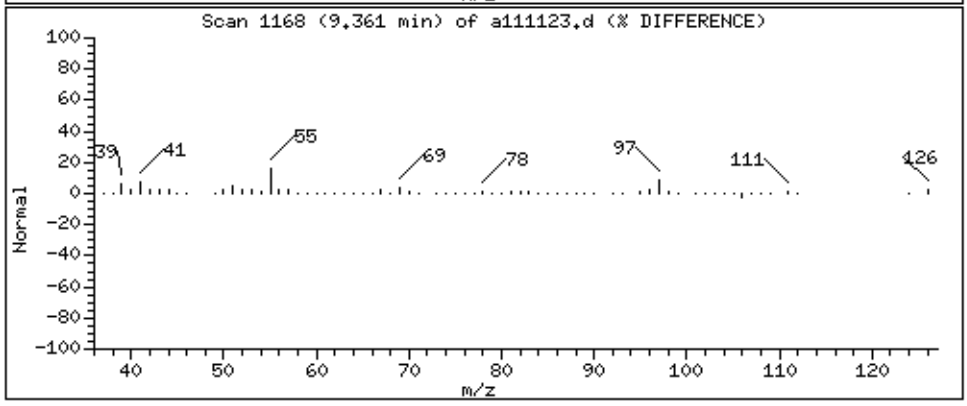












Data File: /chem/msda.i/11NOV24.b/a111123.d

Date : 12-NOV-2024 00:49

Client ID: 2410702b-30A

Instrument: msda.i

Sample Info: 200mL N6164

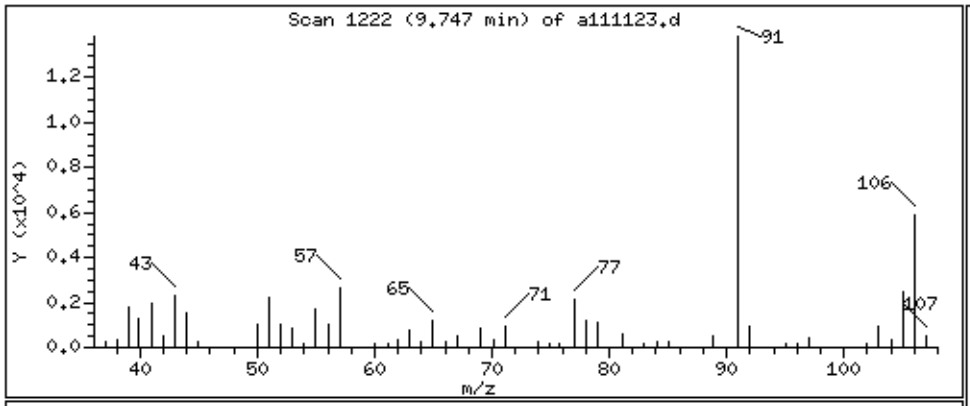
Operator: AB

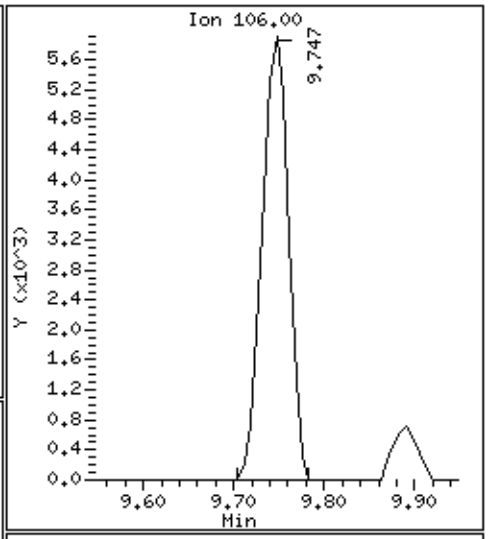
Column phase: RTX-624

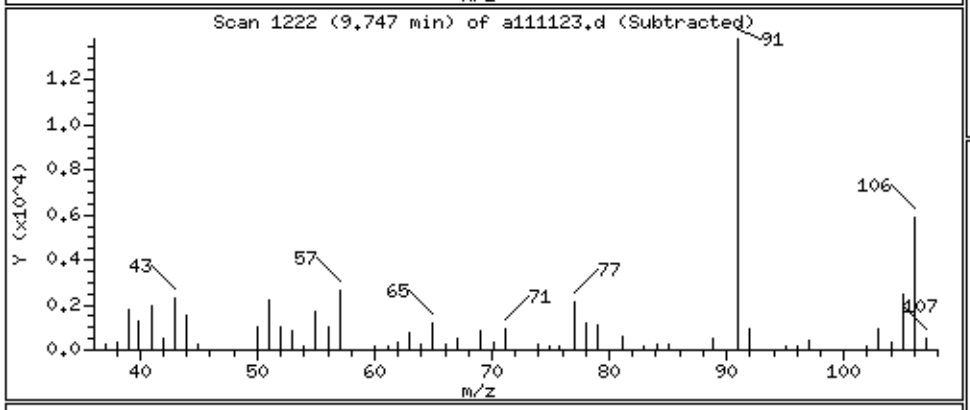
Column diameter: 0.25

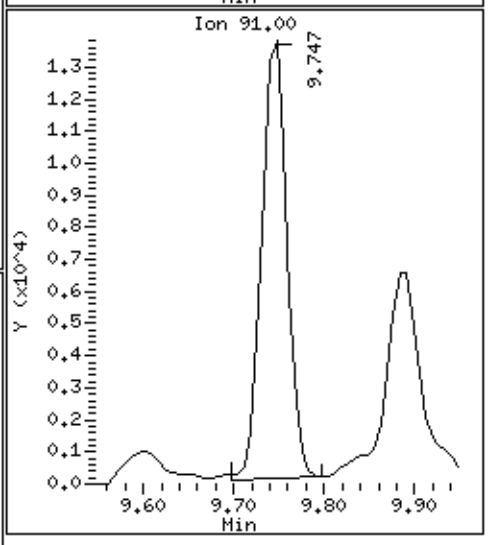
176 o-Xylene

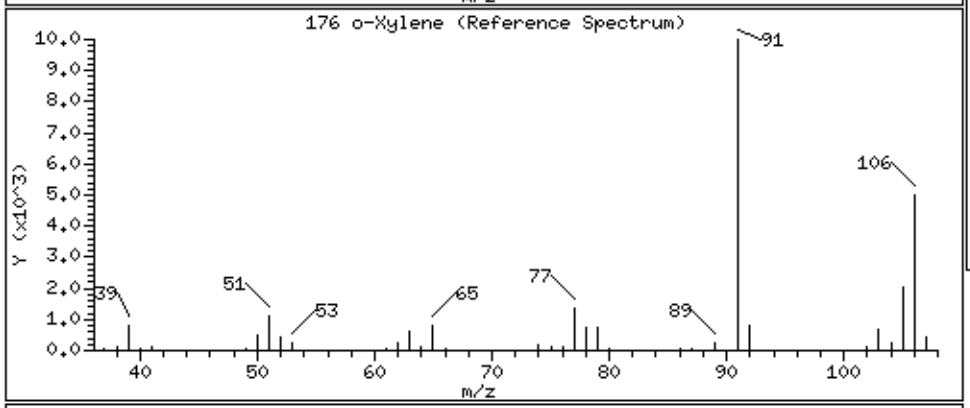
Concentration: 1.410 PPBV

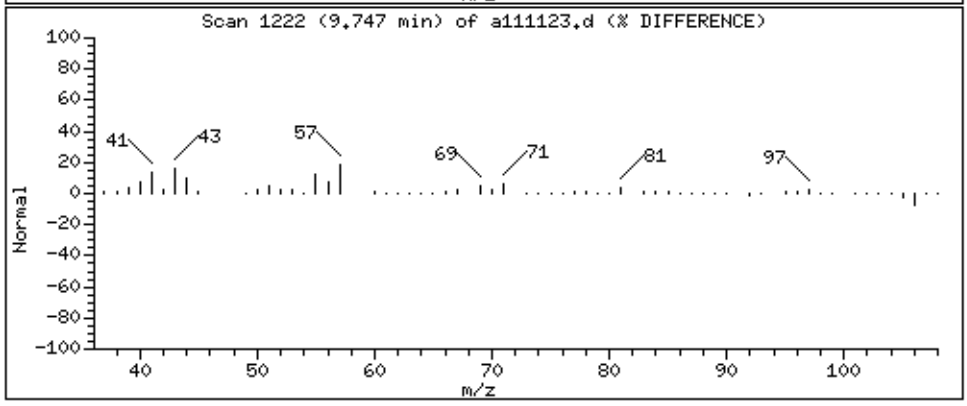












eurofins | Air Toxics

Client ID:	T1AMF-SV029_OCT24		
Lab ID:	2410702B-31A	**Date/Time Analyzed:**	11/12/24 01:22 AM
Date/Time Collected:	10/28/24 02:59 PM	**Dilution Factor:**	35.4
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111124

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	17	63	70	Not Detected U
1,4-Dichlorobenzene	106-46-7	37	96	110	Not Detected U
Benzene	71-43-2	9.8	51	56	Not Detected U
cis-1,2-Dichloroethene	156-59-2	21	63	70	Not Detected U
Ethyl Benzene	100-41-4	29	69	77	Not Detected U
m,p-Xylene	108-38-3	28	69	150	Not Detected U
o-Xylene	95-47-6	27	69	77	Not Detected U
Toluene	108-88-3	15	60	130	15 J
trans-1,2-Dichloroethene	156-60-5	27	63	70	Not Detected U
Trichloroethene	79-01-6	14	86	95	Not Detected U
Vinyl Chloride	75-01-4	21	41	45	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	100
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	100

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111124.d
Lab Smp Id: 2410702B-31A Client Smp ID: 2410702B-31A
Inj Date : 12-NOV-2024 01:22
Operator : AB Inst ID: msda.i
Smp Info : 25mL B2269
Misc Info : 18.6 Hg->10 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 5
Dil Factor: 35.40000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	220649	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	173006			46.45- 106.45	78.41
5.428	5.428 (1.000)	49	457614			167.12- 227.12	207.39
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	870135	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	142818			0.00- 46.36	16.41
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	811095	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	454837			27.12- 87.12	56.08
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	384870	25.0724	25.072	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	189806			23.36- 83.36	49.32
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.210)	98	908043	25.0290	25.029	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	108018			0.00- 41.92	11.90

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.210)	100	618076			39.07- 99.07	68.07
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	498592	23.0517	23.052	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	609122			89.27- 149.27	122.17
10.292	10.292 (1.125)	176	485254			66.29- 126.29	97.32
153 Toluene					CAS #: 108-88-3		
7.820	7.813 (1.220)	91	4536	0.11454	4.055	80.00- 120.00	100.00(a)
7.813	7.813 (1.219)	92	2530			27.69- 87.69	55.79

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111124.d
Lab Smp Id: 2410702B-31A
Analysis Type: VOA
Quant Type: ISTD
Operator: AB
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 18.6 Hg->10 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Client Smp ID: 2410702B-31A
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	220649	-16.79
126 1,4-Difluorobenze	973920	584352	1363488	870135	-10.66
165 Chlorobenzene-d5	894091	536455	1251727	811095	-9.28

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:35

US32TAR1

RECOVERY REPORT

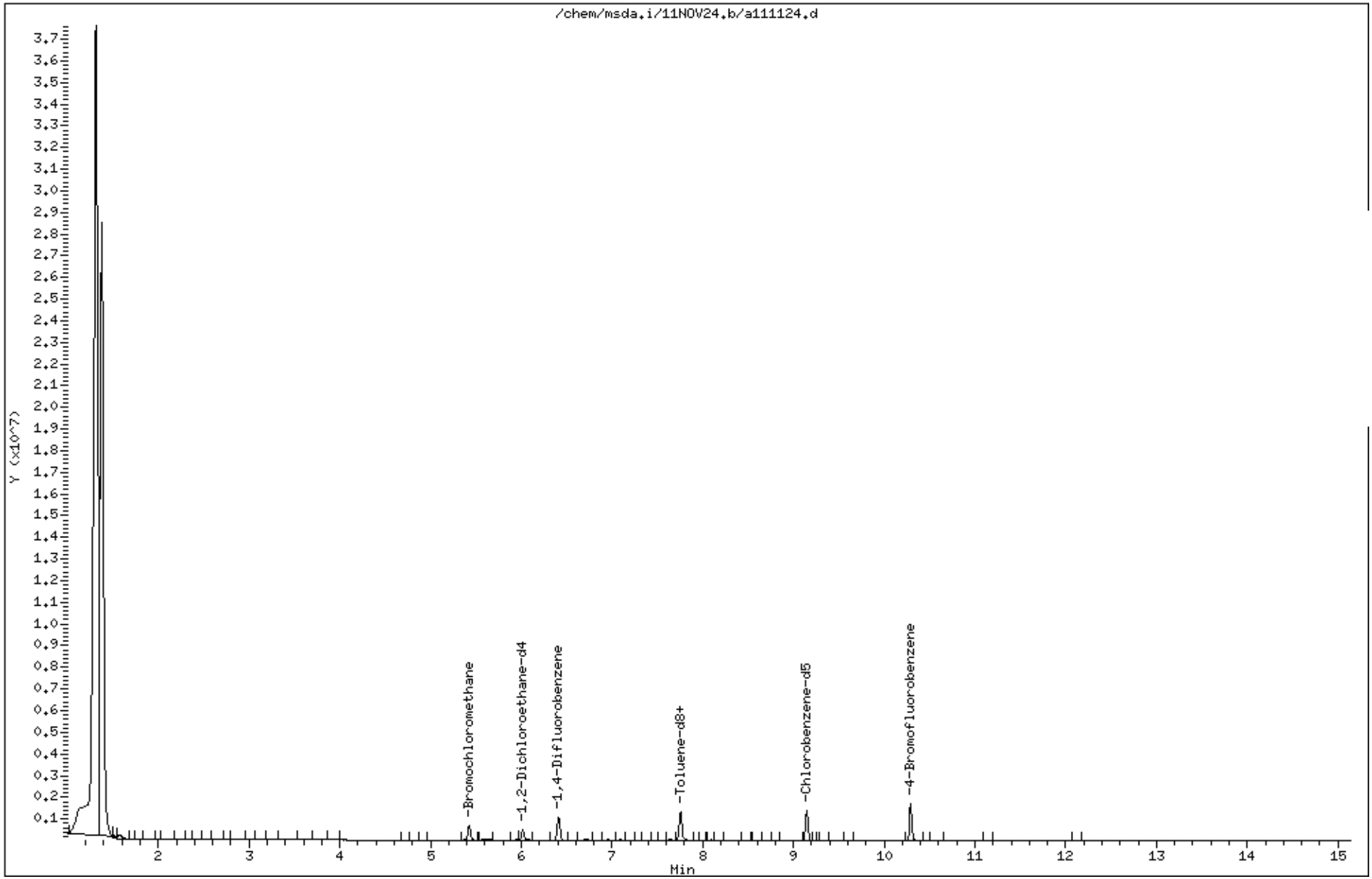
Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-31A Client Smp ID: 2410702B-31A
Level: LOW Operator: AB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 18.6 Hg->10 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	25.072	100.29	70-130
$ 152 Toluene-d8	25.000	25.029	100.12	70-130
$ 191 4-Bromofluorobenz	25.000	23.052	92.21	70-130

Data File: /chem/msda.i/11NOV24.b/a111124.d
Date : 12-NOV-2024 01:22
Client ID: 2410702B-31A
Sample Info: 25mL B2269

Instrument: msda.i
Operator: AB
Column diameter: 0.25

Column phase: RTX-624



Data File: /chem/msda.i/11NOV24.b/a111124.d

Date : 12-NOV-2024 01:22

Client ID: 2410702B-31A

Instrument: msda.i

Sample Info: 25mL B2269

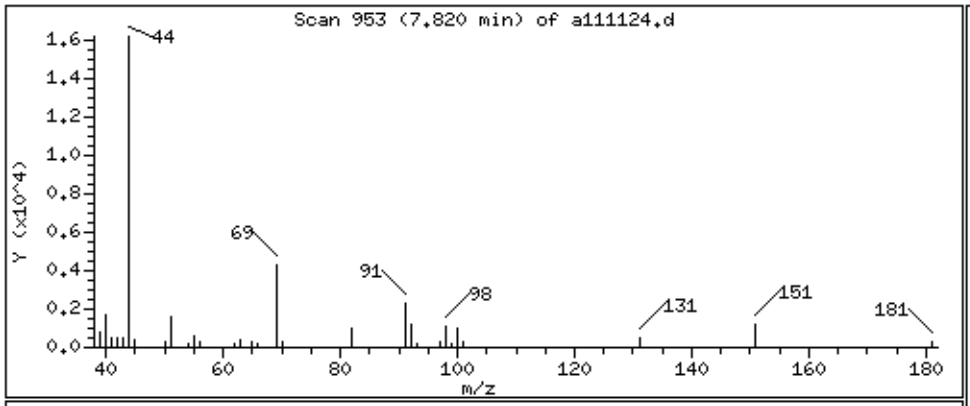
Operator: AB

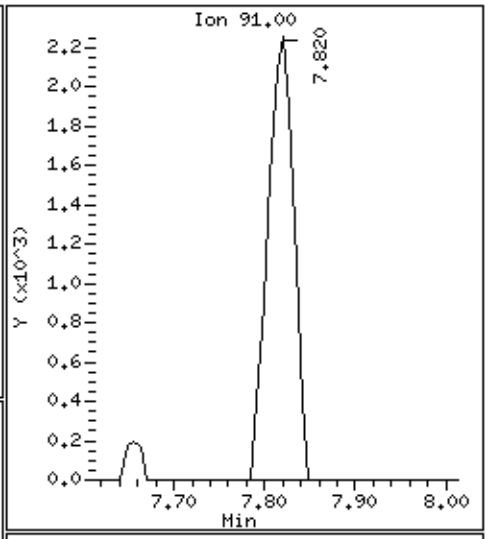
Column phase: RTX-624

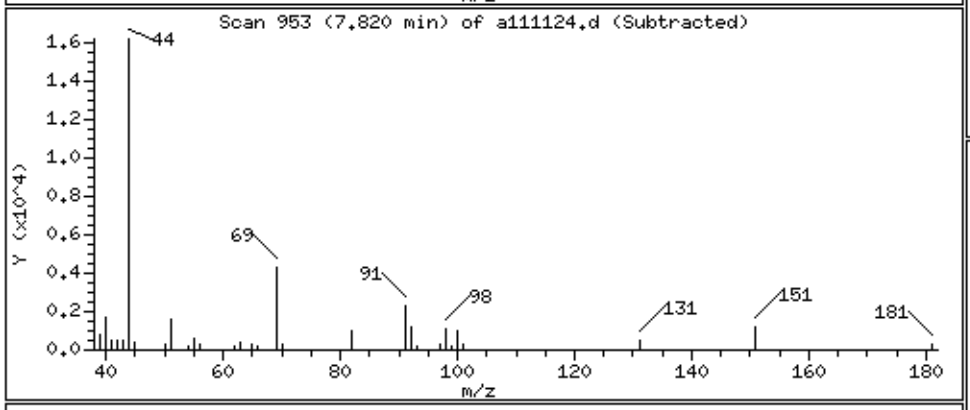
Column diameter: 0.25

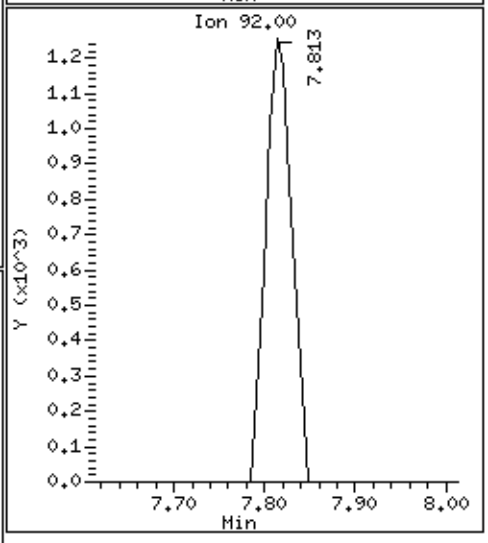
153 Toluene

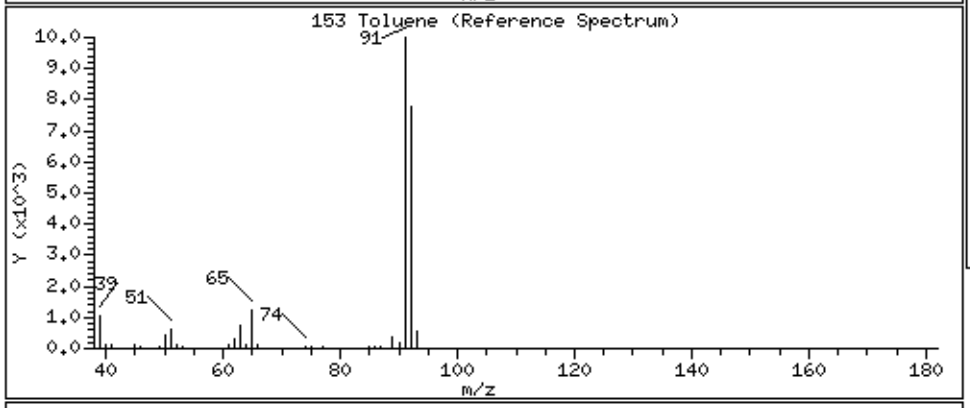
Concentration: 4.055 PPBV

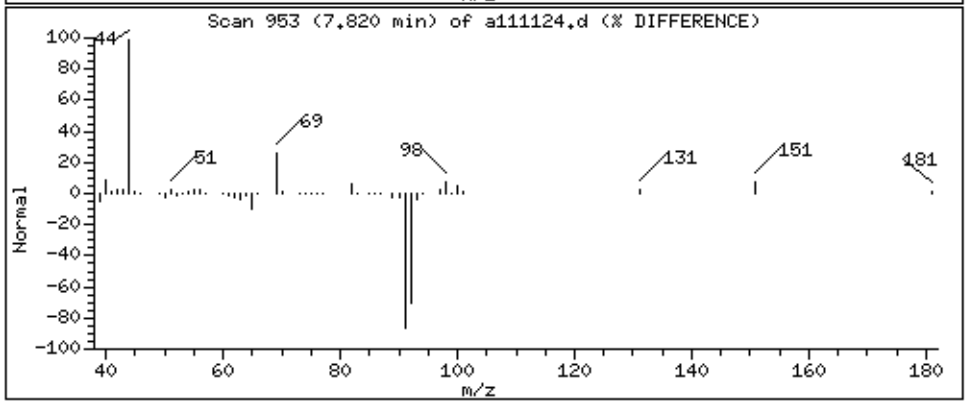












eurofins | Air Toxics

Client ID:	T1AMF-SV005B_OCT24		
Lab ID:	2410702B-32A	**Date/Time Analyzed:**	11/12/24 01:59 AM
Date/Time Collected:	10/29/24 08:22 AM	**Dilution Factor:**	2.07
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111125

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.0	3.7	4.1	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.2	5.6	6.2	Not Detected U
Benzene	71-43-2	0.58	3.0	3.3	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.2	3.7	4.1	Not Detected U
Ethyl Benzene	100-41-4	1.7	4.0	4.5	Not Detected U
m,p-Xylene	108-38-3	1.6	4.0	9.0	Not Detected U
o-Xylene	95-47-6	1.6	4.0	4.5	Not Detected U
Toluene	108-88-3	0.86	3.5	7.8	Not Detected U
trans-1,2-Dichloroethene	156-60-5	1.6	3.7	4.1	Not Detected U
Trichloroethene	79-01-6	0.82	5.0	5.6	130
Vinyl Chloride	75-01-4	1.2	2.4	2.6	Not Detected U

U = The analyte was not detected above the MDL.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	103
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111125.d
Lab Smp Id: 2410702B-32A Client Smp ID: 2410702B-32A
Inj Date : 12-NOV-2024 01:59
Operator : AB Inst ID: msda.i
Smp Info : 200mL N8356
Misc Info : 5.7 Hg->9.9 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 6
Dil Factor: 2.07000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane							CAS #: 74-97-5	
5.428	5.428 (1.000)	130	202471	25.0000			80.00- 120.00	100.00
5.428	5.428 (1.000)	128	159302				46.45- 106.45	78.68
5.428	5.428 (1.000)	49	409536				167.12- 227.12	202.27
* 126 1,4-Difluorobenzene							CAS #: 540-36-3	
6.416	6.409 (1.000)	114	741528	25.0000			80.00- 120.00	100.00
6.409	6.409 (1.000)	88	121064				0.00- 46.36	16.33
* 165 Chlorobenzene-d5							CAS #: 3114-55-4	
9.146	9.146 (1.000)	117	696511	25.0000			80.00- 120.00	100.00
9.146	9.146 (1.000)	82	398047				27.12- 87.12	57.15
$ 119 1,2-Dichloroethane-d4							CAS #: 17060-07-0	
6.015	6.015 (1.108)	65	361491	25.6636	25.664		80.00- 120.00	100.00
6.015	6.015 (1.108)	67	172156				23.36- 83.36	47.62
$ 152 Toluene-d8							CAS #: 2037-26-5	
7.756	7.756 (1.209)	98	779738	25.2200	25.220		80.00- 120.00	100.00
7.756	7.756 (1.209)	70	94324				0.00- 41.92	12.10

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	519736			39.07- 99.07	66.66
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	441151	23.7513	23.751	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	537292			89.27- 149.27	121.79
10.292	10.292 (1.125)	176	430468			66.29- 126.29	97.58
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.031)	95	153266	11.7011	24.221	80.00- 120.00	100.00
6.624	6.617 (1.032)	130	143350			67.98- 127.98	93.53
6.624	6.617 (1.032)	97	98837			34.45- 94.45	64.49

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111125.d
Lab Smp Id: 2410702B-32A
Analysis Type: VOA
Quant Type: ISTD
Operator: AB
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 5.7 Hg->9.9 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Client Smp ID: 2410702B-32A
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	202471	-23.64
126 1,4-Difluorobenze	973920	584352	1363488	741528	-23.86
165 Chlorobenzene-d5	894091	536455	1251727	696511	-22.10

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:36

US32TAR1

RECOVERY REPORT

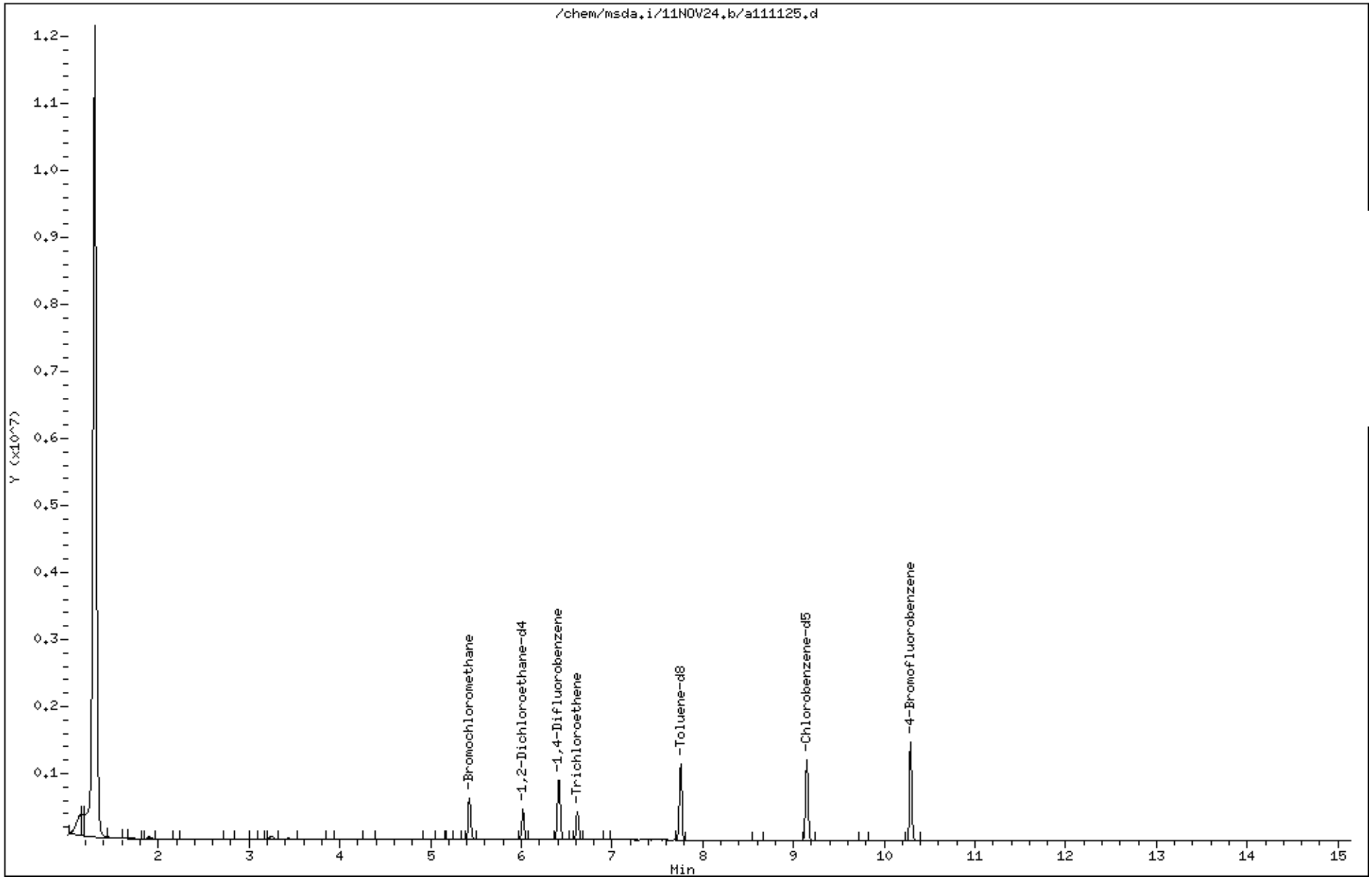
Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-32A Client Smp ID: 2410702B-32A
Level: LOW Operator: AB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 5.7 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	25.664	102.65	70-130
$ 152 Toluene-d8	25.000	25.220	100.88	70-130
$ 191 4-Bromofluorobenz	25.000	23.751	95.01	70-130

Data File: /chem/msda.i/11NOV24.b/a111125.d
Date : 12-NOV-2024 01:59
Client ID: 2410702B-32A
Sample Info: 200mL N8356

Instrument: msda.i
Operator: AB
Column diameter: 0.25

Column phase: RTX-624



Data File: /chem/msda.i/11NOV24.b/a111125.d

Date : 12-NOV-2024 01:59

Client ID: 2410702B-32A

Instrument: msda.i

Sample Info: 200mL N8356

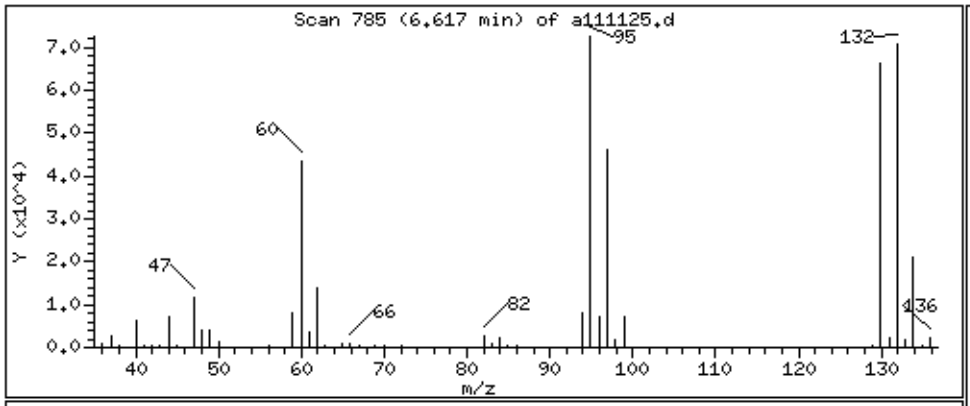
Operator: AB

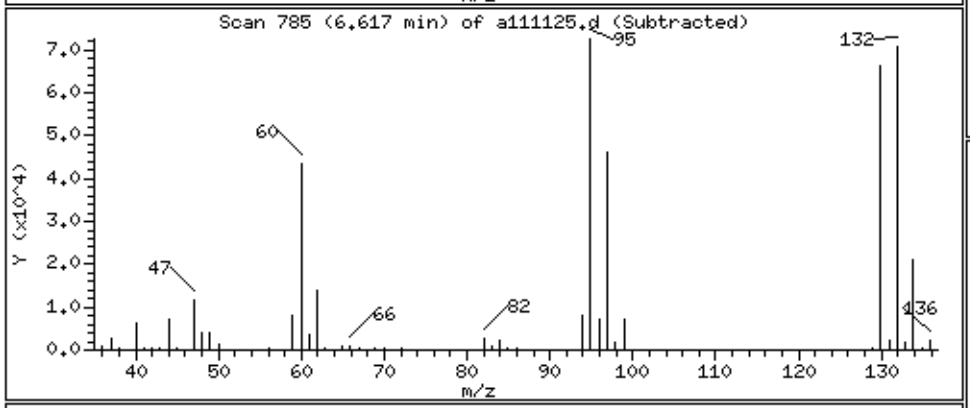
Column phase: RTX-624

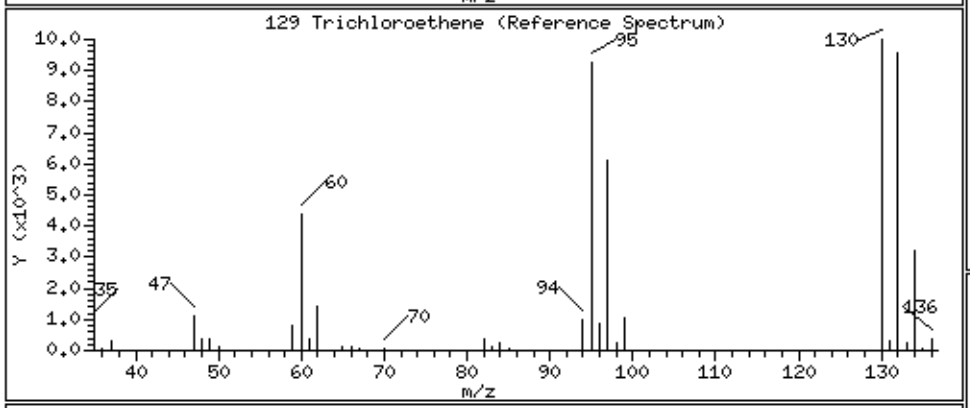
Column diameter: 0.25

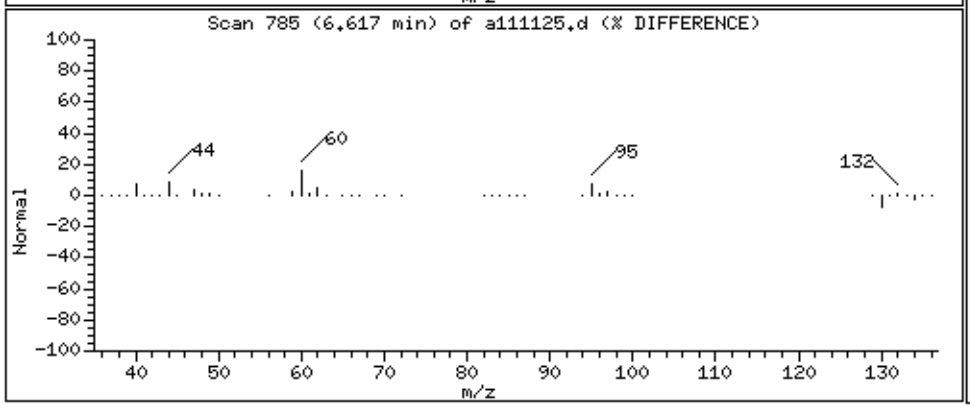
129 Trichloroethene

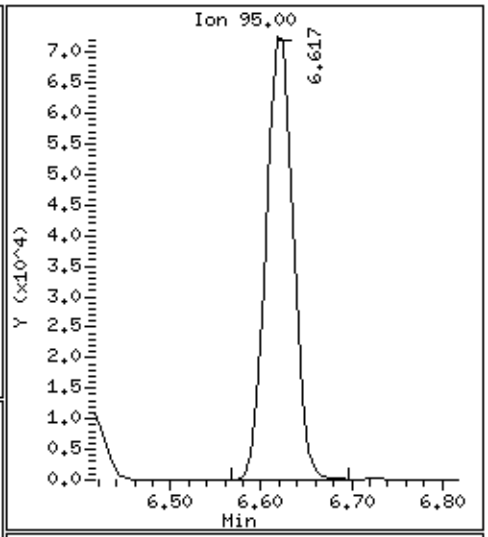
Concentration: 24.221 PPBV

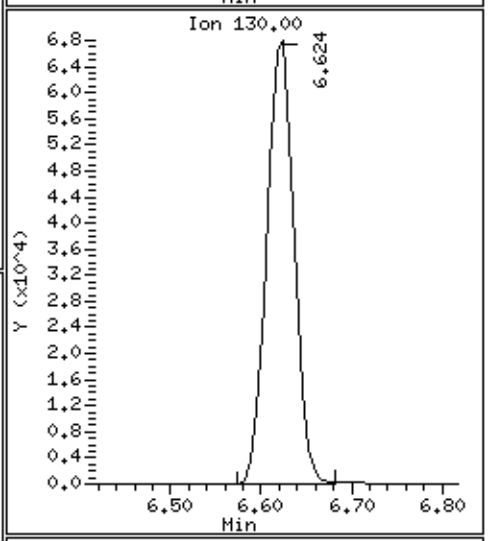


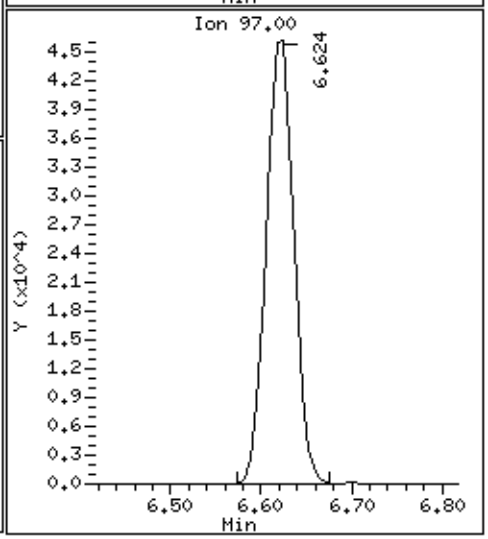












eurofins | Air Toxics

Client ID:	T1AMF-SV006_OCT24		
Lab ID:	2410702B-33A	**Date/Time Analyzed:**	11/12/24 02:36 AM
Date/Time Collected:	10/29/24 09:24 AM	**Dilution Factor:**	2.07
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111126

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.0	3.7	4.1	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.2	5.6	6.2	Not Detected U
Benzene	71-43-2	0.58	3.0	3.3	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.2	3.7	4.1	Not Detected U
Ethyl Benzene	100-41-4	1.7	4.0	4.5	Not Detected U
m,p-Xylene	108-38-3	1.6	4.0	9.0	Not Detected U
o-Xylene	95-47-6	1.6	4.0	4.5	Not Detected U
Toluene	108-88-3	0.86	3.5	7.8	1.0 J
trans-1,2-Dichloroethene	156-60-5	1.6	3.7	4.1	Not Detected U
Trichloroethene	79-01-6	0.82	5.0	5.6	5.7
Vinyl Chloride	75-01-4	1.2	2.4	2.6	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	94
4-Bromofluorobenzene	460-00-4	70-130	84
Toluene-d8	2037-26-5	70-130	104

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111126.d
Lab Smp Id: 2410702B-33A Client Smp ID: 2410702B-33A
Inj Date : 12-NOV-2024 02:36
Operator : AB Inst ID: msda.i
Smp Info : 200mL N1951
Misc Info : 5.7 Hg->9.9 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 7
Dil Factor: 2.07000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.435	5.428 (1.000)	130	212603	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	166698			46.45- 106.45	78.41
5.428	5.428 (1.000)	49	442674			167.12- 227.12	208.22
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	717823	25.0000		80.00- 120.00	100.00
6.416	6.409 (1.000)	88	120844			0.00- 46.36	16.83
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.146 (1.000)	117	781588	25.0000		80.00- 120.00	100.00
9.145	9.146 (1.000)	82	450013			27.12- 87.12	57.58
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.107)	65	346342	23.4163	23.416	80.00- 120.00	100.00
6.015	6.015 (1.107)	67	165439			23.36- 83.36	47.77
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	778400	26.0082	26.008	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	92041			0.00- 41.92	11.82

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	515349			39.07- 99.07	66.21
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.124)	174	438836	21.0549	21.055	80.00- 120.00	100.00
10.292	10.292 (1.124)	95	532568			89.27- 149.27	121.36
10.292	10.292 (1.124)	176	425159			66.29- 126.29	96.88
129 Trichloroethene					CAS #: 79-01-6		
6.624	6.617 (1.032)	95	6532	0.51516	1.066	80.00- 120.00	100.00
6.624	6.617 (1.032)	130	5772			67.98- 127.98	88.36
6.624	6.617 (1.032)	97	3993			34.45- 94.45	61.12
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.218)	91	4384	0.13419	0.2778	80.00- 120.00	100.00(a)
7.820	7.813 (1.219)	92	2381			27.69- 87.69	54.33

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111126.d
Lab Smp Id: 2410702B-33A
Analysis Type: VOA
Quant Type: ISTD
Operator: AB
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 5.7 Hg->9.9 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Client Smp ID: 2410702B-33A
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	212603	-19.82
126 1,4-Difluorobenze	973920	584352	1363488	717823	-26.30
165 Chlorobenzene-d5	894091	536455	1251727	781588	-12.58

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:36

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-33A Client Smp ID: 2410702B-33A
Level: LOW Operator: AB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 5.7 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	23.416	93.67	70-130
$ 152 Toluene-d8	25.000	26.008	104.03	70-130
$ 191 4-Bromofluorobenz	25.000	21.055	84.22	70-130

Data File: /chem/msda.i/11NOV24.b/a111126.d

Page 1

Date : 12-NOV-2024 02:36

Client ID: 2410702B-33A

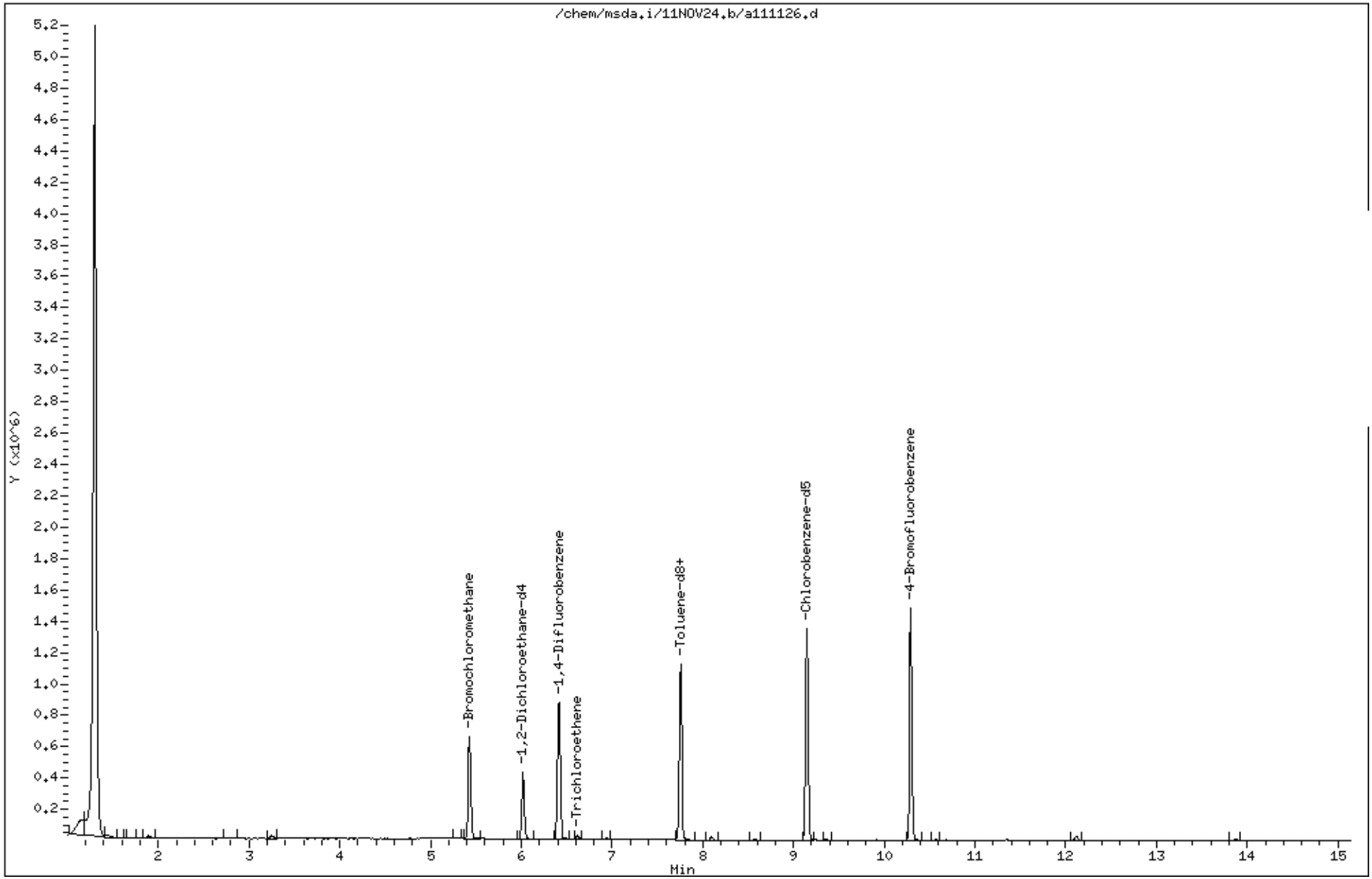
Instrument: msda.i

Sample Info: 200mL N1951

Operator: AB

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msda.i/11NOV24.b/a111126.d

Date : 12-NOV-2024 02:36

Client ID: 2410702B-33A

Instrument: msda.i

Sample Info: 200mL N1951

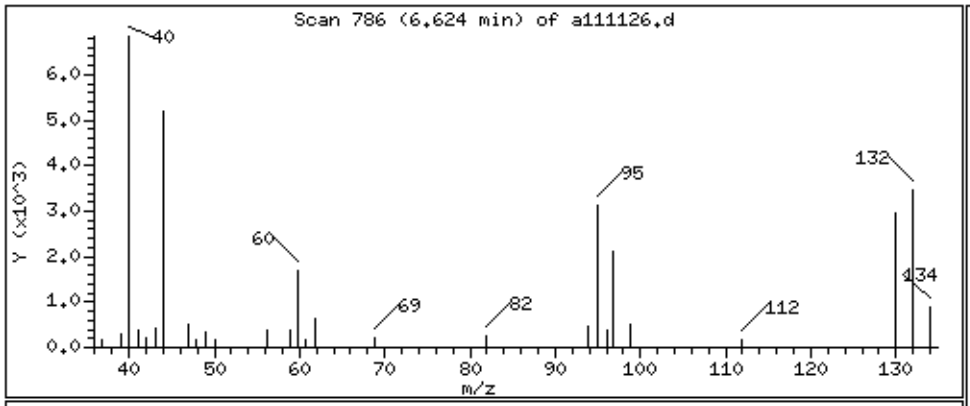
Operator: AB

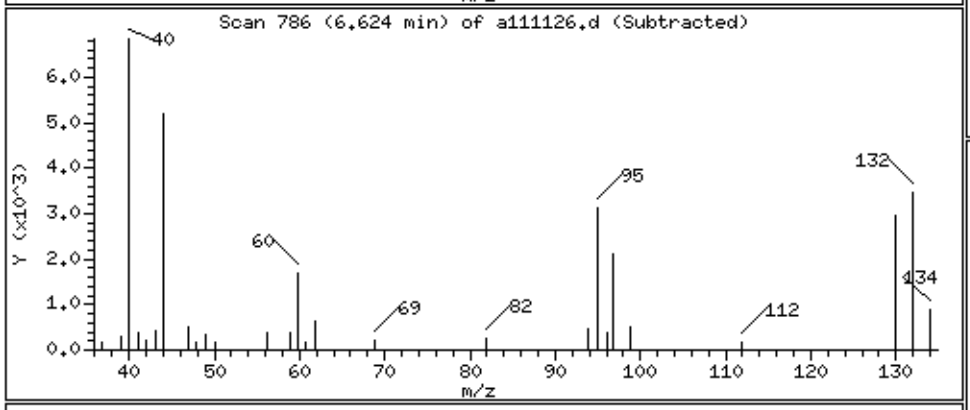
Column phase: RTX-624

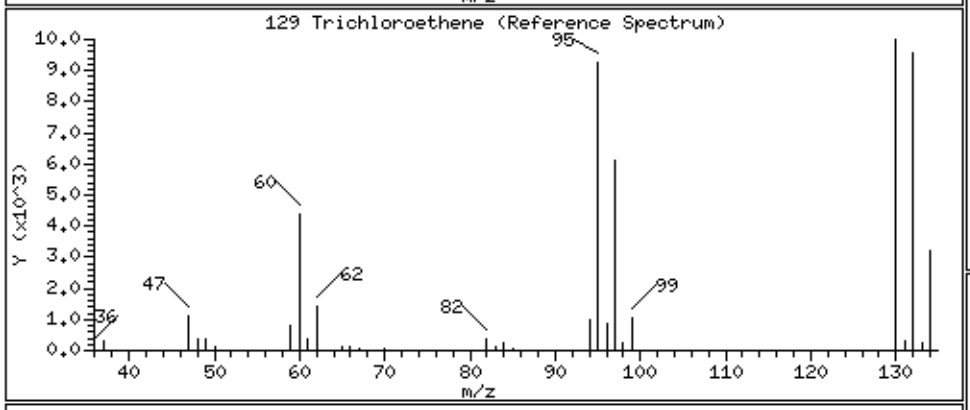
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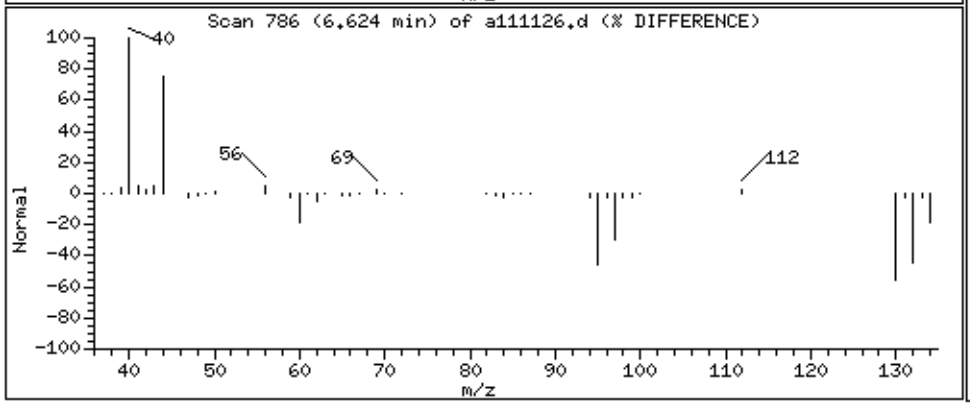
129 Trichloroethene

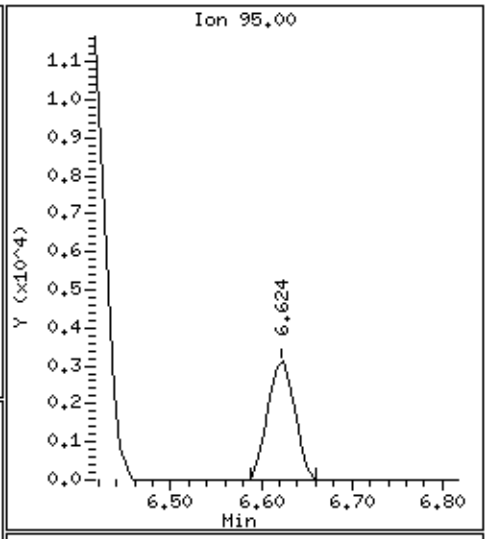
Concentration: 1.066 PPBV

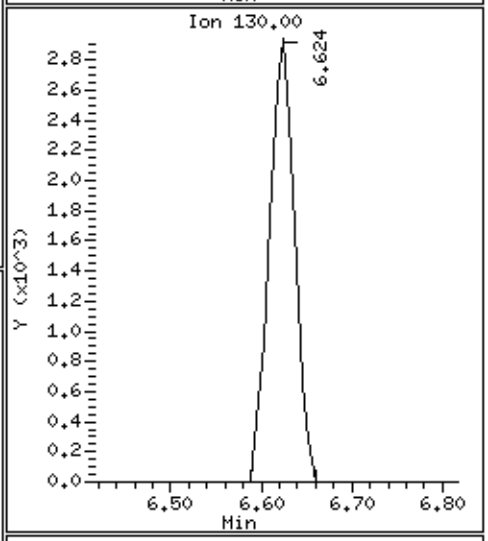


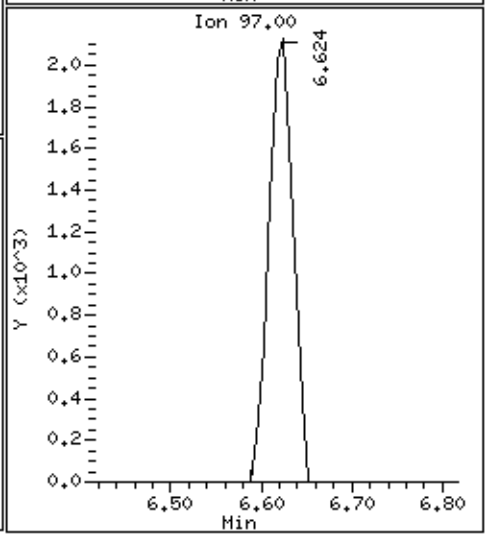












Data File: /chem/msda.i/11NOV24.b/a111126.d

Date : 12-NOV-2024 02:36

Client ID: 2410702B-33A

Instrument: msda.i

Sample Info: 200mL N1951

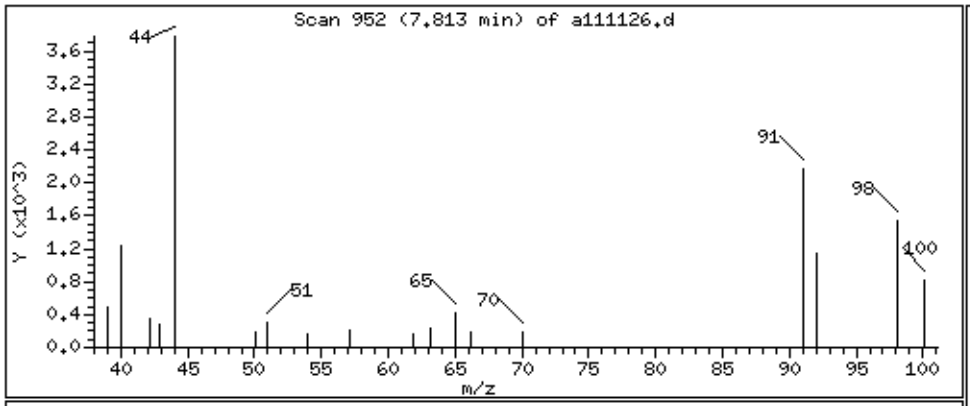
Operator: AB

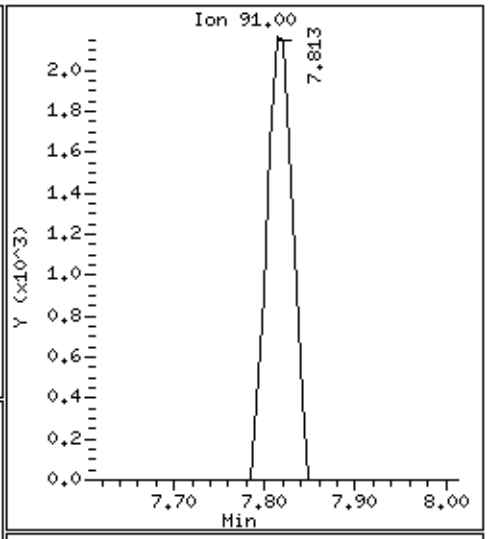
Column phase: RTX-624

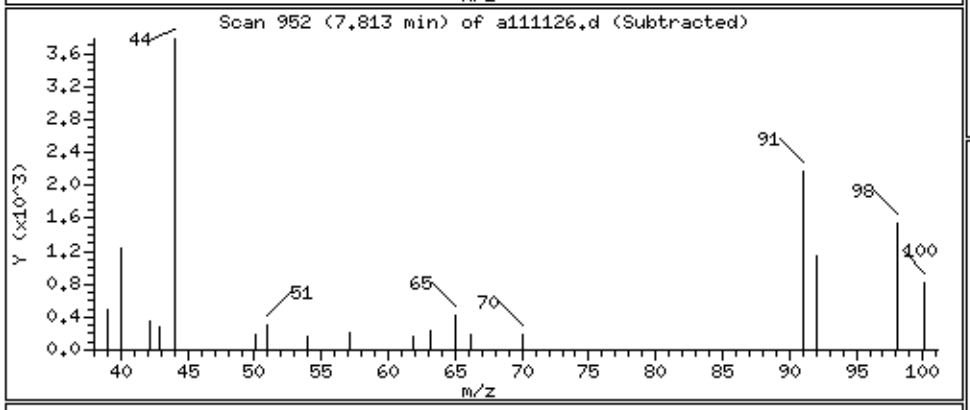
Column diameter: 0.25

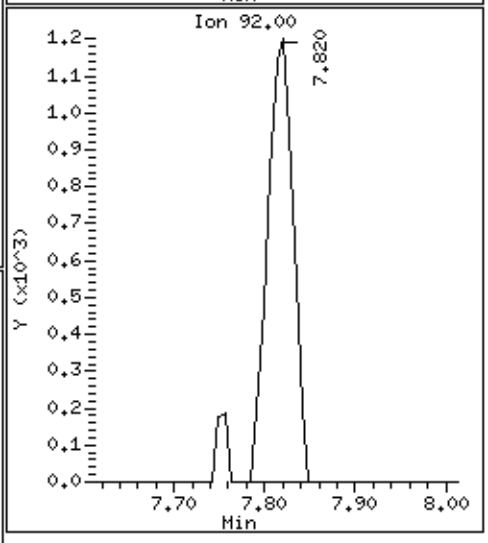
153 Toluene

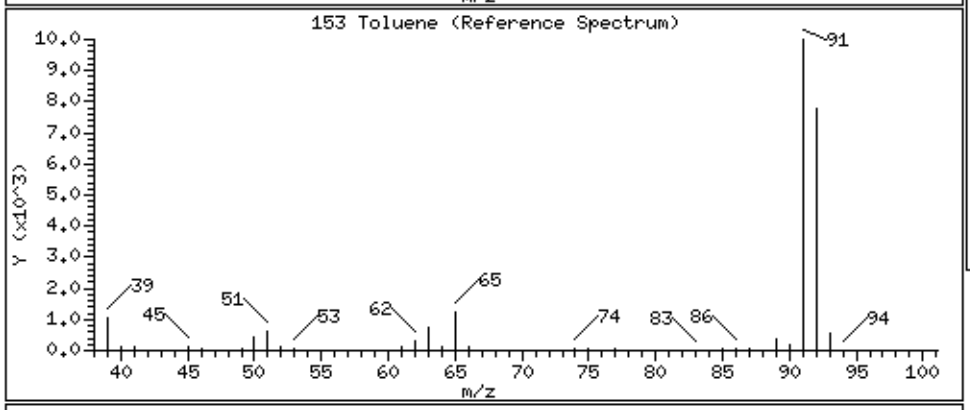
Concentration: 0.2778 PPBV

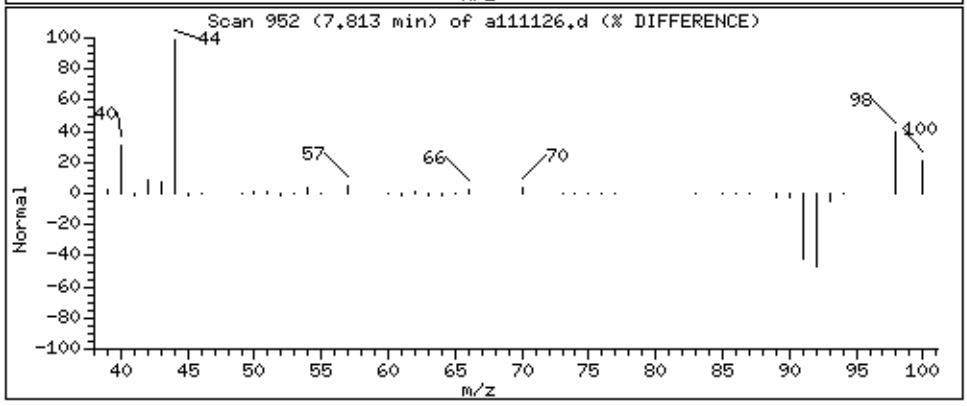












eurofins | Air Toxics

Client ID:	T1AMF-SV016_OCT24		
Lab ID:	2410702B-34A	**Date/Time Analyzed:**	11/12/24 07:02 AM
Date/Time Collected:	10/29/24 10:37 AM	**Dilution Factor:**	2.00
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111129

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.98	3.6	4.0	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.1	5.4	6.0	Not Detected U
Benzene	71-43-2	0.56	2.9	3.2	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.2	3.6	4.0	Not Detected U
Ethyl Benzene	100-41-4	1.6	3.9	4.3	Not Detected U
m,p-Xylene	108-38-3	1.6	3.9	8.7	Not Detected U
o-Xylene	95-47-6	1.5	3.9	4.3	Not Detected U
Toluene	108-88-3	0.83	3.4	7.5	0.96 J
trans-1,2-Dichloroethene	156-60-5	1.5	3.6	4.0	Not Detected U
Trichloroethene	79-01-6	0.79	4.8	5.4	210
Vinyl Chloride	75-01-4	1.2	2.3	2.6	Not Detected U

U = The analyte was not detected above the MDL.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	100
4-Bromofluorobenzene	460-00-4	70-130	105
Toluene-d8	2037-26-5	70-130	102

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111129.d
Lab Smp Id: 2410702B-34A Client Smp ID: 2410702B-34A
Inj Date : 12-NOV-2024 07:02
Operator : mjs Inst ID: msda.i
Smp Info : 200mL O1058
Misc Info : 4.9 Hg->9.9 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 8
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	194100	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	152501			46.45- 106.45	78.57
5.428	5.428 (1.000)	49	401051			167.12- 227.12	206.62
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	705329	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	119029			0.00- 46.36	16.88
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	669184	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	383458			27.12- 87.12	57.30
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	337245	24.9749	24.975	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	161566			23.36- 83.36	47.91
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	751867	25.5666	25.567	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	92982			0.00- 41.92	12.37

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	506003			39.07- 99.07	67.30
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	468693	26.2646	26.265	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	570637			89.27- 149.27	121.75
10.292	10.292 (1.125)	176	447488			66.29- 126.29	95.48
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.031)	95	244671	19.6381	39.276	80.00- 120.00	100.00
6.624	6.617 (1.032)	130	241555			67.98- 127.98	98.73
6.624	6.617 (1.032)	97	158332			34.45- 94.45	64.71
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.218)	91	4090	0.12741	0.2548	80.00- 120.00	100.00(a)
7.820	7.813 (1.219)	92	2494			27.69- 87.69	60.98

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111129.d
Lab Smp Id: 2410702B-34A
Analysis Type: VOA
Quant Type: ISTD
Operator: mjs
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 4.9 Hg->9.9 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Client Smp ID: 2410702B-34A
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	194100	-26.80
126 1,4-Difluorobenze	973920	584352	1363488	705329	-27.58
165 Chlorobenzene-d5	894091	536455	1251727	669184	-25.15

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:52

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-34A Client Smp ID: 2410702B-34A
Level: LOW Operator: mjs
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 4.9 Hg->9.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	24.975	99.90	70-130
$ 152 Toluene-d8	25.000	25.567	102.27	70-130
$ 191 4-Bromofluorobenz	25.000	26.265	105.06	70-130

Data File: /chem/msda.i/11NOV24.b/a111129.d

Page 1

Date : 12-NOV-2024 07:02

Client ID: 2410702B-34A

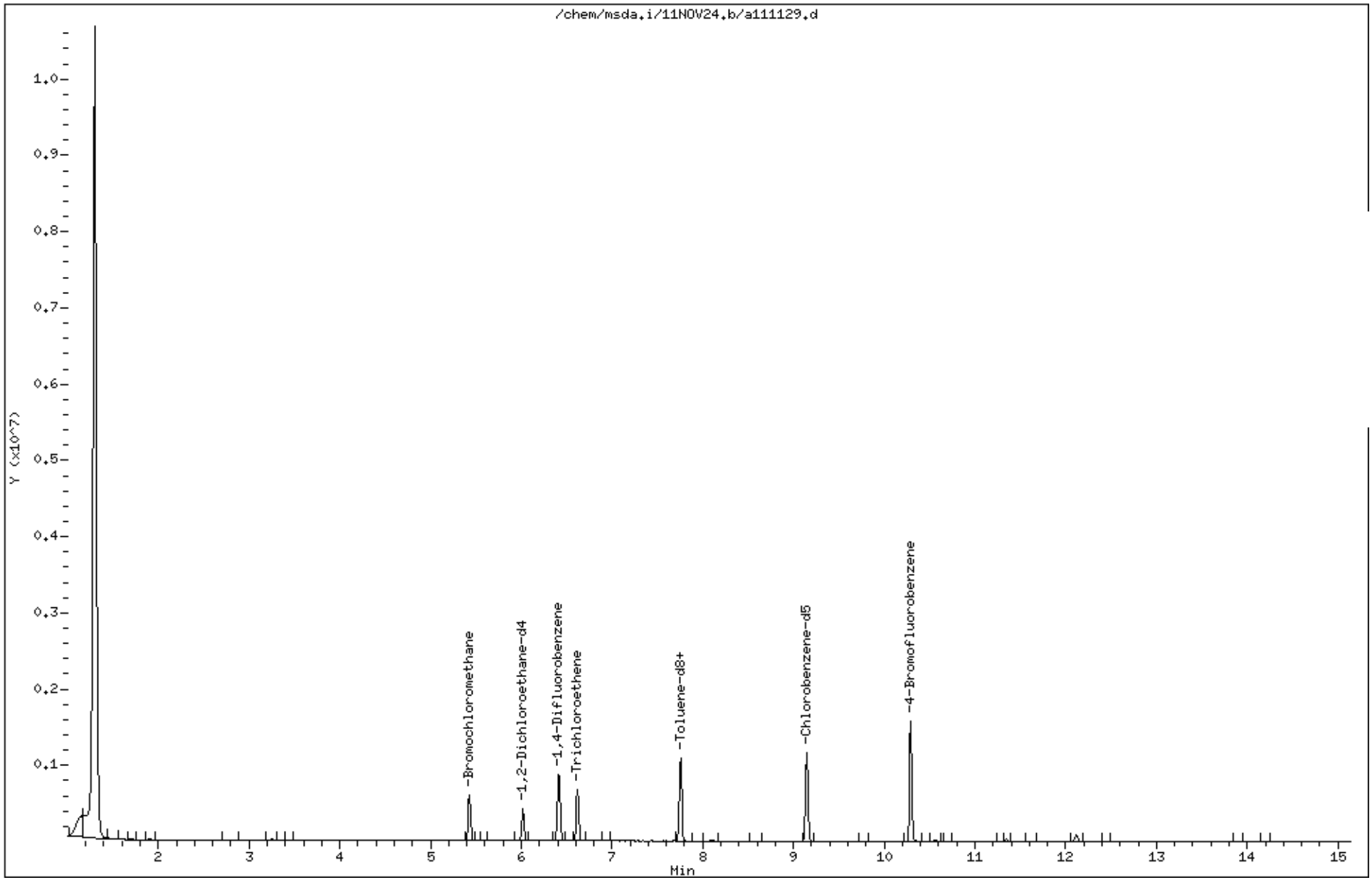
Instrument: msda.i

Sample Info: 200mL 01058

Operator: mjs

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msda.i/11NOV24.b/a111129.d

Date : 12-NOV-2024 07:02

Client ID: 2410702B-34A

Instrument: msda.i

Sample Info: 200mL 01058

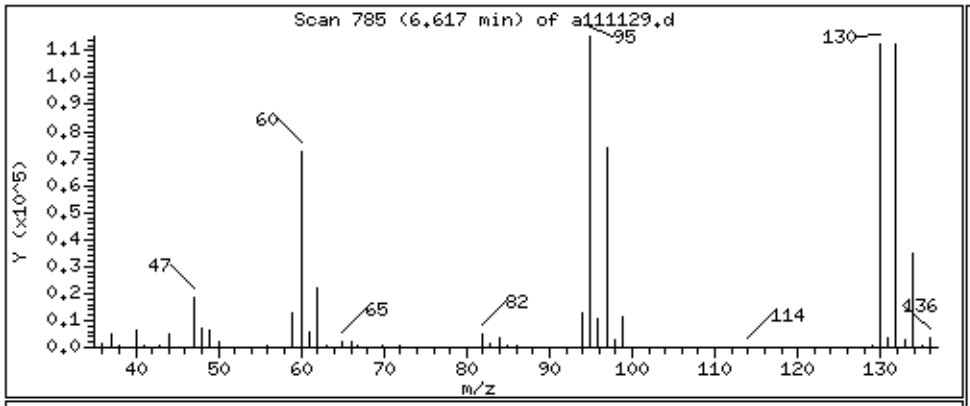
Operator: mjs

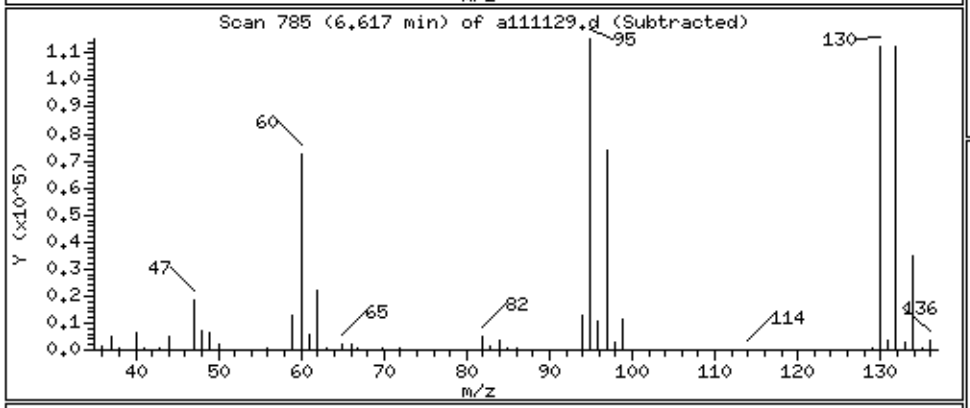
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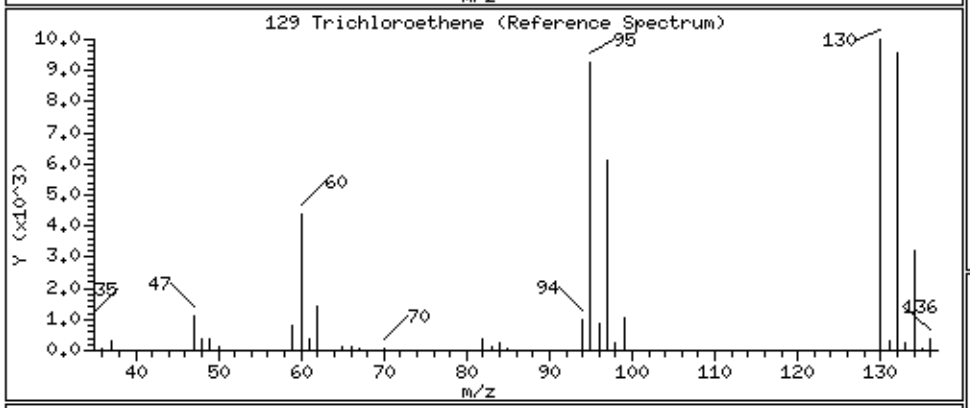
Column diameter: 0.25

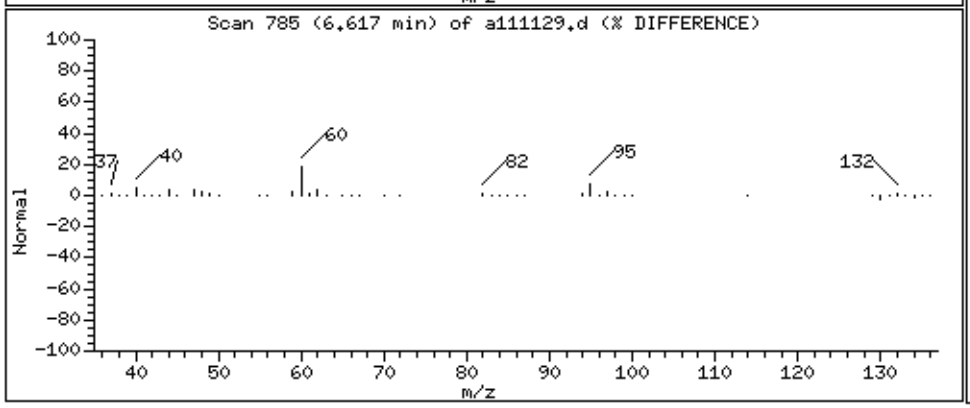
129 Trichloroethene

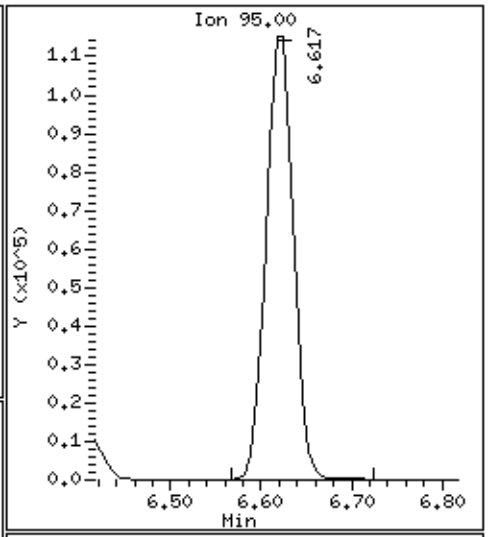
Concentration: 39.276 PPBV

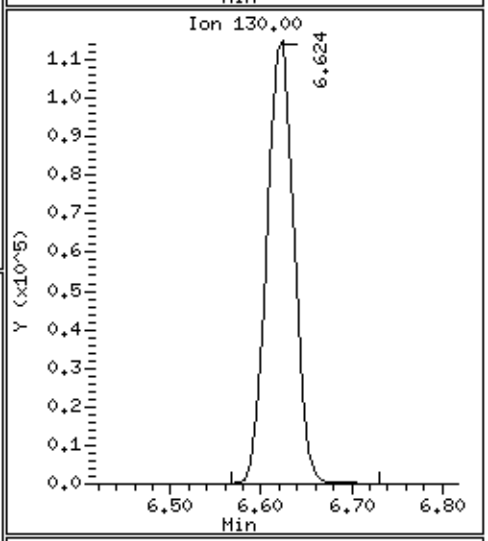


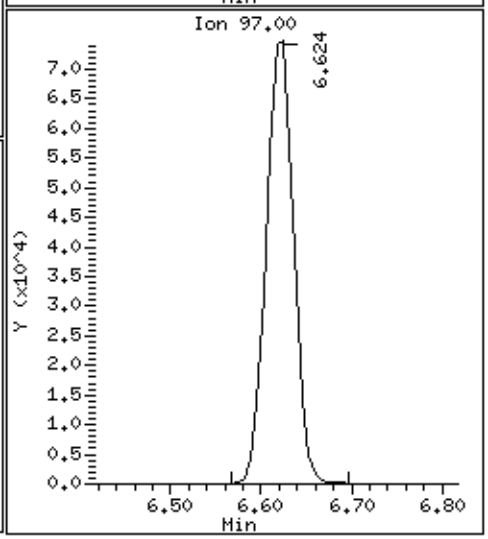












Data File: /chem/msda.i/11NOV24.b/a111129.d

Date : 12-NOV-2024 07:02

Client ID: 2410702B-34A

Instrument: msda.i

Sample Info: 200mL 01058

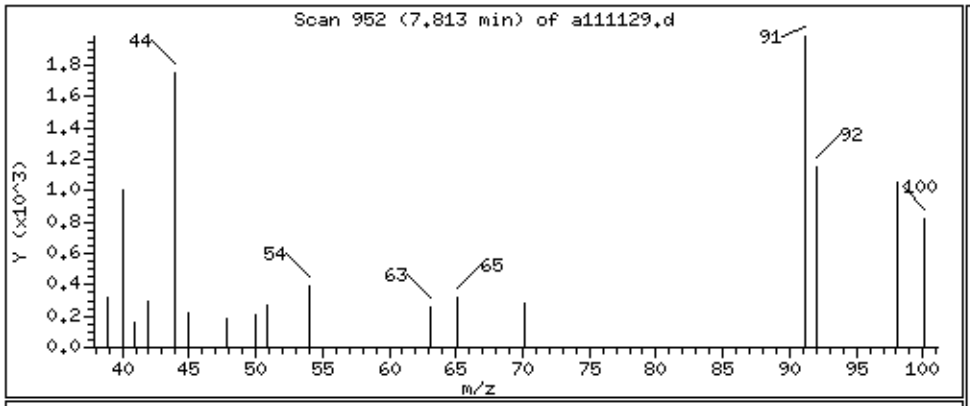
Operator: mjs

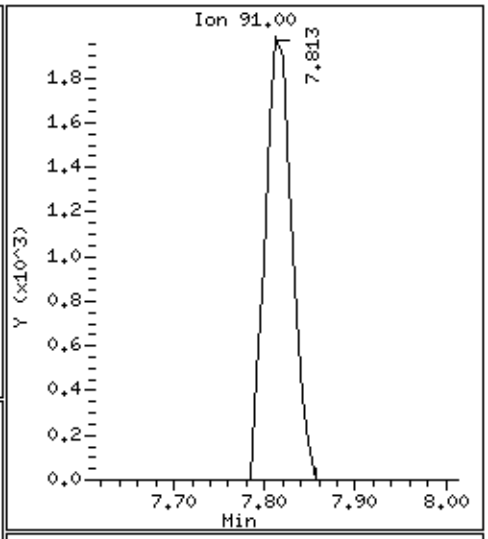
Column phase: RTX-624

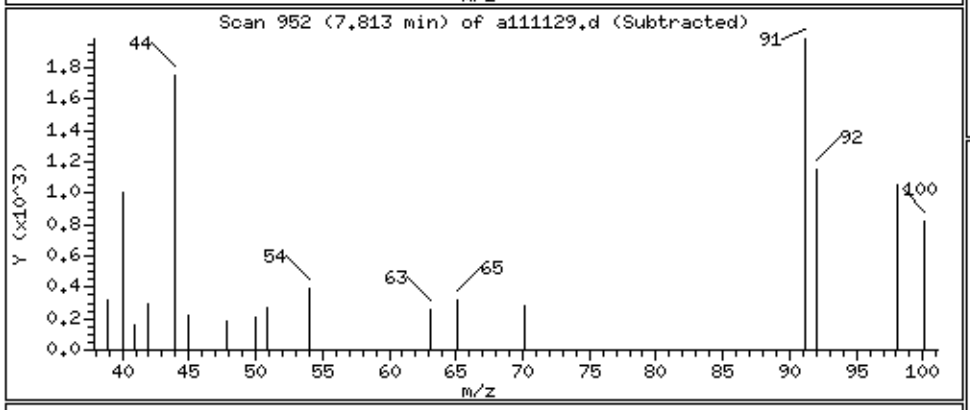
Column diameter: 0.25

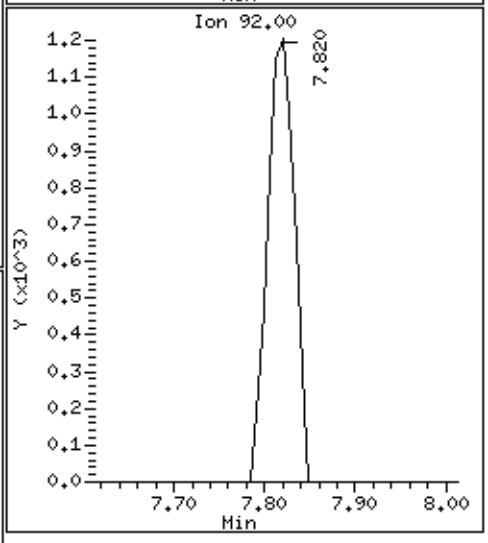
153 Toluene

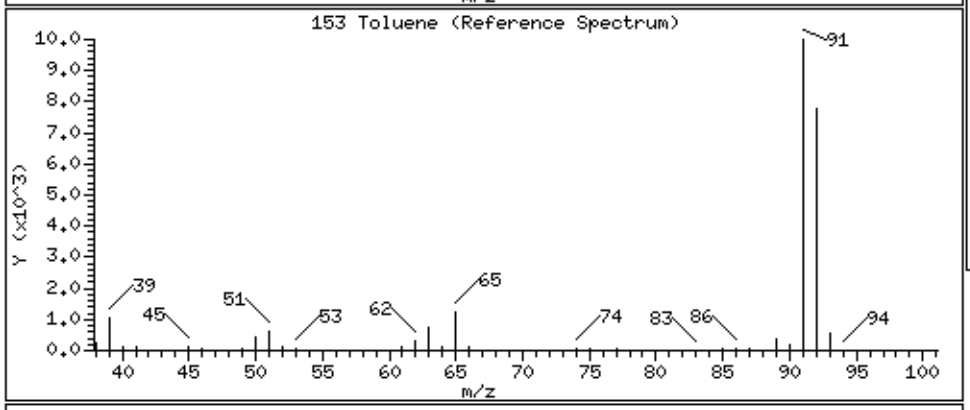
Concentration: 0.2548 PPBV

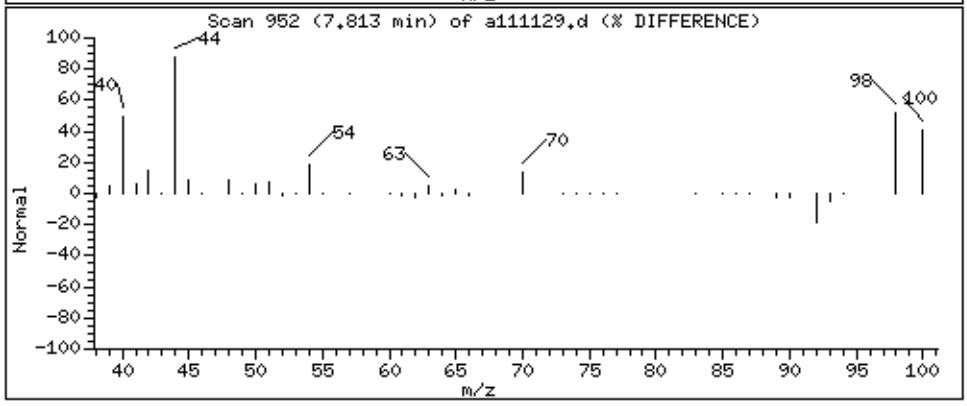












eurofins | Air Toxics

Client ID:	T1AMF-SV018_OCT24		
Lab ID:	2410702B-35A	**Date/Time Analyzed:**	11/12/24 03:48 AM
Date/Time Collected:	10/29/24 12:55 PM	**Dilution Factor:**	2.15
Media:	1 Liter Summa Canister	**Instrument/Filename:**	msda.i / a111128

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	1.0	3.8	4.3	Not Detected U
1,4-Dichlorobenzene	106-46-7	2.2	5.8	6.5	Not Detected U
Benzene	71-43-2	0.60	3.1	3.4	Not Detected U
cis-1,2-Dichloroethene	156-59-2	1.3	3.8	4.3	Not Detected U
Ethyl Benzene	100-41-4	1.8	4.2	4.7	Not Detected U
m,p-Xylene	108-38-3	1.7	4.2	9.3	Not Detected U
o-Xylene	95-47-6	1.6	4.2	4.7	Not Detected U
Toluene	108-88-3	0.89	3.6	8.1	Not Detected U
trans-1,2-Dichloroethene	156-60-5	1.6	3.8	4.3	Not Detected U
Trichloroethene	79-01-6	0.85	5.2	5.8	Not Detected U
Vinyl Chloride	75-01-4	1.3	2.5	2.7	Not Detected U

U = The analyte was not detected above the MDL.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	98
4-Bromofluorobenzene	460-00-4	70-130	96
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111128.d
Lab Smp Id: 2410702B-35A Client Smp ID: 2410702B-35A
Inj Date : 12-NOV-2024 03:48
Operator : AB Inst ID: msda.i
Smp Info : 200mL N6171
Misc Info : 6.5 Hg->10.1 psi
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 9
Dil Factor: 2.15000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.435	5.428 (1.000)	130	196963	25.0000		80.00- 120.00	100.00
5.435	5.428 (1.000)	128	153684			46.45- 106.45	78.03
5.428	5.428 (1.000)	49	398102			167.12- 227.12	202.12
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	717135	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	118363			0.00- 46.36	16.51
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.145	9.146 (1.000)	117	675993	25.0000		80.00- 120.00	100.00
9.145	9.146 (1.000)	82	384546			27.12- 87.12	56.89
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.107)	65	335946	24.5170	24.517	80.00- 120.00	100.00
6.022	6.015 (1.108)	67	160253			23.36- 83.36	47.70
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	755787	25.2768	25.277	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	89382			0.00- 41.92	11.83

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.209)	100	503386			39.07- 99.07	66.60
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	433343	24.0391	24.039	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	520440			89.27- 149.27	120.10
10.292	10.292 (1.125)	176	410916			66.29- 126.29	94.82

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111128.d
Lab Smp Id: 2410702B-35A
Analysis Type: VOA
Quant Type: ISTD
Operator: AB
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 6.5 Hg->10.1 psi

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Client Smp ID: 2410702B-35A
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	196963	-25.72
126 1,4-Difluorobenze	973920	584352	1363488	717135	-26.37
165 Chlorobenzene-d5	894091	536455	1251727	675993	-24.39

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:36

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 2410702B-35A Client Smp ID: 2410702B-35A
Level: LOW Operator: AB
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 6.5 Hg->10.1 psi

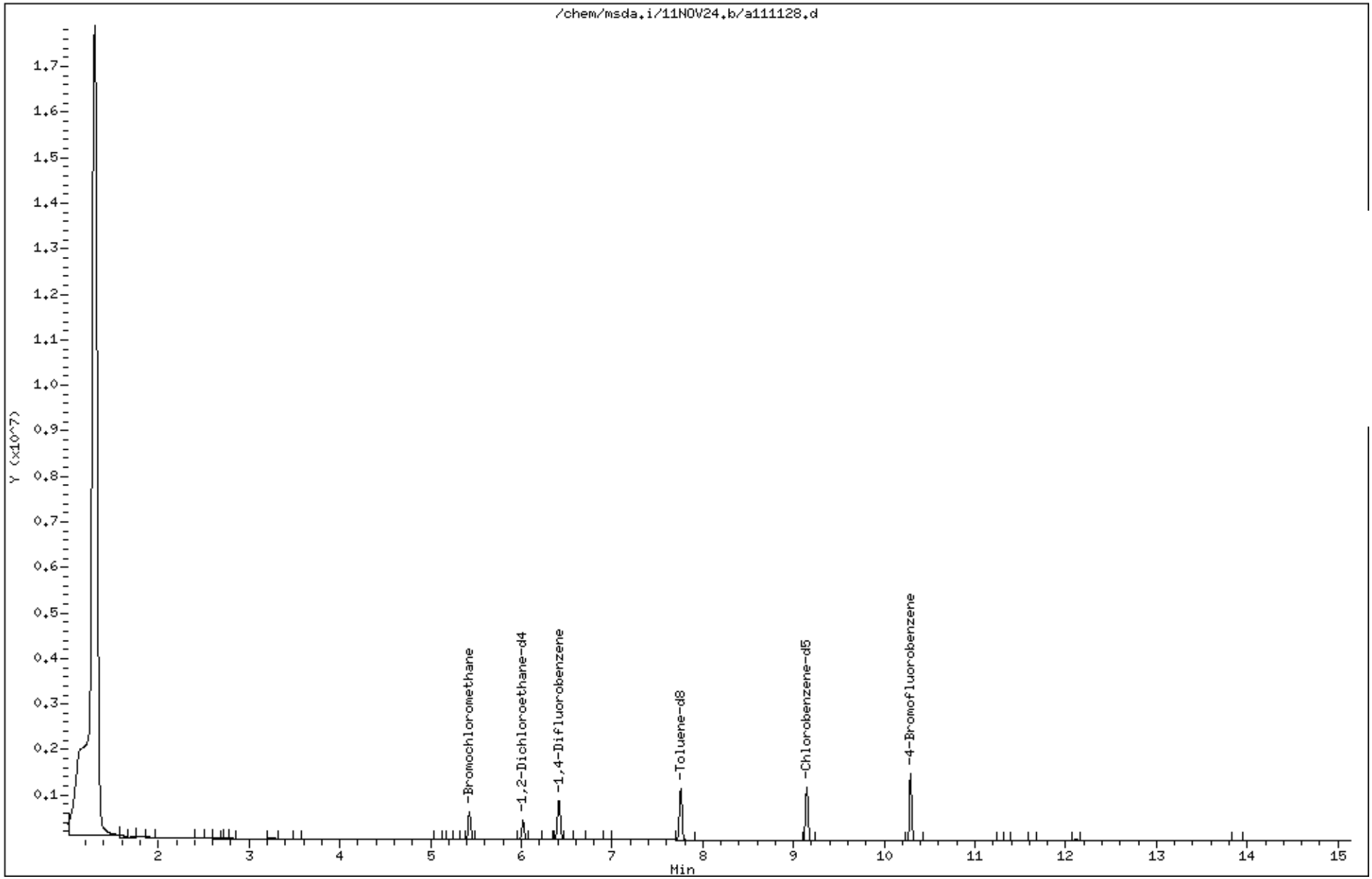
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	24.517	98.07	70-130
$ 152 Toluene-d8	25.000	25.277	101.11	70-130
$ 191 4-Bromofluorobenz	25.000	24.039	96.16	70-130

Data File: /chem/msda.i/11NOV24.b/a111128.d
Date : 12-NOV-2024 03:48
Client ID: 2410702B-35A
Sample Info: 200mL N6171

Instrument: msda.i

Operator: AB
Column diameter: 0.25

Column phase: RTX-624



QC Results and Raw Data

eurofins | Air Toxics

Client ID:	Lab Blank		
Lab ID:	2410702B-36A	**Date/Time Analyzed:**	11/11/24 11:22 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msda.i / a111106c

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	75-35-4	0.49	1.8	2.0	Not Detected U
1,4-Dichlorobenzene	106-46-7	1.0	2.7	3.0	Not Detected U
Benzene	71-43-2	0.28	1.4	1.6	Not Detected U
cis-1,2-Dichloroethene	156-59-2	0.60	1.8	2.0	Not Detected U
Ethyl Benzene	100-41-4	0.82	2.0	2.2	Not Detected U
m,p-Xylene	108-38-3	0.78	2.0	4.3	Not Detected U
o-Xylene	95-47-6	0.76	2.0	2.2	Not Detected U
Toluene	108-88-3	0.41	1.7	3.8	Not Detected U
trans-1,2-Dichloroethene	156-60-5	0.76	1.8	2.0	Not Detected U
Trichloroethene	79-01-6	0.39	2.4	2.7	Not Detected U
Vinyl Chloride	75-01-4	0.59	1.2	1.3	Not Detected U

U = The analyte was not detected above the MDL.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	90
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	98

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111106c.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 11-NOV-2024 11:22
Operator : MS Inst ID: msda.i
Smp Info : 200mL 6L2284
Misc Info : Humid
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:00 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAR28661.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.421	5.428 (1.000)	130	266423	25.0000		80.00- 120.00	100.00
5.421	5.428 (1.000)	128	208343			46.45- 106.45	78.20
5.421	5.428 (1.000)	49	553414			167.12- 227.12	207.72
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	969392	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	154227			0.00- 46.36	15.91
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.145	9.146 (1.000)	117	898030	25.0000		80.00- 120.00	100.00
9.145	9.146 (1.000)	82	497868			27.12- 87.12	55.44
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.110)	65	416444	22.4682	22.468	80.00- 120.00	100.00
6.015	6.015 (1.110)	67	206606			23.36- 83.36	49.61
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.749	7.756 (1.209)	98	987842	24.4406	24.441	80.00- 120.00	100.00
7.749	7.756 (1.209)	70	115605			0.00- 41.92	11.70

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.749	7.756 (1.209)	100	669313			39.07- 99.07	67.76
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	549272	22.9364	22.936	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	671224			89.27- 149.27	122.20
10.292	10.292 (1.125)	176	527588			66.29- 126.29	96.05

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111106c.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: Humid

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	266423	0.47
126 1,4-Difluorobenze	973920	584352	1363488	969392	-0.46
165 Chlorobenzene-d5	894091	536455	1251727	898030	0.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.42	-0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	-0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 12-Nov-2024 14:00

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: MS
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: PAR28661.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.468	89.87	70-130
$ 152 Toluene-d8	25.000	24.441	97.76	70-130
$ 191 4-Bromofluorobenz	25.000	22.936	91.75	70-130

Data File: /chem/msda.i/11NOV24.b/a111106c.d

Page 1

Date : 11-NOV-2024 11:22

Client ID: Lab Blank

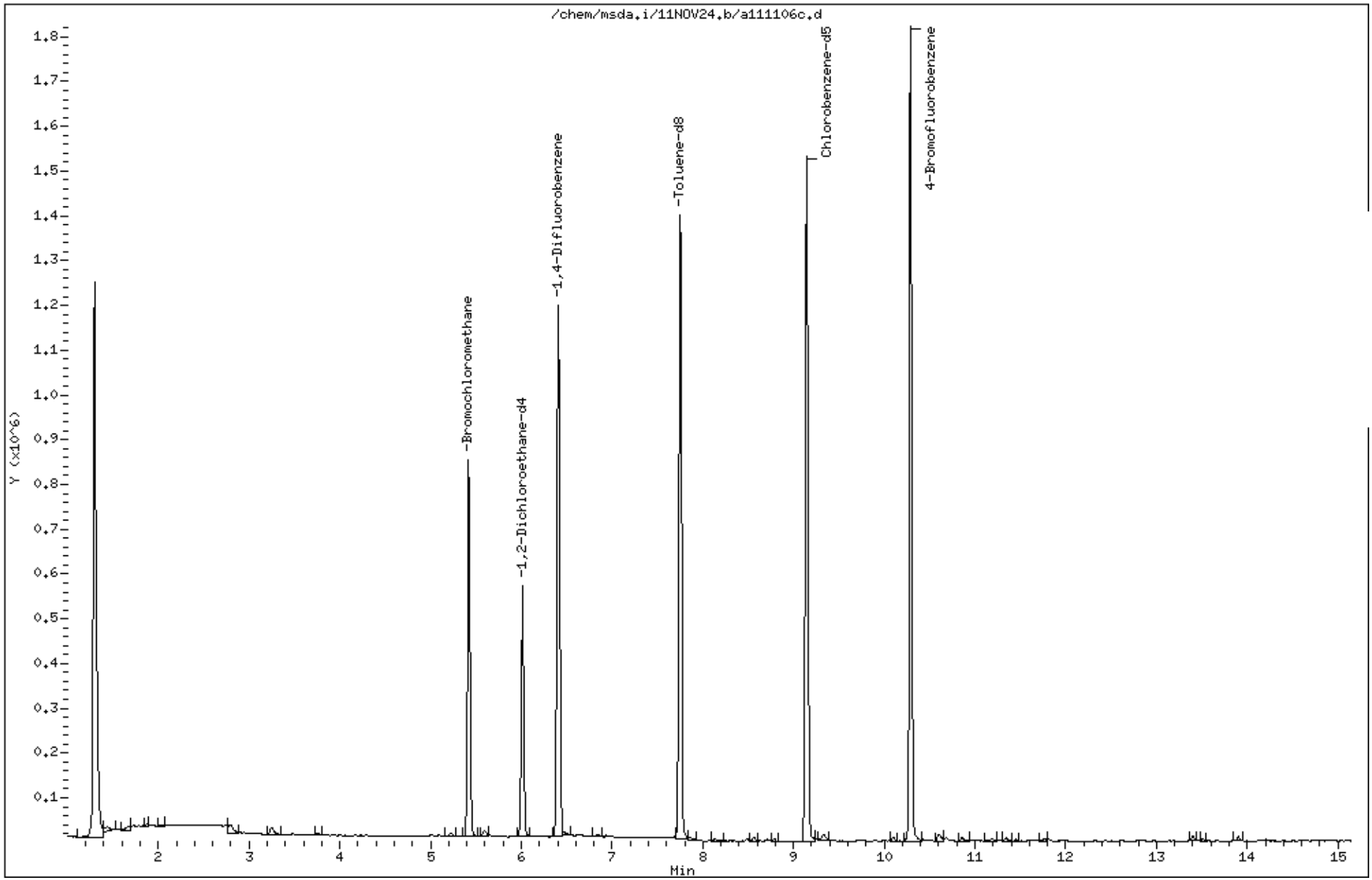
Instrument: msda.i

Sample Info: 200mL 6L2284

Operator: MS

Column phase: RTX-624

Column diameter: 0.25



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15

SURROGATE RECOVERY FORM

Lab Name : Eurofins Air Toxics _____ SDG No. :2410702B

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY						
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#	TOTAL OUT
1	T1AMF-SV033_OCT24	91		104		95		
2	T1AMF-SV033_OCT24 Lab Duplicat	90		101		94		
3	T1AMF-SV023_OCT24	91		102		91		
4	T1AMF-SV023_OCT24_FD	92		103		93		
5	T1AMF-SV021_OCT24	91		103		91		
6	T1AMF-SV002_OCT24	91		102		93		
7	T1AMF-SV034_OCT24	92		101		93		
8	T1AMF-SV020_OCT24	93		102		92		
9	T1AMF-SV022_OCT24	90		102		91		
10	T1AMF-SV025_OCT24	91		101		92		
11	T1AMF-SV019_OCT24	92		101		93		
12	T1AMF-SV004_OCT24	92		103		91		
13	T1AMF-SV09B_OCT24	95		101		93		
14	T1AMF-SV015B_OCT24	92		101		93		
15	T1AMF-SV030_OCT24	95		100		94		
16	T1AMF-SV029_OCT24	100		100		92		
17	T1AMF-SV005B_OCT24	103		101		95		
18	T1AMF-SV006_OCT24	94		104		84		
19	T1AMF-SV016_OCT24	100		102		105		
20	T1AMF-SV018_OCT24	98		101		96		
21	Lab Blank	90		98		92		
22	CCV	92		104		95		
23	CCV	101		101		100		
24	LCS	90		102		96		
25	LCSD	91		103		95		

Surrogate Recovery Limits

1,2-Dichloroethane-d4	70 - 130
Toluene-d8	70 - 130
4-Bromofluorobenzene	70 - 130

* Designates Values Outside of QC limits

LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name : Eurofins Air Toxics File ID: a111103.d Date : 2024-11-11 09:37:00 SDG No. : 2410702B

		Bromochloromethane		RT		1,4-Difluorobenzene		RT		Chlorobenzene-d5		RT	
	24-HOUR CCV	265167		5.43		973920		6.41		894091		9.15	
	UPPER LIMIT	371233		5.76		1363488		6.74		1251727		9.48	
	LOWER LIMIT	159100		5.10		584352		6.08		536454		8.82	
	CLIENT SAMPLE NO.												
1	T1AMF-SV033_OCT24	266551		5.43		965922		6.41		940025		9.15	
2	T1AMF-SV033_OCT24 Lab Duplicat	261265		5.43		953833		6.41		897671		9.15	
3	T1AMF-SV023_OCT24	254766		5.44		931741		6.42		887518		9.15	
4	T1AMF-SV023_OCT24_FD	250156		5.43		916401		6.42		860987		9.15	
5	T1AMF-SV021_OCT24	252146		5.43		900108		6.42		857506		9.15	
6	T1AMF-SV002_OCT24	248167		5.44		894826		6.42		851661		9.15	
7	T1AMF-SV034_OCT24	234381		5.44		859663		6.42		820238		9.15	
8	T1AMF-SV020_OCT24	240852		5.44		887942		6.42		846752		9.15	
9	T1AMF-SV022_OCT24	247245		5.43		885320		6.41		836088		9.15	
10	T1AMF-SV025_OCT24	243325		5.43		871172		6.42		833813		9.15	
11	T1AMF-SV019_OCT24	239744		5.44		866613		6.42		814654		9.15	
12	T1AMF-SV004_OCT24	242575		5.43		870534		6.42		826792		9.15	
13	T1AMF-SV09B_OCT24	233766		5.43		863098		6.42		806266		9.15	
14	T1AMF-SV015B_OCT24	234487		5.43		851522		6.42		802952		9.15	
15	T1AMF-SV030_OCT24	227243		5.44		862547		6.42		799020		9.15	
16	T1AMF-SV029_OCT24	220649		5.43		870135		6.41		811095		9.15	
17	T1AMF-SV005B_OCT24	202471		5.43		741528		6.42		696511		9.15	
18	T1AMF-SV006_OCT24	212603		5.43		717823		6.42		781588		9.15	
19	T1AMF-SV016_OCT24	194100		5.43		705329		6.42		669184		9.15	
20	T1AMF-SV018_OCT24	196963		5.43		717135		6.42		675993		9.15	
21	Lab Blank	266423		5.42		969392		6.41		898030		9.15	
22	CCV	265167		5.43		973920		6.41		894091		9.15	
23	CCV	204549		5.43		755920		6.41		687623		9.15	
24	LCS	272125		5.43		997866		6.41		933663		9.15	
25	LCSD	269541		5.43		1003767		6.41		936599		9.15	

Area Upper Limit = +40% of intenral standard area

Area Lower Limit = -40% of intenral standard area

RT Upper Limit = +0.33 minutes of internal standard RT

RT Lower Limit = -0.33 minutes of internal standard RT

* Designates Values Outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab File ID: a111108.d & a111109.d

Lab Sample ID: 17A & 17AA

CAS Number	Compound	Original Amount	Duplicate Amount	RPD	Result Less Than 5X RL
75-35-4	1,1-Dichloroethene	ND	ND	0	
106-46-7	1,4-Dichlorobenzene	ND	ND	0	
71-43-2	Benzene	0.2168	0.2245	3.5	Y
156-59-2	cis-1,2-Dichloroethene	ND	ND	0	
100-41-4	Ethyl Benzene	ND	ND	0	
108-38-3	m,p-Xylene	0.4875	0.3945	21	Y
95-47-6	o-Xylene	ND	ND	0	
108-88-3	Toluene	0.6432	0.6018	6.7	Y
156-60-5	trans-1,2-Dichloroethene	ND	ND	0	
79-01-6	Trichloroethene	1.562	1.544	1.2	Y
75-01-4	Vinyl Chloride	ND	ND	0	

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab File ID: a111104c.d & a111105c.d

Lab Sample ID: 38A & 38AA

CAS Number	Compound	Original Amount	Duplicate Amount	RPD	Result Less Than 5X RL
75-35-4	1,1-Dichloroethene	99	99	0	
106-46-7	1,4-Dichlorobenzene	96	95	1.0	
71-43-2	Benzene	108	106	1.9	
156-59-2	cis-1,2-Dichloroethene	103	106	2.9	
100-41-4	Ethyl Benzene	102	100	2.0	
108-38-3	m,p-Xylene	101	100	1.00	
95-47-6	o-Xylene	102	102	0	
108-88-3	Toluene	101	100	1.00	
156-60-5	trans-1,2-Dichloroethene	102	101	0.99	
79-01-6	Trichloroethene	100	98	2.0	
75-01-4	Vinyl Chloride	104	125	18	

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Calibration File Names:
Level 2: /chem/msda.i/10SEP24.b/a091005.d
Level 3: /chem/msda.i/10SEP24.b/a091006.d
Level 5: /chem/msda.i/10SEP24.b/a091007.d
Level 6: /chem/msda.i/10SEP24.b/a091008.d
Level 7: /chem/msda.i/10SEP24.b/a091009.d
Level 8: /chem/msda.i/10SEP24.b/a091010.d
Level 9: /chem/msda.i/10SEP24.b/a091011.d

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Freon 134a	+++++	1.13532	0.98785	1.17208	1.17139	1.11921	0.96484	1.09178	8.429

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
7 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Propylene	+++++	1.20273	1.15940	1.11516	1.08896	1.02378	1.00972	1.09996	6.851
9 1,1-Difluoroethane	+++++	0.66518	0.64447	0.63613	0.63938	0.60845	0.60754	0.63353	3.506
10 Freon 12	3.26680	3.00682	3.07275	2.93198	2.97296	2.84191	2.74872	2.97742	5.594
11 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 Chlorodifluoromethane	+++++	0.27832	0.33509	0.30620	0.31877	0.29763	0.29421	0.30504	6.522
13 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Freon 114	2.18278	1.94178	1.89420	2.02688	1.96397	1.95688	1.95702	1.98907	4.720

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
16 Isobutane	+++++	2.57201	2.45696	2.52656	2.46868	2.36127			
	2.30513							2.44843	4.084
17 Chloromethane	+++++	+++++	1.08431	1.18960	1.08227	0.95500			
	0.91591							1.04542	10.544
18 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
19 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
20 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
21 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
22 Butane	+++++	0.29492	0.20518	0.24003	0.22248	0.19155			
	0.19411							0.22471	17.335
23 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
24 Vinyl Chloride	1.29195	1.04217	0.94965	1.23217	1.21814	0.90066			
	0.89208							1.07526	15.787

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
25 1,3-Butadiene	1.20742	0.93797	0.87324	1.20838	1.20712	0.82683	0.81021	1.01017	18.719
26 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Bromomethane	+++++	+++++	0.67400	0.86540	0.88615	0.86223	0.84493	0.82654	10.468
30 Chloroethane	+++++	0.62414	0.46174	0.62382	0.60346	0.59024	0.57250	0.57932	10.518
31 Isopentane	+++++	1.86164	1.08960	1.78288	1.67349	1.60574	1.56780	1.59686	17.008
32 Vinyl Bromide	+++++	0.98657	0.89918	1.01322	1.06128	1.04542	1.02632	1.00533	5.776
33 Freon 11	3.52740	3.49005	3.15630	3.45522	3.40975	3.32424	3.30757	3.38151	3.794

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
34 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Dichlorofluoromethane	+++++	2.67760	2.11077	2.54126	2.55118	2.46169	2.36992	2.45207	7.991
36 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 Pentane	+++++	2.71956	1.75082	2.67015	2.63961	2.52240	2.50465	2.46786	14.635
38 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Ethanol	+++++	0.25193	0.25651	0.20494	0.21489	0.20330	0.20246	0.22234	11.305

US32TAR1

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Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
43 1,2-Dichloro-1-fluoroethane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
44 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
45 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
46 Acrolein	+++++	0.46758	0.49358	0.45973	0.46371	0.45985			
	0.44272						0.46453	3.569	
47 Freon 113	2.05054	2.01380	1.99331	2.06936	1.99945	1.92119			
	1.96685						2.00207	2.487	
48 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
49 1,1-Dichloroethene	0.75620	0.66444	0.66154	0.62813	0.66696	0.65554			
	0.67514						0.67256	5.912	
50 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
51 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	

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Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
52 Acetone	+++++	+++++	0.83183	0.73806	0.76382	0.73664	0.75804	0.76568	5.077
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 Carbon Disulfide	+++++	3.24078	3.12651	2.90020	3.02418	2.98323	3.04381	3.05312	3.870
55 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 2-Propanol	+++++	2.81879	2.80487	2.59282	2.68490	2.65001	2.65171	2.70052	3.380
58 3-Chloropropene	0.51844	0.48452	0.50594	0.45984	0.49391	0.49105	0.50043	0.49345	3.741
59 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 Acetonitrile	+++++	0.90082	0.70926	0.62083	0.63489	0.58559	0.56892	0.67005	18.377

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Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
61 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 Methylene Chloride	+++++	+++++	2.02515	2.00314	1.97648	1.87304	1.80203	1.93597	4.901
65 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
68 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1

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Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
70 tert-Butyl alcohol	+++++	3.36780	3.14419	3.03318	3.00903	2.95222	3.00168	3.08468	4.949
71 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 Methyl tert-butyl ether	+++++	3.20417	3.17092	3.31205	3.22708	3.18093	3.21940	3.21909	1.566
73 trans-1,2-Dichloroethene	0.77370	0.76441	0.66658	0.69731	0.70467	0.69574	0.71075	0.71617	5.417
74 Acrylonitrile	1.21036	1.00612	1.15748	1.12339	1.13489	1.10222	1.08162	1.11658	5.721
75 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
76 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 Hexane	2.42662	2.40564	2.36303	2.46898	2.42799	2.35540	2.38858	2.40518	1.661

US32TAR1

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Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
79 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
81 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 Isopropyl ether	+++++	5.69742	5.52867	5.63099	5.40342	5.10889	4.97248	5.39031	5.411
83 1,1-Dichloroethane	2.56585	2.48845	2.57808	2.50092	2.49688	2.43893	2.47540	2.50636	1.970
84 Vinyl Acetate	+++++	0.17928	0.23275	0.24628	0.25215	0.25129	0.26165	0.23723	12.613
85 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
86 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
87 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
88 Ethyl-tert-butyl ether	+++++	4.59337	4.78596	4.96704	4.93056	4.69974	4.72775	4.78407	2.980
89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
90 2,2-Dichloropropane	+++++	2.45553	2.40003	2.39866	2.36116	2.29836	2.34179	2.37592	2.293
91 cis-1,2-Dichloroethene	0.75086	0.76644	0.73180	0.73978	0.75983	0.73775	0.76857	0.75072	1.957
92 2-Butanone	+++++	0.57812	0.54391	0.54079	0.55293	0.55717	0.57125	0.55736	2.660
93 Ethyl Acetate	+++++	0.27647	0.25677	0.25868	0.28508	0.28736	0.28021	0.27409	4.833
94 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
97 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
99 Tetrahydrofuran	1.98203	1.94076	1.87040	1.81503	1.82353	1.76775	1.78524	1.85496	4.335
101 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 Chloroform	2.77691	2.87753	2.68759	2.63432	2.68866	2.64916	2.65007	2.70918	3.250
104 Cyclohexane	1.50043	1.34272	1.41473	1.44726	1.40041	1.36687	1.40485	1.41104	3.670
105 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 1,1,1-Trichloroethane	2.84045	2.74934	2.81495	2.86351	2.75490	2.70315	2.69592	2.77460	2.381

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
107 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
108 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
109 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
111 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
112 Carbon Tetrachloride	3.14341	3.20518	2.94338	3.09063	3.01442	2.92591	2.91950	3.03463	3.754
113 1,1-Dichloropropene	+++++	0.16358	0.16644	0.17196	0.17473	0.17144	0.16954	0.16962	2.380
114 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
117 2,2,4-Trimethylpentane	7.67692	7.27760	7.22667	7.73660	7.58592	7.33984	7.16658	7.43002	3.115
118 Benzene	0.92134	0.83033	0.87158	0.87903	0.87762	0.86072	0.82246	0.86615	3.828
120 tert-Amyl methyl ether	+++++	0.72632	0.80204	0.83737	0.83776	0.83056	0.84032	0.81240	5.475
121 1,2-Dichloroethane	0.56706	0.59257	0.59201	0.61236	0.61343	0.58877	0.55892	0.58930	3.499
122 Heptane	0.31933	0.27700	0.27915	0.32101	0.31149	0.30944	0.29582	0.30189	6.036
123 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
128 n-Butanol	+++++	0.37713	0.40085	0.37869	0.38572	0.38482	0.37380	0.38350	2.516
129 Trichloroethene	0.50167	0.42015	0.41172	0.43861	0.45091	0.44093	0.42722	0.44160	6.708
130 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 Methylcyclohexane	2.02292	1.97322	1.86386	1.95142	1.92465	1.89805	1.91622	1.93576	2.696
132 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
134 bis(chloromethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
135 1,2-Dichloropropane	0.46426	0.43042	0.42873	0.45379	0.44812	0.43866	0.42477	0.44125	3.319
136 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
137 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 2-Chloroethyl Vinyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 Methyl Methacrylate	+++++	0.34567	0.36688	0.36981	0.37211	0.37030	0.36255	0.36455	2.697
140 1,4-Dioxane	+++++	0.22636	0.22760	0.22900	0.23155	0.22494	0.22209	0.22692	1.445
141 Dibromomethane	0.52569	0.47847	0.47989	0.47365	0.47835	0.44713	0.44520	0.47548	5.618
142 Bromodichloromethane	0.80609	0.77654	0.76181	0.79062	0.80085	0.78250	0.75216	0.78151	2.525
143 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 1-Bromo-2-Chloroethane	+++++	0.86205	0.84611	0.85234	0.85748	0.83557	0.81024	0.84396	2.243
145 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
146 1-Chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 cis-1,3-Dichloropropene	0.58222	0.60349	0.58541	0.62728	0.65230	0.64005	0.62755	0.61690	4.382
150 4-Methyl-2-pentanone	0.40209	0.45689	0.44198	0.44442	0.44096	0.42839	0.41089	0.43223	4.536
151 Octane	0.52799	0.46449	0.43822	0.49726	0.48781	0.45713	0.42490	0.47111	7.581
153 Toluene	1.22109	1.16556	1.07692	1.16636	1.15373	1.12245	1.05846	1.13780	4.948
154 trans-1,3-Dichloropropene	0.61695	0.58414	0.54165	0.59954	0.60959	0.60141	0.58306	0.59091	4.229
155 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
156 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 1,1,2-Trichloroethane	0.47169	0.44219	0.43138	0.44303	0.43218	0.42249	0.41138	0.43633	4.374
159 Tetrachloroethene	0.76069	0.65641	0.62126	0.66324	0.64885	0.62072	0.59243	0.65194	8.270
160 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1,3-Dichloropropane	0.64972	0.57602	0.57103	0.59356	0.59845	0.59523	0.57186	0.59370	4.595
162 2-Hexanone	+++++	0.65717	0.69585	0.67782	0.66934	0.64580	0.61650	0.66041	4.169
163 Dibromochloromethane	0.92799	0.84661	0.90528	0.96498	0.94429	0.91532	0.88459	0.91272	4.287
164 1,2-Dibromoethane (EDB)	0.82729	0.74275	0.77078	0.80257	0.79386	0.76823	0.74250	0.77828	4.041

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
166 Chlorobenzene	1.15093	1.05244	1.02633	1.08722	1.04408	1.00949			
	0.96954							1.04858	5.544
167 Ethyl Benzene	0.54467	0.48020	0.50231	0.56032	0.54139	0.51330			
	0.49751							0.51996	5.629
168 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
169 1,1,1,2-Tetrachloroethane	0.64935	0.57273	0.62627	0.65352	0.63273	0.59515			
	0.56885							0.61409	5.723
170 Nonane	+++++	1.34459	1.34119	1.44819	1.36259	1.22981			
	1.10977							1.30602	9.090
171 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
172 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
173 m,p-Xylene	0.65350	0.59336	0.63987	0.70004	0.67432	0.64698			
	0.62324							0.64733	5.312
174 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
175 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 o-Xylene	0.55766	0.58222	0.59153	0.66497	0.64352	0.61164	0.58795	0.60564	6.161
177 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
178 Styrene	1.03965	0.96489	1.01477	1.11751	1.08243	1.01755	0.97765	1.03064	5.294
179 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
183 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
184 Bromoform	0.99219	0.92297	0.91097	0.99321	0.97364	0.94124	0.91125	0.94935	3.855
185 Cumene	1.94549	1.89981	1.87918	2.08719	2.04835	1.89950	1.75487	1.93063	5.754
186 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
189 Cyclohexanone	+++++	1.03438	1.04002	0.88536	0.86335	0.80431	0.76117	0.89810	12.950
190 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 Bromobenzene	+++++	0.64972	0.69432	0.70255	0.66991	0.64111	0.62426	0.66364	4.643
193 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
194 1,1,2,2-Tetrachloroethane	1.13080	1.01980	1.04888	1.10746	1.03954	0.98649			
	0.92963							1.03751	6.618
195 4-Ethyl-1,2-dimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
196 Propylbenzene	0.51587	0.48502	0.52020	0.57188	0.54273	0.51453			
	0.49734							0.52108	5.531
197 1,2,3-Trichloropropane	0.37421	0.33495	0.34280	0.34268	0.32602	0.31357			
	0.30019							0.33349	7.130
198 trans-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
199 Decane	+++++	1.42902	1.52040	1.67681	1.54039	1.39276			
	1.21120							1.46176	10.794
200 4-Ethyltoluene	0.60342	0.54120	0.55296	0.62747	0.58802	0.54686			
	0.51946							0.56848	6.789
201 2-Chlorotoluene	0.48887	0.47651	0.46518	0.50591	0.47550	0.44287			
	0.42697							0.46883	5.723
202 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++

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203 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 1,3,5-Trimethylbenzene	0.76789	0.76210	0.77233	0.81952	0.80011	0.75272	0.71901	0.77053	4.215
205 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
206 bis(2-Chloroethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,2,4,5-tetramethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
209 alpha Methyl Styrene	0.76069	0.76907	0.81963	0.91026	0.87438	0.83682	0.80652	0.82534	6.540
210 tert-Butylbenzene	+++++	1.50648	1.61086	1.68795	1.61751	1.48487	1.37391	1.54693	7.335
211 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
212 1,2,4-Trimethylbenzene	0.67750	0.65030	0.73433	0.79103	0.75356	0.71630	0.68943	0.71606	6.717
213 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 sec-Butylbenzene	0.45167	0.41965	0.47505	0.50485	0.48540	0.46048	0.44386	0.46299	6.095
215 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 p-Cymene	2.04314	1.97318	2.06138	2.22195	2.10889	1.97135	1.79969	2.02565	6.493
217 1,3-Dichlorobenzene	1.09807	1.16190	1.14098	1.22228	1.14543	1.07700	1.01632	1.12314	5.896
218 1,4-Dichlorobenzene	1.16010	1.12172	1.17522	1.23754	1.17431	1.11342	1.05599	1.14833	5.021
219 alpha-Chlorotoluene	1.53687	1.55178	1.62979	1.77581	1.74638	1.65645	1.55566	1.63610	5.882
220 Butylbenzene	0.44845	0.47918	0.51203	0.56247	0.53643	0.51148	0.48720	0.50532	7.476

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
221 Undecane	+++++	1.59317	1.80466	1.92241	1.78874	1.63425	1.46070	1.70065	9.885
222 1,2-Dichlorobenzene	1.12458	1.12411	1.11675	1.16823	1.11595	1.04873	0.99009	1.09835	5.395
223 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
225 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,2-Dibromo-3-chloropropane	+++++	0.78312	0.77296	0.77168	0.76914	0.73180	0.70555	0.75571	4.002
227 Dodecane	+++++	1.49830	1.91962	2.09006	2.05230	1.88150	1.68837	1.85502	12.152
228 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
229 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
230 1,2,4-Trichlorobenzene	+++++	0.95822	1.07883	1.04120	1.03558	0.98845	0.93073	1.00550	5.568
231 Hexachlorobutadiene	+++++	0.84669	0.90217	0.90969	0.89662	0.84729	0.78919	0.86528	5.365
232 Naphthalene	+++++	2.29455	2.53806	2.31964	2.43933	2.38701	2.39047	2.39484	3.654
233 1,2,3-Trichlorobenzene	+++++	0.89258	1.06224	0.98510	1.01052	0.96094	0.90874	0.97002	6.554
234 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
235 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
236 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 1,2-Dichloroethene (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 238 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
M 239 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 240 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 Total Volatile Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference to Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TPH reference to Gasoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TPH reference MineralSpirits	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TPH reference to Stoddard	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
248 TVOC reference to Heptane	*****	*****	*****	*****	*****	*****	*****	*****	*****
249 TVOC reference to Toluene	*****	*****	*****	*****	*****	*****	*****	*****	*****
250 TVOC reference to Toluene-d8	*****	*****	*****	*****	*****	*****	*****	*****	*****
251 NMOC reference to Hexane	*****	*****	*****	*****	*****	*****	*****	*****	*****
252 NMOC reference to Heptane	*****	*****	*****	*****	*****	*****	*****	*****	*****
253 NMOC reference to Toluene	*****	*****	*****	*****	*****	*****	*****	*****	*****
254 C3 - C4 Hydrocarbons	*****	*****	*****	*****	*****	*****	*****	*****	*****
255 C4 - C5 Hydrocarbons	*****	*****	*****	*****	*****	*****	*****	*****	*****
256 C5 - C6 Hydrocarbons	*****	*****	*****	*****	*****	*****	*****	*****	*****

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
257 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C5 - C6 Aliphatic ref C5 + C6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C6-C8 Aliphatic ref Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aliphatic ref Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aliphatic ref Dodecan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
266 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
267 C8-C10 Aromatic ref 1,2,3-TMB	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
268 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
269 C10-C12 Aromatic 1,2,4,5-TMB	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
270 C10-C12 Aromatic Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
$ 110 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
$ 119 1,2-Dichloroethane-d4	1.74888	1.77660	1.75855	1.76318	1.74334	1.77685			
	1.60720						1.73923	3.426	
$ 152 Toluene-d8	1.03983	1.03376	1.03563	1.03550	1.04816	1.06590			
	1.03770						1.04236	1.095	
$ 191 4-Bromofluorobenzene	0.65975	0.64361	0.68873	0.66826	0.67803	0.66367			
	0.66464						0.66667	2.131	

Report Date: 10-Sep-2024 18:17

Calibration History

Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Start Cal Date: 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 2 , Cal Amount: 0.50000		
10-SEP-2024 12:43	AT24_Level2	/chem/msda.i/10SEP24.b/a091005.d
Cal Level: 3 , Cal Amount: 1.00000		
10-SEP-2024 13:17	AT24_Level3	/chem/msda.i/10SEP24.b/a091006.d
Cal Level: 5 , Cal Amount: 5.00000		
10-SEP-2024 13:54	AT24ICAL	/chem/msda.i/10SEP24.b/a091007.d
Cal Level: 6 , Cal Amount: 20.00000		
10-SEP-2024 14:27	AT24ICAL	/chem/msda.i/10SEP24.b/a091008.d
Cal Level: 7 , Cal Amount: 50.00000		
10-SEP-2024 15:01	AT24ICAL	/chem/msda.i/10SEP24.b/a091009.d
Cal Level: 8 , Cal Amount: 100.00000		
10-SEP-2024 15:36	AT24ICAL	/chem/msda.i/10SEP24.b/a091010.d
Cal Level: 9 , Cal Amount: 200.00000		
10-SEP-2024 16:14	AT24ICAL	/chem/msda.i/10SEP24.b/a091011.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 7

Ccal Level: 7 , Ccal Amount: 50.000		

10-SEP-2024 15:01	AT24ICAL	/chem/msda.i/10SEP24.b/a091009.d

US32TAR1

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2024 12:43
End Cal Date : 10-SEP-2024 16:14
Quant Method : ISTD
Origin : Disabled
Target Version : 3.60
Integrator : HP RTE
Method file : /chem/msda.i/10SEP24.b/a24q0910a.m
Cal Date : 10-Sep-2024 18:16 h6wn
Curve Type : Average

Calibration File Names:
Level 2: /chem/msda.i/10SEP24.b/a091005.d
Level 3: /chem/msda.i/10SEP24.b/a091006.d
Level 5: /chem/msda.i/10SEP24.b/a091007.d
Level 6: /chem/msda.i/10SEP24.b/a091008.d
Level 7: /chem/msda.i/10SEP24.b/a091009.d
Level 8: /chem/msda.i/10SEP24.b/a091010.d
Level 9: /chem/msda.i/10SEP24.b/a091011.d

on 9/10/24 ok 9/11/24 ~~9/10~~

Compound	0.50000 Level 2	1.000 Level 3	5.000 Level 5	20.000 Level 6	50.000 Level 7	100.000 Level 8	200.000 Level 9	___ RRF	% RSD
1 Dimethyl Ether	*****	*****	*****	*****	*****	*****	*****	*****	*****
2 Freon 14	*****	*****	*****	*****	*****	*****	*****	*****	*****
3 Acetaldehyde	*****	*****	*****	*****	*****	*****	*****	*****	*****
4 Hexafluoropropene	*****	*****	*****	*****	*****	*****	*****	*****	*****
5 Freon 13	*****	*****	*****	*****	*****	*****	*****	*****	*****
6 Freon 134a	*****	1.13532	0.98785	1.17208	1.17139	1.11921	0.96484	1.09178	8.429

Initial Calibration Narrative
A24Q0910a.m

A multi-point TO-15 initial calibration was analyzed on MSD-A on 09/10/24.

ICAL: 0 out.
Naph: 3.6% RSD

ICV: 0 out. File: A091014.
Naph Recovery: 93.23%.
DOD QSM: 0 out. File: A091014c.
RCP: 0 out. File A091014d

The low point spike verification file is A091005x for BTEXS.

The concentrations for Acrolein, Ethanol and Naphthalene were adjusted in the ICV due to the certified concentration exceeding more than 10% of the nominal concentration.

The concentrations for Acetonitrile, 2-Propanol, Tert-Butanol, Vinyl Acetate, Naphthalene, Ethanol, Acrolein, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene and Hexachlorobutadiene were adjusted in the calibration due to the certified concentration exceeding more than 10% of the nominal concentration.

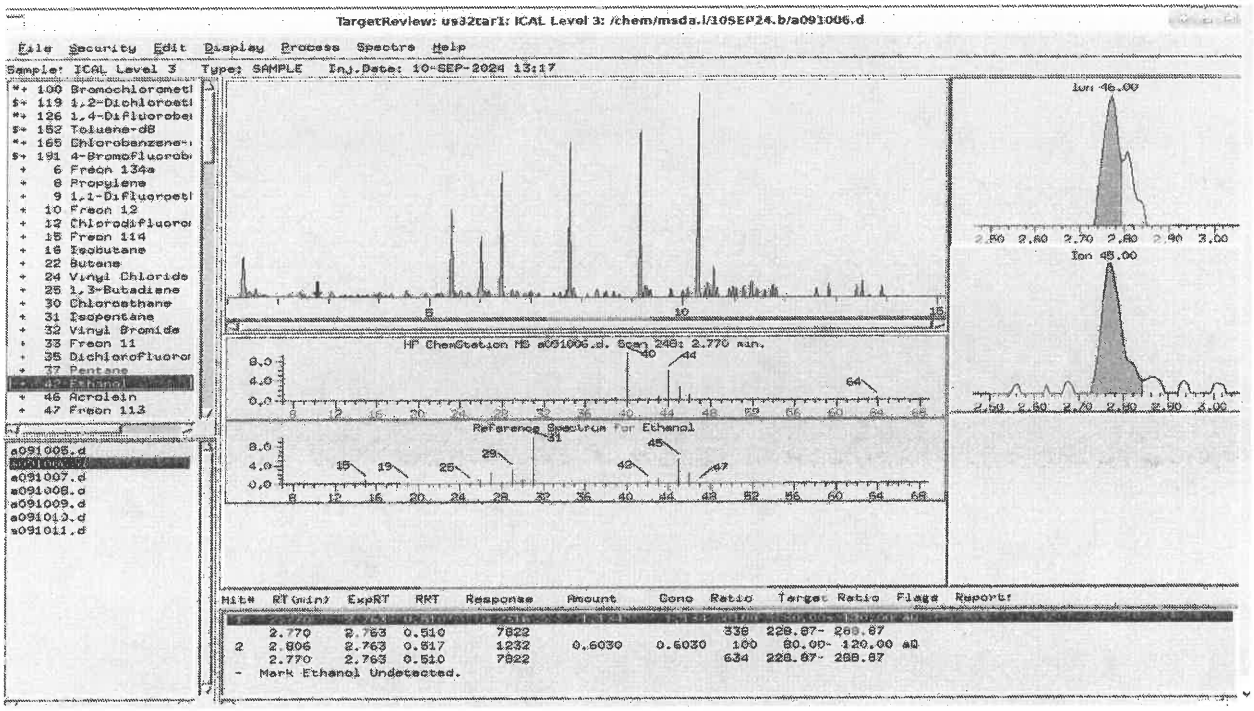
- Acetonitrile was curved at 1.156ppbv→231.2ppbv
- 2-propanol was curved at 1.166ppbv→233.2ppbv
- Tert-Butyl Alcohol was curved at 1.163ppbv→232.6ppbv
- Vinyl Acetate was curved at 1.162ppbv→232.4ppbv
- Ethanol was curved at 1.223ppbv→244.6ppbv
- Acrolein was curved at 1.166ppbv →233.2ppbv
- 1,2,4-Trichlorobenzene was curved at 1.121ppbv→224.2ppbv
- 1,2,3-Trichlorobenzene was curved at 1.127ppbv→225.4ppbv
- Hexachlorobutadiene was curved at 1.127ppbv→225.4ppbv

Naphthalene calibrated 0..118ppbv->23.6ppbv.

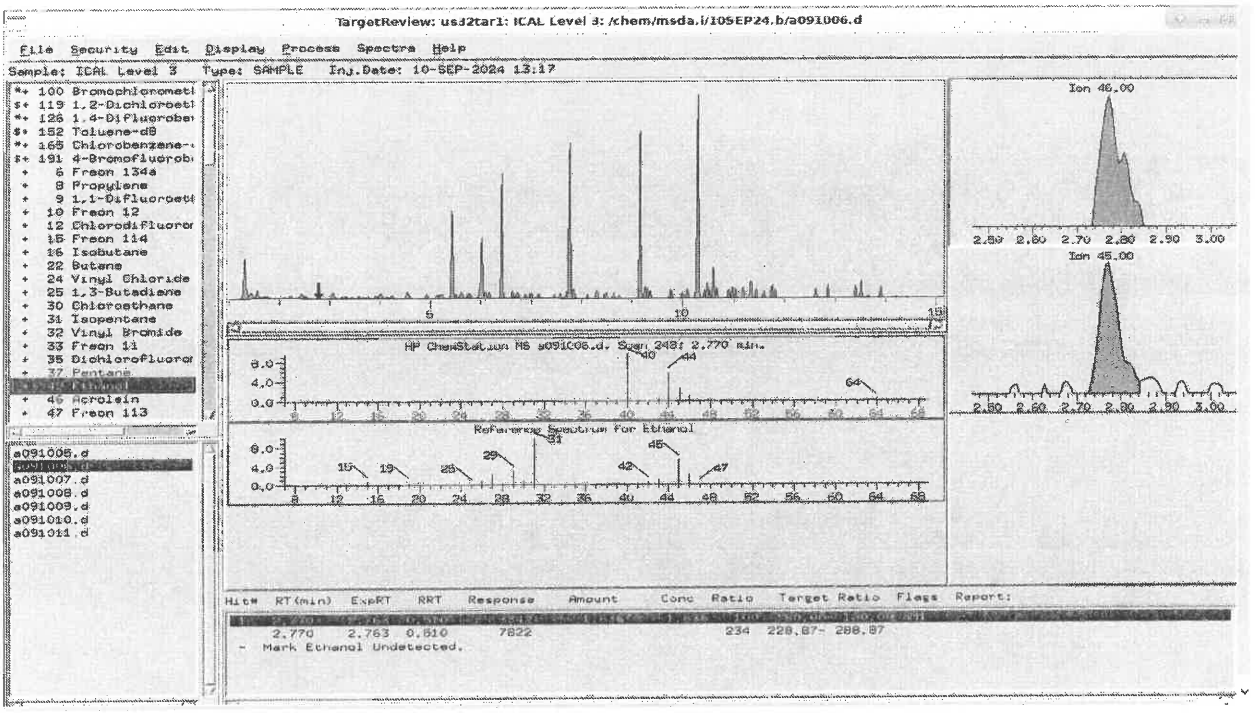
BFB tune file: A091004

The AT24 MDL expires 8/26/25.

Before:



After



Corrected Peak Integration

cm 9/10/24

9/11/24

MSD-A

S:_Screeningseq\MSDA\11Sep2024-A.csv

BFB verification of 176/174 ratio:		(267904/281088) * 100 = 95.31%	
IS/S Std.#:	3169-1048	Exp. Date:	6/9/2025
Bromochloromethane		272599	
1,4-Diflurobenzene		989537	
Chlorobenzene-D5		922551	
verified CCV vs ICAL mid point(+/-40%)		TO	
Method		a24q0910a.m	

Method TO-15			
SOP#	6		
		Load (mLs)	200
Surrogate#	3169-1048	Exp. Date:	6/9/2025
CCV	3018-4808	Exp. Date:	12/9/2024
LCS	3018-4807	Exp. Date:	12/9/2024
CCV sp #1	3380-91	Exp. Date:	10/1/2024
CCV sp #1		Exp. Date:	

Use	File	Lab ID #	Can#/Standard ID#	Cart Pos	Pressure	Amount Loaded	DF	Verify Load By Intials	Loaded By Intials	Date Analyzed	Time Analyzed	Review By Intials	Comments
X	A091001	System Blank	D255	12	Humid	200mL	1.00	TO	TO	09/10/24	0926	TO	IS ok; TCE >RL
X	A091002	System Blank	D255	12	Humid	200mL	1.00	TO	TO	09/10/24	1002	TO	IS ok; TCE >RL
√	A091003	System Blank	D255	11	Humid	200mL	1.00	AB	TO	09/10/24	1133	AB	
√	A091004	BFB Tune Check	3169-1048	11	36ng	50mL	1.00	AB	TO	09/10/24	1209	AB	exp. 6/9/25
√	A091005	ICAL Level 2	3018-4809	1	0.5ppbv(5.0ppbv)	20mL	1.00	AB	TO	09/10/24	1243	AB	exp. 12/9/24
√	A091006	ICAL Level 3	3018-4809	1	1.0ppbv(5.0ppbv)	40mL	1.00	AB	TO	09/10/24	1317	AB	
√	A091007	ICAL Level 5	3018-4809	1	5.0ppbv(5.0ppbv)	200mL	1.00	AB	TO	09/10/24	1354	AB	
√	A091008	ICAL Level 6	3018-4808	13	20ppbv(200ppbv)	20mL	1.00	AB	TO	09/10/24	1427	AB	exp. 12/9/24
√	A091009	ICAL Level 7	3018-4808	13	50ppbv(200ppbv)	50mL	1.00	AB	TO	09/10/24	1501	AB	CCV
√	A091010	ICAL Level 8	3018-4808	13	100ppbv(200ppbv)	100mL	1.00	AB	TO	09/10/24	1536	AB	
√	A091011	ICAL Level 9	3018-4808	13	200ppbv(200ppbv)	200mL	1.00	AB	TO	09/10/24	1614	AB	
√	A091012	System Blank	D255	11	Humid	200mL	1.00	AB	TO	09/10/24	1651	AB	
√	A091013	System Blank	D255	11	Humid	200mL	1.00	AB	TO	09/10/24	1728	AB	
√	A091014	ICV/LCS	3018-4807	14	50ppbv(200ppbv)	50mL	1.00	AB	AB	09/10/24	1855	AB	Exp. 12/09/24

UD 9/11/24

IS and Associated Target Compounds and Surr.
Instruction #: I1.20

Modified EPA Methods TO-14A/TO-15
Internal Standard and Associated Target Compounds and Surrogates

Bromochloromethane*
Target Compounds:
Freon 12
Freon 114
Chloromethane
Vinyl Chloride
1,3-Butadiene
Bromomethane
Chloroethane
Freon 11
Ethanol
Freon 113
1,1-Dichloroethene
Acetone
2-Propanol
Carbon Disulfide
3-Chloropropene
Methylene Chloride
Methyl tert-butyl ether
trans-1,2-Dichloroethene
Hexane
1,1-Dichloroethane
2-Butanone (Methyl Ethyl Ketone)
cis-1,2-Dichloroethene
Tetrahydrofuran
Chloroform
1,1,1-Trichloroethane
Cyclohexane
Carbon Tetrachloride
2,2,4-Trimethylpentane
Surrogates:
1,2-Dichloroethane-d4

1,4-Difluorobenzene
Target Compounds:
Benzene
1,2-Dichloroethane
Heptane
Trichloroethene
1,2-Dichloropropane
1,4-Dioxane
Bromodichloromethane
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene
Surrogates:
Toluene-d8

Chlorobenzene-d5
Target Compounds:
trans-1,3-Dichloropropene
1,1,2-Trichloroethane
Tetrachloroethene
2-Hexanone
Dibromochloromethane
1,2-Dibromoethane (EDB)
Chlorobenzene
Ethyl Benzene
m,p-Xylene
o-Xylene
Styrene
Bromoform
Cumene
1,1,2,2-Tetrachloroethane
Propylbenzene
4-Ethyltoluene
1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
alpha-Chlorotoluene
1,2-Dichlorobenzene
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Surrogates:
Bromofluorobenzene

*Note: If Bromochloromethane (BCM) is required as a target compound, the internal standard mix is blended without BCM. Compounds and surrogates assigned to BCM are re-assigned to 1,4-Difluorobenzene for calibration and subsequent quantitation.

4700 Precision Diluter Standards Preparation Report

Dilution ID: 5311

Canister Size: 6000cc **Canister ID:** 6L0186 **Target Final Psia:** 29.7

Comment: AT24 CCV 5.0 ppbv 100 uL H2O exp:12/09/24

Date: 9/9/2024 11:06:55 PM

Report ID: 3018-4809

Prepared By: mjb

Channel Methods

Ch.	Title	Init. Conc.	Target Conc.	Dilution Factor	Init. Psia	Target Psid	Final Psid	Target Psia	Final Psia	Duration	Final Conc.
1	Diluent	100 percent	100 percent	1	-0.07	11.95	11.95	11.88	11.88	00:07:25	N/A
6	3018-4808	200 ppb	5 ppb	40	11.88	0.74	0.74	12.62	12.62	00:02:56	4.97 ppb
1	Diluent	100 percent	100 percent	1	12.62	17.08	17.07	29.70	29.69	00:13:04	N/A

Total Duration: 00:23:32

Channel Configuration and Standards Inventory

Ch.	Source	Init. Conc.	Cylinder ID	Expiration Date	Notes
1	Diluent	100 percent	488009Y	9/9/9999	E701263095101, Zero Air. No exp. date.
6	3018-4808	200 ppb	33929	12/9/2024	AT24 CCV

D 9/10/24

Verify [illegible] of CC[illegible]CAL [illegible] is

[illegible] from [illegible] (secondary)

Initial/date mjb 09/09/24

Verify Concentration and Expiration date from COA

Initial/date mjb 09/09/24

4700 Precision Diluter Standards Preparation Report

Dilution ID: 5310

Canister Size: 6000cc **Canister ID:** 33929 **Target Final Psia:** 29.7

Comment: AT24 CCV 200 ppbv 100 uL H2O exp:12/09/24

Date: 9/9/2024 10:24:20 PM

Report ID: 3018-4808

Prepared By: mjb

Channel Methods

Ch.	Title	Init. Conc.	Target Conc.	Dilution Factor	Init. Psia	Target Psid	Final Psid	Target Psia	Final Psia	Duration	Final Conc.
1	Diluent	100 percent	100 percent	1	-0.10	11.99	11.99	11.89	11.89	00:07:14	N/A
2	AT24 CCV Part A 3390-418	1000 ppb	200 ppb	5	11.89	5.96	5.96	17.85	17.85	00:07:12	199.94 ppb
3	AT24 CCV Part B 3390-419	1000 ppb	200 ppb	5	17.85	5.96	5.96	23.81	23.81	00:06:02	199.94 ppb
1	Diluent	100 percent	100 percent	1	23.81	5.89	5.90	29.70	29.71	00:04:05	N/A

Total Duration: 00:24:41

Channel Configuration and Standards Inventory

Ch.	Source	Init. Conc.	Cylinder ID	Expiration Date	Notes
1	Diluent	100 percent	488009Y	9/9/9999	Zero Air. E701263095101. Exp. 9/9/9999 = No Exp. Date.
2	AT24 CCV Part A 3390-418	1000 ppb	CC-524920	6/1/2025	Production #1606527
3	AT24 CCV Part B 3390-419	1000 ppb	CC-524929	12/12/2025	Production #1606798

JD 9/10/24

Verify Lot# of CCV/ICAL (primary, is different than ICV/LCS (secondary)

Initial/date mjb 09/09/24

Verify Concentration and Expiration date from COA

Initial/date mjb 09/09/24

4700 Precision Diluter Standards Preparation Report

Dilution ID: 5309

Canister Size: 6000cc **Canister ID:** 6L0845 **Target Final Psia:** 29.7

Comment: AT24 LCS 200 ppbv 100 uL H2O exp:12/09/24

Date: 9/9/2024 9:49:59 PM

Report ID: 3018-4807

Prepared By: mjb

Channel Methods

Ch.	Title	Init. Conc.	Target Conc.	Dilution Factor	Init. Psia	Target Psid	Final Psid	Target Psia	Final Psia	Duration	Final Conc.
1	Diluent	100 percent	100 percent	1	-0.06	11.90	11.90	11.84	11.84	00:06:37	N/A
2	AT24 LCS 3390-420	1000 ppb	200 ppb	5	11.84	5.95	5.95	17.79	17.79	00:07:07	199.85 ppb
1	Diluent	100 percent	100 percent	1	17.79	11.91	11.92	29.70	29.71	00:06:55	N/A

Total Duration: 00:20:46

Channel Configuration and Standards Inventory

Ch.	Source	Init. Conc.	Cylinder ID	Expiration Date	Notes
1	Diluent	100 percent	488009Y	9/9/9999	Zero Air. N701263095101. 9/9/9999 = no exp.
2	AT24 LCS 3390-420	1000 ppb	CC-524921	12/13/2025	Production # 1609441.

09/10/24

Verify Lot# of OCV/ICAL (primary) is

different than ICV/LCS (secondary)

initial/date mjb 09/09/24

Verify Concentration and Expiration date from COA

initial/date mjb 09/09/24

ISO 17034 Certificate

AT-24 Primary Part A

Certified Reference Material

Std. ID: 3390-418
Rec'd: 6/25/24
By: MJS

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

PAGE: 1 of 3
Report ID: 39411
Revision: 0

Sales#:	117600304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1606527	**Cylinder # :**	CC-524920
Report Date:	Jun-01-2024	**Cylinder Pressure:**	2000 psig
P.O.#:	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17034	**Cylinder Volume:**	29.5 Liter
Material#:	24108088	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Jun-01-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

1st Review: 5 out 7 ± 10%. MJS 6/25/24
2nd Review: 5 out 7 ± 10% cm 6/26/24

Primary Reference Material intended for the calibration of gas analyzers or instrumentation. General instructions for proper use of gas mixtures are found in "ISO 16664: Gas analysis – handling of calibration gases and gas mixtures".

Contents under pressure, store in secure area and do not expose to temperatures greater than 150 °F.

Recommended Operating temperature within 32°F (0°C) and 125°F (52°C).

Recommended minimum sample size 10 mL.

Except where noted, results are reported in mole/mole ppm as determined by Gas Chromatography using qualified reference standards under ANA-50-741-ALP and ANA-50-742-ALP and meets ISO 17025 requirements. Every cylinder is analyzed and represents one unique lot.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor providing a level of confidence of 95% and has been carried out in accordance with ISO 17025 requirements.

This certificate is issued in accordance with the laboratory accreditation requirements of ANAB. It provides traceability of measurement to recognized national standards, and to units of measurement realized by the National Institute of Standards and Technology (NIST).

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ISO 17034 Certificate

Certified Reference Material

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd, Ste. B
Folsom, CA 95630

PAGE: 2 of 3
Report ID: 39411
Revision: 0

Sales#:	117500304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1606527	**Cylinder # :**	CC-524920
Report Date:	Jun-01-2024	**Cylinder Pressure:**	2000 psig
P.O.#:	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17034	**Cylinder Volume:**	29.5 Liter
Material#:	24108088	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Jun-01-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	(k @ 95%)	Certified Conc	Uncertainty
Acetonitrile	75-05-8	1.000 ppm	2.571	1.156 ppm	± 0.038 ppm
Acetone	67-64-1	1.000 ppm	2.571	1.049 ppm	± 0.030 ppm
Isopropyl Alcohol	67-63-0	1.000 ppm	2.571	1.166 ppm	± 0.032 ppm
Methylene Chloride	75-09-2	1.000 ppm	2.571	1.056 ppm	± 0.032 ppm
Tert-Butanol	75-65-0	1.000 ppm	2.571	1.163 ppm	± 0.022 ppm
Methyl Tert Butyl Ether	1634-04-4	1.000 ppm	2.571	1.054 ppm	± 0.028 ppm
Vinyl Acetate	108-05-4	1.000 ppm	2.571	1.162 ppm	± 0.032 ppm
Methyl Ethyl Ketone	78-93-3	1.000 ppm	2.571	1.053 ppm	± 0.027 ppm
n-Hexane	110-54-3	1.000 ppm	2.571	1.054 ppm	± 0.027 ppm
Chloroform	67-66-3	1.000 ppm	2.571	1.059 ppm	± 0.029 ppm
Ethyl Acetate	141-78-6	1.000 ppm	2.571	1.052 ppm	± 0.029 ppm
Diisopropyl Ether	108-20-3	1.000 ppm	2.571	1.057 ppm	± 0.027 ppm
Tetrahydrofuran	109-99-9	1.000 ppm	2.571	1.049 ppm	± 0.028 ppm
1,2-Dichloroethane	107-06-2	1.000 ppm	2.571	1.055 ppm	± 0.028 ppm
Benzene	71-43-2	1.000 ppm	2.571	1.052 ppm	± 0.028 ppm
1-Butanol	71-36-3	1.000 ppm	2.571	1.056 ppm	± 0.033 ppm
Cyclohexane	110-82-7	1.000 ppm	2.571	1.051 ppm	± 0.027 ppm
1,2-Dichloropropane	78-87-5	1.000 ppm	2.571	1.053 ppm	± 0.029 ppm
Trichloroethylene	79-01-6	1.000 ppm	2.571	1.055 ppm	± 0.029 ppm
1,4-Dioxane	123-91-1	1.000 ppm	2.571	1.055 ppm	± 0.029 ppm
2,2,4-Trimethylpentane	540-84-1	1.000 ppm	2.571	1.054 ppm	± 0.028 ppm
n-Heptane	142-82-5	1.000 ppm	2.571	1.045 ppm	± 0.030 ppm
Methyl Isobutyl Ketone	108-10-1	1.000 ppm	2.571	1.051 ppm	± 0.027 ppm
Toluene	108-88-3	1.000 ppm	2.571	1.052 ppm	± 0.028 ppm
Methyl Butyl Ketone	591-78-6	1.000 ppm	2.571	1.047 ppm	± 0.027 ppm
Tetrachloroethylene	127-18-4	1.000 ppm	2.571	1.060 ppm	± 0.028 ppm
Chlorobenzene	108-90-7	1.000 ppm	2.571	1.058 ppm	± 0.028 ppm

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ISO 17034 Certificate

Certified Reference Material

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

Report ID: 39411
Revision: 0

Sales#:	117500304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1606527	**Cylinder # :**	CC-524920
Report Date:	Jun-01-2024	**Cylinder Pressure:**	2000 psig
P.O.#:	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17034	**Cylinder Volume:**	29.5 Liter
Material#:	24108088	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Jun-01-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	(k @ 95%)	Certified Conc	Uncertainty
Ethylbenzene	100-41-4	1.000 ppm	2.571	1.041 ppm	± 0.027 ppm
p-Xylene	106-42-3	0.500 ppm	2.571	0.531 ppm	± 0.014 ppm
m-Xylene	108-38-3	0.500 ppm	2.571	0.527 ppm	± 0.014 ppm
o-Xylene	95-47-6	1.000 ppm	2.571	1.056 ppm	± 0.028 ppm
Cumene	98-82-8	1.000 ppm	2.571	1.070 ppm	± 0.029 ppm
Naphthalene	91-20-3	0.100 ppm	2.571	0.118 ppm	± 0.006 ppm *
Nitrogen	7727-37-9	Balance		Balance	

Lou Lorenzetti

ANALYST: Lou Lorenzetti

DATE: Jun-01-2024

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ISO/IEC 17025

Analysis Report

IS/surr.

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

PAGE: 1 of 2
Report ID: 37632
Revision: 0

Sales#:	117476494	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1588213	**Cylinder # :**	CC-524296
Report Date:	Jun-09-2023	**Cylinder Pressure:**	2000 psig
P.O.#:	75517354	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17025	**Cylinder Volume:**	29.5 Liter
Material#:	24100578	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Jun-09-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

Std. ID: 3169-1048
Rec'd: 8/9/23
By: MJB

Primary Reference Material intended for the calibration of gas analyzers or instrumentation. General instructions for proper use of gas mixtures are found in "ISO 16664: Gas analysis – handling of calibration gases and gas mixtures".

Contents under pressure, store in secure area and do not expose to temperatures greater than 150 °F.

Recommended Operating temperature within 32°F (0°C) and 125°F (52°C).

Recommended minimum sample size 10 mL.

Except where noted, results are reported in mole/mole ppm as determined by Gas Chromatography using qualified reference standards under ANA-50-741-ALP and ANA-50-742-ALP and meets ISO/IEC 17025 requirements. Every cylinder is analyzed and represents one unique lot.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor providing a level of confidence of 95% and has been carried out in accordance with ISO/IEC 17025 requirements.

This report is issued in accordance with the laboratory accreditation requirements of ANAB. It provides traceability of measurement to recognized national standards, and to units of measurement realized by the National Institute of Standards and Technology (NIST).

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ISO/IEC 17025

Analysis Report

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

PAGE: 2 of 2
Report ID: 37832
Revision: 0

Sales#:	117476494	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1588213	**Cylinder # :**	CC-524296
Report Date:	Jun-09-2023	**Cylinder Pressure:**	2000 psig
P.O.#:	75517354	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17025	**Cylinder Volume:**	29.5 Liter
Material#:	24100578	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Jun-09-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	(k @ 95%)	Reported Conc	Uncertainty
Bromochloromethane	74-97-5	25.0 ppb	2.571	23.4 ppb	± 0.7 ppb
1,2-Dichloroethane-d4	17060-07-0	25.0 ppb	2.571	24.2 ppb	± 0.9 ppb
1,4-Difluorobenzene	540-36-3	25.0 ppb	2.571	23.7 ppb	± 0.8 ppb
Toluene-d8	2037-26-5	25.0 ppb	2.571	25.3 ppb	± 1.2 ppb
Chlorobenzene-d5	3114-55-4	25.0 ppb	2.571	24.3 ppb	± 0.8 ppb
4-Bromofluorobenzene	460-00-4	25.0 ppb	2.571	24.5 ppb	± 0.9 ppb
Nitrogen	7727-37-9	Balance		Balance	

1st Review: All w/in ±15%, MSB 8/9/23

2nd Review: All w/in ±15% BV 8/9/23

ANALYST: Lou Lorenzetti

DATE: Jun-09-2023

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ISO/IEC 17025

ACCREDITED

AT-23 Source Part B MJS 6/25/24

AT-24 Primary Part B

Analysis Report

Std. ID: 3390-419 Rec'd: 6/26/24 Analyzed By: MJS

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

PAGE: 1 of 5
Report ID: 39430
Revision: 0

Sales#:	117500304	Cylinder Size:	152 (8" X 47.5")
Production#:	1606798	Cylinder # :	CC-524929
Report Date:	Jun-12-2024	Cylinder Pressure:	2000 psig
P.O.#:	75793440	Cylinder Valve:	CGA 350 / Steel
Blend Type:	ISO-17025	Cylinder Volume:	29.5 Liter
Material#:	24099162	Cylinder Material:	Aluminum
Traceability:	NIST by weight	Gas Volume:	4000 Liters
Expiration Date:	Dec-12-2025	Blend Tolerance:	10% Relative
Do NOT use under:	150 psig	Method of Analysis:	GC-FID

1st Review: 5 out > ±10%, MJS 6/25/24
2nd Review: 5 out > ±10% QA 6/26/24

Primary Reference Material intended for the calibration of gas analyzers or instrumentation. General instructions for proper use of gas mixtures are found in "ISO 16664: Gas analysis – handling of calibration gases and gas mixtures".

Contents under pressure, store in secure area and do not expose to temperatures greater than 150 °F.

Recommended Operating temperature within 32°F (0°C) and 125°F (52°C).

Recommended minimum sample size 10 mL.

Except where noted, results are reported in mole/mole ppm as determined by Gas Chromatography using qualified reference standards under ANA-50-741-ALP and ANA-50-742-ALP and meets ISO/IEC 17025 requirements. Every cylinder is analyzed and represents one unique lot.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor providing a level of confidence of 95% and has been carried out in accordance with ISO/IEC 17025 requirements.

This report is issued in accordance with the laboratory accreditation requirements of ANAB. It provides traceability of measurement to recognized national standards, and to units of measurement realized by the National Institute of Standards and Technology (NIST).

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ISO/IEC 17025

Analysis Report

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

PAGE: 2 of 5
Report ID: 39430
Revision: 0

Sales#:	117500304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1606798	**Cylinder # :**	CC-524929
Report Date:	Jun-12-2024	**Cylinder Pressure:**	2000 psig
P.O.#:	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17025	**Cylinder Volume:**	29.5 Liter
Material#:	24099162	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Dec-12-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	(k @ 95%)	Reported Conc	Uncertainty
1,1,1,2-Tetrafluoroethane	811-97-2	1.000 ppm	2.571	1.066 ppm	± 0.039 ppm
1,1-Difluoroethane	75-37-6	1.000 ppm	2.571	1.059 ppm	± 0.036 ppm
Propylene	115-07-1	1.000 ppm	2.571	1.065 ppm	± 0.036 ppm
Chlorodifluoromethane	75-45-6	1.000 ppm	2.571	1.060 ppm	± 0.033 ppm
Freon-12	75-71-8	1.000 ppm	2.571	1.054 ppm	± 0.032 ppm
Chloromethane	74-87-3	1.000 ppm	2.571	1.050 ppm	± 0.034 ppm
Isobutane	75-28-5	1.000 ppm	2.571	1.059 ppm	± 0.036 ppm
Freon-114	76-14-2	1.000 ppm	2.571	1.046 ppm	± 0.044 ppm
Vinyl Chloride	75-01-4	1.000 ppm	2.571	1.056 ppm	± 0.046 ppm
1,3-Butadiene	106-99-0	1.000 ppm	2.571	1.063 ppm	± 0.039 ppm
n-Butane	106-97-8	1.000 ppm	2.571	1.061 ppm	± 0.038 ppm
Bromomethane	74-83-9	1.000 ppm	2.571	1.059 ppm	± 0.046 ppm
Chloroethane	75-00-3	1.000 ppm	2.571	1.060 ppm	± 0.038 ppm
Dichlorofluoromethane	75-43-4	1.000 ppm	2.571	1.062 ppm	± 0.037 ppm
Vinyl Bromide	593-60-2	1.000 ppm	2.571	1.060 ppm	± 0.037 ppm
Ethanol (No Stability Guarantee)	64-17-5	1.000 ppm	2.571	1.223 ppm	± 0.076 ppm *
Acrolein	107-02-8	1.000 ppm	2.571	1.166 ppm	± 0.054 ppm *
Isopentane	78-78-4	1.000 ppm	2.571	1.028 ppm	± 0.030 ppm
Freon-11	75-69-4	1.000 ppm	2.571	1.060 ppm	± 0.022 ppm
n-Pentane	109-66-0	1.000 ppm	2.571	1.067 ppm	± 0.040 ppm
Acrylonitrile	107-13-1	1.000 ppm	2.571	1.066 ppm	± 0.039 ppm
1,1-Dichloroethene	75-35-4	1.000 ppm	2.571	1.062 ppm	± 0.037 ppm
Carbon Disulfide	75-15-0	1.000 ppm	2.571	1.058 ppm	± 0.037 ppm
3-Chloropropene	107-05-1	1.000 ppm	2.571	1.057 ppm	± 0.043 ppm
Freon-113	76-13-1	1.000 ppm	2.571	1.059 ppm	± 0.035 ppm
Trans-1,2-Dichloroethene	156-60-5	1.000 ppm	2.571	1.082 ppm	± 0.039 ppm
1,1-Dichloroethane	75-34-3	1.000 ppm	2.571	1.064 ppm	± 0.039 ppm

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Analysis Report

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

PAGE: 3 of 5
Report ID: 39430
Revision: 0

Sales#:	117600304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1606798	**Cylinder # :**	CC-524029
Report Date:	Jun-12-2024	**Cylinder Pressure:**	2000 psig
P.O.#:	75789440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17025	**Cylinder Volume:**	29.5 Liter
Material#:	24099162	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Dec-12-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	(k @ 95%)	Reported Conc	Uncertainty
Cis-1,2-Dichloroethene	156-59-2	1.000 ppm	2.571	1.062 ppm	± 0.039 ppm
2,2-Dichloropropane	594-20-7	1.000 ppm	2.571	1.074 ppm	± 0.043 ppm
Ethyl Tert Butyl Ether	637-92-3	1.000 ppm	2.571	1.072 ppm	± 0.042 ppm
1,1,1-Trichloroethane	71-55-6	1.000 ppm	2.571	1.057 ppm	± 0.038 ppm
1,1-Dichloropropene	563-58-6	1.000 ppm	2.571	1.063 ppm	± 0.040 ppm
Carbon Tetrachloride	56-23-5	1.000 ppm	2.571	1.060 ppm	± 0.043 ppm
Tert Amyl Methyl Ether	994-05-8	1.000 ppm	2.571	1.059 ppm	± 0.039 ppm
Dibromomethane	74-95-3	1.000 ppm	2.571	1.064 ppm	± 0.039 ppm
Bromodichloromethane	75-27-4	1.000 ppm	2.571	1.060 ppm	± 0.034 ppm
Methyl Methacrylate	80-62-6	1.000 ppm	2.571	1.067 ppm	± 0.041 ppm
1-Bromo-2-Chloroethane	107-04-0	1.000 ppm	2.571	1.065 ppm	± 0.042 ppm
Cis-1,3-Dichloropropene	10061-01-5	1.000 ppm	2.571	1.061 ppm	± 0.041 ppm
Methylcyclohexane	108-87-2	1.000 ppm	2.571	1.067 ppm	± 0.038 ppm
Trans-1,3-Dichloropropene	10061-02-6	1.000 ppm	2.571	1.062 ppm	± 0.043 ppm
1,1,2-Trichloroethane	79-00-5	1.000 ppm	2.571	1.060 ppm	± 0.038 ppm
1,3-Dichloropropane	142-28-9	1.000 ppm	2.571	1.061 ppm	± 0.039 ppm
Dibromochloromethane	124-48-1	1.000 ppm	2.571	1.055 ppm	± 0.041 ppm
1,2-Dibromoethane	106-93-4	1.000 ppm	2.571	1.065 ppm	± 0.040 ppm
n-Octane	111-65-9	1.000 ppm	2.571	1.056 ppm	± 0.034 ppm
1,1,1,2-Tetrachloroethane	630-20-6	1.000 ppm	2.571	1.062 ppm	± 0.031 ppm
Bromoform	75-25-2	1.000 ppm	2.571	1.040 ppm	± 0.031 ppm
Cyclohexanone	108-94-1	1.000 ppm	2.571	1.064 ppm	± 0.038 ppm
Styrene	100-42-5	1.000 ppm	2.571	1.061 ppm	± 0.032 ppm
1,1,2,2-Tetrachloroethane	79-34-5	1.000 ppm	2.571	1.060 ppm	± 0.030 ppm
1,2,3-Trichloropropane	96-18-4	1.000 ppm	2.571	1.073 ppm	± 0.031 ppm
Nonane	111-84-2	1.000 ppm	2.571	1.058 ppm	± 0.029 ppm
Bromobenzene	108-86-1	1.000 ppm	2.571	1.062 ppm	± 0.031 ppm

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ISO/IEC 17025

Analysis Report

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

Report ID: 39430
Revision: 0

Sales#:	117500304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1606798	**Cylinder # :**	CC-524929
Report Date:	Jun-12-2024	**Cylinder Pressure:**	2000 psig
P.O.#:	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17025	**Cylinder Volume:**	29.6 Liter
Material#:	24099162	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Dec-12-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	(k @ 95%)	Reported Conc	Uncertainty
2-Chlorotoluene	95-49-8	1.000 ppm	2.571	1.058 ppm	± 0.032 ppm
n-Propylbenzene	103-65-1	1.000 ppm	2.571	1.061 ppm	± 0.032 ppm
4-Ethyltoluene	622-96-8	1.000 ppm	2.571	1.061 ppm	± 0.039 ppm
1,3,5-Trimethylbenzene	108-67-8	1.000 ppm	2.571	1.055 ppm	± 0.029 ppm
alpha-Methyl Styrene (No Stability G	98-83-9	1.000 ppm	2.571	1.052 ppm	± 0.029 ppm
Tert-Butyl Benzene	98-06-6	1.000 ppm	2.571	1.054 ppm	± 0.028 ppm
1,2,4-Trimethylbenzene	95-63-6	1.000 ppm	2.571	1.057 ppm	± 0.028 ppm
1,3-Dichlorobenzene	541-73-1	1.000 ppm	2.571	1.063 ppm	± 0.028 ppm
Benzyl Chloride	100-44-7	1.000 ppm	2.571	1.064 ppm	± 0.028 ppm
n-Decane	124-18-5	1.000 ppm	2.571	1.057 ppm	± 0.028 ppm
1,4-Dichlorobenzene	106-46-7	1.000 ppm	2.571	1.050 ppm	± 0.040 ppm
sec-Butylbenzene	135-98-8	1.000 ppm	2.571	1.063 ppm	± 0.028 ppm
4-Isopropyltoluene	99-87-6	1.000 ppm	2.571	1.058 ppm	± 0.026 ppm
1,2-Dichlorobenzene	95-50-1	1.000 ppm	2.571	1.055 ppm	± 0.025 ppm
n-Butylbenzene	104-51-8	1.000 ppm	2.571	1.046 ppm	± 0.023 ppm
1,2-Dibromo-3-Chloropropane	96-12-8	1.000 ppm	2.571	1.059 ppm	± 0.025 ppm
n-Undecane	1120-21-4	1.000 ppm	2.571	1.050 ppm	± 0.023 ppm
1,2,4-Trichlorobenzene	120-82-1	1.000 ppm	2.571	1.121 ppm	± 0.023 ppm
n-Dodecane	112-40-3	1.000 ppm	2.571	1.074 ppm	± 0.018 ppm

Linde Spectra Environmental Gases
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Linde North America, Inc.

80 Industrial Drive, Alpha, NJ 08865
Phone: +1.908.329-9700 FAX: +1.908.329-9740

ISO/IEC 17025

Analysis Report

SHIPPED TO:
Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

PAGE: 5 of 5
Report ID: 39430
Revision: 0

Sales#:	117500304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1606798	**Cylinder # :**	CC-524929
Report Date:	Jun-12-2024	**Cylinder Pressure:**	2000 psig
P.O.#:	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	ISO-17025	**Cylinder Volume:**	29.5 Liter
Material#:	24099162	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Dec-12-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Method of Analysis:**	GC-FID

COMPONENT	CAS Number	Requested Conc	(k @ 95%)	Reported Conc	Uncertainty
1,2,3-Trichlorobenzene	87-61-6	1.000 ppm	2.571	1.127 ppm	± 0.024 ppm *
Hexachloro-1,3-Butadiene	87-68-3	1.000 ppm	2.571	1.127 ppm	± 0.020 ppm *
Nitrogen	7727-37-9	Balance		Balance	

ANALYST: Lou Lorenzetti

DATE: Jun-12-2024

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80 Industrial Drive, Alpha, NJ 08865
Phone: +1.908.329-9700 FAX: +1.908.329-9740

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SHIPPED TO:
AT-24 Secondary
Std. ID: 3390-420
Rec'd: 6/25/24
By: MJB

Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

ANALYSIS REPORT

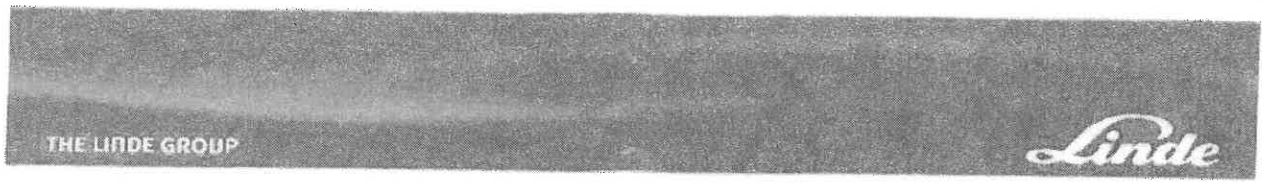
Sales#:	117500304
Production#:	1609441
Report Date:	Jun-13-2024
P.O.# :	75783440
Blend Type:	QUALIFIED
Material#:	24086943
Traceability:	NIST by weight
Expiration Date:	Dec-13-2025
Do NOT use under:	150 psig

Cylinder Size:	152 (8" X 47.5")
Cylinder # :	CC-524921
Cylinder Pressure:	2000 psig
Cylinder Valve:	CGA 350 / Steel
Cylinder Volume:	29.5 Liter
Cylinder Material:	Aluminum
Gas Volume:	4000 Liters
Blend Tolerance:	10% Relative
Analytical Accuracy:	5% Relative

1st Review: 3 out 7 ± 10%. MJB 6/25/24
2nd Review: 3 out 7 ± 10% ok 6/26/24

COMPONENT	CAS NUMBER	REQUESTED CONC	QUALIFIED CONC
1,1,1,2-Tetrafluoroethane	811-97-2	1.00 ppm	1.04 ppm
1,1-Difluoroethane	75-37-6	1.00 ppm	1.05 ppm
Propylene	115-07-1	1.00 ppm	1.05 ppm
Chlorodifluoromethane	75-45-6	1.00 ppm	1.03 ppm
Freon-12	75-71-8	1.00 ppm	1.03 ppm
Chloromethane	74-87-3	1.00 ppm	1.04 ppm
Isobutane	75-28-5	1.00 ppm	1.04 ppm
Freon-114	76-14-2	1.00 ppm	1.04 ppm
Vinyl Chloride	75-01-4	1.00 ppm	1.06 ppm
1,3-Butadiene	106-99-0	1.00 ppm	1.04 ppm
n-Butane	106-97-8	1.00 ppm	1.02 ppm
Bromomethane	74-83-9	1.00 ppm	1.04 ppm
Chloroethane	75-00-3	1.00 ppm	1.04 ppm
Dichlorofluoromethane	75-43-4	1.00 ppm	1.03 ppm
Vinyl Bromide	593-60-2	1.00 ppm	1.04 ppm
Ethanol (No Stability Guarantee)	64-17-5	1.00 ppm	1.16 ppm *
Acetonitrile (Analytical Accuracy ± 10%)	75-05-8	1.00 ppm	1.05 ppm
Acrolein (Analytical Accuracy ± 10%)	107-02-8	1.00 ppm	1.16 ppm *
Isopentane	78-78-4	1.00 ppm	1.05 ppm
Acetone	67-64-1	1.00 ppm	1.05 ppm
Freon-11	75-69-4	1.00 ppm	1.05 ppm
Isopropyl Alcohol	67-63-0	1.00 ppm	1.10 ppm
Acrylonitrile	107-13-1	1.00 ppm	1.04 ppm
n-Pentane	109-66-0	1.00 ppm	1.04 ppm
1,1-Dichloroethene	75-35-4	1.00 ppm	1.02 ppm
Carbon Disulfide (Analytical Accuracy ± 10%)	75-15-0	1.00 ppm	1.04 ppm
Methylene Chloride	75-09-2	1.00 ppm	0.95 ppm
Tert-Butanol	75-65-0	1.00 ppm	1.06 ppm
3-Chloropropene	107-05-1	1.00 ppm	1.04 ppm
Freon-113	76-13-1	1.00 ppm	1.02 ppm

Linde Gas North America LLC
(908) 329-9700 Main (908) 329-9740 Fax
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SHIPPED TO: Eurofins Air Toxics
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

ANALYSIS REPORT

Sales#:	117500304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1609441	**Cylinder # :**	CC-524921
Report Date:	Jun-13-2024	**Cylinder Pressure:**	2000 psig
P.O.# :	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	QUALIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	24086943	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Dec-13-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	QUALIFIED CONC
Trans-1,2-Dichloroethene	156-60-5	1.00 ppm	1.03 ppm
1,1-Dichloroethane	75-34-3	1.00 ppm	1.07 ppm
Methyl Tert Butyl Ether	1634-04-4	1.00 ppm	1.02 ppm
Vinyl Acetate	108-05-4	1.00 ppm	1.10 ppm
Methyl Ethyl Ketone	78-93-3	1.00 ppm	1.04 ppm
Cis-1,2-Dichloroethene	156-59-2	1.00 ppm	1.05 ppm
n-Hexane	110-54-3	1.00 ppm	1.02 ppm
Chloroform	67-66-3	1.00 ppm	1.02 ppm
Ethyl Acetate	141-78-6	1.00 ppm	1.02 ppm
2,2-Dichloropropane	594-20-7	1.00 ppm	1.02 ppm
Diisopropyl Ether	108-20-3	1.00 ppm	1.01 ppm
Tetrahydrofuran	109-99-9	1.00 ppm	1.03 ppm
Ethyl Tert Butyl Ether	637-92-3	1.00 ppm	1.01 ppm
1,2-Dichloroethane	107-06-2	1.00 ppm	1.03 ppm
1,1,1-Trichloroethane	71-55-6	1.00 ppm	1.04 ppm
1,1-Dichloropropene	563-58-6	1.00 ppm	1.05 ppm
Benzene	71-43-2	1.00 ppm	1.07 ppm
1-Butanol	71-36-3	1.00 ppm	1.10 ppm
Carbon Tetrachloride	56-23-5	1.00 ppm	1.04 ppm
Cyclohexane	110-82-7	1.00 ppm	1.03 ppm
Tert Amyl Methyl Ether	994-05-8	1.00 ppm	1.04 ppm
Dibromomethane	74-95-3	1.00 ppm	1.03 ppm
1,2-Dichloropropane	78-87-5	1.00 ppm	1.04 ppm
Trichloroethylene	79-01-6	1.00 ppm	1.05 ppm
Bromodichloromethane	75-27-4	1.00 ppm	1.05 ppm
1,4-Dioxane	123-91-1	1.00 ppm	1.04 ppm
2,2,4-Trimethylpentane	540-84-1	1.00 ppm	1.04 ppm
Methyl Methacrylate	80-62-6	1.00 ppm	1.04 ppm
Heptane	142-82-5	1.00 ppm	1.03 ppm
1-Bromo-2-Chloroethane	107-04-0	1.00 ppm	1.03 ppm

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180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

ANALYSIS REPORT

Sales#:	117500804	**Cylinder Size:**	152 (9" X 47.5")
Production#:	1609441	**Cylinder # :**	CC-524921
Report Date:	Jun-13-2024	**Cylinder Pressure:**	2000 psig
P.O.# :	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	QUALIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	24086943	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Dec-13-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	QUALIFIED CONC
Cis-1,3-Dichloropropene	10061-01-5	1.00 ppm	1.05 ppm
Methylcyclohexane	108-87-2	1.00 ppm	1.05 ppm
Methyl Isobutyl Ketone	108-10-1	1.00 ppm	1.05 ppm
Trans-1,3-Dichloropropene	10061-02-6	1.00 ppm	0.94 ppm
1,1,2-Trichloroethane	79-00-5	1.00 ppm	1.05 ppm
Toluene	108-88-3	1.00 ppm	1.05 ppm
1,3-Dichloropropane	142-28-9	1.00 ppm	1.04 ppm
Methyl Butyl Ketone	591-78-6	1.00 ppm	1.00 ppm
Dibromochloromethane	124-48-1	1.00 ppm	1.03 ppm
1,2-Dibromoethane	106-93-4	1.00 ppm	1.03 ppm
n-Octane	111-65-9	1.00 ppm	1.03 ppm
Tetrachloroethylene	127-18-4	1.00 ppm	1.07 ppm
1,1,1,2-Tetrachloroethane	630-20-6	1.00 ppm	1.03 ppm
Chlorobenzene	108-90-7	1.00 ppm	1.03 ppm
Ethylbenzene	100-41-4	1.00 ppm	1.05 ppm
p-xylene	106-42-3	0.50 ppm	0.52 ppm
m-xylene	108-38-3	0.50 ppm	0.53 ppm
Bromoform	75-25-2	1.00 ppm	1.05 ppm
Cyclohexanone	108-94-1	1.00 ppm	1.07 ppm
Styrene	100-42-5	1.00 ppm	1.05 ppm
o-xylene	95-47-6	1.00 ppm	1.05 ppm
1,1,2,2-Tetrachloroethane	79-34-5	1.00 ppm	1.05 ppm
1,2,3-Trichloropropane	96-18-4	1.00 ppm	1.02 ppm
Nonane	111-84-2	1.00 ppm	1.02 ppm
Cumene	98-82-8	1.00 ppm	1.03 ppm
Bromobenzene	108-86-1	1.00 ppm	1.04 ppm
2-Chlorotoluene	95-49-8	1.00 ppm	1.06 ppm
n-Propylbenzene	103-65-1	1.00 ppm	1.05 ppm

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180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

ANALYSIS REPORT

Sales#:	117500304	**Cylinder Size:**	152 (8" X 47.5")
Production#:	1809441	**Cylinder # :**	CC-524921
Report Date:	Jun-13-2024	**Cylinder Pressure:**	2000 psig
P.O.# :	75783440	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	QUALIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	24086943	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liters
Expiration Date:	Dec-13-2025	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	QUALIFIED CONC
4-Ethyltoluene	622-96-8	1.00 ppm	1.05 ppm
1,3,5-Trimethylbenzene	108-67-8	1.00 ppm	1.06 ppm
alpha-Methyl Styrene (No Stability Guarantee)	98-83-9	1.00 ppm	1.06 ppm
Tert-Butyl Benzene	98-06-6	1.00 ppm	1.06 ppm
1,2,4-Trimethylbenzene	95-63-6	1.00 ppm	1.06 ppm
1,3-Dichlorobenzene	541-73-1	1.00 ppm	1.06 ppm
Benzyl Chloride (Analytical Accuracy ± 10%)	100-44-7	1.00 ppm	1.06 ppm
n-Decane	124-18-5	1.00 ppm	1.06 ppm
1,4-Dichlorobenzene	106-46-7	1.00 ppm	1.06 ppm
sec-Butylbenzene	135-98-8	1.00 ppm	1.04 ppm
4-Isopropyltoluene	99-87-6	1.00 ppm	1.04 ppm
1,2-Dichlorobenzene	95-50-1	1.00 ppm	1.07 ppm
n-Butylbenzene	104-51-8	1.00 ppm	1.05 ppm
1,2-Dibromo-3-Chloropropane	96-12-8	1.00 ppm	1.07 ppm
n-Undecane	1120-21-4	1.00 ppm	1.05 ppm
1,2,4-Trichlorobenzene	120-82-1	1.00 ppm	1.07 ppm
Naphthalene (Analytical Accuracy ± 10%)	91-20-3	0.10 ppm	0.12 ppm *
n-Dodecane	112-40-3	1.00 ppm	1.05 ppm
1,2,3-Trichlorobenzene	87-61-6	1.00 ppm	1.09 ppm
Hexachloro-1,3-Butadiene	87-68-3	1.00 ppm	1.07 ppm
Nitrogen	7727-37-9	Balance	Balance

ANALYST: Lou Lorenzetti

Lou Lorenzetti

DATE: Jun-13-2024

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US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/10SEP24.b/a091005.d
Lab Smp Id: ICAL Level 2 Client Smp ID: ICAL Level 2
Inj Date : 10-SEP-2024 12:43
Operator : TO Inst ID: msda.i
Smp Info : 20mL 3018-4809
Misc Info : 0.5ppbv(5.0ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Meth Date : 10-Sep-2024 18:16 h6wn Quant Type: ISTD
Cal Date : 10-SEP-2024 12:43 Cal File: a091005.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24_Level2.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 100 Bromochloromethane						CAS #: 74-97-5	
5.428	5.428 (1.000)	130	271489	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	211296			46.45- 106.45	77.83
5.428	5.428 (1.000)	49	557521			167.12- 227.12	205.36
* 126 1,4-Difluorobenzene						CAS #: 540-36-3	
6.409	6.409 (1.000)	114	995665	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	166959			0.00- 46.36	16.77
* 165 Chlorobenzene-d5						CAS #: 3114-55-4	
9.153	9.153 (1.000)	117	916605	25.0000		80.00- 120.00	100.00
9.153	9.153 (1.000)	82	525368			27.12- 87.12	57.32
$ 119 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
6.015	6.015 (1.108)	65	474802	25.0000	25.040	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	221397			23.36- 83.36	46.63
$ 152 Toluene-d8						CAS #: 2037-26-5	
7.756	7.756 (1.210)	98	1035318	25.0000	24.900	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	117574			0.00- 41.92	11.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.210)	100	704322			39.07- 99.07	68.03
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.299	10.299 (1.125)	174	604734	25.0000	24.658	80.00- 120.00	100.00
10.292	10.299 (1.124)	95	726167			89.27- 149.27	120.08
10.299	10.299 (1.125)	176	581240			66.29- 126.29	96.11
10 Freon 12					CAS #: 75-71-8		
1.445	1.452 (0.266)	85	17738	0.50000	0.5235	80.00- 120.00	100.00
1.445	1.452 (0.266)	87	5606			1.90- 61.90	31.60
15 Freon 114					CAS #: 76-14-2		
1.560	1.560 (0.287)	135	11852	0.50000	0.5264	80.00- 120.00	100.00
1.560	1.560 (0.287)	137	3429			1.76- 61.76	28.93
24 Vinyl Chloride					CAS #: 75-01-4		
1.746	1.746 (0.322)	62	7015	0.50000	0.5147	80.00- 120.00	100.00(Q)
1.732	1.746 (0.319)	64	5191			0.00- 59.56	74.00
25 1,3-Butadiene					CAS #: 106-99-0		
1.768	1.768 (0.326)	54	6556	0.50000	0.5001	80.00- 120.00	100.00
1.768	1.768 (0.326)	39	7734			64.19- 124.19	117.97
33 Freon 11					CAS #: 75-69-4		
2.441	2.448 (0.450)	101	19153	0.50000	0.5085	80.00- 120.00	100.00
2.441	2.448 (0.450)	103	12717			35.49- 95.49	66.40
47 Freon 113					CAS #: 76-13-1		
3.057	3.057 (0.563)	151	11134	0.50000	0.5063	80.00- 120.00	100.00
3.057	3.057 (0.563)	153	7394			33.72- 93.72	66.41
3.057	3.057 (0.563)	101	15086			94.86- 154.86	135.49
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.086	3.086 (0.568)	98	4106	0.50000	0.5314	80.00- 120.00	100.00(Q)
3.086	3.086 (0.568)	96	5286			127.35- 187.35	128.74
3.086	3.086 (0.568)	61	13162			327.38- 387.38	320.56
58 3-Chloropropene					CAS #: 107-05-1		
3.580	3.573 (0.660)	76	2815	0.50000	0.5121	80.00- 120.00	100.00
3.573	3.573 (0.658)	41	10929			369.70- 429.70	388.24
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	4201	0.50000	0.5233	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	12135			282.80- 342.80	288.86
4.024	4.024 (0.741)	96	5628			122.91- 182.91	133.97

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
74 Acrylonitrile						CAS #: 107-13-1	
4.131	4.131 (0.761)	52	6572	0.50000	0.5161	80.00- 120.00	100.00
4.138	4.131 (0.762)	53	7791			88.44- 148.44	118.55
78 Hexane						CAS #: 110-54-3	
4.246	4.246 (0.782)	57	13176	0.50000	0.4998	80.00- 120.00	100.00(a)
4.246	4.246 (0.782)	43	9462			34.01- 94.01	71.81
4.246	4.246 (0.782)	86	1541			0.00- 40.22	11.70
83 1,1-Dichloroethane						CAS #: 75-34-3	
4.547	4.547 (0.838)	63	13932	0.50000	0.5068	80.00- 120.00	100.00
4.547	4.547 (0.838)	65	3897			0.00- 59.58	27.97
91 cis-1,2-Dichloroethene						CAS #: 156-59-2	
5.177	5.177 (0.954)	98	4077	0.50000	0.4970	80.00- 120.00	100.00(a)
5.177	5.177 (0.954)	96	6604			123.49- 183.49	161.98
5.177	5.177 (0.954)	61	14615			310.35- 370.35	358.47
99 Tetrahydrofuran						CAS #: 109-99-9	
5.428	5.414 (1.000)	42	10762	0.50000	0.5208	80.00- 120.00	100.00
5.428	5.414 (1.000)	71	2201			0.00- 56.60	20.45
5.435	5.414 (1.001)	72	2680			0.00- 56.86	24.90
103 Chloroform						CAS #: 67-66-3	
5.507	5.507 (1.015)	83	15078	0.50000	0.5081	80.00- 120.00	100.00
5.507	5.507 (1.015)	85	9634			34.90- 94.90	63.89
104 Cyclohexane						CAS #: 110-82-7	
5.607	5.600 (1.033)	84	8147	0.50000	0.5172	80.00- 120.00	100.00
5.600	5.600 (1.032)	56	14471			152.85- 212.85	177.62
5.600	5.600 (1.032)	41	8309			65.81- 125.81	101.99
106 1,1,1-Trichloroethane						CAS #: 71-55-6	
5.628	5.629 (1.037)	97	15423	0.50000	0.5076	80.00- 120.00	100.00
5.628	5.629 (1.037)	99	10488			34.79- 94.79	68.00
112 Carbon Tetrachloride						CAS #: 56-23-5	
5.750	5.750 (1.059)	119	17068	0.50000	0.5105	80.00- 120.00	100.00
5.750	5.750 (1.059)	117	17105			73.63- 133.63	100.22
117 2,2,4-Trimethylpentane						CAS #: 540-84-1	
5.965	5.972 (1.099)	57	41684	0.50000	0.5030	80.00- 120.00	100.00
5.965	5.972 (1.099)	56	14273			2.18- 62.18	34.24
5.965	5.972 (1.099)	41	12379			0.00- 55.61	29.70
118 Benzene						CAS #: 71-43-2	
5.987	5.987 (0.934)	78	18347	0.50000	0.5122	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
118 Benzene (continued)							
5.987	5.987 (0.934)	77	4212			0.00- 53.99	22.96
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.094	6.094 (0.951)	62	11292	0.50000	0.4804	80.00- 120.00	100.00(a)
6.094	6.094 (0.951)	64	5190			1.65- 61.65	45.96
122 Heptane					CAS #: 142-82-5		
6.166	6.166 (0.962)	71	6359	0.50000	0.5062	80.00- 120.00	100.00
6.158	6.166 (0.961)	43	16379			240.22- 300.22	257.57
6.166	6.166 (0.962)	57	9248			110.36- 170.36	145.43
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	9990	0.50000	0.5266	80.00- 120.00	100.00
6.617	6.617 (1.032)	130	7885			67.98- 127.98	78.93
6.624	6.617 (1.034)	97	5058			34.45- 94.45	50.63
131 Methylcyclohexane					CAS #: 108-87-2		
6.717	6.724 (1.238)	83	10984	0.50000	0.5124	80.00- 120.00	100.00(a)
6.717	6.724 (1.238)	98	4967			14.33- 74.33	45.22
6.717	6.724 (1.238)	55	13081			96.87- 156.87	119.09
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.073)	63	9245	0.50000	0.5088	80.00- 120.00	100.00
6.882	6.875 (1.074)	62	6563			41.06- 101.06	70.99
6.875	6.875 (1.073)	41	6178			28.31- 88.31	66.83
141 Dibromomethane					CAS #: 74-95-3		
7.004	7.004 (0.765)	174	9637	0.50000	0.5236	80.00- 120.00	100.00
6.997	6.997 (0.764)	93	8811			66.30- 126.30	91.43
6.997	6.997 (0.764)	95	7116			49.87- 109.87	73.84
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.114)	83	16052	0.50000	0.5016	80.00- 120.00	100.00
7.140	7.140 (1.114)	85	10712			34.86- 94.86	66.73
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.562	7.563 (1.180)	75	11594	0.50000	0.4716	80.00- 120.00	100.00(a)
7.562	7.563 (1.180)	77	4144			1.88- 61.88	35.74
7.562	7.563 (1.180)	39	7677			33.29- 93.29	66.22
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.691	7.691 (1.200)	58	8007	0.50000	0.4769	80.00- 120.00	100.00(aQ)
7.691	7.691 (1.200)	43	24207			235.08- 295.08	302.32
7.691	7.691 (1.200)	85	2628			0.69- 60.69	32.82

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
153 Toluene					CAS #: 108-88-3		
7.820	7.820 (1.220)	91	24316	0.50000	0.5142	80.00- 120.00	100.00
7.820	7.820 (1.220)	92	14130			27.69- 87.69	58.11
151 Octane					CAS #: 111-65-9		
7.849	7.849 (1.225)	57	10514	0.50000	0.5198	80.00- 120.00	100.00
7.849	7.849 (1.225)	85	7764			46.75- 106.75	73.84
7.842	7.842 (1.224)	43	24964			221.22- 281.22	237.44
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.114	8.114 (0.887)	75	11310	0.50000	0.5030	80.00- 120.00	100.00
8.114	8.114 (0.887)	77	3593			1.61- 61.61	31.77
8.114	8.114 (0.887)	39	6124			26.86- 86.86	54.15
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	8647	0.50000	0.5218	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	5983			32.96- 92.96	69.19
8.279	8.279 (0.905)	83	7986			59.05- 119.05	92.36
159 Tetrachloroethene					CAS #: 127-18-4		
8.307	8.308 (0.908)	166	13945	0.50000	0.5397	80.00- 120.00	100.00
8.307	8.308 (0.908)	129	8824			46.43- 106.43	63.28
8.307	8.308 (0.908)	131	9098			45.56- 105.56	65.24
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.443	8.444 (1.317)	76	12938	0.50000	0.5205	80.00- 120.00	100.00(a)
8.443	8.444 (1.317)	41	13414			59.80- 119.80	103.68
8.443	8.444 (1.317)	78	3775			2.58- 62.58	29.18
163 Dibromochloromethane					CAS #: 124-48-1		
8.623	8.630 (0.942)	129	17012	0.50000	0.4956	80.00- 120.00	100.00(a)
8.630	8.630 (0.943)	127	13649			47.90- 107.90	80.23
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.744	8.744 (0.955)	107	15166	0.50000	0.5103	80.00- 120.00	100.00
8.744	8.744 (0.955)	109	14284			64.00- 124.00	94.18
166 Chlorobenzene					CAS #: 108-90-7		
9.174	9.181 (1.002)	112	21099	0.50000	0.5243	80.00- 120.00	100.00(Q)
9.181	9.181 (1.003)	114	7805			2.75- 62.75	36.99
9.167	9.181 (1.002)	77	21683			30.27- 90.27	102.77
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.010)	106	9985	0.50000	0.5015	80.00- 120.00	100.00
9.246	9.246 (1.010)	91	31655			281.27- 341.27	317.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	11904	0.50000	0.5065	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	10496			34.91- 94.91	88.17
9.267	9.267 (1.013)	95	4913			10.71- 70.71	41.27
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.361 (1.023)	106	11980	0.50000	0.4922	80.00- 120.00	100.00(a)
9.360	9.361 (1.023)	91	26220			176.41- 236.41	218.86
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	10223	0.50000	0.4642	80.00- 120.00	100.00(a)
9.747	9.747 (1.065)	91	24488			186.60- 246.60	239.54
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.068)	104	19059	0.50000	0.4899	80.00- 120.00	100.00(a)
9.776	9.776 (1.068)	78	9632			26.08- 86.08	50.54
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	18189	0.50000	0.5047	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	9226			22.58- 82.58	50.72
185 Cumene					CAS #: 98-82-8		
10.084	10.091 (1.102)	105	35665	0.50000	0.4871	80.00- 120.00	100.00(a)
10.084	10.091 (1.102)	120	9425			0.00- 55.43	26.43
10.084	10.091 (1.102)	51	5462			0.00- 44.39	15.31
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.144)	83	20730	0.50000	0.5210	80.00- 120.00	100.00
10.471	10.471 (1.144)	85	12991			35.63- 95.63	62.67
196 Propylbenzene					CAS #: 103-65-1		
10.485	10.492 (1.146)	120	9457	0.50000	0.4873	80.00- 120.00	100.00(a)
10.485	10.492 (1.146)	91	43233			403.96- 463.96	457.15
10.485	10.492 (1.146)	105	1555			0.00- 46.94	16.44
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.149)	110	6860	0.50000	0.5344	80.00- 120.00	100.00
10.521	10.521 (1.149)	75	18294			232.06- 292.06	266.68
10.521	10.521 (1.149)	61	5853			62.53- 122.53	85.32
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.158)	120	11062	0.50000	0.5065	80.00- 120.00	100.00
10.600	10.600 (1.158)	105	37193			317.00- 377.00	336.22
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.159)	126	8962	0.50000	0.5069	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.607	10.607 (1.159)	91	33077			317.25- 377.25	369.08
10.600	10.607 (1.158)	65	5465			32.33- 92.33	60.98
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.664	10.671 (1.165)	120	14077	0.50000	0.4897	80.00- 120.00	100.00(a)
10.664	10.671 (1.165)	105	32161			190.09- 250.09	228.46
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.900	10.901 (1.191)	118	13945	0.50000	0.4652	80.00- 120.00	100.00(a)
10.900	10.901 (1.191)	103	8910			32.49- 92.49	63.89
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.206)	120	12420	0.50000	0.4734	80.00- 120.00	100.00(a)
11.037	11.037 (1.206)	105	32212			204.98- 264.98	259.36
214 sec-Butylbenzene					CAS #: 135-98-8		
11.187	11.194 (1.222)	134	8280	0.50000	0.4820	80.00- 120.00	100.00(a)
11.187	11.194 (1.222)	105	44503			484.40- 544.40	537.48
11.187	11.187 (1.222)	91	7430			54.94- 114.94	89.73
216 p-Cymene					CAS #: 99-87-6		
11.330	11.337 (1.238)	119	37455	0.50000	0.4921	80.00- 120.00	100.00(a)
11.330	11.337 (1.238)	134	8637			0.00- 55.89	23.06
11.330	11.330 (1.238)	91	9724			0.00- 56.21	25.96
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.240)	146	20130	0.50000	0.4894	80.00- 120.00	100.00(a)
11.352	11.352 (1.240)	148	13834			33.67- 93.67	68.72
11.352	11.352 (1.240)	111	10191			13.82- 73.82	50.63
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.250)	146	21267	0.50000	0.4970	80.00- 120.00	100.00(a)
11.445	11.445 (1.250)	148	12855			34.50- 94.50	60.45
11.445	11.445 (1.250)	111	8984			12.20- 72.20	42.24
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.595	11.595 (1.267)	91	28174	0.50000	0.4681	80.00- 120.00	100.00(a)
11.595	11.595 (1.267)	126	6115			0.00- 50.42	21.70
220 Butylbenzene					CAS #: 104-51-8		
11.738	11.739 (1.283)	134	8221	0.50000	0.4553	80.00- 120.00	100.00(aQ)
11.738	11.739 (1.283)	91	36633			345.70- 405.70	445.60
11.738	11.739 (1.283)	92	18558			168.03- 228.03	225.74
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.817	11.817 (1.291)	146	20616	0.50000	0.5019	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
222 1,2-Dichlorobenzene (continued)							
11.824	11.817 (1.292)	148	14031			33.89- 93.89	68.06
11.817	11.817 (1.291)	111	9096			15.34- 75.34	44.12

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a091005.d
Lab Smp Id: ICAL Level 2
Analysis Type: VOA
Quant Type: ISTD
Operator: TO
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 0.5ppbv(5.0ppbv)

Calibration Date: 10-SEP-2024
Calibration Time: 15:01
Client Smp ID: ICAL Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	272599	163559	381639	271489	-0.41
126 1,4-Difluorobenze	989537	593722	1385352	995665	0.62
165 Chlorobenzene-d5	922551	553531	1291571	916605	-0.64

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	-0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	-0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/10SEP24.b/a091005.d

Date : 10-SEP-2024 12:43

Client ID: ICAL Level 2

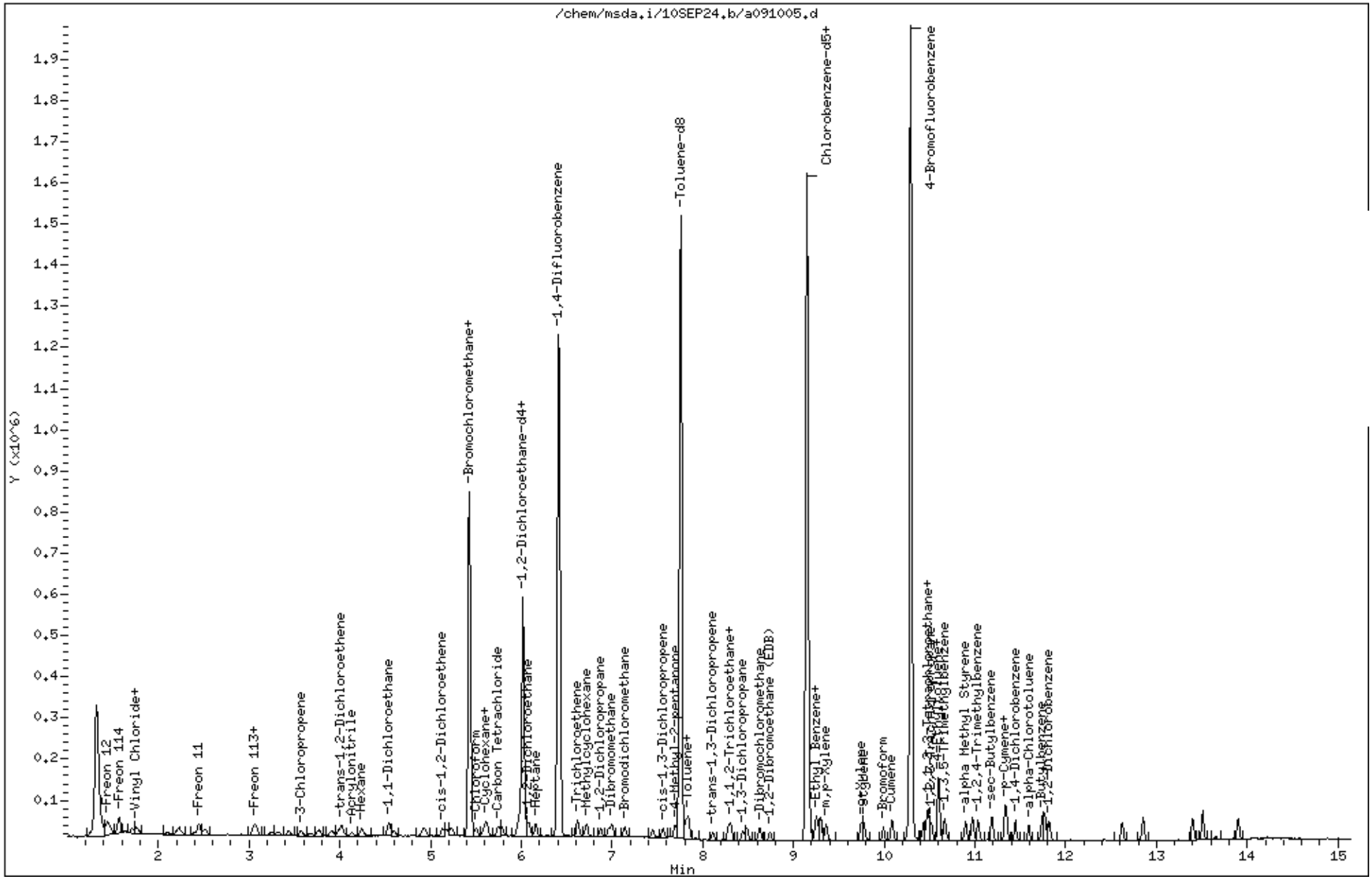
Sample Info: 20mL 3018-4809

Column phase: RTX-624

Instrument: msda.i

Operator: TO

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/10SEP24.b/a091006.d
Lab Smp Id: ICAL Level 3 Client Smp ID: ICAL Level 3
Inj Date : 10-SEP-2024 13:17
Operator : TO Inst ID: msda.i
Smp Info : 40mL 3018-4809
Misc Info : 1.0ppbv(5.0ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Meth Date : 10-Sep-2024 18:16 h6wn Quant Type: ISTD
Cal Date : 10-SEP-2024 13:17 Cal File: a091006.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24_Level3.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 100 Bromochloromethane						CAS #: 74-97-5	
5.428	5.428 (1.000)	130	271092	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	213498			46.45- 106.45	78.75
5.428	5.428 (1.000)	49	566005			167.12- 227.12	208.79
$ 119 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
6.015	6.015 (1.108)	65	481623	25.0000	25.289	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	227661			23.36- 83.36	47.27
* 126 1,4-Difluorobenzene						CAS #: 540-36-3	
6.409	6.409 (1.000)	114	1030217	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	166272			0.00- 46.36	16.14
$ 152 Toluene-d8						CAS #: 2037-26-5	
7.756	7.756 (1.210)	98	1065000	25.0000	24.836	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	130733			0.00- 41.92	12.28
7.756	7.756 (1.210)	100	728391			39.07- 99.07	68.39
* 165 Chlorobenzene-d5						CAS #: 3114-55-4	
9.153	9.153 (1.000)	117	953714	25.0000		80.00- 120.00	100.00

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	======	========	====	========	=======	=======	==========	=====
* 165 Chlorobenzene-d5 (continued)								
9.153	9.153	(1.000)	82	542365			27.12- 87.12	56.87
$ 191 4-Bromofluorobenzene						CAS #: 460-00-4		
10.299	10.299	(1.125)	174	613824	25.0000	24.362	80.00- 120.00	100.00
10.292	10.299	(1.124)	95	753275			89.27- 149.27	122.72
10.299	10.299	(1.125)	176	604512			66.29- 126.29	98.48
6 Freon 134a						CAS #: 811-97-2		
1.381	1.388	(0.254)	83	12311	1.00000	0.9844	80.00- 120.00	100.00(a)
1.381	1.388	(0.254)	69	10161			41.53- 101.53	82.54
1.381	1.388	(0.254)	63	1206			0.00- 42.30	9.80
8 Propylene						CAS #: 115-07-1		
1.417	1.424	(0.261)	41	13042	1.00000	1.050	80.00- 120.00	100.00(a)
1.417	1.424	(0.261)	42	8083			38.18- 98.18	61.98
1.417	1.424	(0.261)	39	8947			40.18- 100.18	68.60
9 1,1-Difluoroethane						CAS #: 75-37-6		
1.431	1.431	(0.264)	65	7213	1.00000	1.020	80.00- 120.00	100.00(a)
1.474	1.474	(0.272)	51	29243			362.20- 422.20	405.42
1.431	1.438	(0.264)	47	5112			41.18- 101.18	70.87
10 Freon 12						CAS #: 75-71-8		
1.445	1.452	(0.266)	85	32605	1.00000	0.9755	80.00- 120.00	100.00
1.445	1.452	(0.266)	87	11308			1.90- 61.90	34.68
12 Chlorodifluoromethane						CAS #: 75-45-6		
1.474	1.481	(0.272)	67	3018	1.00000	0.9322	80.00- 120.00	100.00(Q)
1.474	1.474	(0.272)	51	29243			756.67- 816.67	968.95
15 Freon 114						CAS #: 76-14-2		
1.560	1.560	(0.287)	135	21056	1.00000	0.9568	80.00- 120.00	100.00
1.560	1.560	(0.287)	137	6994			1.76- 61.76	33.22
16 Isobutane						CAS #: 75-28-5		
1.567	1.574	(0.289)	43	27890	1.00000	1.020	80.00- 120.00	100.00(a)
1.567	1.574	(0.289)	42	10007			2.85- 62.85	35.88
1.574	1.574	(0.290)	58	818			0.00- 33.52	2.93
22 Butane						CAS #: 106-97-8		
1.703	1.703	(0.314)	58	3198	1.00000	1.140	80.00- 120.00	100.00(aQ)
1.703	1.703	(0.314)	43	17942			706.79- 766.79	561.04
24 Vinyl Chloride						CAS #: 75-01-4		
1.739	1.746	(0.320)	62	11301	1.00000	0.8802	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
24 Vinyl Chloride (continued)							
1.739	1.746 (0.320)	64	3778			0.00- 59.56	33.43
25 1,3-Butadiene					CAS #: 106-99-0		
1.760	1.768 (0.324)	54	10171	1.00000	0.8393	80.00- 120.00	100.00
1.760	1.768 (0.324)	39	9936			64.19- 124.19	97.69
30 Chloroethane					CAS #: 75-00-3		
2.197	2.205 (0.405)	64	6768	1.00000	1.017	80.00- 120.00	100.00(a)
2.204	2.205 (0.406)	66	2297			0.20- 60.20	33.94
2.197	2.205 (0.405)	49	3117			7.38- 67.38	46.05
31 Isopentane					CAS #: 78-78-4		
2.226	2.233 (0.410)	43	20187	1.00000	1.053	80.00- 120.00	100.00(a)
2.226	2.233 (0.410)	57	11800			38.61- 98.61	58.45
32 Vinyl Bromide					CAS #: 593-60-2		
2.391	2.398 (0.440)	106	10698	1.00000	0.9635	80.00- 120.00	100.00
2.398	2.398 (0.442)	108	9841			62.27- 122.27	91.99
33 Freon 11					CAS #: 75-69-4		
2.441	2.448 (0.450)	101	37845	1.00000	1.004	80.00- 120.00	100.00
2.441	2.448 (0.450)	103	26044			35.49- 95.49	68.82
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.448	2.455 (0.451)	67	29035	1.00000	1.024	80.00- 120.00	100.00(a)
2.448	2.455 (0.451)	69	8646			0.95- 60.95	29.78
37 Pentane					CAS #: 109-66-0		
2.513	2.513 (0.463)	43	29490	1.00000	1.015	80.00- 120.00	100.00
2.513	2.513 (0.463)	57	4634			0.00- 45.38	15.71
2.505	2.520 (0.462)	72	2020			0.00- 37.02	6.85
42 Ethanol					CAS #: 64-17-5		
2.770	2.763 (0.510)	46	3341	1.22300	1.320	80.00- 120.00	100.00(aM1)
2.770	2.763 (0.510)	45	7822			225.08- 285.08	234.12
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.562)	55	5912	1.16600	1.171	80.00- 120.00	100.00(a)
3.057	3.050 (0.563)	56	8794			109.39- 169.39	148.75
47 Freon 113					CAS #: 76-13-1		
3.050	3.057 (0.562)	151	21837	1.00000	0.9963	80.00- 120.00	100.00
3.057	3.057 (0.563)	153	12691			33.72- 93.72	58.12
3.057	3.057 (0.563)	101	28357			94.86- 154.86	129.86

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.086	3.086 (0.568)	98	7205	1.00000	0.9548	80.00- 120.00	100.00
3.086	3.086 (0.568)	96	11371			127.35- 187.35	157.82
3.086	3.086 (0.568)	61	24249			327.38- 387.38	336.56
54 Carbon Disulfide					CAS #: 75-15-0		
3.322	3.322 (0.612)	76	35142	1.00000	1.034	80.00- 120.00	100.00(a)
57 2-Propanol					CAS #: 67-63-0		
3.437	3.422 (0.633)	45	35640	1.16600	1.194	80.00- 120.00	100.00(a)
3.437	3.422 (0.633)	43	7992			0.00- 48.07	22.42
3.437	3.422 (0.633)	59	1205			0.00- 33.65	3.38
58 3-Chloropropene					CAS #: 107-05-1		
3.573	3.573 (0.658)	76	5254	1.00000	0.9711	80.00- 120.00	100.00(Q)
3.573	3.573 (0.658)	41	23183			369.70- 429.70	441.24
60 Acetonitrile					CAS #: 75-05-8		
3.673	3.673 (0.677)	40	11292	1.15600	1.356	80.00- 120.00	100.00(aQ)
3.680	3.673 (0.678)	41	17900			161.56- 221.56	158.52
3.766	3.773 (0.694)	38	247			0.00- 31.07	2.19
70 tert-Butyl alcohol					CAS #: 75-65-0		
3.909	3.902 (0.720)	59	42472	1.16300	1.228	80.00- 120.00	100.00(a)
3.909	3.902 (0.720)	41	10138			0.00- 51.01	23.87
3.916	3.902 (0.722)	57	4644			0.00- 41.01	10.93
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.995	3.995 (0.736)	73	34745	1.00000	0.9964	80.00- 120.00	100.00
3.995	3.995 (0.736)	57	12136			0.93- 60.93	34.93
3.995	3.995 (0.736)	41	12943			0.00- 59.87	37.25
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	8289	1.00000	1.022	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	23469			282.80- 342.80	283.13
4.024	4.024 (0.741)	96	11264			122.91- 182.91	135.89
74 Acrylonitrile					CAS #: 107-13-1		
4.131	4.131 (0.761)	52	10910	1.00000	0.9006	80.00- 120.00	100.00
4.131	4.131 (0.761)	53	14963			88.44- 148.44	137.15
78 Hexane					CAS #: 110-54-3		
4.239	4.246 (0.781)	57	26086	1.00000	0.9940	80.00- 120.00	100.00
4.239	4.246 (0.781)	43	18127			34.01- 94.01	69.49
4.246	4.246 (0.782)	86	2756			0.00- 40.22	10.57

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
82 Isopropyl ether						CAS #: 108-20-3	
4.540	4.540 (0.836)	45	61781	1.00000	1.026	80.00- 120.00	100.00(a)
4.532	4.540 (0.835)	87	9055			0.00- 47.08	14.66
4.540	4.540 (0.836)	59	6988			0.00- 40.83	11.31
83 1,1-Dichloroethane						CAS #: 75-34-3	
4.547	4.547 (0.838)	63	26984	1.00000	0.9886	80.00- 120.00	100.00
4.547	4.547 (0.838)	65	7859			0.00- 59.58	29.12
84 Vinyl Acetate						CAS #: 108-05-4	
4.597	4.597 (0.847)	86	2259	1.16200	0.9657	80.00- 120.00	100.00(aQ)
4.597	4.597 (0.847)	43	47948			1663.30-1723.30	2122.53
88 Ethyl-tert-butyl ether						CAS #: 637-92-3	
4.926	4.927 (0.908)	59	49809	1.00000	0.9646	80.00- 120.00	100.00(a)
4.926	4.927 (0.908)	87	15966			0.00- 58.78	32.05
4.926	4.927 (0.908)	41	11804			0.00- 48.47	23.70
90 2,2-Dichloropropane						CAS #: 594-20-7	
5.134	5.134 (0.946)	77	26627	1.00000	1.020	80.00- 120.00	100.00(a)
5.127	5.134 (0.945)	79	8757			2.20- 62.20	32.89
5.127	5.134 (0.945)	97	4410			0.00- 50.29	16.56
91 cis-1,2-Dichloroethene						CAS #: 156-59-2	
5.177	5.177 (0.954)	98	8311	1.00000	1.010	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	13239			123.49- 183.49	159.29
5.177	5.177 (0.954)	61	28908			310.35- 370.35	347.83
92 2-Butanone						CAS #: 78-93-3	
5.213	5.206 (0.960)	72	6269	1.00000	1.022	80.00- 120.00	100.00(aQ)
5.227	5.206 (0.963)	43	79424			1272.59-1332.59	1266.93
5.206	5.206 (0.959)	57	2618			18.61- 78.61	41.76
93 Ethyl Acetate						CAS #: 141-78-6	
5.234	5.227 (0.964)	70	2998	1.00000	0.9847	80.00- 120.00	100.00(aQ)
5.177	5.177 (0.954)	61	28908			877.60- 937.60	964.24
5.234	5.227 (0.964)	45	8274			179.24- 239.24	275.98
99 Tetrahydrofuran						CAS #: 109-99-9	
5.428	5.414 (1.000)	42	21045	1.00000	1.013	80.00- 120.00	100.00
5.428	5.414 (1.000)	71	5516			0.00- 56.60	26.21
5.428	5.414 (1.000)	72	4834			0.00- 56.86	22.97
103 Chloroform						CAS #: 67-66-3	
5.507	5.507 (1.014)	83	31203	1.00000	1.035	80.00- 120.00	100.00
5.507	5.507 (1.014)	85	20307			34.90- 94.90	65.08

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
104 Cyclohexane					CAS #: 110-82-7		
5.600	5.600 (1.032)	84	14560	1.00000	0.9492	80.00- 120.00	100.00
5.600	5.600 (1.032)	56	29014			152.85- 212.85	199.27
5.600	5.600 (1.032)	41	15594			65.81- 125.81	107.10
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.628	5.629 (1.037)	97	29813	1.00000	0.9884	80.00- 120.00	100.00
5.628	5.629 (1.037)	99	19067			34.79- 94.79	63.96
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.750	5.750 (1.059)	119	34756	1.00000	1.027	80.00- 120.00	100.00
5.750	5.750 (1.059)	117	35881			73.63- 133.63	103.24
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.786	5.793 (0.903)	110	6741	1.00000	0.9670	80.00- 120.00	100.00(a)
5.786	5.793 (0.903)	75	20071			260.30- 320.30	297.75
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.972	5.972 (1.100)	57	78916	1.00000	0.9686	80.00- 120.00	100.00
5.972	5.972 (1.100)	56	26066			2.18- 62.18	33.03
5.972	5.972 (1.100)	41	22867			0.00- 55.61	28.98
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	34217	1.00000	0.9474	80.00- 120.00	100.00
5.987	5.987 (0.934)	77	8592			0.00- 53.99	25.11
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.080	6.073 (1.120)	87	7876	1.00000	0.9288	80.00- 120.00	100.00(aQ)
6.073	6.073 (1.119)	73	35212			362.99- 422.99	447.08
6.073	6.073 (1.119)	55	16267			122.42- 182.42	206.54
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.094	6.094 (0.951)	62	24419	1.00000	1.003	80.00- 120.00	100.00
6.094	6.094 (0.951)	64	7635			1.65- 61.65	31.27
122 Heptane					CAS #: 142-82-5		
6.158	6.166 (0.961)	71	11415	1.00000	0.9154	80.00- 120.00	100.00
6.158	6.166 (0.961)	43	33202			240.22- 300.22	290.86
6.158	6.166 (0.961)	57	16323			110.36- 170.36	143.00
128 n-Butanol					CAS #: 71-36-3		
6.624	6.617 (1.034)	56	15541	1.00000	0.9887	80.00- 120.00	100.00(a)
6.624	6.617 (1.034)	41	13363			39.42- 99.42	85.99
6.624	6.617 (1.034)	43	9604			25.37- 85.37	61.80
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	17314	1.00000	0.9182	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
129 Trichloroethene (continued)							
6.624	6.617 (1.034)	130	16652			67.98- 127.98	96.18
6.617	6.617 (1.032)	97	11076			34.45- 94.45	63.97
131 Methylcyclohexane					CAS #: 108-87-2		
6.717	6.724 (1.238)	83	21397	1.00000	0.9998	80.00- 120.00	100.00(a)
6.717	6.724 (1.238)	98	9711			14.33- 74.33	45.38
6.717	6.724 (1.238)	55	25235			96.87- 156.87	117.94
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.073)	63	17737	1.00000	0.9616	80.00- 120.00	100.00
6.875	6.875 (1.073)	62	12681			41.06- 101.06	71.49
6.875	6.875 (1.073)	41	9996			28.31- 88.31	56.36
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	13187	1.00000	0.9632	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	26041			153.10- 213.10	197.47
6.961	6.961 (0.761)	100	4826			8.18- 68.18	36.60
140 1,4-Dioxane					CAS #: 123-91-1		
6.989	6.982 (1.091)	88	9328	1.00000	0.9887	80.00- 120.00	100.00
6.989	6.982 (1.091)	58	9247			74.98- 134.98	99.13
6.997	6.982 (1.092)	57	3382			8.55- 68.55	36.26
141 Dibromomethane					CAS #: 74-95-3		
7.004	7.004 (0.765)	174	18253	1.00000	0.9682	80.00- 120.00	100.00
6.997	6.997 (0.764)	93	17415			66.30- 126.30	95.41
6.997	6.997 (0.764)	95	14392			49.87- 109.87	78.85
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.114)	83	32000	1.00000	0.9774	80.00- 120.00	100.00
7.140	7.140 (1.114)	85	19551			34.86- 94.86	61.10
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.162)	63	35524	1.00000	1.003	80.00- 120.00	100.00(a)
7.448	7.448 (1.162)	65	10142			0.00- 58.67	28.55
7.448	7.448 (1.162)	144	2663			0.00- 39.14	7.50
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.562	7.563 (1.180)	75	24869	1.00000	0.9850	80.00- 120.00	100.00
7.562	7.563 (1.180)	77	7718			1.88- 61.88	31.03
7.562	7.563 (1.180)	39	16830			33.29- 93.29	67.67
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.691	7.691 (1.200)	58	18828	1.00000	1.054	80.00- 120.00	100.00
7.691	7.691 (1.200)	43	52853			235.08- 295.08	280.71

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
150 4-Methyl-2-pentanone (continued)							
7.691	7.691 (1.200)	85	5450			0.69- 60.69	28.95
153 Toluene					CAS #: 108-88-3		
7.820	7.820 (1.220)	91	48031	1.00000	0.9876	80.00- 120.00	100.00
7.813	7.820 (1.219)	92	26155			27.69- 87.69	54.45
151 Octane					CAS #: 111-65-9		
7.842	7.849 (1.224)	57	19141	1.00000	0.9414	80.00- 120.00	100.00
7.849	7.849 (1.225)	85	14570			46.75- 106.75	76.12
7.842	7.842 (1.224)	43	50021			221.22- 281.22	261.33
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.114	8.114 (0.887)	75	22284	1.00000	0.9678	80.00- 120.00	100.00
8.114	8.114 (0.887)	77	6546			1.61- 61.61	29.38
8.114	8.114 (0.887)	39	12900			26.86- 86.86	57.89
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	16869	1.00000	0.9855	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	10097			32.96- 92.96	59.86
8.279	8.279 (0.905)	83	13939			59.05- 119.05	82.63
159 Tetrachloroethene					CAS #: 127-18-4		
8.307	8.308 (0.908)	166	25041	1.00000	0.9532	80.00- 120.00	100.00
8.307	8.308 (0.908)	129	19224			46.43- 106.43	76.77
8.307	8.308 (0.908)	131	18335			45.56- 105.56	73.22
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.317)	76	23737	1.00000	0.9473	80.00- 120.00	100.00(a)
8.444	8.444 (1.317)	41	22274			59.80- 119.80	93.84
8.444	8.444 (1.317)	78	8548			2.58- 62.58	36.01
162 2-Hexanone					CAS #: 591-78-6		
8.479	8.479 (0.926)	58	25070	1.00000	0.9908	80.00- 120.00	100.00(a)
8.486	8.479 (0.927)	43	50926			159.07- 219.07	203.14
8.486	8.479 (0.927)	100	3946			0.00- 43.98	15.74
163 Dibromochloromethane					CAS #: 124-48-1		
8.630	8.630 (0.943)	129	32297	1.00000	0.9341	80.00- 120.00	100.00
8.623	8.630 (0.942)	127	27467			47.90- 107.90	85.05
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.744	8.744 (0.955)	107	28335	1.00000	0.9426	80.00- 120.00	100.00
8.744	8.744 (0.955)	109	27851			64.00- 124.00	98.29
166 Chlorobenzene					CAS #: 108-90-7		
9.174	9.181 (1.002)	112	40149	1.00000	0.9722	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
166 Chlorobenzene (continued)							
9.174	9.181 (1.002)	114	13088			2.75- 62.75	32.60
9.174	9.181 (1.002)	77	34347			30.27- 90.27	85.55
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.010)	106	18319	1.00000	0.9198	80.00- 120.00	100.00(Q)
9.246	9.246 (1.010)	91	62645			281.27- 341.27	341.97
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	21849	1.00000	0.9263	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	17834			34.91- 94.91	81.62
9.267	9.267 (1.013)	95	10016			10.71- 70.71	45.84
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.016)	43	51294	1.00000	0.9933	80.00- 120.00	100.00
9.303	9.303 (1.016)	57	40174			57.91- 117.91	78.32
9.303	9.303 (1.016)	85	10321			0.00- 52.91	20.12
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.361 (1.023)	106	22636	1.00000	0.9266	80.00- 120.00	100.00
9.360	9.361 (1.023)	91	50156			176.41- 236.41	221.58
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	22211	1.00000	0.9794	80.00- 120.00	100.00
9.747	9.747 (1.065)	91	49747			186.60- 246.60	223.97
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.068)	104	36809	1.00000	0.9377	80.00- 120.00	100.00
9.776	9.776 (1.068)	78	20459			26.08- 86.08	55.58
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	35210	1.00000	0.9585	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	17117			22.58- 82.58	48.61
185 Cumene					CAS #: 98-82-8		
10.084	10.091 (1.102)	105	72475	1.00000	0.9670	80.00- 120.00	100.00
10.091	10.091 (1.103)	120	17513			0.00- 55.43	24.16
10.084	10.091 (1.102)	51	10924			0.00- 44.39	15.07
189 Cyclohexanone					CAS #: 108-94-1		
10.263	10.263 (1.121)	55	39460	1.00000	1.090	80.00- 120.00	100.00(a)
10.263	10.263 (1.121)	98	9593			0.00- 57.69	24.31
10.263	10.256 (1.121)	42	24721			32.21- 92.21	62.65
192 Bromobenzene					CAS #: 108-86-1		
10.435	10.435 (1.140)	156	24786	1.00000	0.9847	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
192 Bromobenzene (continued)							
10.435	10.435 (1.140)	158	24288			68.15- 128.15	97.99
10.428	10.428 (1.139)	77	37918			125.89- 185.89	152.98
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.144)	83	38904	1.00000	0.9590	80.00- 120.00	100.00
10.471	10.471 (1.144)	85	25277			35.63- 95.63	64.97
196 Propylbenzene					CAS #: 103-65-1		
10.485	10.492 (1.146)	120	18503	1.00000	0.9426	80.00- 120.00	100.00(Q)
10.485	10.492 (1.146)	91	86693			403.96- 463.96	468.53
10.492	10.492 (1.146)	105	2529			0.00- 46.94	13.67
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.149)	110	12778	1.00000	0.9707	80.00- 120.00	100.00
10.521	10.521 (1.149)	75	31155			232.06- 292.06	243.82
10.521	10.521 (1.149)	61	11514			62.53- 122.53	90.11
199 Decane					CAS #: 124-18-5		
10.600	10.600 (1.158)	57	54515	1.00000	0.9625	80.00- 120.00	100.00
10.600	10.600 (1.158)	71	15613			0.00- 56.58	28.64
10.600	10.600 (1.158)	142	1787			0.00- 33.23	3.28
200 4-Ethyltoluene					CAS #: 622-96-8		
10.607	10.600 (1.159)	120	20646	1.00000	0.9371	80.00- 120.00	100.00
10.600	10.600 (1.158)	105	73805			317.00- 377.00	357.48
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.159)	126	18178	1.00000	0.9921	80.00- 120.00	100.00
10.607	10.607 (1.159)	91	64310			317.25- 377.25	353.78
10.607	10.607 (1.159)	65	10491			32.33- 92.33	57.71
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.664	10.671 (1.165)	120	29073	1.00000	0.9812	80.00- 120.00	100.00
10.664	10.671 (1.165)	105	64151			190.09- 250.09	220.65
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.900	10.901 (1.191)	118	29339	1.00000	0.9597	80.00- 120.00	100.00
10.900	10.901 (1.191)	103	16372			32.49- 92.49	55.80
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.199)	119	57470	1.00000	0.9644	80.00- 120.00	100.00
10.972	10.972 (1.199)	134	14413			0.00- 53.10	25.08
10.972	10.972 (1.199)	91	42158			40.97- 100.97	73.36
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.206)	120	24808	1.00000	0.9373	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
212 1,2,4-Trimethylbenzene (continued)							
11.037	11.037 (1.206)	105	61222			204.98- 264.98	246.78
214 sec-Butylbenzene					CAS #: 135-98-8		
11.187	11.194 (1.222)	134	16009	1.00000	0.9279	80.00- 120.00	100.00(Q)
11.187	11.194 (1.222)	105	90692			484.40- 544.40	566.51
11.187	11.187 (1.222)	91	14379			54.94- 114.94	89.82
216 p-Cymene					CAS #: 99-87-6		
11.330	11.337 (1.238)	119	75274	1.00000	0.9664	80.00- 120.00	100.00
11.337	11.337 (1.239)	134	19318			0.00- 55.89	25.66
11.330	11.330 (1.238)	91	20516			0.00- 56.21	27.26
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.240)	146	44325	1.00000	1.024	80.00- 120.00	100.00
11.352	11.352 (1.240)	148	27977			33.67- 93.67	63.12
11.352	11.352 (1.240)	111	18601			13.82- 73.82	41.97
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.250)	146	42792	1.00000	0.9737	80.00- 120.00	100.00
11.445	11.445 (1.250)	148	27077			34.50- 94.50	63.28
11.445	11.445 (1.250)	111	17847			12.20- 72.20	41.71
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.595	11.595 (1.267)	91	59198	1.00000	0.9628	80.00- 120.00	100.00
11.595	11.595 (1.267)	126	12973			0.00- 50.42	21.91
220 Butylbenzene					CAS #: 104-51-8		
11.739	11.739 (1.283)	134	18280	1.00000	0.9819	80.00- 120.00	100.00
11.739	11.739 (1.283)	91	71085			345.70- 405.70	388.87
11.739	11.739 (1.283)	92	36490			168.03- 228.03	199.62
221 Undecane					CAS #: 1120-21-4		
11.774	11.774 (1.286)	57	60777	1.00000	0.9422	80.00- 120.00	100.00(a)
11.774	11.774 (1.286)	43	56380			57.09- 117.09	92.77
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.817	11.817 (1.291)	146	42883	1.00000	1.002	80.00- 120.00	100.00
11.817	11.817 (1.291)	148	25594			33.89- 93.89	59.68
11.817	11.817 (1.291)	111	18466			15.34- 75.34	43.06
227 Dodecane					CAS #: 112-40-3		
12.856	12.856 (1.405)	57	57158	1.00000	0.8440	80.00- 120.00	100.00
12.856	12.856 (1.405)	43	47233			50.33- 110.33	82.64
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.620	12.620 (1.379)	157	29875	1.00000	1.009	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
226 1,2-Dibromo-3-chloropropane (continued)							
12.620	12.620 (1.379)	75	27652			65.80- 125.80	92.56
12.620	12.620 (1.379)	155	20346			47.61- 107.61	68.10
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.400	13.400 (1.464)	180	40978	1.12100	1.078	80.00- 120.00	100.00(a)
13.407	13.400 (1.465)	182	39211			65.96- 125.96	95.69
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.515	13.515 (1.477)	225	36402	1.12700	1.095	80.00- 120.00	100.00(a)
13.515	13.515 (1.477)	223	23073			33.50- 93.50	63.38
232 Naphthalene					CAS #: 91-20-3		
13.651	13.651 (1.491)	128	10329	0.11800	0.1144	80.00- 120.00	100.00(a)
13.651	13.651 (1.491)	127	1554			0.00- 42.81	15.05
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.902	13.902 (1.519)	180	38375	1.12700	1.057	80.00- 120.00	100.00(a)
13.902	13.902 (1.519)	182	38456			64.83- 124.83	100.21
13.902	13.902 (1.519)	145	14601			3.99- 63.99	38.05

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M1- Compound response manually integrated because
Target system did not integrate.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a091006.d
Lab Smp Id: ICAL Level 3
Analysis Type: VOA
Quant Type: ISTD
Operator: TO
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 1.0ppbv(5.0ppbv)

Calibration Date: 10-SEP-2024
Calibration Time: 15:01
Client Smp ID: ICAL Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	272599	163559	381639	271092	-0.55
126 1,4-Difluorobenze	989537	593722	1385352	1030217	4.11
165 Chlorobenzene-d5	922551	553531	1291571	953714	3.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	-0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	-0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/10SEP24.b/a091006.d

Date : 10-SEP-2024 13:17

Client ID: ICAL Level 3

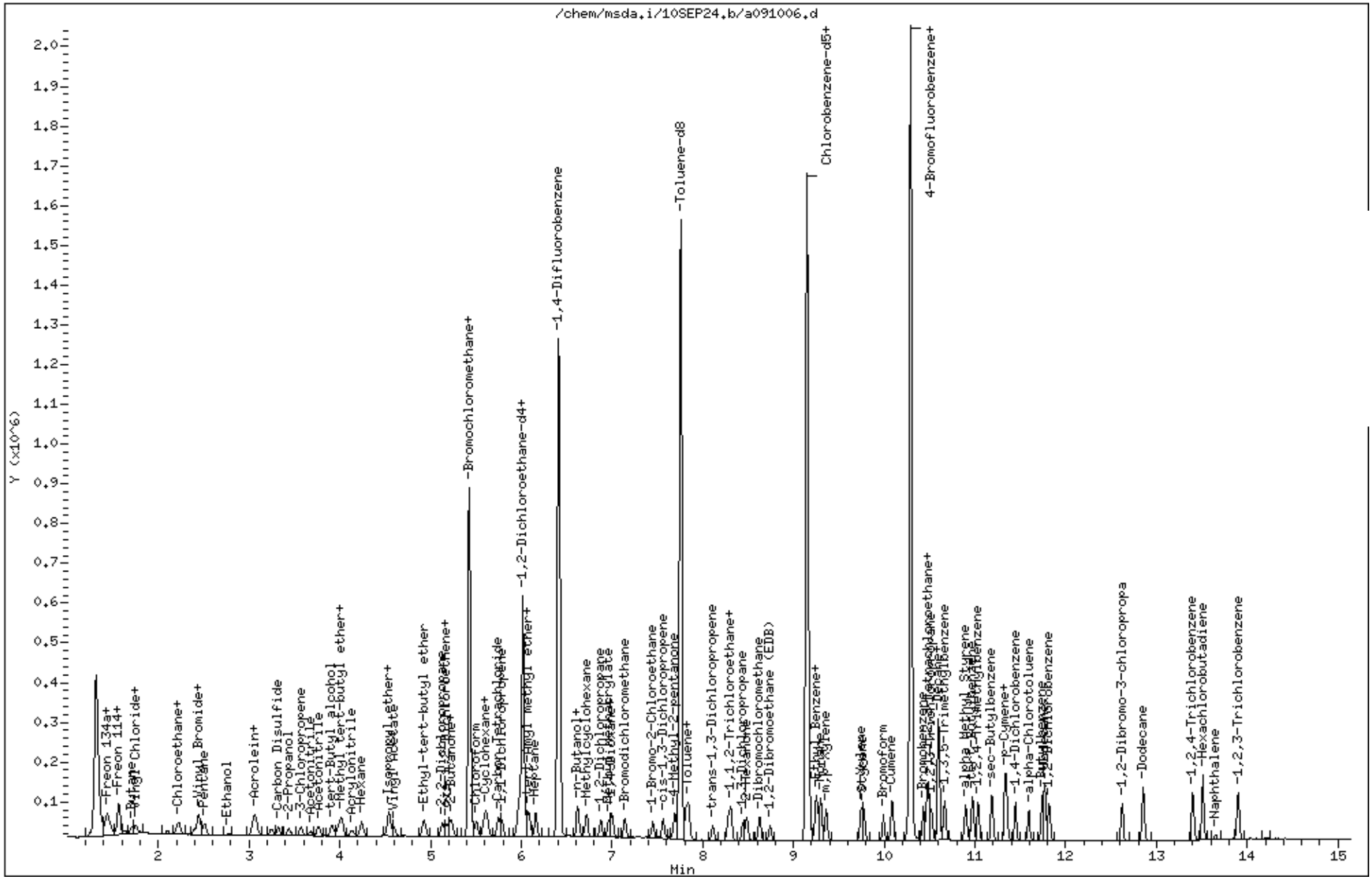
Sample Info: 40mL 3018-4809

Column phase: RTX-624

Instrument: msda.i

Operator: TO

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/10SEP24.b/a091007.d
Lab Smp Id: ICAL Level 5 Client Smp ID: ICAL Level 5
Inj Date : 10-SEP-2024 13:54
Operator : TO Inst ID: msda.i
Smp Info : 200mL 3018-4809
Misc Info : 5.0ppbv(5.0ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Meth Date : 10-Sep-2024 18:16 h6wn Quant Type: ISTD
Cal Date : 10-SEP-2024 13:54 Cal File: a091007.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane						CAS #: 74-97-5	
5.428	5.428 (1.000)	130	264813	25.0000		80.00- 120.00	100.00
5.421	5.428 (1.000)	128	210002			46.45- 106.45	79.30
5.421	5.428 (1.000)	49	556009			167.12- 227.12	209.96
$ 119 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
6.015	6.015 (1.108)	65	465686	25.0000	25.024	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	226298			23.36- 83.36	48.59
* 126 1,4-Difluorobenzene						CAS #: 540-36-3	
6.409	6.409 (1.000)	114	987004	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	163807			0.00- 46.36	16.60
$ 152 Toluene-d8						CAS #: 2037-26-5	
7.756	7.756 (1.210)	98	1022175	25.0000	24.911	80.00- 120.00	100.00
7.749	7.756 (1.209)	70	119189			0.00- 41.92	11.66
7.756	7.756 (1.210)	100	692080			39.07- 99.07	67.71
* 165 Chlorobenzene-d5						CAS #: 3114-55-4	
9.146	9.153 (1.000)	117	887941	25.0000		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 165 Chlorobenzene-d5 (continued)							
9.146	9.153 (1.000)	82	518897			27.12- 87.12	58.44
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.299 (1.125)	174	611552	25.0000	25.794	80.00- 120.00	100.00
10.292	10.299 (1.125)	95	734975			89.27- 149.27	120.18
10.292	10.299 (1.125)	176	566664			66.29- 126.29	92.66
6 Freon 134a					CAS #: 811-97-2		
1.374	1.388 (0.253)	83	52319	5.00000	4.498	80.00- 120.00	100.00
1.374	1.388 (0.253)	69	36847			41.53- 101.53	70.43
1.374	1.388 (0.253)	63	5715			0.00- 42.30	10.92
8 Propylene					CAS #: 115-07-1		
1.410	1.424 (0.260)	41	61405	5.00000	5.039	80.00- 120.00	100.00
1.410	1.424 (0.260)	42	41463			38.18- 98.18	67.52
1.410	1.424 (0.260)	39	41665			40.18- 100.18	67.85
9 1,1-Difluoroethane					CAS #: 75-37-6		
1.424	1.431 (0.262)	65	34133	5.00000	4.960	80.00- 120.00	100.00
1.467	1.474 (0.270)	51	129629			362.20- 422.20	379.78
1.424	1.438 (0.262)	47	24033			41.18- 101.18	70.41
10 Freon 12					CAS #: 75-71-8		
1.438	1.452 (0.265)	85	162741	5.00000	4.988	80.00- 120.00	100.00
1.438	1.452 (0.265)	87	50535			1.90- 61.90	31.05
12 Chlorodifluoromethane					CAS #: 75-45-6		
1.467	1.481 (0.270)	67	17747	5.00000	5.392	80.00- 120.00	100.00(Q)
1.467	1.474 (0.270)	51	129629			756.67- 816.67	730.43
15 Freon 114					CAS #: 76-14-2		
1.553	1.560 (0.286)	135	100322	5.00000	4.746	80.00- 120.00	100.00
1.553	1.560 (0.286)	137	32439			1.76- 61.76	32.33
16 Isobutane					CAS #: 75-28-5		
1.567	1.574 (0.289)	43	130127	5.00000	4.915	80.00- 120.00	100.00
1.567	1.574 (0.289)	42	40966			2.85- 62.85	31.48
1.567	1.574 (0.289)	58	4432			0.00- 33.52	3.41
17 Chloromethane					CAS #: 74-87-3		
1.624	1.632 (0.299)	50	57428	5.00000	5.005	80.00- 120.00	100.00
1.624	1.632 (0.299)	52	18701			2.14- 62.14	32.56
22 Butane					CAS #: 106-97-8		
1.703	1.703 (0.314)	58	10867	5.00000	4.259	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
22 Butane (continued)							
1.703	1.703 (0.314)	43	76921			706.79- 766.79	707.84
24 Vinyl Chloride					CAS #: 75-01-4		
1.732	1.746 (0.319)	62	50296	5.00000	4.219	80.00- 120.00	100.00
1.732	1.746 (0.319)	64	16524			0.00- 59.56	32.85
25 1,3-Butadiene					CAS #: 106-99-0		
1.760	1.768 (0.324)	54	46249	5.00000	4.133	80.00- 120.00	100.00
1.760	1.768 (0.324)	39	41440			64.19- 124.19	89.60
29 Bromomethane					CAS #: 74-83-9		
2.083	2.104 (0.384)	94	35697	5.00000	4.320	80.00- 120.00	100.00
2.083	2.104 (0.384)	96	34315			63.72- 123.72	96.13
30 Chloroethane					CAS #: 75-00-3		
2.190	2.205 (0.404)	64	24455	5.00000	4.100	80.00- 120.00	100.00
2.190	2.205 (0.404)	66	8199			0.20- 60.20	33.53
2.190	2.205 (0.404)	49	8926			7.38- 67.38	36.50
31 Isopentane					CAS #: 78-78-4		
2.212	2.233 (0.407)	43	57708	5.00000	3.534	80.00- 120.00	100.00
2.212	2.233 (0.407)	57	44732			38.61- 98.61	77.51
32 Vinyl Bromide					CAS #: 593-60-2		
2.384	2.398 (0.439)	106	47623	5.00000	4.577	80.00- 120.00	100.00
2.384	2.398 (0.439)	108	42342			62.27- 122.27	88.91
33 Freon 11					CAS #: 75-69-4		
2.427	2.448 (0.447)	101	167166	5.00000	4.647	80.00- 120.00	100.00
2.427	2.448 (0.447)	103	109732			35.49- 95.49	65.64
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.441	2.455 (0.450)	67	111792	5.00000	4.314	80.00- 120.00	100.00
2.441	2.455 (0.450)	69	36366			0.95- 60.95	32.53
37 Pentane					CAS #: 109-66-0		
2.491	2.513 (0.459)	43	92728	5.00000	3.694	80.00- 120.00	100.00
2.491	2.513 (0.459)	57	18010			0.00- 45.38	19.42
2.491	2.520 (0.459)	72	8137			0.00- 37.02	8.78
42 Ethanol					CAS #: 64-17-5		
2.806	2.763 (0.517)	46	16615	6.11500	6.506	80.00- 120.00	100.00
2.799	2.763 (0.516)	45	37570			225.08- 285.08	226.12
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.562)	55	30481	5.83000	6.059	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Acrolein (continued)							
3.050	3.050 (0.562)	56	39035			109.39- 169.39	128.06
47 Freon 113						CAS #: 76-13-1	
3.036	3.057 (0.559)	151	105571	5.00000	4.948	80.00- 120.00	100.00
3.036	3.057 (0.559)	153	66662			33.72- 93.72	63.14
3.028	3.057 (0.558)	101	136363			94.86- 154.86	129.17
49 1,1-Dichloroethene						CAS #: 75-35-4	
3.071	3.086 (0.566)	98	35037	5.00000	4.813	80.00- 120.00	100.00
3.071	3.086 (0.566)	96	53329			127.35- 187.35	152.21
3.071	3.086 (0.566)	61	124564			327.38- 387.38	355.52
52 Acetone						CAS #: 67-64-1	
3.250	3.236 (0.599)	58	44056	5.00000	5.213	80.00- 120.00	100.00
3.250	3.236 (0.599)	43	136274			290.16- 350.16	309.32
54 Carbon Disulfide						CAS #: 75-15-0	
3.308	3.322 (0.609)	76	165588	5.00000	4.994	80.00- 120.00	100.00
57 2-Propanol						CAS #: 67-63-0	
3.465	3.422 (0.638)	45	173213	5.83000	5.904	80.00- 120.00	100.00
3.465	3.422 (0.638)	43	33385			0.00- 48.07	19.27
3.472	3.422 (0.640)	59	6806			0.00- 33.65	3.93
58 3-Chloropropene						CAS #: 107-05-1	
3.566	3.573 (0.657)	76	26796	5.00000	5.052	80.00- 120.00	100.00
3.566	3.573 (0.657)	41	103022			369.70- 429.70	384.47
60 Acetonitrile						CAS #: 75-05-8	
3.680	3.673 (0.678)	40	43424	5.78000	5.478	80.00- 120.00	100.00
3.687	3.673 (0.679)	41	78776			161.56- 221.56	181.41
3.759	3.773 (0.693)	38	577			0.00- 31.07	1.33
64 Methylene Chloride						CAS #: 75-09-2	
3.759	3.766 (0.693)	49	107257	5.00000	5.061	80.00- 120.00	100.00
3.759	3.766 (0.693)	84	50211			18.48- 78.48	46.81
3.759	3.766 (0.693)	51	34866			0.91- 60.91	32.51
70 tert-Butyl alcohol						CAS #: 75-65-0	
3.938	3.902 (0.726)	59	193668	5.81500	5.761	80.00- 120.00	100.00
3.938	3.902 (0.726)	41	40925			0.00- 51.01	21.13
3.938	3.902 (0.726)	57	21065			0.00- 41.01	10.88
72 Methyl tert-butyl ether						CAS #: 1634-04-4	
3.995	3.995 (0.736)	73	167940	5.00000	4.953	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.995	3.995 (0.736)	57	56589			0.93- 60.93	33.70
3.995	3.995 (0.736)	41	61439			0.00- 59.87	36.58
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.017	4.024 (0.740)	98	35304	5.00000	4.582	80.00- 120.00	100.00
4.017	4.024 (0.740)	61	118347			282.80- 342.80	335.22
4.017	4.024 (0.740)	96	60990			122.91- 182.91	172.76
74 Acrylonitrile					CAS #: 107-13-1		
4.139	4.131 (0.762)	52	61303	5.00000	5.134	80.00- 120.00	100.00
4.139	4.131 (0.762)	53	72125			88.44- 148.44	117.65
78 Hexane					CAS #: 110-54-3		
4.232	4.246 (0.780)	57	125152	5.00000	4.911	80.00- 120.00	100.00
4.232	4.246 (0.780)	43	82250			34.01- 94.01	65.72
4.232	4.246 (0.780)	86	13209			0.00- 40.22	10.55
82 Isopropyl ether					CAS #: 108-20-3		
4.540	4.540 (0.836)	45	292813	5.00000	4.987	80.00- 120.00	100.00
4.540	4.540 (0.836)	87	49235			0.00- 47.08	16.81
4.540	4.540 (0.836)	59	29546			0.00- 40.83	10.09
83 1,1-Dichloroethane					CAS #: 75-34-3		
4.540	4.547 (0.836)	63	136542	5.00000	5.090	80.00- 120.00	100.00
4.540	4.547 (0.836)	65	39753			0.00- 59.58	29.11
84 Vinyl Acetate					CAS #: 108-05-4		
4.597	4.597 (0.847)	86	14324	5.81000	6.108	80.00- 120.00	100.00
4.597	4.597 (0.847)	43	246279			1663.30-1723.30	1719.35
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.927	4.927 (0.908)	59	253477	5.00000	5.017	80.00- 120.00	100.00
4.927	4.927 (0.908)	87	75391			0.00- 58.78	29.74
4.927	4.927 (0.908)	41	51594			0.00- 48.47	20.35
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.127	5.134 (0.945)	77	127112	5.00000	4.988	80.00- 120.00	100.00
5.127	5.134 (0.945)	79	40062			2.20- 62.20	31.52
5.127	5.134 (0.945)	97	25692			0.00- 50.29	20.21
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	38758	5.00000	4.864	80.00- 120.00	100.00(Q)
5.177	5.177 (0.954)	96	62654			123.49- 183.49	161.65
5.177	5.177 (0.954)	61	119695			310.35- 370.35	308.83

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
5.213	5.206 (0.960)	72	28807	5.00000	4.871	80.00- 120.00	100.00(Q)
5.227	5.206 (0.963)	43	384183			1272.59-1332.59	1333.64
5.213	5.206 (0.960)	57	15059			18.61- 78.61	52.28
93 Ethyl Acetate					CAS #: 141-78-6		
5.235	5.227 (0.964)	70	13599	5.00000	4.706	80.00- 120.00	100.00(Q)
5.177	5.177 (0.954)	61	119695			877.60- 937.60	880.18
5.235	5.227 (0.964)	45	32979			179.24- 239.24	242.51
99 Tetrahydrofuran					CAS #: 109-99-9		
5.428	5.414 (1.000)	42	99061	5.00000	4.911	80.00- 120.00	100.00
5.428	5.414 (1.000)	71	24704			0.00- 56.60	24.94
5.428	5.414 (1.000)	72	25406			0.00- 56.86	25.65
103 Chloroform					CAS #: 67-66-3		
5.500	5.507 (1.013)	83	142342	5.00000	4.873	80.00- 120.00	100.00
5.500	5.507 (1.013)	85	92084			34.90- 94.90	64.69
104 Cyclohexane					CAS #: 110-82-7		
5.593	5.600 (1.030)	84	74928	5.00000	5.000	80.00- 120.00	100.00
5.593	5.600 (1.030)	56	135428			152.85- 212.85	180.74
5.593	5.600 (1.030)	41	71281			65.81- 125.81	95.13
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.621	5.629 (1.036)	97	149087	5.00000	5.045	80.00- 120.00	100.00
5.621	5.629 (1.036)	99	98192			34.79- 94.79	65.86
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.743	5.750 (1.058)	119	155889	5.00000	4.783	80.00- 120.00	100.00
5.743	5.750 (1.058)	117	165067			73.63- 133.63	105.89
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.786	5.793 (0.903)	110	32855	5.00000	4.946	80.00- 120.00	100.00
5.786	5.793 (0.903)	75	91940			260.30- 320.30	279.84
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.958	5.972 (1.098)	57	382743	5.00000	4.855	80.00- 120.00	100.00
5.958	5.972 (1.098)	56	125281			2.18- 62.18	32.73
5.958	5.972 (1.098)	41	103115			0.00- 55.61	26.94
118 Benzene					CAS #: 71-43-2		
5.980	5.987 (0.933)	78	172051	5.00000	4.979	80.00- 120.00	100.00
5.980	5.987 (0.933)	77	41286			0.00- 53.99	24.00
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.073	6.073 (1.119)	87	42478	5.00000	5.084	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.073	6.073 (1.119)	73	170555			362.99- 422.99	401.51
6.073	6.073 (1.119)	55	70497			122.42- 182.42	165.96
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.087	6.094 (0.950)	62	116863	5.00000	5.006	80.00- 120.00	100.00
6.094	6.094 (0.951)	64	36850			1.65- 61.65	31.53
122 Heptane					CAS #: 142-82-5		
6.159	6.166 (0.961)	71	55105	5.00000	4.704	80.00- 120.00	100.00
6.159	6.166 (0.961)	43	148239			240.22- 300.22	269.01
6.159	6.166 (0.961)	57	78394			110.36- 170.36	142.26
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	81274	5.00000	4.614	80.00- 120.00	100.00
6.617	6.617 (1.032)	130	79692			67.98- 127.98	98.05
6.617	6.617 (1.032)	97	56257			34.45- 94.45	69.22
128 n-Butanol					CAS #: 71-36-3		
6.631	6.617 (1.035)	56	79128	5.00000	5.167	80.00- 120.00	100.00
6.631	6.617 (1.035)	41	59338			39.42- 99.42	74.99
6.631	6.617 (1.035)	43	48115			25.37- 85.37	60.81
131 Methylcyclohexane					CAS #: 108-87-2		
6.717	6.724 (1.238)	83	98715	5.00000	4.788	80.00- 120.00	100.00
6.717	6.724 (1.238)	98	44613			14.33- 74.33	45.19
6.717	6.724 (1.238)	55	130598			96.87- 156.87	132.30
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.073)	63	84631	5.00000	4.840	80.00- 120.00	100.00
6.875	6.875 (1.073)	62	58533			41.06- 101.06	69.16
6.875	6.875 (1.073)	41	50627			28.31- 88.31	59.82
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	65153	5.00000	5.074	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	118006			153.10- 213.10	181.12
6.961	6.961 (0.761)	100	23622			8.18- 68.18	36.26
140 1,4-Dioxane					CAS #: 123-91-1		
6.990	6.982 (1.091)	88	44928	5.00000	4.980	80.00- 120.00	100.00
6.990	6.982 (1.091)	58	45270			74.98- 134.98	100.76
6.990	6.982 (1.091)	57	17766			8.55- 68.55	39.54
141 Dibromomethane					CAS #: 74-95-3		
6.997	7.004 (0.765)	174	85222	5.00000	4.891	80.00- 120.00	100.00
6.997	6.997 (0.765)	93	83328			66.30- 126.30	97.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
141 Dibromomethane (continued)							
6.997	6.997 (0.765)	95	68150			49.87- 109.87	79.97
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.114)	83	150382	5.00000	4.844	80.00- 120.00	100.00
7.140	7.140 (1.114)	85	95938			34.86- 94.86	63.80
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.162)	63	167022	5.00000	4.947	80.00- 120.00	100.00(a)
7.448	7.448 (1.162)	65	46421			0.00- 58.67	27.79
7.448	7.448 (1.162)	144	14585			0.00- 39.14	8.73
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.563	7.563 (1.180)	75	115561	5.00000	4.831	80.00- 120.00	100.00
7.563	7.563 (1.180)	77	36418			1.88- 61.88	31.51
7.563	7.563 (1.180)	39	73911			33.29- 93.29	63.96
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.691	7.691 (1.200)	58	87248	5.00000	5.075	80.00- 120.00	100.00
7.691	7.691 (1.200)	43	240450			235.08- 295.08	275.59
7.699	7.691 (1.201)	85	26314			0.69- 60.69	30.16
153 Toluene					CAS #: 108-88-3		
7.813	7.820 (1.219)	91	212585	5.00000	4.665	80.00- 120.00	100.00
7.813	7.820 (1.219)	92	123695			27.69- 87.69	58.19
151 Octane					CAS #: 111-65-9		
7.842	7.849 (1.224)	57	86505	5.00000	4.568	80.00- 120.00	100.00
7.842	7.849 (1.224)	85	67151			46.75- 106.75	77.63
7.842	7.842 (1.224)	43	214614			221.22- 281.22	248.09
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.107	8.114 (0.886)	75	96190	5.00000	4.605	80.00- 120.00	100.00
8.107	8.114 (0.886)	77	33492			1.61- 61.61	34.82
8.107	8.114 (0.886)	39	60126			26.86- 86.86	62.51
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	76608	5.00000	4.854	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	45786			32.96- 92.96	59.77
8.279	8.279 (0.905)	83	68008			59.05- 119.05	88.77
159 Tetrachloroethene					CAS #: 127-18-4		
8.308	8.308 (0.908)	166	110328	5.00000	4.624	80.00- 120.00	100.00
8.308	8.308 (0.908)	129	82221			46.43- 106.43	74.52
8.308	8.308 (0.908)	131	83498			45.56- 105.56	75.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.317)	76	112722	5.00000	4.768	80.00- 120.00	100.00
8.444	8.444 (1.317)	41	102563			59.80- 119.80	90.99
8.444	8.444 (1.317)	78	36227			2.58- 62.58	32.14
162 2-Hexanone					CAS #: 591-78-6		
8.479	8.479 (0.927)	58	123575	5.00000	5.161	80.00- 120.00	100.00
8.479	8.479 (0.927)	43	251926			159.07- 219.07	203.86
8.487	8.479 (0.928)	100	16426			0.00- 43.98	13.29
163 Dibromochloromethane					CAS #: 124-48-1		
8.623	8.630 (0.943)	129	160767	5.00000	4.996	80.00- 120.00	100.00
8.623	8.630 (0.943)	127	122644			47.90- 107.90	76.29
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.737	8.744 (0.955)	107	136881	5.00000	4.918	80.00- 120.00	100.00
8.737	8.744 (0.955)	109	127825			64.00- 124.00	93.38
166 Chlorobenzene					CAS #: 108-90-7		
9.174	9.181 (1.003)	112	182264	5.00000	4.803	80.00- 120.00	100.00
9.174	9.181 (1.003)	114	58563			2.75- 62.75	32.13
9.174	9.181 (1.003)	77	119296			30.27- 90.27	65.45
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.011)	106	89204	5.00000	4.856	80.00- 120.00	100.00
9.246	9.246 (1.011)	91	282831			281.27- 341.27	317.06
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	111218	5.00000	5.048	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	79160			34.91- 94.91	71.18
9.267	9.267 (1.013)	95	43629			10.71- 70.71	39.23
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.017)	43	238179	5.00000	4.969	80.00- 120.00	100.00
9.303	9.303 (1.017)	57	195145			57.91- 117.91	81.93
9.303	9.303 (1.017)	85	49910			0.00- 52.91	20.95
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.361 (1.023)	106	113634	5.00000	4.997	80.00- 120.00	100.00
9.360	9.361 (1.023)	91	239045			176.41- 236.41	210.36
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.066)	106	105048	5.00000	4.981	80.00- 120.00	100.00
9.747	9.747 (1.066)	91	229473			186.60- 246.60	218.45
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.069)	104	180211	5.00000	4.948	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.776	9.776 (1.069)	78	99229			26.08- 86.08	55.06
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	161777	5.00000	4.795	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	85229			22.58- 82.58	52.68
185 Cumene					CAS #: 98-82-8		
10.084	10.091 (1.103)	105	333721	5.00000	4.835	80.00- 120.00	100.00
10.084	10.091 (1.103)	120	84745			0.00- 55.43	25.39
10.084	10.091 (1.103)	51	50878			0.00- 44.39	15.25
189 Cyclohexanone					CAS #: 108-94-1		
10.263	10.263 (1.122)	55	184696	5.00000	5.310	80.00- 120.00	100.00
10.263	10.263 (1.122)	98	51462			0.00- 57.69	27.86
10.263	10.256 (1.122)	42	117592			32.21- 92.21	63.67
192 Bromobenzene					CAS #: 108-86-1		
10.435	10.435 (1.141)	156	123303	5.00000	5.171	80.00- 120.00	100.00
10.435	10.435 (1.141)	158	112486			68.15- 128.15	91.23
10.428	10.428 (1.140)	77	179072			125.89- 185.89	145.23
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.145)	83	186268	5.00000	4.949	80.00- 120.00	100.00
10.471	10.471 (1.145)	85	120739			35.63- 95.63	64.82
196 Propylbenzene					CAS #: 103-65-1		
10.485	10.492 (1.146)	120	92381	5.00000	5.041	80.00- 120.00	100.00
10.485	10.492 (1.146)	91	403759			403.96- 463.96	437.06
10.485	10.492 (1.146)	105	16362			0.00- 46.94	17.71
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.150)	110	60878	5.00000	4.975	80.00- 120.00	100.00
10.521	10.521 (1.150)	75	147162			232.06- 292.06	241.73
10.521	10.521 (1.150)	61	53815			62.53- 122.53	88.40
199 Decane					CAS #: 124-18-5		
10.600	10.600 (1.159)	57	270005	5.00000	5.080	80.00- 120.00	100.00
10.600	10.600 (1.159)	71	69212			0.00- 56.58	25.63
10.600	10.600 (1.159)	142	8773			0.00- 33.23	3.25
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.159)	120	98199	5.00000	4.839	80.00- 120.00	100.00
10.600	10.600 (1.159)	105	354698			317.00- 377.00	361.20
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.160)	126	82611	5.00000	4.881	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.607	10.607 (1.160)	91	290574			317.25- 377.25	351.74
10.600	10.607 (1.159)	65	52079			32.33- 92.33	63.04
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.664	10.671 (1.166)	120	137157	5.00000	4.979	80.00- 120.00	100.00
10.664	10.671 (1.166)	105	305987			190.09- 250.09	223.09
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.901	10.901 (1.192)	118	145557	5.00000	5.085	80.00- 120.00	100.00
10.901	10.901 (1.192)	103	89752			32.49- 92.49	61.66
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.200)	119	286069	5.00000	5.103	80.00- 120.00	100.00
10.972	10.972 (1.200)	134	64608			0.00- 53.10	22.58
10.972	10.972 (1.200)	91	200486			40.97- 100.97	70.08
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.207)	120	130408	5.00000	5.216	80.00- 120.00	100.00
11.037	11.037 (1.207)	105	309080			204.98- 264.98	237.01
214 sec-Butylbenzene					CAS #: 135-98-8		
11.194	11.194 (1.224)	134	84363	5.00000	5.187	80.00- 120.00	100.00
11.187	11.194 (1.223)	105	431698			484.40- 544.40	511.71
11.187	11.187 (1.223)	91	73902			54.94- 114.94	87.60
216 p-Cymene					CAS #: 99-87-6		
11.330	11.337 (1.239)	119	366076	5.00000	5.036	80.00- 120.00	100.00
11.330	11.337 (1.239)	134	89856			0.00- 55.89	24.55
11.330	11.330 (1.239)	91	97862			0.00- 56.21	26.73
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.241)	146	202625	5.00000	5.019	80.00- 120.00	100.00
11.352	11.352 (1.241)	148	132485			33.67- 93.67	65.38
11.352	11.352 (1.241)	111	88097			13.82- 73.82	43.48
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.251)	146	208705	5.00000	5.075	80.00- 120.00	100.00
11.445	11.445 (1.251)	148	131365			34.50- 94.50	62.94
11.445	11.445 (1.251)	111	85524			12.20- 72.20	40.98
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.595	11.595 (1.268)	91	289431	5.00000	5.042	80.00- 120.00	100.00
11.595	11.595 (1.268)	126	57315			0.00- 50.42	19.80
220 Butylbenzene					CAS #: 104-51-8		
11.739	11.739 (1.284)	134	90930	5.00000	5.182	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
220 Butylbenzene (continued)							
11.739	11.739 (1.284)	91	348991			345.70- 405.70	383.80
11.739	11.739 (1.284)	92	181371			168.03- 228.03	199.46
221 Undecane					CAS #: 1120-21-4		
11.774	11.774 (1.287)	57	320486	5.00000	5.219	80.00- 120.00	100.00
11.774	11.774 (1.287)	43	282681			57.09- 117.09	88.20
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.817	11.817 (1.292)	146	198321	5.00000	4.984	80.00- 120.00	100.00
11.817	11.817 (1.292)	148	126066			33.89- 93.89	63.57
11.817	11.817 (1.292)	111	92034			15.34- 75.34	46.41
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.620	12.620 (1.380)	157	137269	5.00000	4.986	80.00- 120.00	100.00
12.620	12.620 (1.380)	75	132434			65.80- 125.80	96.48
12.620	12.620 (1.380)	155	105777			47.61- 107.61	77.06
227 Dodecane					CAS #: 112-40-3		
12.856	12.856 (1.406)	57	340902	5.00000	5.264	80.00- 120.00	100.00
12.856	12.856 (1.406)	43	286635			50.33- 110.33	84.08
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.400	13.400 (1.465)	180	214770	5.60500	5.904	80.00- 120.00	100.00
13.400	13.400 (1.465)	182	196331			65.96- 125.96	91.41
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.515	13.515 (1.478)	225	180563	5.63500	5.765	80.00- 120.00	100.00
13.515	13.515 (1.478)	223	114608			33.50- 93.50	63.47
232 Naphthalene					CAS #: 91-20-3		
13.651	13.651 (1.493)	128	53186	0.59000	0.6178	80.00- 120.00	100.00
13.651	13.651 (1.493)	127	7252			0.00- 42.81	13.64
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.902	13.902 (1.520)	180	212598	5.63500	6.056	80.00- 120.00	100.00
13.902	13.902 (1.520)	182	201841			64.83- 124.83	94.94
13.902	13.902 (1.520)	145	68463			3.99- 63.99	32.20

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a091007.d
Lab Smp Id: ICAL Level 5
Analysis Type: VOA
Quant Type: ISTD
Operator: TO
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 5.0ppbv(5.0ppbv)

Calibration Date: 10-SEP-2024
Calibration Time: 15:01
Client Smp ID: ICAL Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	272599	163559	381639	264813	-2.86
126 1,4-Difluorobenze	989537	593722	1385352	987004	-0.26
165 Chlorobenzene-d5	922551	553531	1291571	887941	-3.75

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	-0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.08

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/10SEP24.b/a091007.d

Date : 10-SEP-2024 13:54

Client ID: ICAL Level 5

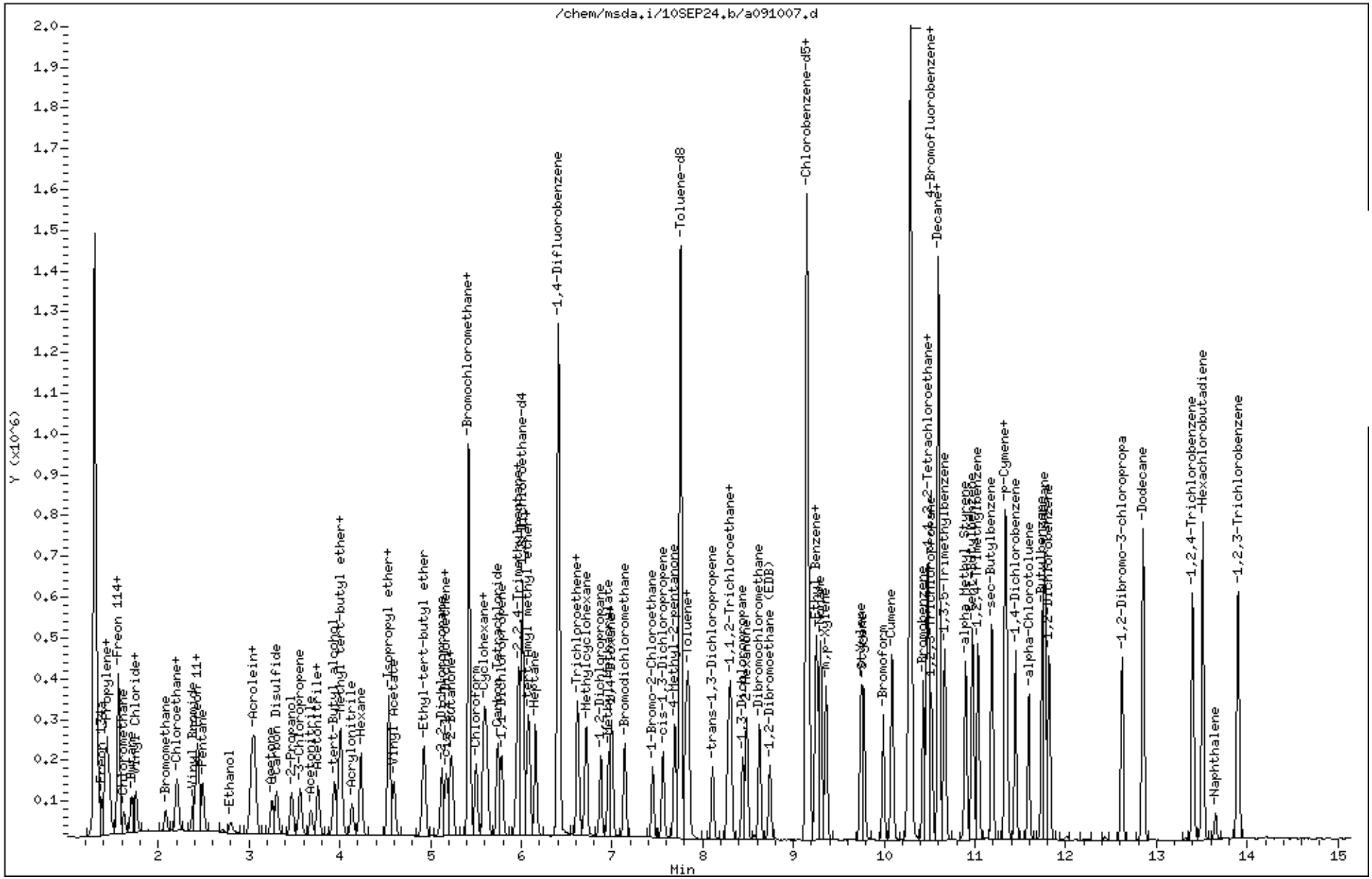
Sample Info: 200mL 3018-4809

Instrument: msda.i

Operator: TO

Column phase: RTX-624

Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/10SEP24.b/a091008.d
Lab Smp Id: ICAL Level 6 Client Smp ID: ICAL Level 6
Inj Date : 10-SEP-2024 14:27
Operator : TO Inst ID: msda.i
Smp Info : 20mL 3018-4808
Misc Info : 20ppbv(200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Meth Date : 10-Sep-2024 18:16 h6wn Quant Type: ISTD
Cal Date : 10-SEP-2024 14:27 Cal File: a091008.d
Als bottle: 13 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane						CAS #: 74-97-5	
5.428	5.428 (1.000)	130	265321	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	206408			46.45- 106.45	77.80
5.428	5.428 (1.000)	49	542375			167.12- 227.12	204.42
$ 119 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
6.015	6.015 (1.108)	65	467809	25.0000	25.072	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	233954			23.36- 83.36	50.01
* 126 1,4-Difluorobenzene						CAS #: 540-36-3	
6.409	6.409 (1.000)	114	984060	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	158121			0.00- 46.36	16.07
$ 152 Toluene-d8						CAS #: 2037-26-5	
7.756	7.756 (1.210)	98	1018999	25.0000	24.926	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	123128			0.00- 41.92	12.08
7.756	7.756 (1.210)	100	696359			39.07- 99.07	68.34
* 165 Chlorobenzene-d5						CAS #: 3114-55-4	
9.153	9.153 (1.000)	117	893246	25.0000		80.00- 120.00	100.00

					AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE					
* 165 Chlorobenzene-d5 (continued)								
9.153	9.153 (1.000)	82	506967				27.12- 87.12	56.76
$ 191 4-Bromofluorobenzene						CAS #: 460-00-4		
10.299	10.299 (1.125)	174	596918	25.0000	25.022		80.00- 120.00	100.00
10.292	10.299 (1.124)	95	728592				89.27- 149.27	122.06
10.299	10.299 (1.125)	176	581990				66.29- 126.29	97.50
6 Freon 134a						CAS #: 811-97-2		
1.381	1.388 (0.254)	83	248782	20.0000	20.993		80.00- 120.00	100.00
1.381	1.388 (0.254)	69	180340				41.53- 101.53	72.49
1.381	1.388 (0.254)	63	30003				0.00- 42.30	12.06
8 Propylene						CAS #: 115-07-1		
1.424	1.424 (0.262)	41	236701	20.0000	19.537		80.00- 120.00	100.00
1.424	1.424 (0.262)	42	157810				38.18- 98.18	66.67
1.424	1.424 (0.262)	39	165396				40.18- 100.18	69.88
9 1,1-Difluoroethane						CAS #: 75-37-6		
1.431	1.431 (0.264)	65	135022	20.0000	19.685		80.00- 120.00	100.00
1.474	1.474 (0.272)	51	528314				362.20- 422.20	391.28
1.431	1.438 (0.264)	47	97575				41.18- 101.18	72.27
10 Freon 12						CAS #: 75-71-8		
1.445	1.452 (0.266)	85	622332	20.0000	19.224		80.00- 120.00	100.00
1.445	1.452 (0.266)	87	202702				1.90- 61.90	32.57
12 Chlorodifluoromethane						CAS #: 75-45-6		
1.474	1.481 (0.272)	67	64993	20.0000	19.781		80.00- 120.00	100.00
1.474	1.474 (0.272)	51	528314				756.67- 816.67	812.88
15 Freon 114						CAS #: 76-14-2		
1.560	1.560 (0.287)	135	430219	20.0000	20.249		80.00- 120.00	100.00
1.560	1.560 (0.287)	137	133359				1.76- 61.76	31.00
16 Isobutane						CAS #: 75-28-5		
1.574	1.574 (0.290)	43	536280	20.0000	20.164		80.00- 120.00	100.00
1.574	1.574 (0.290)	42	179407				2.85- 62.85	33.45
1.574	1.574 (0.290)	58	18084				0.00- 33.52	3.37
17 Chloromethane						CAS #: 74-87-3		
1.632	1.632 (0.301)	50	252500	20.0000	21.267		80.00- 120.00	100.00
1.632	1.632 (0.301)	52	81821				2.14- 62.14	32.40
22 Butane						CAS #: 106-97-8		
1.710	1.703 (0.315)	58	50947	20.0000	19.948		80.00- 120.00	100.00(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
22 Butane (continued)							
1.703	1.703 (0.314)	43	425022			706.79- 766.79	834.24
24 Vinyl Chloride					CAS #: 75-01-4		
1.746	1.746 (0.322)	62	261536	20.0000	21.488	80.00- 120.00	100.00
1.739	1.746 (0.320)	64	80141			0.00- 59.56	30.64
25 1,3-Butadiene					CAS #: 106-99-0		
1.768	1.768 (0.326)	54	256486	20.0000	22.237	80.00- 120.00	100.00
1.768	1.768 (0.326)	39	239860			64.19- 124.19	93.52
29 Bromomethane					CAS #: 74-83-9		
2.104	2.104 (0.388)	94	183687	20.0000	21.407	80.00- 120.00	100.00
2.104	2.104 (0.388)	96	176258			63.72- 123.72	95.96
30 Chloroethane					CAS #: 75-00-3		
2.205	2.205 (0.406)	64	132411	20.0000	21.575	80.00- 120.00	100.00
2.205	2.205 (0.406)	66	36655			0.20- 60.20	27.68
2.205	2.205 (0.406)	49	46204			7.38- 67.38	34.89
31 Isopentane					CAS #: 78-78-4		
2.233	2.233 (0.411)	43	378429	20.0000	22.260	80.00- 120.00	100.00
2.233	2.233 (0.411)	57	252183			38.61- 98.61	66.64
32 Vinyl Bromide					CAS #: 593-60-2		
2.398	2.398 (0.442)	106	215063	20.0000	20.468	80.00- 120.00	100.00
2.398	2.398 (0.442)	108	200952			62.27- 122.27	93.44
33 Freon 11					CAS #: 75-69-4		
2.448	2.448 (0.451)	101	733395	20.0000	20.279	80.00- 120.00	100.00
2.448	2.448 (0.451)	103	471858			35.49- 95.49	64.34
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.448	2.455 (0.451)	67	539400	20.0000	20.575	80.00- 120.00	100.00
2.448	2.455 (0.451)	69	158735			0.95- 60.95	29.43
37 Pentane					CAS #: 109-66-0		
2.513	2.513 (0.463)	43	566758	20.0000	21.841	80.00- 120.00	100.00
2.513	2.513 (0.463)	57	88447			0.00- 45.38	15.61
2.520	2.520 (0.464)	72	36842			0.00- 37.02	6.50
42 Ethanol					CAS #: 64-17-5		
2.756	2.763 (0.508)	46	53201	24.4600	21.601	80.00- 120.00	100.00
2.756	2.763 (0.508)	45	139999			225.08- 285.08	263.15
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.562)	55	113779	23.3200	22.755	80.00- 120.00	100.00

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
46 Acrolein (continued)								
3.050	3.050 (0.562)	56	153927				109.39- 169.39	135.29
47 Freon 113						CAS #: 76-13-1		
3.057	3.057 (0.563)	151	439235	20.0000	20.435		80.00- 120.00	100.00
3.057	3.057 (0.563)	153	280615				33.72- 93.72	63.89
3.057	3.057 (0.563)	101	553948				94.86- 154.86	126.12
49 1,1-Dichloroethene						CAS #: 75-35-4		
3.086	3.086 (0.568)	98	133324	20.0000	18.599		80.00- 120.00	100.00
3.086	3.086 (0.568)	96	212517				127.35- 187.35	159.40
3.086	3.086 (0.568)	61	498124				327.38- 387.38	373.62
52 Acetone						CAS #: 67-64-1		
3.236	3.236 (0.596)	58	156659	20.0000	18.976		80.00- 120.00	100.00
3.236	3.236 (0.596)	43	514146				290.16- 350.16	328.19
54 Carbon Disulfide						CAS #: 75-15-0		
3.322	3.322 (0.612)	76	615587	20.0000	18.876		80.00- 120.00	100.00
57 2-Propanol						CAS #: 67-63-0		
3.422	3.422 (0.630)	45	641701	23.3200	22.186		80.00- 120.00	100.00
3.422	3.422 (0.630)	43	120281				0.00- 48.07	18.74
3.422	3.422 (0.630)	59	23611				0.00- 33.65	3.68
58 3-Chloropropene						CAS #: 107-05-1		
3.573	3.573 (0.658)	76	97604	20.0000	18.672		80.00- 120.00	100.00
3.573	3.573 (0.658)	41	413089				369.70- 429.70	423.23
60 Acetonitrile						CAS #: 75-05-8		
3.673	3.673 (0.677)	40	152332	23.1200	20.034		80.00- 120.00	100.00
3.673	3.673 (0.677)	41	298180				161.56- 221.56	195.74
3.759	3.773 (0.693)	38	1929				0.00- 31.07	1.27
64 Methylene Chloride						CAS #: 75-09-2		
3.766	3.766 (0.694)	49	425180	20.0000	20.015		80.00- 120.00	100.00
3.766	3.766 (0.694)	84	192465				18.48- 78.48	45.27
3.766	3.766 (0.694)	51	130618				0.91- 60.91	30.72
70 tert-Butyl alcohol						CAS #: 75-65-0		
3.902	3.902 (0.719)	59	748755	23.2600	22.479		80.00- 120.00	100.00
3.902	3.902 (0.719)	41	165729				0.00- 51.01	22.13
3.902	3.902 (0.719)	57	82163				0.00- 41.01	10.97
72 Methyl tert-butyl ether						CAS #: 1634-04-4		
3.995	3.995 (0.736)	73	703005	20.0000	20.517		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.995	3.995 (0.736)	57	222328			0.93- 60.93	31.63
3.995	3.995 (0.736)	41	216098			0.00- 59.87	30.74
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	148008	20.0000	19.334	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	459537			282.80- 342.80	310.48
4.024	4.024 (0.741)	96	226676			122.91- 182.91	153.15
74 Acrylonitrile					CAS #: 107-13-1		
4.132	4.131 (0.761)	52	238447	20.0000	19.946	80.00- 120.00	100.00
4.132	4.131 (0.761)	53	280662			88.44- 148.44	117.70
78 Hexane					CAS #: 110-54-3		
4.246	4.246 (0.782)	57	524058	20.0000	20.418	80.00- 120.00	100.00
4.246	4.246 (0.782)	43	336722			34.01- 94.01	64.25
4.246	4.246 (0.782)	86	53881			0.00- 40.22	10.28
82 Isopropyl ether					CAS #: 108-20-3		
4.540	4.540 (0.836)	45	1195216	20.0000	20.237	80.00- 120.00	100.00
4.540	4.540 (0.836)	87	199780			0.00- 47.08	16.71
4.540	4.540 (0.836)	59	125902			0.00- 40.83	10.53
83 1,1-Dichloroethane					CAS #: 75-34-3		
4.547	4.547 (0.838)	63	530837	20.0000	19.801	80.00- 120.00	100.00
4.547	4.547 (0.838)	65	156966			0.00- 59.58	29.57
84 Vinyl Acetate					CAS #: 108-05-4		
4.597	4.597 (0.847)	86	60744	23.2400	25.146	80.00- 120.00	100.00
4.590	4.597 (0.846)	43	1043654			1663.30-1723.30	1718.12
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.927	4.927 (0.908)	59	1054289	20.0000	20.613	80.00- 120.00	100.00
4.927	4.927 (0.908)	87	307009			0.00- 58.78	29.12
4.927	4.927 (0.908)	41	196270			0.00- 48.47	18.62
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.134	5.134 (0.946)	77	509132	20.0000	19.957	80.00- 120.00	100.00
5.134	5.134 (0.946)	79	162607			2.20- 62.20	31.94
5.134	5.134 (0.946)	97	103031			0.00- 50.29	20.24
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	157023	20.0000	19.734	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	242611			123.49- 183.49	154.51
5.177	5.177 (0.954)	61	545732			310.35- 370.35	347.55

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
5.206	5.206 (0.959)	72	114787	20.0000	19.525	80.00- 120.00	100.00(Q)
5.220	5.206 (0.962)	43	1539333			1272.59-1332.59	1341.03
5.206	5.206 (0.959)	57	57944			18.61- 78.61	50.48
93 Ethyl Acetate					CAS #: 141-78-6		
5.228	5.227 (0.963)	70	54906	20.0000	19.215	80.00- 120.00	100.00(Q)
5.177	5.177 (0.954)	61	545677			877.60- 937.60	993.84
5.228	5.227 (0.963)	45	126342			179.24- 239.24	230.11
99 Tetrahydrofuran					CAS #: 109-99-9		
5.421	5.414 (0.999)	42	385253	20.0000	19.244	80.00- 120.00	100.00
5.421	5.414 (0.999)	71	100953			0.00- 56.60	26.20
5.421	5.414 (0.999)	72	101384			0.00- 56.86	26.32
103 Chloroform					CAS #: 67-66-3		
5.507	5.507 (1.014)	83	559153	20.0000	19.278	80.00- 120.00	100.00
5.507	5.507 (1.014)	85	371934			34.90- 94.90	66.52
104 Cyclohexane					CAS #: 110-82-7		
5.600	5.600 (1.032)	84	307190	20.0000	20.368	80.00- 120.00	100.00
5.600	5.600 (1.032)	56	564948			152.85- 212.85	183.91
5.600	5.600 (1.032)	41	302991			65.81- 125.81	98.63
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.629	5.629 (1.037)	97	607800	20.0000	20.420	80.00- 120.00	100.00
5.629	5.629 (1.037)	99	386442			34.79- 94.79	63.58
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.750	5.750 (1.059)	119	656007	20.0000	20.073	80.00- 120.00	100.00
5.750	5.750 (1.059)	117	689309			73.63- 133.63	105.08
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.793	5.793 (0.904)	110	135379	20.0000	20.329	80.00- 120.00	100.00
5.786	5.793 (0.903)	75	387596			260.30- 320.30	286.30
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.972	5.972 (1.100)	57	1642146	20.0000	20.629	80.00- 120.00	100.00
5.972	5.972 (1.100)	56	529509			2.18- 62.18	32.24
5.972	5.972 (1.100)	41	424473			0.00- 55.61	25.85
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	692013	20.0000	20.070	80.00- 120.00	100.00
5.987	5.987 (0.934)	77	164795			0.00- 53.99	23.81
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.073	6.073 (1.119)	87	177738	20.0000	20.911	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.073	6.073 (1.119)	73	701262			362.99- 422.99	394.55
6.073	6.073 (1.119)	55	287054			122.42- 182.42	161.50
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.094	6.094 (0.951)	62	482082	20.0000	20.567	80.00- 120.00	100.00
6.094	6.094 (0.951)	64	147731			1.65- 61.65	30.64
122 Heptane					CAS #: 142-82-5		
6.166	6.166 (0.962)	71	252714	20.0000	21.287	80.00- 120.00	100.00
6.166	6.166 (0.962)	43	682190			240.22- 300.22	269.95
6.166	6.166 (0.962)	57	344518			110.36- 170.36	136.33
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	345298	20.0000	19.730	80.00- 120.00	100.00
6.624	6.617 (1.034)	130	343006			67.98- 127.98	99.34
6.617	6.617 (1.032)	97	219959			34.45- 94.45	63.70
128 n-Butanol					CAS #: 71-36-3		
6.617	6.617 (1.032)	56	298123	20.0000	19.642	80.00- 120.00	100.00
6.617	6.617 (1.032)	41	204366			39.42- 99.42	68.55
6.617	6.617 (1.032)	43	164096			25.37- 85.37	55.04
131 Methylcyclohexane					CAS #: 108-87-2		
6.725	6.724 (1.239)	83	414202	20.0000	20.043	80.00- 120.00	100.00
6.725	6.724 (1.239)	98	180742			14.33- 74.33	43.64
6.717	6.724 (1.238)	55	539975			96.87- 156.87	130.37
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.073)	63	357249	20.0000	20.392	80.00- 120.00	100.00
6.875	6.875 (1.073)	62	250788			41.06- 101.06	70.20
6.875	6.875 (1.073)	41	215921			28.31- 88.31	60.44
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	264263	20.0000	20.340	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	496436			153.10- 213.10	187.86
6.961	6.961 (0.761)	100	106249			8.18- 68.18	40.21
140 1,4-Dioxane					CAS #: 123-91-1		
6.982	6.982 (1.089)	88	180280	20.0000	20.033	80.00- 120.00	100.00
6.982	6.982 (1.089)	58	193625			74.98- 134.98	107.40
6.982	6.982 (1.089)	57	69198			8.55- 68.55	38.38
141 Dibromomethane					CAS #: 74-95-3		
7.004	7.004 (0.765)	174	338469	20.0000	19.443	80.00- 120.00	100.00
6.997	6.997 (0.764)	93	333461			66.30- 126.30	98.52

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
141 Dibromomethane (continued)							
6.997	6.997 (0.764)	95	272727			49.87- 109.87	80.58
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.114)	83	622413	20.0000	20.087	80.00- 120.00	100.00
7.140	7.140 (1.114)	85	395130			34.86- 94.86	63.48
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.162)	63	671000	20.0000	19.950	80.00- 120.00	100.00
7.448	7.448 (1.162)	65	197778			0.00- 58.67	29.48
7.448	7.448 (1.162)	144	57773			0.00- 39.14	8.61
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.563	7.563 (1.180)	75	493824	20.0000	20.562	80.00- 120.00	100.00
7.563	7.563 (1.180)	77	160335			1.88- 61.88	32.47
7.563	7.563 (1.180)	39	319488			33.29- 93.29	64.70
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.692	7.691 (1.200)	58	349871	20.0000	20.327	80.00- 120.00	100.00
7.692	7.691 (1.200)	43	946232			235.08- 295.08	270.45
7.692	7.691 (1.200)	85	104795			0.69- 60.69	29.95
153 Toluene					CAS #: 108-88-3		
7.821	7.820 (1.220)	91	918214	20.0000	20.166	80.00- 120.00	100.00
7.821	7.820 (1.220)	92	530124			27.69- 87.69	57.73
151 Octane					CAS #: 111-65-9		
7.842	7.849 (1.224)	57	391467	20.0000	20.584	80.00- 120.00	100.00
7.849	7.849 (1.225)	85	296486			46.75- 106.75	75.74
7.842	7.842 (1.224)	43	997308			221.22- 281.22	254.76
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.114	8.114 (0.887)	75	428428	20.0000	20.310	80.00- 120.00	100.00
8.114	8.114 (0.887)	77	138059			1.61- 61.61	32.22
8.114	8.114 (0.887)	39	246733			26.86- 86.86	57.59
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	316591	20.0000	19.952	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	198374			32.96- 92.96	62.66
8.279	8.279 (0.905)	83	281160			59.05- 119.05	88.81
159 Tetrachloroethene					CAS #: 127-18-4		
8.308	8.308 (0.908)	166	473948	20.0000	19.796	80.00- 120.00	100.00
8.308	8.308 (0.908)	129	362705			46.43- 106.43	76.53
8.308	8.308 (0.908)	131	360708			45.56- 105.56	76.11

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.317)	76	467278	20.0000	19.860	80.00- 120.00	100.00
8.444	8.444 (1.317)	41	433210			59.80- 119.80	92.71
8.444	8.444 (1.317)	78	152314			2.58- 62.58	32.60
162 2-Hexanone					CAS #: 591-78-6		
8.480	8.479 (0.926)	58	484365	20.0000	20.082	80.00- 120.00	100.00
8.480	8.479 (0.926)	43	947745			159.07- 219.07	195.67
8.480	8.479 (0.926)	100	65393			0.00- 43.98	13.50
163 Dibromochloromethane					CAS #: 124-48-1		
8.630	8.630 (0.943)	129	689572	20.0000	21.027	80.00- 120.00	100.00
8.630	8.630 (0.943)	127	525209			47.90- 107.90	76.16
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.745	8.744 (0.955)	107	573511	20.0000	20.384	80.00- 120.00	100.00
8.745	8.744 (0.955)	109	528047			64.00- 124.00	92.07
166 Chlorobenzene					CAS #: 108-90-7		
9.174	9.181 (1.002)	112	776924	20.0000	20.280	80.00- 120.00	100.00
9.174	9.181 (1.002)	114	243252			2.75- 62.75	31.31
9.174	9.181 (1.002)	77	473703			30.27- 90.27	60.97
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.010)	106	400404	20.0000	21.314	80.00- 120.00	100.00
9.246	9.246 (1.010)	91	1258239			281.27- 341.27	314.24
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	467001	20.0000	20.848	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	309377			34.91- 94.91	66.25
9.267	9.267 (1.013)	95	187562			10.71- 70.71	40.16
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.016)	43	1034874	20.0000	21.078	80.00- 120.00	100.00
9.303	9.303 (1.016)	57	889715			57.91- 117.91	85.97
9.303	9.303 (1.016)	85	235654			0.00- 52.91	22.77
173 m,p-Xylene					CAS #: 108-38-3		
9.361	9.361 (1.023)	106	500247	20.0000	21.466	80.00- 120.00	100.00
9.361	9.361 (1.023)	91	1041818			176.41- 236.41	208.26
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	475187	20.0000	21.875	80.00- 120.00	100.00
9.747	9.747 (1.065)	91	1033184			186.60- 246.60	217.43
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.068)	104	798571	20.0000	21.411	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.776	9.776 (1.068)	78	440137			26.08- 86.08	55.12
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	709747	20.0000	20.722	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	363342			22.58- 82.58	51.19
185 Cumene					CAS #: 98-82-8		
10.084	10.091 (1.102)	105	1491499	20.0000	21.168	80.00- 120.00	100.00
10.084	10.091 (1.102)	120	385409			0.00- 55.43	25.84
10.084	10.091 (1.102)	51	220464			0.00- 44.39	14.78
189 Cyclohexanone					CAS #: 108-94-1		
10.263	10.263 (1.121)	55	632675	20.0000	18.526	80.00- 120.00	100.00
10.263	10.263 (1.121)	98	176462			0.00- 57.69	27.89
10.256	10.256 (1.121)	42	402396			32.21- 92.21	63.60
192 Bromobenzene					CAS #: 108-86-1		
10.435	10.435 (1.140)	156	502037	20.0000	20.690	80.00- 120.00	100.00
10.435	10.435 (1.140)	158	475537			68.15- 128.15	94.72
10.428	10.428 (1.139)	77	765146			125.89- 185.89	152.41
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.144)	83	791387	20.0000	20.714	80.00- 120.00	100.00
10.471	10.471 (1.144)	85	509914			35.63- 95.63	64.43
196 Propylbenzene					CAS #: 103-65-1		
10.492	10.492 (1.146)	120	408663	20.0000	21.697	80.00- 120.00	100.00
10.485	10.492 (1.146)	91	1768533			403.96- 463.96	432.76
10.485	10.492 (1.146)	105	67256			0.00- 46.94	16.46
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.149)	110	244875	20.0000	19.915	80.00- 120.00	100.00
10.521	10.521 (1.149)	75	631871			232.06- 292.06	258.04
10.521	10.521 (1.149)	61	224123			62.53- 122.53	91.53
199 Decane					CAS #: 124-18-5		
10.600	10.600 (1.158)	57	1198245	20.0000	21.753	80.00- 120.00	100.00
10.600	10.600 (1.158)	71	305987			0.00- 56.58	25.54
10.600	10.600 (1.158)	142	38149			0.00- 33.23	3.18
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.158)	120	448387	20.0000	21.540	80.00- 120.00	100.00
10.600	10.600 (1.158)	105	1553481			317.00- 377.00	346.46
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.159)	126	361524	20.0000	20.975	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.607	10.607 (1.159)	91	1275197			317.25- 377.25	352.73
10.600	10.607 (1.158)	65	218642			32.33- 92.33	60.48
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.671	10.671 (1.166)	120	585628	20.0000	20.896	80.00- 120.00	100.00
10.664	10.671 (1.165)	105	1302686			190.09- 250.09	222.44
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.901	10.901 (1.191)	118	650471	20.0000	22.019	80.00- 120.00	100.00
10.901	10.901 (1.191)	103	398244			32.49- 92.49	61.22
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.199)	119	1206204	20.0000	21.024	80.00- 120.00	100.00
10.972	10.972 (1.199)	134	273276			0.00- 53.10	22.66
10.972	10.972 (1.199)	91	857412			40.97- 100.97	71.08
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.206)	120	565264	20.0000	21.932	80.00- 120.00	100.00
11.037	11.037 (1.206)	105	1331093			204.98- 264.98	235.48
214 sec-Butylbenzene					CAS #: 135-98-8		
11.194	11.194 (1.223)	134	360765	20.0000	21.606	80.00- 120.00	100.00
11.187	11.194 (1.222)	105	1870551			484.40- 544.40	518.50
11.187	11.187 (1.222)	91	302177			54.94- 114.94	83.76
216 p-Cymene					CAS #: 99-87-6		
11.330	11.337 (1.238)	119	1587798	20.0000	21.347	80.00- 120.00	100.00
11.330	11.337 (1.238)	134	416608			0.00- 55.89	26.24
11.330	11.330 (1.238)	91	411109			0.00- 56.21	25.89
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.240)	146	873439	20.0000	21.188	80.00- 120.00	100.00
11.352	11.352 (1.240)	148	547605			33.67- 93.67	62.70
11.352	11.352 (1.240)	111	382629			13.82- 73.82	43.81
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.250)	146	884345	20.0000	21.086	80.00- 120.00	100.00
11.445	11.445 (1.250)	148	557519			34.50- 94.50	63.04
11.445	11.445 (1.250)	111	372420			12.20- 72.20	42.11
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.595	11.595 (1.267)	91	1268989	20.0000	21.549	80.00- 120.00	100.00
11.595	11.595 (1.267)	126	255089			0.00- 50.42	20.10
220 Butylbenzene					CAS #: 104-51-8		
11.739	11.739 (1.283)	134	401941	20.0000	22.157	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
220 Butylbenzene (continued)							
11.739	11.739 (1.283)	91	1523991			345.70- 405.70	379.16
11.739	11.739 (1.283)	92	788043			168.03- 228.03	196.06
221 Undecane					CAS #: 1120-21-4		
11.775	11.774 (1.286)	57	1373750	20.0000	21.634	80.00- 120.00	100.00
11.775	11.774 (1.286)	43	1212161			57.09- 117.09	88.24
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.817	11.817 (1.291)	146	834810	20.0000	20.678	80.00- 120.00	100.00
11.817	11.817 (1.291)	148	536871			33.89- 93.89	64.31
11.817	11.817 (1.291)	111	377456			15.34- 75.34	45.21
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.620	12.620 (1.379)	157	551442	20.0000	19.934	80.00- 120.00	100.00
12.620	12.620 (1.379)	75	539327			65.80- 125.80	97.80
12.620	12.620 (1.379)	155	425181			47.61- 107.61	77.10
227 Dodecane					CAS #: 112-40-3		
12.856	12.856 (1.405)	57	1493548	20.0000	22.116	80.00- 120.00	100.00
12.856	12.856 (1.405)	43	1232203			50.33- 110.33	82.50
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.401	13.400 (1.464)	180	834070	22.4200	22.698	80.00- 120.00	100.00
13.401	13.400 (1.464)	182	790363			65.96- 125.96	94.76
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.515	13.515 (1.477)	225	732617	22.5400	23.070	80.00- 120.00	100.00
13.515	13.515 (1.477)	223	462259			33.50- 93.50	63.10
232 Naphthalene					CAS #: 91-20-3		
13.651	13.651 (1.491)	128	195598	2.36000	2.283	80.00- 120.00	100.00
13.651	13.651 (1.491)	127	25445			0.00- 42.81	13.01
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.902	13.902 (1.519)	180	793351	22.5400	22.483	80.00- 120.00	100.00
13.902	13.902 (1.519)	182	762288			64.83- 124.83	96.08
13.902	13.902 (1.519)	145	268857			3.99- 63.99	33.89

QC Flag Legend

Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a091008.d
Lab Smp Id: ICAL Level 6
Analysis Type: VOA
Quant Type: ISTD
Operator: TO
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 20ppbv(200ppbv)

Calibration Date: 10-SEP-2024
Calibration Time: 15:01
Client Smp ID: ICAL Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	272599	163559	381639	265321	-2.67
126 1,4-Difluorobenze	989537	593722	1385352	984060	-0.55
165 Chlorobenzene-d5	922551	553531	1291571	893246	-3.18

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

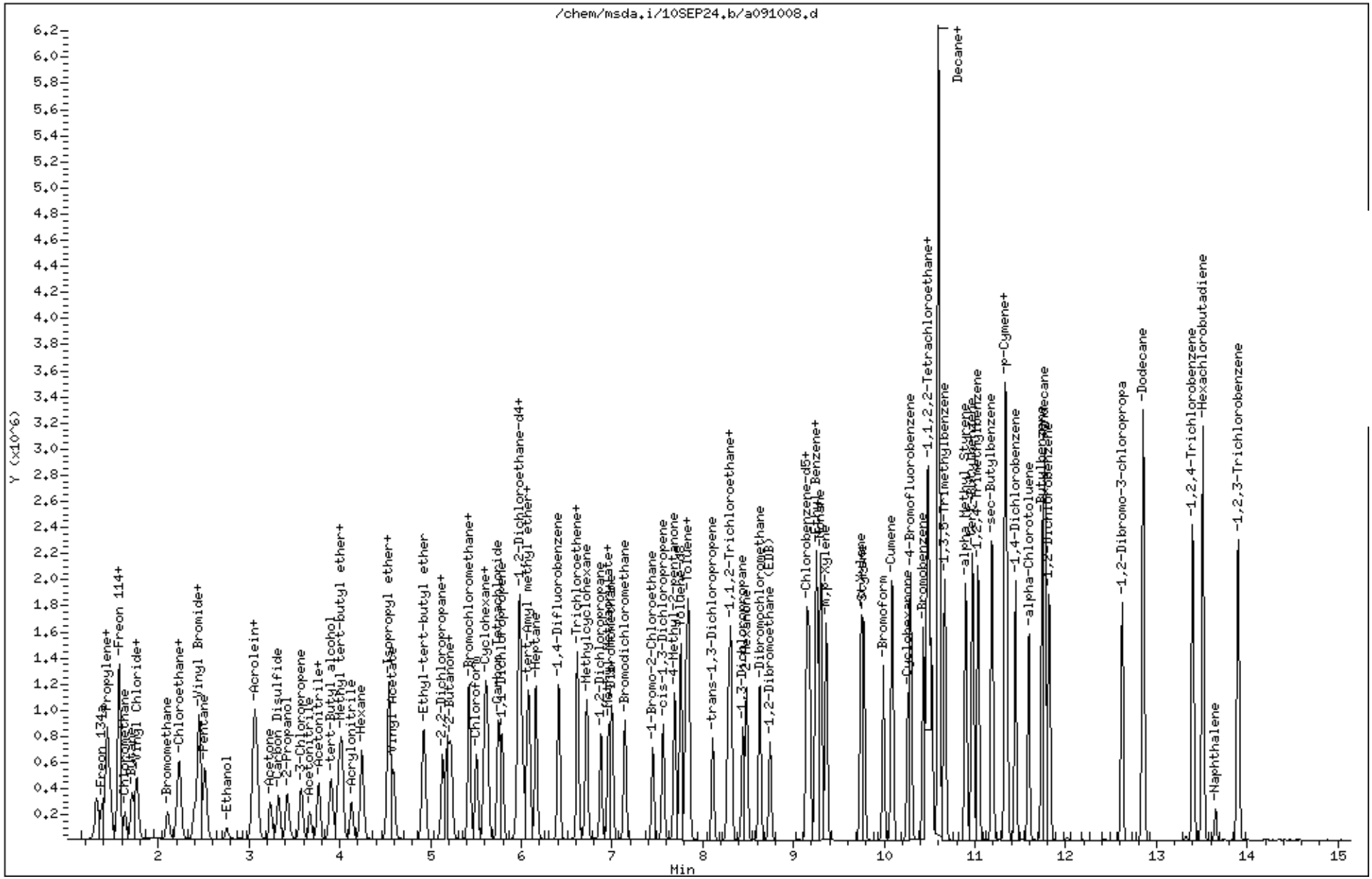
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/10SEP24.b/a091008.d
Date : 10-SEP-2024 14:27
Client ID: ICAL Level 6
Sample Info: 20mL 3018-4808

Instrument: msda.i

Operator: TO
Column diameter: 0.25

Column phase: RTX-624



US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/10SEP24.b/a091009.d
Lab Smp Id: ICAL Level 7
Inj Date : 10-SEP-2024 15:01
Operator : TO Inst ID: msda.i
Smp Info : 50mL 3018-4808
Misc Info : 50ppbv(200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Meth Date : 10-Sep-2024 18:14 h6wn Quant Type: ISTD
Cal Date : 10-SEP-2024 15:01 Cal File: a091009.d
Als bottle: 13 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	272599	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	208398			46.45- 106.45	76.45
5.428	5.428 (1.000)	49	537360			167.12- 227.12	197.12
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	475233	25.0000	25.000	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	253577			23.36- 83.36	53.36
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	989537	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	161926			0.00- 46.36	16.36
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.210)	98	1037190	25.0000	25.000	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	123684			0.00- 41.92	11.92
7.756	7.756 (1.210)	100	716397			39.07- 99.07	69.07
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.153 (1.000)	117	922551	25.0000		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 165 Chlorobenzene-d5 (continued)							
9.153	9.153 (1.000)	82	526975			27.12- 87.12	57.12
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.299	10.299 (1.125)	174	625517	25.0000	25.000	80.00- 120.00	100.00
10.292	10.292 (1.124)	95	746044			89.27- 149.27	119.27
10.299	10.299 (1.125)	176	602296			66.29- 126.29	96.29
6 Freon 134a					CAS #: 811-97-2		
1.388	1.388 (0.256)	83	638638	50.0000	50.000	80.00- 120.00	100.00
1.388	1.388 (0.256)	69	456799			41.53- 101.53	71.53
1.388	1.388 (0.256)	63	78536			0.00- 42.30	12.30
8 Propylene					CAS #: 115-07-1		
1.424	1.424 (0.262)	41	593697	50.0000	50.000	80.00- 120.00	100.00
1.424	1.424 (0.262)	42	404800			38.18- 98.18	68.18
1.424	1.424 (0.262)	39	416638			40.18- 100.18	70.18
9 1,1-Difluoroethane					CAS #: 75-37-6		
1.431	1.431 (0.264)	65	348588	50.0000	50.000	80.00- 120.00	100.00
1.474	1.474 (0.272)	51	1367170			362.20- 422.20	392.20
1.438	1.438 (0.265)	47	248129			41.18- 101.18	71.18
10 Freon 12					CAS #: 75-71-8		
1.452	1.452 (0.268)	85	1620853	50.0000	50.000	80.00- 120.00	100.00
1.452	1.452 (0.268)	87	517035			1.90- 61.90	31.90
12 Chlorodifluoromethane					CAS #: 75-45-6		
1.481	1.481 (0.273)	67	173793	50.0000	50.000	80.00- 120.00	100.00
1.474	1.474 (0.272)	51	1367170			756.67- 816.67	786.67
15 Freon 114					CAS #: 76-14-2		
1.560	1.560 (0.287)	135	1070753	50.0000	50.000	80.00- 120.00	100.00
1.560	1.560 (0.287)	137	340020			1.76- 61.76	31.76
16 Isobutane					CAS #: 75-28-5		
1.574	1.574 (0.290)	43	1345917	50.0000	50.000	80.00- 120.00	100.00
1.574	1.574 (0.290)	42	442142			2.85- 62.85	32.85
1.574	1.574 (0.290)	58	47403			0.00- 33.52	3.52
17 Chloromethane					CAS #: 74-87-3		
1.632	1.632 (0.301)	50	590049	50.0000	50.000	80.00- 120.00	100.00
1.639	1.639 (0.302)	52	189654			2.14- 62.14	32.14
22 Butane					CAS #: 106-97-8		
1.703	1.703 (0.314)	58	121298	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
22 Butane (continued)							
1.703	1.703 (0.314)	43	893711			706.79- 766.79	736.79
24 Vinyl Chloride					CAS #: 75-01-4		
1.746	1.746 (0.322)	62	664125	50.0000	50.000	80.00- 120.00	100.00
1.746	1.746 (0.322)	64	196321			0.00- 59.56	29.56
25 1,3-Butadiene					CAS #: 106-99-0		
1.768	1.768 (0.326)	54	658120	50.0000	50.000	80.00- 120.00	100.00
1.768	1.768 (0.326)	39	619912			64.19- 124.19	94.19
29 Bromomethane					CAS #: 74-83-9		
2.104	2.104 (0.388)	94	483125	50.0000	50.000	80.00- 120.00	100.00
2.104	2.104 (0.388)	96	452785			63.72- 123.72	93.72
30 Chloroethane					CAS #: 75-00-3		
2.205	2.205 (0.406)	64	329004	50.0000	50.000	80.00- 120.00	100.00
2.205	2.205 (0.406)	66	99366			0.20- 60.20	30.20
2.205	2.205 (0.406)	49	122973			7.38- 67.38	37.38
31 Isopentane					CAS #: 78-78-4		
2.233	2.233 (0.411)	43	912386	50.0000	50.000	80.00- 120.00	100.00
2.233	2.233 (0.411)	57	625986			38.61- 98.61	68.61
32 Vinyl Bromide					CAS #: 593-60-2		
2.398	2.398 (0.442)	106	578608	50.0000	50.000	80.00- 120.00	100.00
2.398	2.398 (0.442)	108	533902			62.27- 122.27	92.27
33 Freon 11					CAS #: 75-69-4		
2.448	2.448 (0.451)	101	1858987	50.0000	50.000	80.00- 120.00	100.00
2.448	2.448 (0.451)	103	1217376			35.49- 95.49	65.49
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.455	2.455 (0.452)	67	1390900	50.0000	50.000	80.00- 120.00	100.00
2.455	2.455 (0.452)	69	430534			0.95- 60.95	30.95
37 Pentane					CAS #: 109-66-0		
2.513	2.513 (0.463)	43	1439110	50.0000	50.000	80.00- 120.00	100.00
2.513	2.513 (0.463)	57	221303			0.00- 45.38	15.38
2.520	2.520 (0.464)	72	101049			0.00- 37.02	7.02
42 Ethanol					CAS #: 64-17-5		
2.763	2.763 (0.509)	46	143281	61.1500	61.150	80.00- 120.00	100.00
2.763	2.763 (0.509)	45	365488			225.08- 285.08	255.08
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.562)	55	294778	58.3000	58.300	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
46 Acrolein (continued)							
3.050	3.050 (0.562)	56	410888			109.39- 169.39	139.39
47 Freon 113						CAS #: 76-13-1	
3.057	3.057 (0.563)	151	1090097	50.0000	50.000	80.00- 120.00	100.00
3.057	3.057 (0.563)	153	694664			33.72- 93.72	63.72
3.057	3.057 (0.563)	101	1361129			94.86- 154.86	124.86
49 1,1-Dichloroethene						CAS #: 75-35-4	
3.086	3.086 (0.568)	98	363625	50.0000	50.000	80.00- 120.00	100.00
3.086	3.086 (0.568)	96	572177			127.35- 187.35	157.35
3.086	3.086 (0.568)	61	1299505			327.38- 387.38	357.38
52 Acetone						CAS #: 67-64-1	
3.236	3.236 (0.596)	58	416433	50.0000	50.000	80.00- 120.00	100.00
3.236	3.236 (0.596)	43	1333255			290.16- 350.16	320.16
54 Carbon Disulfide						CAS #: 75-15-0	
3.322	3.322 (0.612)	76	1648777	50.0000	50.000	80.00- 120.00	100.00
57 2-Propanol						CAS #: 67-63-0	
3.422	3.422 (0.630)	45	1706796	58.3000	58.300	80.00- 120.00	100.00
3.422	3.422 (0.630)	43	308409			0.00- 48.07	18.07
3.422	3.422 (0.630)	59	62340			0.00- 33.65	3.65
58 3-Chloropropene						CAS #: 107-05-1	
3.573	3.573 (0.658)	76	269280	50.0000	50.000	80.00- 120.00	100.00
3.573	3.573 (0.658)	41	1076304			369.70- 429.70	399.70
60 Acetonitrile						CAS #: 75-05-8	
3.673	3.673 (0.677)	40	400138	57.8000	57.800	80.00- 120.00	100.00
3.673	3.673 (0.677)	41	766494			161.56- 221.56	191.56
3.773	3.773 (0.695)	38	4276			0.00- 31.07	1.07
64 Methylene Chloride						CAS #: 75-09-2	
3.766	3.766 (0.694)	49	1077573	50.0000	50.000	80.00- 120.00	100.00
3.766	3.766 (0.694)	84	522389			18.48- 78.48	48.48
3.766	3.766 (0.694)	51	333123			0.91- 60.91	30.91
70 tert-Butyl alcohol						CAS #: 75-65-0	
3.902	3.902 (0.719)	59	1907921	58.1500	58.150	80.00- 120.00	100.00
3.902	3.902 (0.719)	41	400813			0.00- 51.01	21.01
3.902	3.902 (0.719)	57	210044			0.00- 41.01	11.01
72 Methyl tert-butyl ether						CAS #: 1634-04-4	
3.995	3.995 (0.736)	73	1759399	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.995	3.995 (0.736)	57	544195			0.93- 60.93	30.93
3.995	3.995 (0.736)	41	525456			0.00- 59.87	29.87
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	384187	50.0000	50.000	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	1201755			282.80- 342.80	312.80
4.024	4.024 (0.741)	96	587477			122.91- 182.91	152.91
74 Acrylonitrile					CAS #: 107-13-1		
4.131	4.131 (0.761)	52	618740	50.0000	50.000	80.00- 120.00	100.00
4.131	4.131 (0.761)	53	732820			88.44- 148.44	118.44
78 Hexane					CAS #: 110-54-3		
4.246	4.246 (0.782)	57	1323736	50.0000	50.000	80.00- 120.00	100.00
4.246	4.246 (0.782)	43	847307			34.01- 94.01	64.01
4.246	4.246 (0.782)	86	135310			0.00- 40.22	10.22
82 Isopropyl ether					CAS #: 108-20-3		
4.540	4.540 (0.836)	45	2945932	50.0000	50.000	80.00- 120.00	100.00
4.540	4.540 (0.836)	87	503233			0.00- 47.08	17.08
4.540	4.540 (0.836)	59	319053			0.00- 40.83	10.83
83 1,1-Dichloroethane					CAS #: 75-34-3		
4.547	4.547 (0.838)	63	1361293	50.0000	50.000	80.00- 120.00	100.00
4.547	4.547 (0.838)	65	402649			0.00- 59.58	29.58
84 Vinyl Acetate					CAS #: 108-05-4		
4.597	4.597 (0.847)	86	159740	58.1000	58.100	80.00- 120.00	100.00
4.597	4.597 (0.847)	43	2704878			1663.30-1723.30	1693.30
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.927	4.927 (0.908)	59	2688132	50.0000	50.000	80.00- 120.00	100.00
4.927	4.927 (0.908)	87	773665			0.00- 58.78	28.78
4.927	4.927 (0.908)	41	496617			0.00- 48.47	18.47
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.134	5.134 (0.946)	77	1287299	50.0000	50.000	80.00- 120.00	100.00
5.134	5.134 (0.946)	79	414531			2.20- 62.20	32.20
5.134	5.134 (0.946)	97	261217			0.00- 50.29	20.29
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	414256	50.0000	50.000	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	635827			123.49- 183.49	153.49
5.177	5.177 (0.954)	61	1409908			310.35- 370.35	340.35

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
5.206	5.206 (0.959)	72	301455	50.0000	50.000	80.00- 120.00	100.00
5.220	5.220 (0.962)	43	3926734			1272.59-1332.59	1302.59
5.206	5.206 (0.959)	57	146529			18.61- 78.61	48.61
93 Ethyl Acetate					CAS #: 141-78-6		
5.227	5.227 (0.963)	70	155424	50.0000	50.000	80.00- 120.00	100.00
5.177	5.177 (0.954)	61	1410634			877.60- 937.60	907.60
5.227	5.227 (0.963)	45	325205			179.24- 239.24	209.24
99 Tetrahydrofuran					CAS #: 109-99-9		
5.414	5.414 (0.997)	42	994186	50.0000	50.000	80.00- 120.00	100.00
5.414	5.414 (0.997)	71	264476			0.00- 56.60	26.60
5.421	5.421 (0.999)	72	267013			0.00- 56.86	26.86
103 Chloroform					CAS #: 67-66-3		
5.507	5.507 (1.015)	83	1465853	50.0000	50.000	80.00- 120.00	100.00
5.507	5.507 (1.015)	85	951359			34.90- 94.90	64.90
104 Cyclohexane					CAS #: 110-82-7		
5.600	5.600 (1.032)	84	763500	50.0000	50.000	80.00- 120.00	100.00
5.600	5.600 (1.032)	56	1396074			152.85- 212.85	182.85
5.600	5.600 (1.032)	41	731477			65.81- 125.81	95.81
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.629	5.629 (1.037)	97	1501966	50.0000	50.000	80.00- 120.00	100.00
5.629	5.629 (1.037)	99	973070			34.79- 94.79	64.79
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.750	5.750 (1.059)	119	1643456	50.0000	50.000	80.00- 120.00	100.00
5.750	5.750 (1.059)	117	1703042			73.63- 133.63	103.63
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.793	5.793 (0.904)	110	345805	50.0000	50.000	80.00- 120.00	100.00
5.793	5.793 (0.904)	75	1003871			260.30- 320.30	290.30
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.972	5.972 (1.100)	57	4135831	50.0000	50.000	80.00- 120.00	100.00
5.972	5.972 (1.100)	56	1330959			2.18- 62.18	32.18
5.972	5.972 (1.100)	41	1059218			0.00- 55.61	25.61
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	1736868	50.0000	50.000	80.00- 120.00	100.00
5.987	5.987 (0.934)	77	416739			0.00- 53.99	23.99
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.073	6.073 (1.119)	87	456745	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.073	6.073 (1.119)	73	1794973			362.99- 422.99	392.99
6.073	6.073 (1.119)	55	696160			122.42- 182.42	152.42
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.094	6.094 (0.951)	62	1214032	50.0000	50.000	80.00- 120.00	100.00
6.094	6.094 (0.951)	64	384254			1.65- 61.65	31.65
122 Heptane					CAS #: 142-82-5		
6.166	6.166 (0.962)	71	616464	50.0000	50.000	80.00- 120.00	100.00
6.166	6.166 (0.962)	43	1665790			240.22- 300.22	270.22
6.166	6.166 (0.962)	57	865273			110.36- 170.36	140.36
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	892378	50.0000	50.000	80.00- 120.00	100.00
6.624	6.624 (1.034)	130	874381			67.98- 127.98	97.98
6.617	6.617 (1.032)	97	575176			34.45- 94.45	64.45
128 n-Butanol					CAS #: 71-36-3		
6.617	6.617 (1.032)	56	763373	50.0000	50.000	80.00- 120.00	100.00
6.617	6.617 (1.032)	41	529913			39.42- 99.42	69.42
6.617	6.617 (1.032)	43	422673			25.37- 85.37	55.37
131 Methylcyclohexane					CAS #: 108-87-2		
6.724	6.724 (1.239)	83	1049314	50.0000	50.000	80.00- 120.00	100.00
6.724	6.724 (1.239)	98	465200			14.33- 74.33	44.33
6.724	6.724 (1.239)	55	1331229			96.87- 156.87	126.87
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.073)	63	886871	50.0000	50.000	80.00- 120.00	100.00
6.875	6.875 (1.073)	62	630218			41.06- 101.06	71.06
6.875	6.875 (1.073)	41	517147			28.31- 88.31	58.31
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	686575	50.0000	50.000	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	1257108			153.10- 213.10	183.10
6.961	6.961 (0.761)	100	262129			8.18- 68.18	38.18
140 1,4-Dioxane					CAS #: 123-91-1		
6.982	6.982 (1.089)	88	458257	50.0000	50.000	80.00- 120.00	100.00
6.982	6.982 (1.089)	58	481081			74.98- 134.98	104.98
6.982	6.982 (1.089)	57	176657			8.55- 68.55	38.55
141 Dibromomethane					CAS #: 74-95-3		
7.004	7.004 (0.765)	174	882611	50.0000	50.000	80.00- 120.00	100.00
6.997	6.997 (0.764)	93	849992			66.30- 126.30	96.30

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
141 Dibromomethane (continued)							
6.997	6.997 (0.764)	95	704954			49.87- 109.87	79.87
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.114)	83	1584945	50.0000	50.000	80.00- 120.00	100.00
7.140	7.140 (1.114)	85	1028044			34.86- 94.86	64.86
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.162)	63	1697011	50.0000	50.000	80.00- 120.00	100.00
7.448	7.448 (1.162)	65	486613			0.00- 58.67	28.67
7.448	7.448 (1.162)	144	155179			0.00- 39.14	9.14
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.563	7.563 (1.180)	75	1290947	50.0000	50.000	80.00- 120.00	100.00
7.563	7.563 (1.180)	77	411597			1.88- 61.88	31.88
7.563	7.563 (1.180)	39	817018			33.29- 93.29	63.29
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.691	7.691 (1.200)	58	872689	50.0000	50.000	80.00- 120.00	100.00
7.691	7.691 (1.200)	43	2313326			235.08- 295.08	265.08
7.691	7.691 (1.200)	85	267834			0.69- 60.69	30.69
153 Toluene					CAS #: 108-88-3		
7.820	7.820 (1.220)	91	2283320	50.0000	50.000	80.00- 120.00	100.00
7.820	7.820 (1.220)	92	1317188			27.69- 87.69	57.69
151 Octane					CAS #: 111-65-9		
7.849	7.849 (1.225)	57	965406	50.0000	50.000	80.00- 120.00	100.00
7.849	7.849 (1.225)	85	740980			46.75- 106.75	76.75
7.842	7.842 (1.224)	43	2425329			221.22- 281.22	251.22
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.114	8.114 (0.887)	75	1124758	50.0000	50.000	80.00- 120.00	100.00
8.114	8.114 (0.887)	77	355507			1.61- 61.61	31.61
8.114	8.114 (0.887)	39	639552			26.86- 86.86	56.86
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	797413	50.0000	50.000	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	502062			32.96- 92.96	62.96
8.279	8.279 (0.905)	83	710087			59.05- 119.05	89.05
159 Tetrachloroethene					CAS #: 127-18-4		
8.308	8.308 (0.908)	166	1197190	50.0000	50.000	80.00- 120.00	100.00
8.308	8.308 (0.908)	129	915026			46.43- 106.43	76.43
8.308	8.308 (0.908)	131	904631			45.56- 105.56	75.56

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.317)	76	1184372	50.0000	50.000	80.00- 120.00	100.00
8.444	8.444 (1.317)	41	1063567			59.80- 119.80	89.80
8.444	8.444 (1.317)	78	385812			2.58- 62.58	32.58
162 2-Hexanone					CAS #: 591-78-6		
8.479	8.479 (0.926)	58	1235008	50.0000	50.000	80.00- 120.00	100.00
8.479	8.479 (0.926)	43	2335088			159.07- 219.07	189.07
8.479	8.479 (0.926)	100	172656			0.00- 43.98	13.98
163 Dibromochloromethane					CAS #: 124-48-1		
8.630	8.630 (0.943)	129	1742311	50.0000	50.000	80.00- 120.00	100.00
8.630	8.630 (0.943)	127	1357206			47.90- 107.90	77.90
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.744	8.744 (0.955)	107	1464750	50.0000	50.000	80.00- 120.00	100.00
8.744	8.744 (0.955)	109	1376803			64.00- 124.00	94.00
166 Chlorobenzene					CAS #: 108-90-7		
9.181	9.181 (1.003)	112	1926438	50.0000	50.000	80.00- 120.00	100.00
9.181	9.181 (1.003)	114	630866			2.75- 62.75	32.75
9.174	9.174 (1.002)	77	1161081			30.27- 90.27	60.27
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.010)	106	998927	50.0000	50.000	80.00- 120.00	100.00
9.246	9.246 (1.010)	91	3109364			281.27- 341.27	311.27
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	1167449	50.0000	50.000	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	757759			34.91- 94.91	64.91
9.267	9.267 (1.013)	95	475314			10.71- 70.71	40.71
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.016)	43	2514119	50.0000	50.000	80.00- 120.00	100.00
9.303	9.303 (1.016)	57	2210264			57.91- 117.91	87.91
9.303	9.303 (1.016)	85	576094			0.00- 52.91	22.91
173 m,p-Xylene					CAS #: 108-38-3		
9.361	9.361 (1.023)	106	1244195	50.0000	50.000	80.00- 120.00	100.00
9.361	9.361 (1.023)	91	2568115			176.41- 236.41	206.41
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	1187357	50.0000	50.000	80.00- 120.00	100.00
9.747	9.747 (1.065)	91	2571792			186.60- 246.60	216.60
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.068)	104	1997198	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.776	9.776 (1.068)	78	1120098			26.08- 86.08	56.08
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	1796457	50.0000	50.000	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	944628			22.58- 82.58	52.58
185 Cumene					CAS #: 98-82-8		
10.091	10.091 (1.103)	105	3779417	50.0000	50.000	80.00- 120.00	100.00
10.091	10.091 (1.103)	120	961268			0.00- 55.43	25.43
10.084	10.084 (1.102)	51	543806			0.00- 44.39	14.39
189 Cyclohexanone					CAS #: 108-94-1		
10.263	10.263 (1.121)	55	1592970	50.0000	50.000	80.00- 120.00	100.00
10.263	10.263 (1.121)	98	441084			0.00- 57.69	27.69
10.256	10.256 (1.121)	42	991017			32.21- 92.21	62.21
192 Bromobenzene					CAS #: 108-86-1		
10.435	10.435 (1.140)	156	1236059	50.0000	50.000	80.00- 120.00	100.00
10.435	10.435 (1.140)	158	1213150			68.15- 128.15	98.15
10.428	10.428 (1.139)	77	1926946			125.89- 185.89	155.89
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.144)	83	1918058	50.0000	50.000	80.00- 120.00	100.00
10.471	10.471 (1.144)	85	1258793			35.63- 95.63	65.63
196 Propylbenzene					CAS #: 103-65-1		
10.492	10.492 (1.146)	120	1001398	50.0000	50.000	80.00- 120.00	100.00
10.485	10.485 (1.146)	91	4345620			403.96- 463.96	433.96
10.492	10.492 (1.146)	105	169636			0.00- 46.94	16.94
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.149)	110	601531	50.0000	50.000	80.00- 120.00	100.00
10.521	10.521 (1.149)	75	1576356			232.06- 292.06	262.06
10.521	10.521 (1.149)	61	556607			62.53- 122.53	92.53
199 Decane					CAS #: 124-18-5		
10.600	10.600 (1.158)	57	2842177	50.0000	50.000	80.00- 120.00	100.00
10.600	10.600 (1.158)	71	755546			0.00- 56.58	26.58
10.600	10.600 (1.158)	142	91852			0.00- 33.23	3.23
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.158)	120	1084964	50.0000	50.000	80.00- 120.00	100.00
10.600	10.600 (1.158)	105	3764779			317.00- 377.00	347.00
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.159)	126	877351	50.0000	50.000	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
201 2-Chlorotoluene (continued)							
10.607	10.607 (1.159)	91	3046579			317.25- 377.25	347.25
10.607	10.607 (1.159)	65	546847			32.33- 92.33	62.33
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.671	10.671 (1.166)	120	1476283	50.0000	50.000	80.00- 120.00	100.00
10.671	10.671 (1.166)	105	3249178			190.09- 250.09	220.09
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.901	10.901 (1.191)	118	1613325	50.0000	50.000	80.00- 120.00	100.00
10.901	10.901 (1.191)	103	1008231			32.49- 92.49	62.49
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.199)	119	2984472	50.0000	50.000	80.00- 120.00	100.00
10.972	10.972 (1.199)	134	689272			0.00- 53.10	23.10
10.972	10.972 (1.199)	91	2117958			40.97- 100.97	70.97
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.206)	120	1390397	50.0000	50.000	80.00- 120.00	100.00
11.037	11.037 (1.206)	105	3267178			204.98- 264.98	234.98
214 sec-Butylbenzene					CAS #: 135-98-8		
11.194	11.194 (1.223)	134	895607	50.0000	50.000	80.00- 120.00	100.00
11.194	11.194 (1.223)	105	4607030			484.40- 544.40	514.40
11.187	11.187 (1.222)	91	760737			54.94- 114.94	84.94
216 p-Cymene					CAS #: 99-87-6		
11.337	11.337 (1.239)	119	3891109	50.0000	50.000	80.00- 120.00	100.00
11.337	11.337 (1.239)	134	1007486			0.00- 55.89	25.89
11.330	11.330 (1.238)	91	1019747			0.00- 56.21	26.21
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.240)	146	2113442	50.0000	50.000	80.00- 120.00	100.00
11.352	11.352 (1.240)	148	1345734			33.67- 93.67	63.67
11.352	11.352 (1.240)	111	926097			13.82- 73.82	43.82
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.250)	146	2166727	50.0000	50.000	80.00- 120.00	100.00
11.445	11.445 (1.250)	148	1397438			34.50- 94.50	64.50
11.445	11.445 (1.250)	111	914393			12.20- 72.20	42.20
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.595	11.595 (1.267)	91	3222251	50.0000	50.000	80.00- 120.00	100.00
11.595	11.595 (1.267)	126	657903			0.00- 50.42	20.42
220 Butylbenzene					CAS #: 104-51-8		
11.739	11.739 (1.283)	134	989763	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
220 Butylbenzene (continued)							
11.739	11.739 (1.283)	91	3718521			345.70- 405.70	375.70
11.739	11.739 (1.283)	92	1960012			168.03- 228.03	198.03
221 Undecane					CAS #: 1120-21-4		
11.774	11.774 (1.286)	57	3300405	50.0000	50.000	80.00- 120.00	100.00
11.774	11.774 (1.286)	43	2874240			57.09- 117.09	87.09
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.817	11.817 (1.291)	146	2059046	50.0000	50.000	80.00- 120.00	100.00
11.817	11.817 (1.291)	148	1315534			33.89- 93.89	63.89
11.817	11.817 (1.291)	111	933668			15.34- 75.34	45.34
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.620	12.620 (1.379)	157	1419136	50.0000	50.000	80.00- 120.00	100.00
12.620	12.620 (1.379)	75	1359596			65.80- 125.80	95.80
12.620	12.620 (1.379)	155	1101454			47.61- 107.61	77.61
227 Dodecane					CAS #: 112-40-3		
12.856	12.856 (1.405)	57	3786708	50.0000	50.000	80.00- 120.00	100.00
12.856	12.856 (1.405)	43	3042015			50.33- 110.33	80.33
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.400	13.400 (1.464)	180	2141945	56.0500	56.050	80.00- 120.00	100.00
13.400	13.400 (1.464)	182	2055354			65.96- 125.96	95.96
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.515	13.515 (1.477)	225	1864468	56.3500	56.350	80.00- 120.00	100.00
13.515	13.515 (1.477)	223	1183911			33.50- 93.50	63.50
232 Naphthalene					CAS #: 91-20-3		
13.651	13.651 (1.491)	128	531096	5.90000	5.900	80.00- 120.00	100.00
13.651	13.651 (1.491)	127	68047			0.00- 42.81	12.81
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.902	13.902 (1.519)	180	2101312	56.3500	56.350	80.00- 120.00	100.00
13.902	13.902 (1.519)	182	1992703			64.83- 124.83	94.83
13.902	13.902 (1.519)	145	714326			3.99- 63.99	33.99

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a091009.d
Lab Smp Id: ICAL Level 7
Analysis Type: VOA
Quant Type: ISTD
Operator: TO
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 50ppbv(200ppbv)

Calibration Date: 10-SEP-2024
Calibration Time: 15:01
Level: LOW
Sample Type: AIR

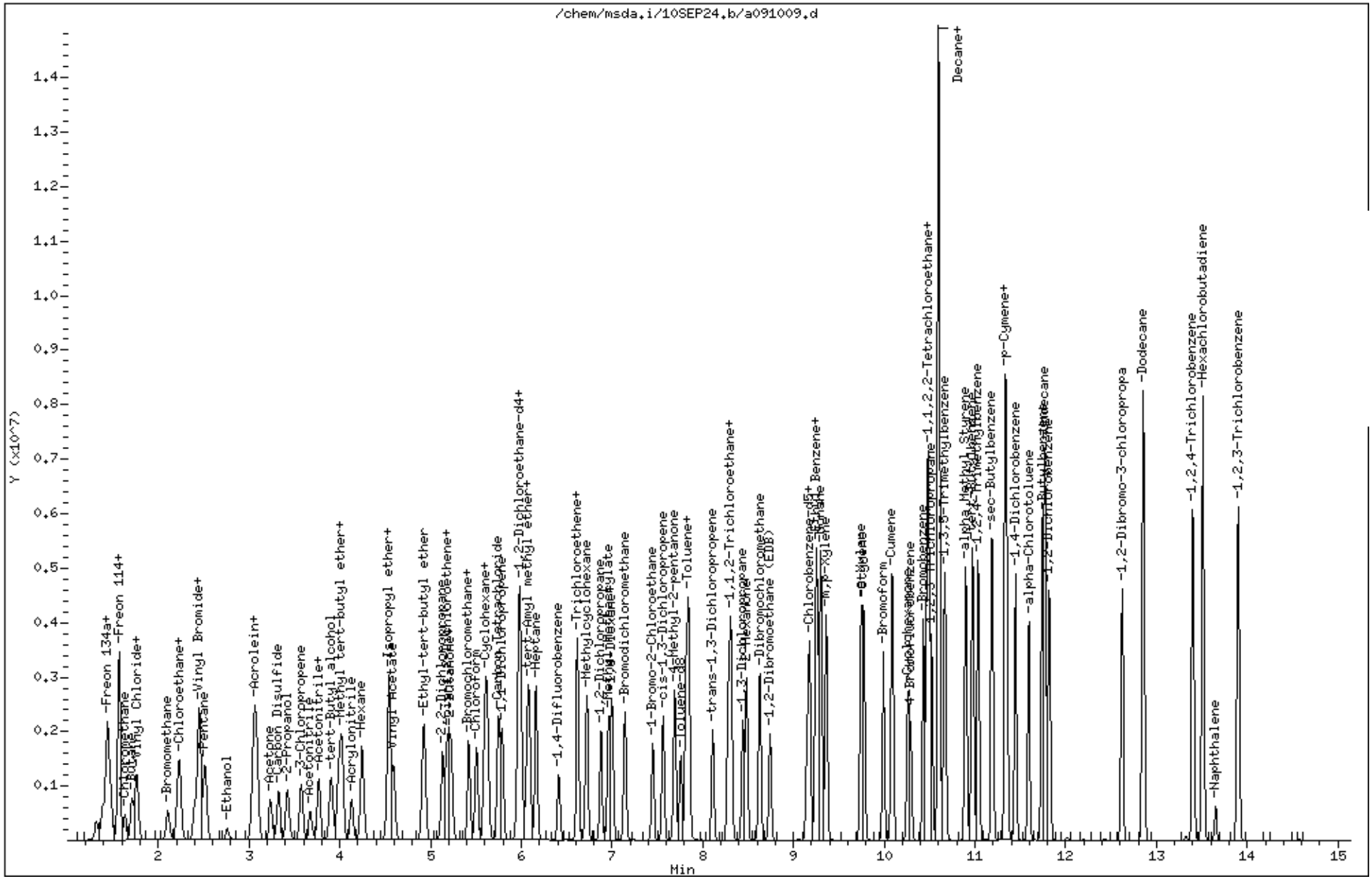
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	272599	163559	381639	272599	0.00
126 1,4-Difluorobenze	989537	593722	1385352	989537	0.00
165 Chlorobenzene-d5	922551	553531	1291571	922551	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/10SEP24.b/a091009.d
Date : 10-SEP-2024 15:01
Client ID:
Sample Info: 50mL 3018-4808

Instrument: msda.i
Operator: TO
Column phase: RTX-624
Column diameter: 0.25



US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/10SEP24.b/a091010.d
Lab Smp Id: ICAL Level 8
Inj Date : 10-SEP-2024 15:36
Operator : TO Inst ID: msda.i
Smp Info : 100mL 3018-4808
Misc Info : 100ppbv(200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Meth Date : 10-Sep-2024 18:16 h6wn Quant Type: ISTD
Cal Date : 10-SEP-2024 15:36 Cal File: a091010.d
Als bottle: 13 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	281597	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	215382			46.45- 106.45	76.49
5.428	5.428 (1.000)	49	552122			167.12- 227.12	196.07
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.022	6.015 (1.110)	65	500355	25.0000	25.222	80.00- 120.00	100.00
6.022	6.015 (1.110)	67	247854			23.36- 83.36	49.54
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.416	6.409 (1.000)	114	1043733	25.0000		80.00- 120.00	100.00
6.416	6.409 (1.000)	88	168642			0.00- 46.36	16.16
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	1112519	25.0000	25.546	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	124301			0.00- 41.92	11.17
7.756	7.756 (1.209)	100	773141			39.07- 99.07	69.49
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.153 (1.000)	117	987271	25.0000		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 165 Chlorobenzene-d5 (continued)							
9.153	9.153 (1.000)	82	567645			27.12- 87.12	57.50
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.299	10.299 (1.125)	174	655222	25.0000	24.875	80.00- 120.00	100.00
10.292	10.299 (1.124)	95	777095			89.27- 149.27	118.60
10.299	10.299 (1.125)	176	626676			66.29- 126.29	95.64
6 Freon 134a					CAS #: 811-97-2		
1.388	1.388 (0.256)	83	1260662	100.000	100.18	80.00- 120.00	100.00
1.388	1.388 (0.256)	69	888794			41.53- 101.53	70.50
1.388	1.388 (0.256)	63	154257			0.00- 42.30	12.24
8 Propylene					CAS #: 115-07-1		
1.424	1.424 (0.262)	41	1153177	100.000	91.572	80.00- 120.00	100.00
1.424	1.424 (0.262)	42	776426			38.18- 98.18	67.33
1.424	1.424 (0.262)	39	807877			40.18- 100.18	70.06
9 1,1-Difluoroethane					CAS #: 75-37-6		
1.438	1.431 (0.265)	65	685353	100.000	95.261	80.00- 120.00	100.00
1.481	1.474 (0.273)	51	2749427			362.20- 422.20	401.17
1.438	1.438 (0.265)	47	482388			41.18- 101.18	70.39
10 Freon 12					CAS #: 75-71-8		
1.452	1.452 (0.268)	85	3201095	100.000	94.242	80.00- 120.00	100.00
1.452	1.452 (0.268)	87	1036506			1.90- 61.90	32.38
12 Chlorodifluoromethane					CAS #: 75-45-6		
1.481	1.481 (0.273)	67	335250	100.000	96.885	80.00- 120.00	100.00(Q)
1.481	1.474 (0.273)	51	2749427			756.67- 816.67	820.11
15 Freon 114					CAS #: 76-14-2		
1.560	1.560 (0.287)	135	2204208	100.000	98.118	80.00- 120.00	100.00
1.560	1.560 (0.287)	137	692131			1.76- 61.76	31.40
16 Isobutane					CAS #: 75-28-5		
1.574	1.574 (0.290)	43	2659709	100.000	95.324	80.00- 120.00	100.00
1.574	1.574 (0.290)	42	868793			2.85- 62.85	32.66
1.574	1.574 (0.290)	58	94497			0.00- 33.52	3.55
17 Chloromethane					CAS #: 74-87-3		
1.639	1.632 (0.302)	50	1075701	100.000	88.607	80.00- 120.00	100.00
1.639	1.632 (0.302)	52	360904			2.14- 62.14	33.55
22 Butane					CAS #: 106-97-8		
1.710	1.703 (0.315)	58	215755	100.000	82.981	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
22 Butane (continued)							
1.703	1.703 (0.314)	43	1535978			706.79- 766.79	711.91
24 Vinyl Chloride					CAS #: 75-01-4		
1.739	1.746 (0.320)	62	1014493	100.000	81.450	80.00- 120.00	100.00
1.739	1.746 (0.320)	64	310554			0.00- 59.56	30.61
25 1,3-Butadiene					CAS #: 106-99-0		
1.760	1.768 (0.324)	54	931335	100.000	79.237	80.00- 120.00	100.00
1.760	1.768 (0.324)	39	838846			64.19- 124.19	90.07
29 Bromomethane					CAS #: 74-83-9		
2.104	2.104 (0.388)	94	971211	100.000	104.90	80.00- 120.00	100.00
2.104	2.104 (0.388)	96	911904			63.72- 123.72	93.89
30 Chloroethane					CAS #: 75-00-3		
2.205	2.205 (0.406)	64	664839	100.000	101.65	80.00- 120.00	100.00
2.205	2.205 (0.406)	66	192727			0.20- 60.20	28.99
2.205	2.205 (0.406)	49	240030			7.38- 67.38	36.10
31 Isopentane					CAS #: 78-78-4		
2.233	2.233 (0.411)	43	1808683	100.000	100.19	80.00- 120.00	100.00
2.233	2.233 (0.411)	57	1228545			38.61- 98.61	67.92
32 Vinyl Bromide					CAS #: 593-60-2		
2.398	2.398 (0.442)	106	1177552	100.000	104.42	80.00- 120.00	100.00
2.398	2.398 (0.442)	108	1083620			62.27- 122.27	92.02
33 Freon 11					CAS #: 75-69-4		
2.441	2.448 (0.450)	101	3744386	100.000	97.950	80.00- 120.00	100.00
2.441	2.448 (0.450)	103	2446984			35.49- 95.49	65.35
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.455	2.455 (0.452)	67	2772813	100.000	99.724	80.00- 120.00	100.00
2.455	2.455 (0.452)	69	868417			0.95- 60.95	31.32
37 Pentane					CAS #: 109-66-0		
2.513	2.513 (0.463)	43	2841202	100.000	102.52	80.00- 120.00	100.00
2.513	2.513 (0.463)	57	446685			0.00- 45.38	15.72
2.513	2.520 (0.463)	72	208588			0.00- 37.02	7.34
42 Ethanol					CAS #: 64-17-5		
2.770	2.763 (0.510)	46	280057	122.300	109.86	80.00- 120.00	100.00
2.770	2.763 (0.510)	45	734828			225.08- 285.08	262.39
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.562)	55	603953	116.600	114.35	80.00- 120.00	100.00

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
46 Acrolein (continued)								
3.050	3.050 (0.562)	56	820620				109.39- 169.39	135.87
47 Freon 113							CAS #: 76-13-1	
3.057	3.057 (0.563)	151	2164003	100.000		95.679	80.00- 120.00	100.00
3.057	3.057 (0.563)	153	1396726				33.72- 93.72	64.54
3.057	3.057 (0.563)	101	2679637				94.86- 154.86	123.83
49 1,1-Dichloroethene							CAS #: 75-35-4	
3.086	3.086 (0.568)	98	738391	100.000		97.531	80.00- 120.00	100.00
3.086	3.086 (0.568)	96	1163618				127.35- 187.35	157.59
3.086	3.086 (0.568)	61	2622107				327.38- 387.38	355.11
52 Acetone							CAS #: 67-64-1	
3.236	3.236 (0.596)	58	829744	100.000		95.968	80.00- 120.00	100.00
3.236	3.236 (0.596)	43	2667602				290.16- 350.16	321.50
54 Carbon Disulfide							CAS #: 75-15-0	
3.322	3.322 (0.612)	76	3360279	100.000		97.651	80.00- 120.00	100.00
57 2-Propanol							CAS #: 67-63-0	
3.429	3.422 (0.632)	45	3480442	116.600		114.01	80.00- 120.00	100.00
3.429	3.422 (0.632)	43	626284				0.00- 48.07	17.99
3.429	3.422 (0.632)	59	130966				0.00- 33.65	3.76
58 3-Chloropropene							CAS #: 107-05-1	
3.580	3.573 (0.660)	76	553109	100.000		99.749	80.00- 120.00	100.00
3.573	3.573 (0.658)	41	2153519				369.70- 429.70	389.35
60 Acetonitrile							CAS #: 75-05-8	
3.680	3.673 (0.678)	40	762499	115.600		98.068	80.00- 120.00	100.00
3.680	3.673 (0.678)	41	1467216				161.56- 221.56	192.42
3.766	3.773 (0.694)	38	10111				0.00- 31.07	1.33
64 Methylene Chloride							CAS #: 75-09-2	
3.766	3.766 (0.694)	49	2109767	100.000		95.104	80.00- 120.00	100.00
3.766	3.766 (0.694)	84	1051928				18.48- 78.48	49.86
3.766	3.766 (0.694)	51	655033				0.91- 60.91	31.05
70 tert-Butyl alcohol							CAS #: 75-65-0	
3.909	3.902 (0.720)	59	3867382	116.300		110.71	80.00- 120.00	100.00
3.909	3.902 (0.720)	41	801051				0.00- 51.01	20.71
3.909	3.902 (0.720)	57	426496				0.00- 41.01	11.03
72 Methyl tert-butyl ether							CAS #: 1634-04-4	
3.995	3.995 (0.736)	73	3582964	100.000		98.816	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.995	3.995 (0.736)	57	1117788			0.93- 60.93	31.20
3.995	3.995 (0.736)	41	1025694			0.00- 59.87	28.63
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	783671	100.000	97.025	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	2439623			282.80- 342.80	311.31
4.024	4.024 (0.741)	96	1225464			122.91- 182.91	156.37
74 Acrylonitrile					CAS #: 107-13-1		
4.131	4.131 (0.761)	52	1241533	100.000	98.202	80.00- 120.00	100.00
4.131	4.131 (0.761)	53	1464462			88.44- 148.44	117.96
78 Hexane					CAS #: 110-54-3		
4.246	4.246 (0.782)	57	2653094	100.000	97.818	80.00- 120.00	100.00
4.246	4.246 (0.782)	43	1682692			34.01- 94.01	63.42
4.246	4.246 (0.782)	86	287334			0.00- 40.22	10.83
82 Isopropyl ether					CAS #: 108-20-3		
4.540	4.540 (0.836)	45	5754591	100.000	93.332	80.00- 120.00	100.00
4.540	4.540 (0.836)	87	1044615			0.00- 47.08	18.15
4.540	4.540 (0.836)	59	629166			0.00- 40.83	10.93
83 1,1-Dichloroethane					CAS #: 75-34-3		
4.547	4.547 (0.838)	63	2747179	100.000	97.110	80.00- 120.00	100.00
4.547	4.547 (0.838)	65	821560			0.00- 59.58	29.91
84 Vinyl Acetate					CAS #: 108-05-4		
4.597	4.597 (0.847)	86	328905	116.200	125.67	80.00- 120.00	100.00(Q)
4.597	4.597 (0.847)	43	5372592			1663.30-1723.30	1633.48
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.927	4.927 (0.908)	59	5293731	100.000	98.006	80.00- 120.00	100.00
4.927	4.927 (0.908)	87	1578195			0.00- 58.78	29.81
4.927	4.927 (0.908)	41	948009			0.00- 48.47	17.91
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.134	5.134 (0.946)	77	2588840	100.000	96.458	80.00- 120.00	100.00
5.134	5.134 (0.946)	79	831735			2.20- 62.20	32.13
5.134	5.134 (0.946)	97	519711			0.00- 50.29	20.08
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	830990	100.000	98.663	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	1301338			123.49- 183.49	156.60
5.177	5.177 (0.954)	61	2845872			310.35- 370.35	342.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
5.206	5.206 (0.959)	72	627595	100.000	100.47	80.00- 120.00	100.00(Q)
5.220	5.206 (0.962)	43	7814985			1272.59-1332.59	1245.23
5.206	5.206 (0.959)	57	300387			18.61- 78.61	47.86
93 Ethyl Acetate					CAS #: 141-78-6		
5.227	5.227 (0.963)	70	323677	100.000	105.31	80.00- 120.00	100.00
5.177	5.177 (0.954)	61	2845872			877.60- 937.60	879.23
5.227	5.227 (0.963)	45	648519			179.24- 239.24	200.36
99 Tetrahydrofuran					CAS #: 109-99-9		
5.414	5.414 (0.997)	42	1991167	100.000	94.705	80.00- 120.00	100.00
5.421	5.414 (0.999)	71	539771			0.00- 56.60	27.11
5.414	5.414 (0.997)	72	552832			0.00- 56.86	27.76
103 Chloroform					CAS #: 67-66-3		
5.507	5.507 (1.015)	83	2983985	100.000	97.430	80.00- 120.00	100.00
5.507	5.507 (1.015)	85	1954932			34.90- 94.90	65.51
104 Cyclohexane					CAS #: 110-82-7		
5.600	5.600 (1.032)	84	1539622	100.000	96.799	80.00- 120.00	100.00
5.600	5.600 (1.032)	56	2771531			152.85- 212.85	180.01
5.600	5.600 (1.032)	41	1433976			65.81- 125.81	93.14
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.629	5.629 (1.037)	97	3044801	100.000	96.966	80.00- 120.00	100.00
5.629	5.629 (1.037)	99	1958892			34.79- 94.79	64.34
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.750	5.750 (1.059)	119	3295712	100.000	95.811	80.00- 120.00	100.00
5.750	5.750 (1.059)	117	3428726			73.63- 133.63	104.04
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.793	5.793 (0.903)	110	715746	100.000	101.06	80.00- 120.00	100.00
5.793	5.793 (0.903)	75	2053006			260.30- 320.30	286.83
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.972	5.972 (1.100)	57	8267510	100.000	98.206	80.00- 120.00	100.00
5.972	5.972 (1.100)	56	2681450			2.18- 62.18	32.43
5.972	5.972 (1.100)	41	2084421			0.00- 55.61	25.21
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.933)	78	3593438	100.000	98.544	80.00- 120.00	100.00
5.987	5.987 (0.933)	77	851572			0.00- 53.99	23.70
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.073	6.073 (1.119)	87	935533	100.000	102.94	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.073	6.073 (1.119)	73	3661061			362.99- 422.99	391.33
6.073	6.073 (1.119)	55	1370963			122.42- 182.42	146.54
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.094	6.094 (0.950)	62	2458065	100.000	99.058	80.00- 120.00	100.00
6.094	6.094 (0.950)	64	777953			1.65- 61.65	31.65
122 Heptane					CAS #: 142-82-5		
6.166	6.166 (0.961)	71	1291880	100.000	102.16	80.00- 120.00	100.00
6.166	6.166 (0.961)	43	3313965			240.22- 300.22	256.52
6.166	6.166 (0.961)	57	1758706			110.36- 170.36	136.14
129 Trichloroethene					CAS #: 79-01-6		
6.624	6.617 (1.032)	95	1840839	100.000	99.308	80.00- 120.00	100.00
6.624	6.617 (1.032)	130	1793499			67.98- 127.98	97.43
6.624	6.617 (1.032)	97	1210870			34.45- 94.45	65.78
128 n-Butanol					CAS #: 71-36-3		
6.617	6.617 (1.031)	56	1606609	100.000	99.839	80.00- 120.00	100.00
6.617	6.617 (1.031)	41	1083242			39.42- 99.42	67.42
6.617	6.617 (1.031)	43	879955			25.37- 85.37	54.77
131 Methylcyclohexane					CAS #: 108-87-2		
6.724	6.724 (1.239)	83	2137938	100.000	97.887	80.00- 120.00	100.00
6.724	6.724 (1.239)	98	968211			14.33- 74.33	45.29
6.724	6.724 (1.239)	55	2656562			96.87- 156.87	124.26
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.071)	63	1831395	100.000	98.799	80.00- 120.00	100.00
6.875	6.875 (1.071)	62	1303209			41.06- 101.06	71.16
6.875	6.875 (1.071)	41	1047566			28.31- 88.31	57.20
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	1462362	100.000	101.46	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	2570341			153.10- 213.10	175.77
6.961	6.961 (0.761)	100	554216			8.18- 68.18	37.90
140 1,4-Dioxane					CAS #: 123-91-1		
6.982	6.982 (1.088)	88	939097	100.000	98.704	80.00- 120.00	100.00
6.982	6.982 (1.088)	58	978839			74.98- 134.98	104.23
6.982	6.982 (1.088)	57	353566			8.55- 68.55	37.65
141 Dibromomethane					CAS #: 74-95-3		
7.004	7.004 (0.765)	174	1765750	100.000	93.049	80.00- 120.00	100.00
6.997	6.997 (0.764)	93	1737879			66.30- 126.30	98.42

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
141 Dibromomethane (continued)							
6.997	6.997 (0.764)	95	1446897			49.87- 109.87	81.94
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.113)	83	3266874	100.000	99.504	80.00- 120.00	100.00
7.140	7.140 (1.113)	85	2115329			34.86- 94.86	64.75
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.161)	63	3488435	100.000	98.220	80.00- 120.00	100.00
7.448	7.448 (1.161)	65	1018054			0.00- 58.67	29.18
7.448	7.448 (1.161)	144	320494			0.00- 39.14	9.19
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.563	7.563 (1.179)	75	2672155	100.000	104.05	80.00- 120.00	100.00
7.563	7.563 (1.179)	77	835025			1.88- 61.88	31.25
7.563	7.563 (1.179)	39	1654386			33.29- 93.29	61.91
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.691	7.691 (1.199)	58	1788510	100.000	98.302	80.00- 120.00	100.00
7.691	7.691 (1.199)	43	4617764			235.08- 295.08	258.19
7.691	7.691 (1.199)	85	572010			0.69- 60.69	31.98
153 Toluene					CAS #: 108-88-3		
7.820	7.820 (1.219)	91	4686152	100.000	97.518	80.00- 120.00	100.00
7.820	7.820 (1.219)	92	2734331			27.69- 87.69	58.35
151 Octane					CAS #: 111-65-9		
7.849	7.849 (1.223)	57	1908507	100.000	95.472	80.00- 120.00	100.00
7.849	7.849 (1.223)	85	1509009			46.75- 106.75	79.07
7.849	7.842 (1.223)	43	4694655			221.22- 281.22	245.99
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.114	8.114 (0.887)	75	2375037	100.000	101.55	80.00- 120.00	100.00
8.114	8.114 (0.887)	77	759139			1.61- 61.61	31.96
8.114	8.114 (0.887)	39	1309345			26.86- 86.86	55.13
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	1668444	100.000	95.913	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	1047820			32.96- 92.96	62.80
8.279	8.279 (0.905)	83	1492368			59.05- 119.05	89.45
159 Tetrachloroethene					CAS #: 127-18-4		
8.308	8.308 (0.908)	166	2451291	100.000	93.785	80.00- 120.00	100.00
8.308	8.308 (0.908)	129	1922483			46.43- 106.43	78.43
8.308	8.308 (0.908)	131	1875959			45.56- 105.56	76.53

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.316)	76	2485063	100.000	99.648	80.00- 120.00	100.00
8.444	8.444 (1.316)	41	2175640			59.80- 119.80	87.55
8.444	8.444 (1.316)	78	803848			2.58- 62.58	32.35
162 2-Hexanone					CAS #: 591-78-6		
8.479	8.479 (0.926)	58	2550326	100.000	96.504	80.00- 120.00	100.00
8.479	8.479 (0.926)	43	4692384			159.07- 219.07	183.99
8.479	8.479 (0.926)	100	358329			0.00- 43.98	14.05
163 Dibromochloromethane					CAS #: 124-48-1		
8.630	8.630 (0.943)	129	3614676	100.000	99.772	80.00- 120.00	100.00
8.630	8.630 (0.943)	127	2815114			47.90- 107.90	77.88
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.744	8.744 (0.955)	107	3033789	100.000	97.957	80.00- 120.00	100.00
8.744	8.744 (0.955)	109	2855819			64.00- 124.00	94.13
166 Chlorobenzene					CAS #: 108-90-7		
9.174	9.181 (1.002)	112	3986543	100.000	95.078	80.00- 120.00	100.00
9.181	9.181 (1.003)	114	1292605			2.75- 62.75	32.42
9.174	9.181 (1.002)	77	2404131			30.27- 90.27	60.31
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.010)	106	2027055	100.000	98.014	80.00- 120.00	100.00
9.246	9.246 (1.010)	91	6292543			281.27- 341.27	310.43
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	2350293	100.000	95.741	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	1527656			34.91- 94.91	65.00
9.267	9.267 (1.013)	95	944552			10.71- 70.71	40.19
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.016)	43	4856616	100.000	91.417	80.00- 120.00	100.00
9.303	9.303 (1.016)	57	4361284			57.91- 117.91	89.80
9.303	9.303 (1.016)	85	1167498			0.00- 52.91	24.04
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.361 (1.023)	106	2554994	100.000	99.330	80.00- 120.00	100.00
9.360	9.361 (1.023)	91	5213233			176.41- 236.41	204.04
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	2415429	100.000	100.50	80.00- 120.00	100.00
9.747	9.747 (1.065)	91	5202307			186.60- 246.60	215.38
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.068)	104	4018408	100.000	97.892	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.776	9.776 (1.068)	78	2261973			26.08- 86.08	56.29
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	3717032	100.000	98.486	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	1934084			22.58- 82.58	52.03
185 Cumene					CAS #: 98-82-8		
10.091	10.091 (1.103)	105	7501268	100.000	96.917	80.00- 120.00	100.00
10.091	10.091 (1.103)	120	1942028			0.00- 55.43	25.89
10.084	10.091 (1.102)	51	1065308			0.00- 44.39	14.20
189 Cyclohexanone					CAS #: 108-94-1		
10.263	10.263 (1.121)	55	3176305	100.000	86.907	80.00- 120.00	100.00
10.263	10.263 (1.121)	98	912606			0.00- 57.69	28.73
10.263	10.256 (1.121)	42	1980702			32.21- 92.21	62.36
192 Bromobenzene					CAS #: 108-86-1		
10.435	10.435 (1.140)	156	2531787	100.000	95.471	80.00- 120.00	100.00
10.435	10.435 (1.140)	158	2463793			68.15- 128.15	97.31
10.435	10.428 (1.140)	77	3882928			125.89- 185.89	153.37
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.144)	83	3895713	100.000	93.462	80.00- 120.00	100.00
10.471	10.471 (1.144)	85	2498189			35.63- 95.63	64.13
196 Propylbenzene					CAS #: 103-65-1		
10.492	10.492 (1.146)	120	2031937	100.000	97.999	80.00- 120.00	100.00
10.492	10.492 (1.146)	91	8593682			403.96- 463.96	422.93
10.492	10.492 (1.146)	105	339587			0.00- 46.94	16.71
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.149)	110	1238334	100.000	92.490	80.00- 120.00	100.00
10.521	10.521 (1.149)	75	3179587			232.06- 292.06	256.76
10.521	10.521 (1.149)	61	1111307			62.53- 122.53	89.74
199 Decane					CAS #: 124-18-5		
10.600	10.600 (1.158)	57	5500145	100.000	92.122	80.00- 120.00	100.00
10.600	10.600 (1.158)	71	1501910			0.00- 56.58	27.31
10.600	10.600 (1.158)	142	187670			0.00- 33.23	3.41
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.158)	120	2159590	100.000	94.833	80.00- 120.00	100.00
10.600	10.600 (1.158)	105	7430477			317.00- 377.00	344.07
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.159)	126	1748947	100.000	93.078	80.00- 120.00	100.00

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	=======	==========	=====
201 2-Chlorotoluene (continued)								
10.607	10.607 (1.159)	91	6143793				317.25- 377.25	351.29
10.607	10.607 (1.159)	65	1107287				32.33- 92.33	63.31
204 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
10.671	10.671 (1.166)	120	2972555	100.000	96.612		80.00- 120.00	100.00
10.671	10.671 (1.166)	105	6512181				190.09- 250.09	219.08
209 alpha Methyl Styrene						CAS #: 98-83-9		
10.901	10.901 (1.191)	118	3304676	100.000	101.01		80.00- 120.00	100.00
10.901	10.901 (1.191)	103	2072943				32.49- 92.49	62.73
210 tert-Butylbenzene						CAS #: 98-06-6		
10.972	10.972 (1.199)	119	5863886	100.000	93.888		80.00- 120.00	100.00
10.972	10.972 (1.199)	134	1388286				0.00- 53.10	23.68
10.972	10.972 (1.199)	91	4218205				40.97- 100.97	71.94
212 1,2,4-Trimethylbenzene						CAS #: 95-63-6		
11.037	11.037 (1.206)	120	2828733	100.000	99.417		80.00- 120.00	100.00
11.037	11.037 (1.206)	105	6523996				204.98- 264.98	230.63
214 sec-Butylbenzene						CAS #: 135-98-8		
11.194	11.194 (1.223)	134	1818470	100.000	98.777		80.00- 120.00	100.00
11.194	11.194 (1.223)	105	9039179				484.40- 544.40	497.08
11.194	11.187 (1.223)	91	1538579				54.94- 114.94	84.61
216 p-Cymene						CAS #: 99-87-6		
11.337	11.337 (1.239)	119	7785024	100.000	95.543		80.00- 120.00	100.00
11.337	11.337 (1.239)	134	2056691				0.00- 55.89	26.42
11.337	11.330 (1.239)	91	2078908				0.00- 56.21	26.70
217 1,3-Dichlorobenzene						CAS #: 541-73-1		
11.352	11.352 (1.240)	146	4253152	100.000	94.395		80.00- 120.00	100.00
11.352	11.352 (1.240)	148	2698751				33.67- 93.67	63.45
11.352	11.352 (1.240)	111	1867856				13.82- 73.82	43.92
218 1,4-Dichlorobenzene						CAS #: 106-46-7		
11.452	11.445 (1.251)	146	4396973	100.000	95.677		80.00- 120.00	100.00
11.452	11.445 (1.251)	148	2752588				34.50- 94.50	62.60
11.445	11.445 (1.250)	111	1845365				12.20- 72.20	41.97
219 alpha-Chlorotoluene						CAS #: 100-44-7		
11.595	11.595 (1.267)	91	6541462	100.000	100.42		80.00- 120.00	100.00
11.595	11.595 (1.267)	126	1341990				0.00- 50.42	20.52
220 Butylbenzene						CAS #: 104-51-8		
11.739	11.739 (1.283)	134	2019889	100.000	100.62		80.00- 120.00	100.00

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
220 Butylbenzene (continued)								
11.739	11.739 (1.283)	91	7421434			345.70- 405.70		367.42
11.739	11.739 (1.283)	92	3981939			168.03- 228.03		197.14
221 Undecane					CAS #: 1120-21-4			
11.774	11.774 (1.286)	57	6453771	100.000	93.458	80.00- 120.00		100.00
11.774	11.774 (1.286)	43	5437735			57.09- 117.09		84.26
222 1,2-Dichlorobenzene					CAS #: 95-50-1			
11.817	11.817 (1.291)	146	4141518	100.000	93.939	80.00- 120.00		100.00
11.825	11.817 (1.292)	148	2638343			33.89- 93.89		63.70
11.817	11.817 (1.291)	111	1875872			15.34- 75.34		45.29
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8			
12.620	12.620 (1.379)	157	2889924	100.000	95.567	80.00- 120.00		100.00
12.620	12.620 (1.379)	75	2748446			65.80- 125.80		95.10
12.620	12.620 (1.379)	155	2247368			47.61- 107.61		77.77
227 Dodecane					CAS #: 112-40-3			
12.856	12.856 (1.405)	57	7430201	100.000	99.637	80.00- 120.00		100.00
12.856	12.856 (1.405)	43	5872390			50.33- 110.33		79.03
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1			
13.408	13.400 (1.465)	180	4375811	112.100	108.58	80.00- 120.00		100.00
13.408	13.400 (1.465)	182	4144254			65.96- 125.96		94.71
231 Hexachlorobutadiene					CAS #: 87-68-3			
13.515	13.515 (1.477)	225	3770974	112.700	108.45	80.00- 120.00		100.00
13.515	13.515 (1.477)	223	2393241			33.50- 93.50		63.46
232 Naphthalene					CAS #: 91-20-3			
13.651	13.651 (1.491)	128	1112326	11.8000	11.757	80.00- 120.00		100.00
13.651	13.651 (1.491)	127	143775			0.00- 42.81		12.93
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6			
13.902	13.902 (1.519)	180	4276782	112.700	110.25	80.00- 120.00		100.00
13.902	13.902 (1.519)	182	4021953			64.83- 124.83		94.04
13.902	13.902 (1.519)	145	1461294			3.99- 63.99		34.17

QC Flag Legend

Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

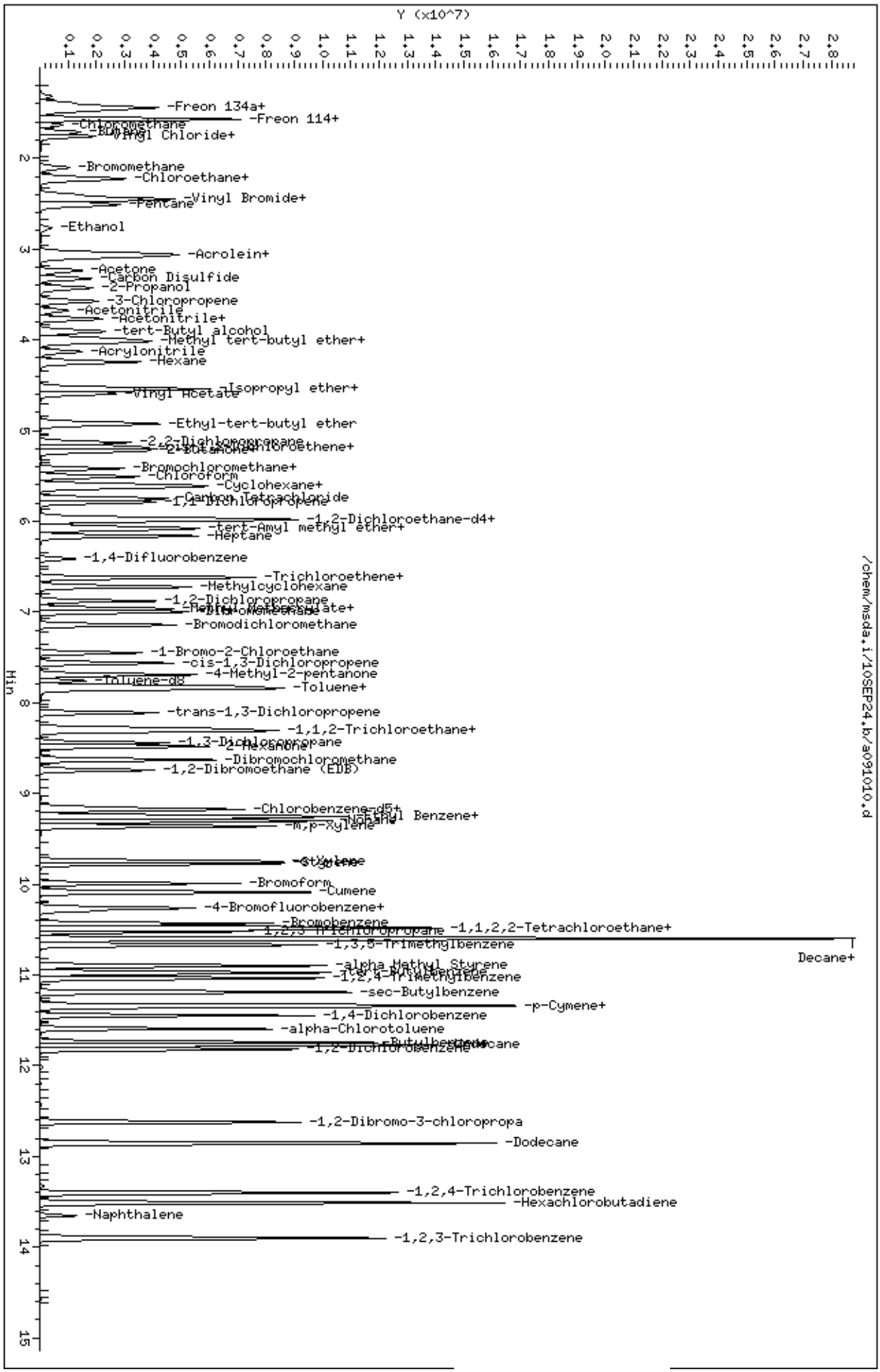
Instrument ID: msda.i
Lab File ID: a091010.d
Lab Smp Id: ICAL Level 8
Analysis Type: VOA
Quant Type: ISTD
Operator: TO
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 100ppbv(200ppbv)

Calibration Date: 10-SEP-2024
Calibration Time: 15:01
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	272599	163559	381639	281597	3.30
126 1,4-Difluorobenze	989537	593722	1385352	1043733	5.48
165 Chlorobenzene-d5	922551	553531	1291571	987271	7.02

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	-0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Data File: /chem/msda.i/10SEP24.b/a091010.d
Date : 10-SEP-2024 15:36
Client ID:
Sample Info: 100mL 3018-4808
Column phase: RTX-624
Instrument: msda.i
Operator: TO
Column diameter: 0.25
/chem/msda.i/10SEP24.b/a091010.d
Y (x10^7)
Min
-Freon 134a+
-Freon 114+
-Chloromethane
-Vinyl Chloride+
-Bromomethane
-Chloroethane+
-Vinyl Bromide+
-Pentane
-Ethanol
-Acrolein+
-Acetone
-Carbon Disulfide
-2-Propanol
-3-Chloropropene
-Acetonitrile
-Acetonitrile+
-tert-Butyl alcohol
-Methyl tert-butyl ether+
-Acrylonitrile
-Hexane
-Isopropyl ether+
-Vinyl Acetate
-Ethyl-tert-butyl ether
-2,2-Dichloropropane
-Bromochloromethane+
-Chloroform
-Cyclohexane+
-1,1-Dichloropropene
-1,2-Dichloroethane-d4+
-tert-Amyl methyl ether+
-Heptane
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane
-1,2-Dichloropropane
-Bromodichloromethane
-1-Bromo-2-Chloroethane
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene+
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane+
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane (EDB)
-Chlorobenzene-d5+
-Ethyl Benzene+
-m,p-Xylene
-o-Xylene
-Bromoform
-Cumene
-4-Bromofluorobenzene+
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-1,2,3-Trichloropropane
-1,3,5-Trimethylbenzene
Decane+
-alpha Methyl Styrene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Cymene+
-1,4-Dichlorobenzene
-alpha-Chlorotoluene
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-Dodecane
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
Page 1

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EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/10SEP24.b/a091011.d
Lab Smp Id: ICAL Level 9
Inj Date : 10-SEP-2024 16:14
Operator : TO Inst ID: msda.i
Smp Info : 200mL 3018-4808
Misc Info : 200ppbv(200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Meth Date : 10-Sep-2024 18:16 h6wn Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 13 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24ICAL.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 100 Bromochloromethane					CAS #: 74-97-5		
5.435	5.428 (1.000)	130	289433	25.0000		80.00- 120.00	100.00
5.435	5.428 (1.000)	128	229816			46.45- 106.45	79.40
5.428	5.428 (1.000)	49	576388			167.12- 227.12	199.14
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.023	6.015 (1.108)	65	465178	25.0000	23.102	80.00- 120.00	100.00
6.023	6.015 (1.108)	67	258383			23.36- 83.36	55.54
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.417	6.409 (1.000)	114	1109115	25.0000		80.00- 120.00	100.00
6.417	6.409 (1.000)	88	180558			0.00- 46.36	16.28
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.209)	98	1150927	25.0000	24.888	80.00- 120.00	100.00
7.756	7.756 (1.209)	70	130579			0.00- 41.92	11.35
7.756	7.756 (1.209)	100	797283			39.07- 99.07	69.27
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.153 (1.000)	117	1041656	25.0000		80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 165 Chlorobenzene-d5 (continued)							
9.153	9.153 (1.000)	82	596018			27.12- 87.12	57.22
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.299	10.299 (1.125)	174	692325	25.0000	24.924	80.00- 120.00	100.00
10.292	10.299 (1.124)	95	830372			89.27- 149.27	119.94
10.299	10.299 (1.125)	176	666184			66.29- 126.29	96.22
6 Freon 134a					CAS #: 811-97-2		
1.395	1.388 (0.257)	83	2234063	200.000	176.75	80.00- 120.00	100.00
1.388	1.388 (0.255)	69	1605065			41.53- 101.53	71.85
1.395	1.388 (0.257)	63	280035			0.00- 42.30	12.53
8 Propylene					CAS #: 115-07-1		
1.424	1.424 (0.262)	41	2337963	200.000	183.59	80.00- 120.00	100.00
1.424	1.424 (0.262)	42	1561716			38.18- 98.18	66.80
1.424	1.424 (0.262)	39	1635812			40.18- 100.18	69.97
9 1,1-Difluoroethane					CAS #: 75-37-6		
1.438	1.431 (0.265)	65	1406743	200.000	191.80	80.00- 120.00	100.00
1.481	1.474 (0.273)	51	5818013			362.20- 422.20	413.58
1.445	1.438 (0.266)	47	969184			41.18- 101.18	68.90
10 Freon 12					CAS #: 75-71-8		
1.453	1.452 (0.267)	85	6364557	200.000	184.64	80.00- 120.00	100.00
1.453	1.452 (0.267)	87	2091571			1.90- 61.90	32.86
12 Chlorodifluoromethane					CAS #: 75-45-6		
1.481	1.481 (0.273)	67	681224	200.000	192.90	80.00- 120.00	100.00(Q)
1.481	1.474 (0.273)	51	5818013			756.67- 816.67	854.05
15 Freon 114					CAS #: 76-14-2		
1.567	1.560 (0.288)	135	4531403	200.000	196.78	80.00- 120.00	100.00
1.567	1.560 (0.288)	137	1474332			1.76- 61.76	32.54
16 Isobutane					CAS #: 75-28-5		
1.574	1.574 (0.290)	43	5337454	200.000	188.29	80.00- 120.00	100.00
1.574	1.574 (0.290)	42	1736139			2.85- 62.85	32.53
1.574	1.574 (0.290)	58	194440			0.00- 33.52	3.64
17 Chloromethane					CAS #: 74-87-3		
1.639	1.632 (0.301)	50	2120760	200.000	175.22	80.00- 120.00	100.00
1.639	1.632 (0.301)	52	690559			2.14- 62.14	32.56
22 Butane					CAS #: 106-97-8		
1.710	1.703 (0.315)	58	449444	200.000	172.76	80.00- 120.00	100.00(Q)

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
22 Butane (continued)							
1.710	1.703 (0.315)	43	3104980			706.79- 766.79	690.85
24 Vinyl Chloride					CAS #: 75-01-4		
1.739	1.746 (0.320)	62	2065583	200.000	165.93	80.00- 120.00	100.00
1.739	1.746 (0.320)	64	624194			0.00- 59.56	30.22
25 1,3-Butadiene					CAS #: 106-99-0		
1.761	1.768 (0.324)	54	1876018	200.000	160.41	80.00- 120.00	100.00
1.761	1.768 (0.324)	39	1664126			64.19- 124.19	88.71
29 Bromomethane					CAS #: 74-83-9		
2.097	2.104 (0.386)	94	1956412	200.000	204.45	80.00- 120.00	100.00(A)
2.104	2.104 (0.387)	96	1840920			63.72- 123.72	94.10
30 Chloroethane					CAS #: 75-00-3		
2.212	2.205 (0.407)	64	1325599	200.000	197.64	80.00- 120.00	100.00
2.212	2.205 (0.407)	66	390540			0.20- 60.20	29.46
2.212	2.205 (0.407)	49	454989			7.38- 67.38	34.32
31 Isopentane					CAS #: 78-78-4		
2.226	2.233 (0.410)	43	3630179	200.000	196.36	80.00- 120.00	100.00
2.226	2.233 (0.410)	57	2543177			38.61- 98.61	70.06
32 Vinyl Bromide					CAS #: 593-60-2		
2.398	2.398 (0.441)	106	2376396	200.000	204.17	80.00- 120.00	100.00(A)
2.398	2.398 (0.441)	108	2208258			62.27- 122.27	92.92
33 Freon 11					CAS #: 75-69-4		
2.441	2.448 (0.449)	101	7658562	200.000	195.63	80.00- 120.00	100.00
2.441	2.448 (0.449)	103	5010560			35.49- 95.49	65.42
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.455	2.455 (0.452)	67	5487473	200.000	193.30	80.00- 120.00	100.00
2.455	2.455 (0.452)	69	1703451			0.95- 60.95	31.04
37 Pentane					CAS #: 109-66-0		
2.513	2.513 (0.462)	43	5799425	200.000	202.98	80.00- 120.00	100.00(A)
2.513	2.513 (0.462)	57	938015			0.00- 45.38	16.17
2.513	2.520 (0.462)	72	442648			0.00- 37.02	7.63
42 Ethanol					CAS #: 64-17-5		
2.778	2.763 (0.511)	46	573329	244.600	222.73	80.00- 120.00	100.00(A)
2.778	2.763 (0.511)	45	1478417			225.08- 285.08	257.87
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.561)	55	1195280	233.200	222.25	80.00- 120.00	100.00(A)

				AMOUNTS				
					CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
46 Acrolein (continued)								
3.050	3.050 (0.561)	56	1660681				109.39- 169.39	138.94
47 Freon 113							CAS #: 76-13-1	
3.050	3.057 (0.561)	151	4554163	200.000		196.48	80.00- 120.00	100.00
3.050	3.057 (0.561)	153	2896030				33.72- 93.72	63.59
3.050	3.057 (0.561)	101	5608484				94.86- 154.86	123.15
49 1,1-Dichloroethene							CAS #: 75-35-4	
3.086	3.086 (0.568)	98	1563269	200.000		200.77	80.00- 120.00	100.00(A)
3.086	3.086 (0.568)	96	2409171				127.35- 187.35	154.11
3.086	3.086 (0.568)	61	5398852				327.38- 387.38	345.36
52 Acetone							CAS #: 67-64-1	
3.243	3.236 (0.597)	58	1755220	200.000		198.00	80.00- 120.00	100.00
3.243	3.236 (0.597)	43	5408160				290.16- 350.16	308.12
54 Carbon Disulfide							CAS #: 75-15-0	
3.322	3.322 (0.611)	76	7047832	200.000		199.39	80.00- 120.00	100.00
57 2-Propanol							CAS #: 67-63-0	
3.437	3.422 (0.632)	45	7159179	233.200		228.98	80.00- 120.00	100.00(A)
3.430	3.422 (0.631)	43	1269038				0.00- 48.07	17.73
3.437	3.422 (0.632)	59	276637				0.00- 33.65	3.86
58 3-Chloropropene							CAS #: 107-05-1	
3.573	3.573 (0.657)	76	1158728	200.000		202.83	80.00- 120.00	100.00(A)
3.573	3.573 (0.657)	41	4434230				369.70- 429.70	382.68
60 Acetonitrile							CAS #: 75-05-8	
3.680	3.673 (0.677)	40	1522813	231.200		196.30	80.00- 120.00	100.00
3.680	3.673 (0.677)	41	2932587				161.56- 221.56	192.58
3.773	3.773 (0.694)	38	20840				0.00- 31.07	1.37
64 Methylene Chloride							CAS #: 75-09-2	
3.773	3.766 (0.694)	49	4172538	200.000		186.16	80.00- 120.00	100.00
3.773	3.766 (0.694)	84	2126105				18.48- 78.48	50.95
3.773	3.766 (0.694)	51	1309874				0.91- 60.91	31.39
70 tert-Butyl alcohol							CAS #: 75-65-0	
3.909	3.902 (0.719)	59	8083189	232.600		226.34	80.00- 120.00	100.00(A)
3.909	3.902 (0.719)	41	1681043				0.00- 51.01	20.80
3.909	3.902 (0.719)	57	888812				0.00- 41.01	11.00
72 Methyl tert-butyl ether							CAS #: 1634-04-4	
3.995	3.995 (0.735)	73	7454396	200.000		200.02	80.00- 120.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.988	3.995 (0.734)	57	2316040			0.93- 60.93	31.07
3.988	3.995 (0.734)	41	2076975			0.00- 59.87	27.86
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.740)	98	1645712	200.000	198.49	80.00- 120.00	100.00
4.024	4.024 (0.740)	61	5011744			282.80- 342.80	304.53
4.024	4.024 (0.740)	96	2579616			122.91- 182.91	156.75
74 Acrylonitrile					CAS #: 107-13-1		
4.139	4.131 (0.761)	52	2504454	200.000	193.74	80.00- 120.00	100.00
4.139	4.131 (0.761)	53	2958569			88.44- 148.44	118.13
78 Hexane					CAS #: 110-54-3		
4.246	4.246 (0.781)	57	5530662	200.000	198.62	80.00- 120.00	100.00
4.246	4.246 (0.781)	43	3467626			34.01- 94.01	62.70
4.246	4.246 (0.781)	86	594372			0.00- 40.22	10.75
82 Isopropyl ether					CAS #: 108-20-3		
4.540	4.540 (0.835)	45	11513607	200.000	184.50	80.00- 120.00	100.00
4.540	4.540 (0.835)	87	2173346			0.00- 47.08	18.88
4.540	4.540 (0.835)	59	1298887			0.00- 40.83	11.28
83 1,1-Dichloroethane					CAS #: 75-34-3		
4.547	4.547 (0.837)	63	5731700	200.000	197.53	80.00- 120.00	100.00
4.547	4.547 (0.837)	65	1721809			0.00- 59.58	30.04
84 Vinyl Acetate					CAS #: 108-05-4		
4.597	4.597 (0.846)	86	703983	232.400	256.32	80.00- 120.00	100.00(AQ)
4.597	4.597 (0.846)	43	10760902			1663.30-1723.30	1528.57
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.919	4.927 (0.905)	59	10946928	200.000	197.64	80.00- 120.00	100.00
4.927	4.927 (0.906)	87	3341768			0.00- 58.78	30.53
4.919	4.927 (0.905)	41	1918761			0.00- 48.47	17.53
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.134	5.134 (0.945)	77	5422326	200.000	197.13	80.00- 120.00	100.00
5.134	5.134 (0.945)	79	1778719			2.20- 62.20	32.80
5.134	5.134 (0.945)	97	1114168			0.00- 50.29	20.55
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.953)	98	1779591	200.000	204.76	80.00- 120.00	100.00(AQ)
5.177	5.177 (0.953)	96	2721310			123.49- 183.49	152.92
5.177	5.177 (0.953)	61	5216569			310.35- 370.35	293.13

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
92 2-Butanone					CAS #: 78-93-3		
5.206	5.206 (0.958)	72	1322707	200.000	204.98	80.00- 120.00	100.00(AQ)
5.220	5.206 (0.960)	43	15538663			1272.59-1332.59	1174.76
5.206	5.206 (0.958)	57	634442			18.61- 78.61	47.97
93 Ethyl Acetate					CAS #: 141-78-6		
5.227	5.227 (0.962)	70	648810	200.000	204.46	80.00- 120.00	100.00(AQ)
5.177	5.177 (0.953)	61	5215845			877.60- 937.60	803.91
5.227	5.227 (0.962)	45	1316112			179.24- 239.24	202.85
99 Tetrahydrofuran					CAS #: 109-99-9		
5.414	5.414 (0.996)	42	4133652	200.000	192.48	80.00- 120.00	100.00
5.414	5.414 (0.996)	71	1171227			0.00- 56.60	28.33
5.414	5.414 (0.996)	72	1204734			0.00- 56.86	29.14
103 Chloroform					CAS #: 67-66-3		
5.507	5.507 (1.013)	83	6136147	200.000	195.64	80.00- 120.00	100.00
5.507	5.507 (1.013)	85	4033201			34.90- 94.90	65.73
104 Cyclohexane					CAS #: 110-82-7		
5.600	5.600 (1.030)	84	3252880	200.000	199.12	80.00- 120.00	100.00
5.600	5.600 (1.030)	56	5711601			152.85- 212.85	175.59
5.600	5.600 (1.030)	41	2895220			65.81- 125.81	89.00
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.629	5.629 (1.036)	97	6242296	200.000	194.33	80.00- 120.00	100.00
5.629	5.629 (1.036)	99	4030197			34.79- 94.79	64.56
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.750	5.750 (1.058)	119	6760000	200.000	192.41	80.00- 120.00	100.00
5.750	5.750 (1.058)	117	7049299			73.63- 133.63	104.28
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.793	5.793 (0.903)	110	1504357	200.000	199.92	80.00- 120.00	100.00
5.793	5.793 (0.903)	75	4286009			260.30- 320.30	284.91
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.972	5.972 (1.099)	57	16593964	200.000	192.91	80.00- 120.00	100.00
5.972	5.972 (1.099)	56	5462588			2.18- 62.18	32.92
5.965	5.972 (1.098)	41	4203659			0.00- 55.61	25.33
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.933)	78	7297597	200.000	189.91	80.00- 120.00	100.00
5.987	5.987 (0.933)	77	1761110			0.00- 53.99	24.13
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.073	6.073 (1.117)	87	1945732	200.000	206.87	80.00- 120.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.073	6.073 (1.117)	73	7609187			362.99- 422.99	391.07
6.073	6.073 (1.117)	55	2758159			122.42- 182.42	141.75
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.094	6.094 (0.950)	62	4959214	200.000	189.69	80.00- 120.00	100.00
6.094	6.094 (0.950)	64	1558196			1.65- 61.65	31.42
122 Heptane					CAS #: 142-82-5		
6.166	6.166 (0.961)	71	2624767	200.000	195.98	80.00- 120.00	100.00
6.166	6.166 (0.961)	43	6492237			240.22- 300.22	247.35
6.166	6.166 (0.961)	57	3509334			110.36- 170.36	133.70
129 Trichloroethene					CAS #: 79-01-6		
6.624	6.617 (1.032)	95	3790646	200.000	193.48	80.00- 120.00	100.00
6.624	6.617 (1.032)	130	3698731			67.98- 127.98	97.58
6.624	6.617 (1.032)	97	2472144			34.45- 94.45	65.22
128 n-Butanol					CAS #: 71-36-3		
6.624	6.617 (1.032)	56	3316736	200.000	194.94	80.00- 120.00	100.00
6.624	6.617 (1.032)	41	2160690			39.42- 99.42	65.15
6.624	6.617 (1.032)	43	1753955			25.37- 85.37	52.88
131 Methylcyclohexane					CAS #: 108-87-2		
6.725	6.724 (1.237)	83	4436928	200.000	197.98	80.00- 120.00	100.00
6.725	6.724 (1.237)	98	2016444			14.33- 74.33	45.45
6.717	6.724 (1.236)	55	5373901			96.87- 156.87	121.12
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.882	6.875 (1.073)	63	3768952	200.000	192.53	80.00- 120.00	100.00
6.882	6.875 (1.073)	62	2694304			41.06- 101.06	71.49
6.875	6.875 (1.071)	41	2104058			28.31- 88.31	55.83
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	3021257	200.000	198.90	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	5089348			153.10- 213.10	168.45
6.961	6.961 (0.761)	100	1145847			8.18- 68.18	37.93
140 1,4-Dioxane					CAS #: 123-91-1		
6.982	6.982 (1.088)	88	1970628	200.000	195.74	80.00- 120.00	100.00
6.982	6.982 (1.088)	58	1976526			74.98- 134.98	100.30
6.982	6.982 (1.088)	57	717891			8.55- 68.55	36.43
141 Dibromomethane					CAS #: 74-95-3		
7.004	7.004 (0.765)	174	3709968	200.000	187.26	80.00- 120.00	100.00
7.004	6.997 (0.765)	93	3536929			66.30- 126.30	95.34

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
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141 Dibromomethane (continued)							
7.004	6.997 (0.765)	95	2940829			49.87- 109.87	79.27
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.113)	83	6673823	200.000	192.49	80.00- 120.00	100.00
7.140	7.140 (1.113)	85	4338967			34.86- 94.86	65.01
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.161)	63	7189173	200.000	192.01	80.00- 120.00	100.00
7.448	7.448 (1.161)	65	2142287			0.00- 58.67	29.80
7.448	7.448 (1.161)	144	666348			0.00- 39.14	9.27
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.563	7.563 (1.179)	75	5568197	200.000	203.45	80.00- 120.00	100.00(A)
7.563	7.563 (1.179)	77	1792037			1.88- 61.88	32.18
7.563	7.563 (1.179)	39	3344548			33.29- 93.29	60.07
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.692	7.691 (1.199)	58	3645829	200.000	190.12	80.00- 120.00	100.00
7.692	7.691 (1.199)	43	9015722			235.08- 295.08	247.29
7.692	7.691 (1.199)	85	1171313			0.69- 60.69	32.13
153 Toluene					CAS #: 108-88-3		
7.821	7.820 (1.219)	91	9391601	200.000	186.05	80.00- 120.00	100.00
7.821	7.820 (1.219)	92	5553020			27.69- 87.69	59.13
151 Octane					CAS #: 111-65-9		
7.849	7.849 (1.223)	57	3770085	200.000	180.38	80.00- 120.00	100.00
7.849	7.849 (1.223)	85	3067145			46.75- 106.75	81.35
7.849	7.842 (1.223)	43	8959275			221.22- 281.22	237.64
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.114	8.114 (0.887)	75	4858766	200.000	197.34	80.00- 120.00	100.00
8.114	8.114 (0.887)	77	1576764			1.61- 61.61	32.45
8.114	8.114 (0.887)	39	2647161			26.86- 86.86	54.48
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	3428153	200.000	188.56	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	2136205			32.96- 92.96	62.31
8.279	8.279 (0.905)	83	3051956			59.05- 119.05	89.03
159 Tetrachloroethene					CAS #: 127-18-4		
8.308	8.308 (0.908)	166	4936871	200.000	181.74	80.00- 120.00	100.00
8.308	8.308 (0.908)	129	3849643			46.43- 106.43	77.98
8.308	8.308 (0.908)	131	3796051			45.56- 105.56	76.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.316)	76	5074076	200.000	192.64	80.00- 120.00	100.00
8.444	8.444 (1.316)	41	4576190			59.80- 119.80	90.19
8.444	8.444 (1.316)	78	1674139			2.58- 62.58	32.99
162 2-Hexanone					CAS #: 591-78-6		
8.479	8.479 (0.926)	58	5137474	200.000	186.70	80.00- 120.00	100.00
8.479	8.479 (0.926)	43	9127583			159.07- 219.07	177.67
8.487	8.479 (0.927)	100	744660			0.00- 43.98	14.49
163 Dibromochloromethane					CAS #: 124-48-1		
8.630	8.630 (0.943)	129	7371531	200.000	193.84	80.00- 120.00	100.00
8.630	8.630 (0.943)	127	5770399			47.90- 107.90	78.28
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.745	8.744 (0.955)	107	6187411	200.000	190.80	80.00- 120.00	100.00
8.745	8.744 (0.955)	109	5869854			64.00- 124.00	94.87
166 Chlorobenzene					CAS #: 108-90-7		
9.181	9.181 (1.003)	112	8079443	200.000	184.92	80.00- 120.00	100.00
9.181	9.181 (1.003)	114	2676990			2.75- 62.75	33.13
9.174	9.181 (1.002)	77	4909411			30.27- 90.27	60.76
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.010)	106	4145844	200.000	191.36	80.00- 120.00	100.00
9.246	9.246 (1.010)	91	12398256			281.27- 341.27	299.05
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	4740354	200.000	185.27	80.00- 120.00	100.00(A)
9.267	9.267 (1.013)	117	3105040			34.91- 94.91	65.50
9.267	9.267 (1.013)	95	1907058			10.71- 70.71	40.23
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.016)	43	9247948	200.000	169.94	80.00- 120.00	100.00
9.303	9.303 (1.016)	57	8537040			57.91- 117.91	92.31
9.303	9.303 (1.016)	85	2429486			0.00- 52.91	26.27
173 m,p-Xylene					CAS #: 108-38-3		
9.361	9.361 (1.023)	106	5193590	200.000	192.56	80.00- 120.00	100.00
9.361	9.361 (1.023)	91	10351157			176.41- 236.41	199.31
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	4899564	200.000	194.16	80.00- 120.00	100.00
9.747	9.747 (1.065)	91	10359699			186.60- 246.60	211.44
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.068)	104	8146989	200.000	189.72	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.776	9.776 (1.068)	78	4644251			26.08- 86.08	57.01
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	7593671	200.000	191.97	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	3991109			22.58- 82.58	52.56
185 Cumene					CAS #: 98-82-8		
10.091	10.091 (1.103)	105	14623750	200.000	181.79	80.00- 120.00	100.00
10.091	10.091 (1.103)	120	3981745			0.00- 55.43	27.23
10.084	10.091 (1.102)	51	2092290			0.00- 44.39	14.31
189 Cyclohexanone					CAS #: 108-94-1		
10.263	10.263 (1.121)	55	6342997	200.000	169.51	80.00- 120.00	100.00
10.263	10.263 (1.121)	98	1883014			0.00- 57.69	29.69
10.263	10.256 (1.121)	42	3938836			32.21- 92.21	62.10
192 Bromobenzene					CAS #: 108-86-1		
10.435	10.435 (1.140)	156	5202111	200.000	188.13	80.00- 120.00	100.00
10.435	10.435 (1.140)	158	4974998			68.15- 128.15	95.63
10.435	10.428 (1.140)	77	7889169			125.89- 185.89	151.65
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.478	10.471 (1.145)	83	7746861	200.000	179.20	80.00- 120.00	100.00
10.478	10.471 (1.145)	85	5100139			35.63- 95.63	65.83
196 Propylbenzene					CAS #: 103-65-1		
10.492	10.492 (1.146)	120	4144457	200.000	190.89	80.00- 120.00	100.00(Q)
10.492	10.492 (1.146)	91	16261506			403.96- 463.96	392.37
10.492	10.492 (1.146)	105	699624			0.00- 46.94	16.88
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.149)	110	2501533	200.000	180.03	80.00- 120.00	100.00
10.521	10.521 (1.149)	75	6413773			232.06- 292.06	256.39
10.521	10.521 (1.149)	61	2275267			62.53- 122.53	90.95
199 Decane					CAS #: 124-18-5		
10.600	10.600 (1.158)	57	10093207	200.000	165.72	80.00- 120.00	100.00
10.600	10.600 (1.158)	71	3030339			0.00- 56.58	30.02
10.600	10.600 (1.158)	142	372708			0.00- 33.23	3.69
200 4-Ethyltoluene					CAS #: 622-96-8		
10.607	10.600 (1.159)	120	4328770	200.000	182.75	80.00- 120.00	100.00
10.607	10.600 (1.159)	105	14275438			317.00- 377.00	329.78
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.159)	126	3558034	200.000	182.14	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.607	10.607 (1.159)	91	12001605			317.25- 377.25	337.31
10.607	10.607 (1.159)	65	2193511			32.33- 92.33	61.65
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.671	10.671 (1.166)	120	5991704	200.000	186.63	80.00- 120.00	100.00
10.671	10.671 (1.166)	105	12810842			190.09- 250.09	213.81
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.901	10.901 (1.191)	118	6720946	200.000	195.44	80.00- 120.00	100.00
10.901	10.901 (1.191)	103	4203416			32.49- 92.49	62.54
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.199)	119	11449161	200.000	177.63	80.00- 120.00	100.00
10.972	10.972 (1.199)	134	2781143			0.00- 53.10	24.29
10.972	10.972 (1.199)	91	8280834			40.97- 100.97	72.33
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.206)	120	5745214	200.000	192.56	80.00- 120.00	100.00
11.037	11.037 (1.206)	105	12770608			204.98- 264.98	222.28
214 sec-Butylbenzene					CAS #: 135-98-8		
11.194	11.194 (1.223)	134	3698809	200.000	191.74	80.00- 120.00	100.00(Q)
11.194	11.194 (1.223)	105	17109475			484.40- 544.40	462.57
11.194	11.187 (1.223)	91	3072936			54.94- 114.94	83.08
216 p-Cymene					CAS #: 99-87-6		
11.338	11.337 (1.239)	119	14997298	200.000	177.69	80.00- 120.00	100.00
11.338	11.337 (1.239)	134	4147507			0.00- 55.89	27.66
11.338	11.330 (1.239)	91	4143744			0.00- 56.21	27.63
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.240)	146	8469267	200.000	180.98	80.00- 120.00	100.00
11.352	11.352 (1.240)	148	5478179			33.67- 93.67	64.68
11.352	11.352 (1.240)	111	3790007			13.82- 73.82	44.75
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.452	11.445 (1.251)	146	8799799	200.000	183.92	80.00- 120.00	100.00
11.452	11.445 (1.251)	148	5675094			34.50- 94.50	64.49
11.452	11.445 (1.251)	111	3783409			12.20- 72.20	42.99
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.595	11.595 (1.267)	91	12963659	200.000	190.16	80.00- 120.00	100.00
11.595	11.595 (1.267)	126	2790021			0.00- 50.42	21.52
220 Butylbenzene					CAS #: 104-51-8		
11.746	11.739 (1.283)	134	4059964	200.000	192.83	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
220 Butylbenzene (continued)							
11.739	11.739 (1.283)	91	14190767			345.70- 405.70	349.53
11.739	11.739 (1.283)	92	7894432			168.03- 228.03	194.45
221 Undecane					CAS #: 1120-21-4		
11.774	11.774 (1.286)	57	12172399	200.000	171.78	80.00- 120.00	100.00
11.774	11.774 (1.286)	43	10003034			57.09- 117.09	82.18
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.825	11.817 (1.292)	146	8250695	200.000	180.29	80.00- 120.00	100.00
11.825	11.817 (1.292)	148	5317239			33.89- 93.89	64.45
11.817	11.817 (1.291)	111	3826195			15.34- 75.34	46.37
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.620	12.620 (1.379)	157	5879541	200.000	186.72	80.00- 120.00	100.00
12.620	12.620 (1.379)	75	5579336			65.80- 125.80	94.89
12.620	12.620 (1.379)	155	4599066			47.61- 107.61	78.22
227 Dodecane					CAS #: 112-40-3		
12.856	12.856 (1.405)	57	14069570	200.000	182.03	80.00- 120.00	100.00
12.856	12.856 (1.405)	43	10905116			50.33- 110.33	77.51
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.408	13.400 (1.465)	180	8694472	224.200	207.53	80.00- 120.00	100.00(A)
13.408	13.400 (1.465)	182	8325869			65.96- 125.96	95.76
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.515	13.515 (1.477)	225	7411759	225.400	205.58	80.00- 120.00	100.00(A)
13.515	13.515 (1.477)	223	4873334			33.50- 93.50	65.75
232 Naphthalene					CAS #: 91-20-3		
13.651	13.651 (1.491)	128	2350603	23.6000	23.557	80.00- 120.00	100.00
13.651	13.651 (1.491)	127	305908			0.00- 42.81	13.01
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.902	13.902 (1.519)	180	8534536	225.400	211.16	80.00- 120.00	100.00(A)
13.902	13.902 (1.519)	182	8180802			64.83- 124.83	95.86
13.902	13.902 (1.519)	145	3019168			3.99- 63.99	35.38

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

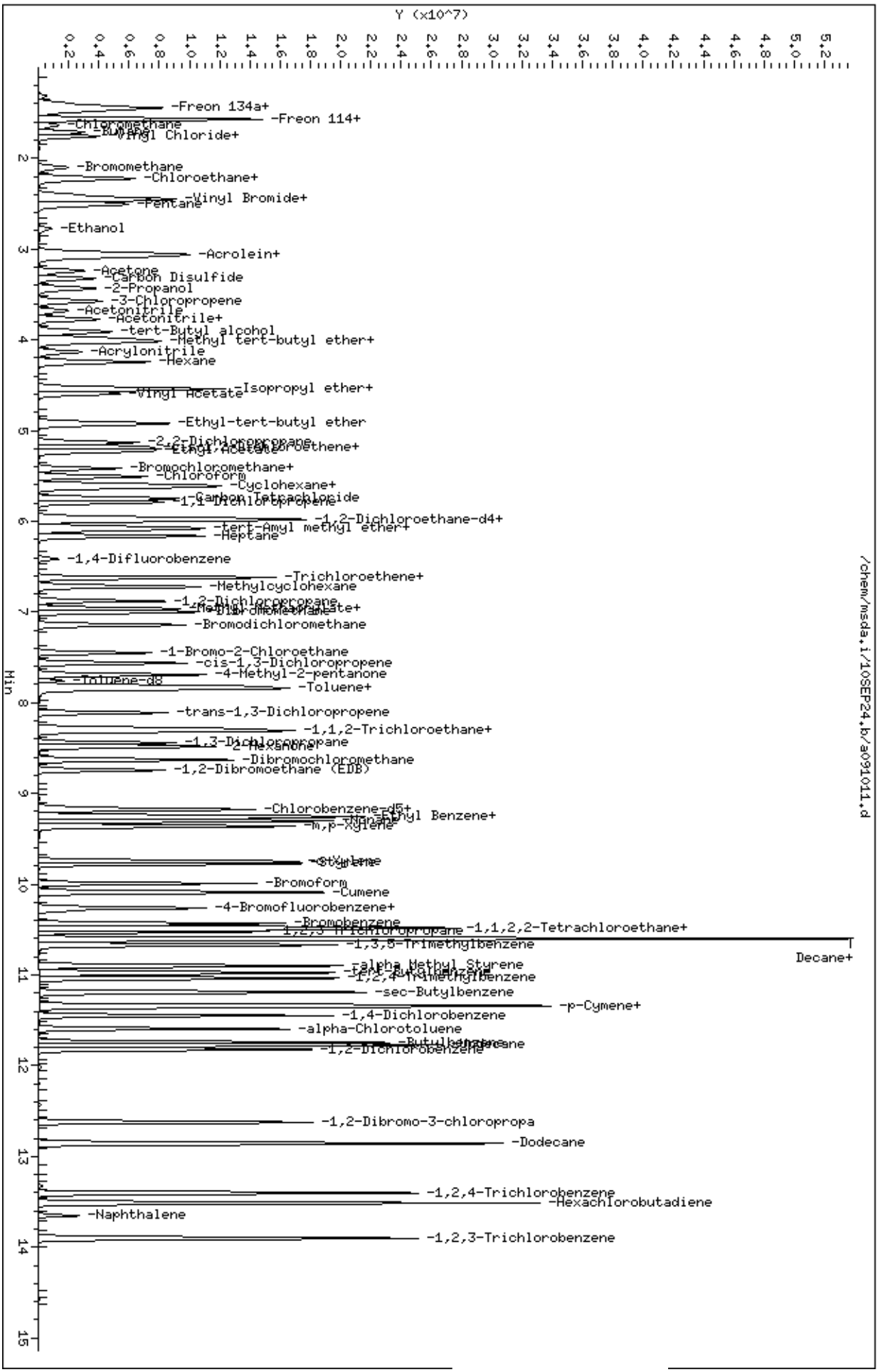
Instrument ID: msda.i
Lab File ID: a091011.d
Lab Smp Id: ICAL Level 9
Analysis Type: VOA
Quant Type: ISTD
Operator: TO
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 200ppbv(200ppbv)

Calibration Date: 10-SEP-2024
Calibration Time: 15:01
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	272599	163559	381639	289433	6.18
126 1,4-Difluorobenze	989537	593722	1385352	1109115	12.08
165 Chlorobenzene-d5	922551	553531	1291571	1041656	12.91

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.44	0.13
126 1,4-Difluorobenze	6.41	6.08	6.74	6.42	0.11
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Data File: /chem/msda.i/10SEP24.b/a091011.d
Date : 10-SEP-2024 16:14
Client ID:
Sample Info: 200mL 3018-4808
Column phase: RTX-624
Instrument: msda.i
Operator: TO
Column diameter: 0.25
Y (x10^7)
Min
/chem/msda.i/10SEP24.b/a091011.d
-Freon 134a+
-Freon 114+
-Chloromethane
-Vinyl Chloride+
-Bromomethane
-Chloroethane+
-Vinyl Bromide+
-Pentane
-Ethanol
-Acrolein+
-Acetone
-Carbon Disulfide
-2-Propanol
-3-Chloropropene
-Acetonitrile
-Acetonitrile+
-tert-Butyl alcohol
-Methyl tert-butyl ether+
-Acrylonitrile
-Hexane
-Isopropyl ether+
-Vinyl Acetate
-Ethyl-tert-butyl ether
-2,2-Dichloropropane
-Bromochloromethane+
-Chloroform
-Cyclohexane+
-1,1-Dichloropropene
-1,2-Dichloroethane-d4+
-tert-Amyl methyl ether+
-Heptane
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane
-1,2-Dichloropropane
-Bromodichloromethane
-1-Bromo-2-Chloroethane
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene+
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane+
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane (EDB)
-Chlorobenzene-d5+
-Ethyl Benzene+
-m,p-Xylene
-Styrene
-Bromoform
-Cumene
-4-Bromofluorobenzene+
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-1,3,5-Trimethylbenzene
Decane+
-alpha Methyl Styrene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Cymene+
-1,4-Dichlorobenzene
-alpha-Chlorotoluene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-Dodecane
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/10SEP24.b/a091014.d
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 10-SEP-2024 18:55
Operator : AB Inst ID: msda.i
Smp Info : 50mL 3018-4807
Misc Info : 50ppbv(200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/10SEP24.b/a24q0910a.m
Meth Date : 10-Sep-2024 21:25 h6wn Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	309435	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	245104			46.45- 106.45	79.21
5.428	5.428 (1.000)	49	591386			167.12- 227.12	191.12
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	1175491	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	195062			0.00- 46.36	16.59
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.153	9.153 (1.000)	117	1083461	25.0000		80.00- 120.00	100.00
9.153	9.153 (1.000)	82	611261			27.12- 87.12	56.42
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	519462	24.1306	24.130	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	283757			23.36- 83.36	54.63
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.210)	98	1220612	24.9048	24.905	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	136956			0.00- 41.92	11.22

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.210)	100	837776			39.07- 99.07	68.64
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.299	10.299 (1.125)	174	701346	24.2743	24.274	80.00- 120.00	100.00
10.292	10.292 (1.124)	95	844976			89.27- 149.27	120.48
10.299	10.299 (1.125)	176	672065			66.29- 126.29	95.83
6 Freon 134a					CAS #: 811-97-2		
1.381	1.388 (0.254)	83	681836	50.4562	50.456	80.00- 120.00	100.00
1.381	1.388 (0.254)	69	510704			41.53- 101.53	74.90
1.381	1.388 (0.254)	63	69503			0.00- 42.30	10.19
8 Propylene					CAS #: 115-07-1		
1.424	1.424 (0.262)	41	641980	47.1537	47.154	80.00- 120.00	100.00
1.424	1.424 (0.262)	42	437711			38.18- 98.18	68.18
1.424	1.424 (0.262)	39	445221			40.18- 100.18	69.35
9 1,1-Difluoroethane					CAS #: 75-37-6		
1.431	1.431 (0.264)	65	393672	50.2043	50.204	80.00- 120.00	100.00
1.474	1.474 (0.272)	51	1437186			362.20- 422.20	365.07
1.438	1.438 (0.265)	47	261917			41.18- 101.18	66.53
10 Freon 12					CAS #: 75-71-8		
1.445	1.452 (0.266)	85	1798944	48.8144	48.814	80.00- 120.00	100.00
1.445	1.452 (0.266)	87	577038			1.90- 61.90	32.08
12 Chlorodifluoromethane					CAS #: 75-45-6		
1.474	1.481 (0.272)	67	183377	48.5696	48.570	80.00- 120.00	100.00
1.474	1.474 (0.272)	51	1437186			756.67- 816.67	783.73
15 Freon 114					CAS #: 76-14-2		
1.560	1.560 (0.287)	135	1236733	50.2337	50.234	80.00- 120.00	100.00
1.560	1.560 (0.287)	137	398234			1.76- 61.76	32.20
16 Isobutane					CAS #: 75-28-5		
1.567	1.574 (0.289)	43	1480194	48.8427	48.843	80.00- 120.00	100.00
1.574	1.574 (0.290)	42	482917			2.85- 62.85	32.63
1.567	1.574 (0.289)	58	55337			0.00- 33.52	3.74
17 Chloromethane					CAS #: 74-87-3		
1.632	1.632 (0.301)	50	632342	48.8689	48.869	80.00- 120.00	100.00
1.632	1.639 (0.301)	52	201216			2.14- 62.14	31.82
22 Butane					CAS #: 106-97-8		
1.703	1.703 (0.314)	58	122297	43.9708	43.971	80.00- 120.00	100.00(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
22 Butane (continued)							
1.703	1.703 (0.314)	43	854627			706.79- 766.79	698.81
24 Vinyl Chloride					CAS #: 75-01-4		
1.739	1.746 (0.320)	62	588619	44.2274	44.227	80.00- 120.00	100.00
1.739	1.746 (0.320)	64	184771			0.00- 59.56	31.39
25 1,3-Butadiene					CAS #: 106-99-0		
1.760	1.768 (0.324)	54	513050	41.0334	41.033	80.00- 120.00	100.00
1.760	1.768 (0.324)	39	461569			64.19- 124.19	89.97
29 Bromomethane					CAS #: 74-83-9		
2.097	2.104 (0.386)	94	571046	55.8182	55.818	80.00- 120.00	100.00
2.097	2.104 (0.386)	96	523643			63.72- 123.72	91.70
30 Chloroethane					CAS #: 75-00-3		
2.205	2.205 (0.406)	64	391037	54.5345	54.534	80.00- 120.00	100.00
2.197	2.205 (0.405)	66	118994			0.20- 60.20	30.43
2.205	2.205 (0.406)	49	134358			7.38- 67.38	34.36
31 Isopentane					CAS #: 78-78-4		
2.226	2.233 (0.410)	43	1019429	51.5775	51.578	80.00- 120.00	100.00
2.226	2.233 (0.410)	57	713462			38.61- 98.61	69.99
32 Vinyl Bromide					CAS #: 593-60-2		
2.398	2.398 (0.442)	106	666095	53.5300	53.530	80.00- 120.00	100.00
2.398	2.398 (0.442)	108	621547			62.27- 122.27	93.31
33 Freon 11					CAS #: 75-69-4		
2.441	2.448 (0.450)	101	2056989	49.1464	49.146	80.00- 120.00	100.00
2.441	2.448 (0.450)	103	1335626			35.49- 95.49	64.93
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.448	2.455 (0.451)	67	1581329	52.1026	52.102	80.00- 120.00	100.00
2.448	2.455 (0.451)	69	485302			0.95- 60.95	30.69
37 Pentane					CAS #: 109-66-0		
2.513	2.513 (0.463)	43	1557691	50.9953	50.995	80.00- 120.00	100.00
2.513	2.513 (0.463)	57	246938			0.00- 45.38	15.85
2.513	2.520 (0.463)	72	113162			0.00- 37.02	7.26
42 Ethanol					CAS #: 64-17-5		
2.763	2.763 (0.509)	46	153302	55.7067	55.707	80.00- 120.00	100.00
2.763	2.763 (0.509)	45	396440			225.08- 285.08	258.60
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.562)	55	338390	58.8539	58.854	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
46 Acrolein (continued)							
3.050	3.050 (0.562)	56	462833			109.39- 169.39	136.77
47 Freon 113					CAS #: 76-13-1		
3.057	3.057 (0.563)	151	1217584	49.1348	49.135	80.00- 120.00	100.00
3.057	3.057 (0.563)	153	781382			33.72- 93.72	64.17
3.050	3.057 (0.562)	101	1521652			94.86- 154.86	124.97
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.086	3.086 (0.568)	98	402653	48.3691	48.369	80.00- 120.00	100.00
3.086	3.086 (0.568)	96	643232			127.35- 187.35	159.75
3.086	3.086 (0.568)	61	1406158			327.38- 387.38	349.22
52 Acetone					CAS #: 67-64-1		
3.236	3.236 (0.596)	58	466582	49.2324	49.232	80.00- 120.00	100.00
3.236	3.236 (0.596)	43	1442287			290.16- 350.16	309.12
54 Carbon Disulfide					CAS #: 75-15-0		
3.322	3.322 (0.612)	76	1914291	50.6564	50.656	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.429	3.422 (0.632)	45	1787630	53.4811	53.481	80.00- 120.00	100.00
3.429	3.422 (0.632)	43	317680			0.00- 48.07	17.77
3.429	3.422 (0.632)	59	66346			0.00- 33.65	3.71
58 3-Chloropropene					CAS #: 107-05-1		
3.573	3.573 (0.658)	76	314488	51.4914	51.491	80.00- 120.00	100.00
3.573	3.573 (0.658)	41	1189643			369.70- 429.70	378.28
60 Acetonitrile					CAS #: 75-05-8		
3.673	3.673 (0.677)	40	409317	49.3540	49.354	80.00- 120.00	100.00
3.673	3.673 (0.677)	41	780275			161.56- 221.56	190.63
3.766	3.773 (0.694)	38	5684			0.00- 31.07	1.39
64 Methylene Chloride					CAS #: 75-09-2		
3.766	3.766 (0.694)	49	1160905	48.4472	48.447	80.00- 120.00	100.00
3.766	3.766 (0.694)	84	599880			18.48- 78.48	51.67
3.766	3.766 (0.694)	51	368783			0.91- 60.91	31.77
70 tert-Butyl alcohol					CAS #: 75-65-0		
3.909	3.902 (0.720)	59	1996035	52.2790	52.279	80.00- 120.00	100.00
3.902	3.902 (0.719)	41	409034			0.00- 51.01	20.49
3.909	3.902 (0.720)	57	208564			0.00- 41.01	10.45
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.995	3.995 (0.736)	73	1965585	49.3320	49.332	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.995	3.995 (0.736)	57	611506			0.93- 60.93	31.11
3.995	3.995 (0.736)	41	565696			0.00- 59.87	28.78
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	449946	50.7596	50.760	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	1355233			282.80- 342.80	301.20
4.024	4.024 (0.741)	96	694284			122.91- 182.91	154.30
74 Acrylonitrile					CAS #: 107-13-1		
4.131	4.131 (0.761)	52	686289	49.6576	49.658	80.00- 120.00	100.00
4.131	4.131 (0.761)	53	824453			88.44- 148.44	120.13
78 Hexane					CAS #: 110-54-3		
4.246	4.246 (0.782)	57	1449873	48.7027	48.703	80.00- 120.00	100.00
4.239	4.246 (0.781)	43	902944			34.01- 94.01	62.28
4.246	4.246 (0.782)	86	157849			0.00- 40.22	10.89
83 1,1-Dichloroethane					CAS #: 75-34-3		
4.547	4.547 (0.838)	63	1536112	49.5165	49.516	80.00- 120.00	100.00
4.547	4.547 (0.838)	65	461009			0.00- 59.58	30.01
82 Isopropyl ether					CAS #: 108-20-3		
4.533	4.540 (0.835)	45	3203790	48.0198	48.020	80.00- 120.00	100.00
4.540	4.540 (0.836)	87	589367			0.00- 47.08	18.40
4.540	4.540 (0.836)	59	349522			0.00- 40.83	10.91
84 Vinyl Acetate					CAS #: 108-05-4		
4.597	4.597 (0.847)	86	184738	62.9145	62.914	80.00- 120.00	100.00(Q)
4.590	4.597 (0.846)	43	2920360			1663.30-1723.30	1580.81
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.927	4.927 (0.908)	59	2899117	48.9596	48.960	80.00- 120.00	100.00
4.927	4.927 (0.908)	87	884232			0.00- 58.78	30.50
4.919	4.927 (0.906)	41	511642			0.00- 48.47	17.65
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.134	5.134 (0.946)	77	1398123	47.5426	47.543	80.00- 120.00	100.00
5.134	5.134 (0.946)	79	453894			2.20- 62.20	32.46
5.134	5.134 (0.946)	97	291508			0.00- 50.29	20.85
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	478777	51.5261	51.526	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	739911			123.49- 183.49	154.54
5.177	5.177 (0.954)	61	1610062			310.35- 370.35	336.29

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
5.206	5.206 (0.959)	72	349717	50.6931	50.693	80.00- 120.00	100.00(Q)
5.220	5.220 (0.962)	43	4300662			1272.59-1332.59	1229.75
5.206	5.206 (0.959)	57	167869			18.61- 78.61	48.00
93 Ethyl Acetate					CAS #: 141-78-6		
5.227	5.227 (0.963)	70	183644	54.1312	54.131	80.00- 120.00	100.00(Q)
5.177	5.177 (0.954)	61	1610062			877.60- 937.60	876.73
5.227	5.227 (0.963)	45	349986			179.24- 239.24	190.58
99 Tetrahydrofuran					CAS #: 109-99-9		
5.414	5.414 (0.997)	42	1085484	47.2779	47.278	80.00- 120.00	100.00
5.414	5.414 (0.997)	71	311153			0.00- 56.60	28.66
5.414	5.421 (0.997)	72	322400			0.00- 56.86	29.70
103 Chloroform					CAS #: 67-66-3		
5.507	5.507 (1.015)	83	1600238	47.7218	47.722	80.00- 120.00	100.00
5.507	5.507 (1.015)	85	1035708			34.90- 94.90	64.72
104 Cyclohexane					CAS #: 110-82-7		
5.600	5.600 (1.032)	84	881778	50.4883	50.488	80.00- 120.00	100.00
5.600	5.600 (1.032)	56	1566015			152.85- 212.85	177.60
5.600	5.600 (1.032)	41	790949			65.81- 125.81	89.70
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.629	5.629 (1.037)	97	1679728	48.9112	48.911	80.00- 120.00	100.00
5.629	5.629 (1.037)	99	1069448			34.79- 94.79	63.67
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.750	5.750 (1.059)	119	1778504	47.3499	47.350	80.00- 120.00	100.00
5.750	5.750 (1.059)	117	1871987			73.63- 133.63	105.26
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.786	5.793 (0.903)	110	406395	50.9567	50.957	80.00- 120.00	100.00
5.786	5.793 (0.903)	75	1141195			260.30- 320.30	280.81
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.972	5.972 (1.100)	57	4620136	50.2383	50.238	80.00- 120.00	100.00
5.972	5.972 (1.100)	56	1489417			2.18- 62.18	32.24
5.972	5.972 (1.100)	41	1125161			0.00- 55.61	24.35
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	2070094	50.8295	50.829	80.00- 120.00	100.00
5.987	5.987 (0.934)	77	490088			0.00- 53.99	23.67
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.073	6.073 (1.119)	87	514276	51.1446	51.144	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.073	6.073 (1.119)	73	2019508			362.99- 422.99	392.69
6.073	6.073 (1.119)	55	742097			122.42- 182.42	144.30
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.087	6.094 (0.950)	62	1332357	48.0843	48.084	80.00- 120.00	100.00
6.094	6.094 (0.951)	64	410229			1.65- 61.65	30.79
122 Heptane					CAS #: 142-82-5		
6.166	6.166 (0.962)	71	732170	51.5799	51.580	80.00- 120.00	100.00
6.159	6.166 (0.961)	43	1811381			240.22- 300.22	247.40
6.166	6.166 (0.962)	57	970944			110.36- 170.36	132.61
128 n-Butanol					CAS #: 71-36-3		
6.617	6.617 (1.032)	56	912916	50.6271	50.627	80.00- 120.00	100.00
6.617	6.617 (1.032)	41	607645			39.42- 99.42	66.56
6.617	6.617 (1.032)	43	489582			25.37- 85.37	53.63
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	1025102	49.3693	49.369	80.00- 120.00	100.00
6.617	6.624 (1.032)	130	1008404			67.98- 127.98	98.37
6.617	6.617 (1.032)	97	657053			34.45- 94.45	64.10
131 Methylcyclohexane					CAS #: 108-87-2		
6.717	6.724 (1.238)	83	1176258	49.0931	49.093	80.00- 120.00	100.00
6.724	6.724 (1.239)	98	533830			14.33- 74.33	45.38
6.717	6.724 (1.238)	55	1435919			96.87- 156.87	122.08
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.073)	63	1030356	49.6617	49.662	80.00- 120.00	100.00
6.875	6.875 (1.073)	62	736596			41.06- 101.06	71.49
6.875	6.875 (1.073)	41	563309			28.31- 88.31	54.67
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	810861	51.3229	51.323	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	1397901			153.10- 213.10	172.40
6.961	6.961 (0.761)	100	313581			8.18- 68.18	38.67
140 1,4-Dioxane					CAS #: 123-91-1		
6.982	6.982 (1.089)	88	513765	48.1511	48.151	80.00- 120.00	100.00
6.982	6.982 (1.089)	58	530266			74.98- 134.98	103.21
6.982	6.982 (1.089)	57	190213			8.55- 68.55	37.02
141 Dibromomethane					CAS #: 74-95-3		
6.997	7.004 (0.764)	174	1001175	48.5850	48.585	80.00- 120.00	100.00
6.997	6.997 (0.764)	93	962955			66.30- 126.30	96.18

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
141 Dibromomethane (continued)							
6.997	6.997 (0.764)	95	792186			49.87- 109.87	79.13
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.114)	83	1792340	48.7761	48.776	80.00- 120.00	100.00
7.140	7.140 (1.114)	85	1141632			34.86- 94.86	63.70
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.563	7.563 (1.180)	75	1509744	52.0486	52.049	80.00- 120.00	100.00
7.563	7.563 (1.180)	77	475695			1.88- 61.88	31.51
7.563	7.563 (1.180)	39	898775			33.29- 93.29	59.53
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.691	7.691 (1.200)	58	1010173	49.7047	49.705	80.00- 120.00	100.00
7.691	7.691 (1.200)	43	2573872			235.08- 295.08	254.80
7.691	7.691 (1.200)	85	316876			0.69- 60.69	31.37
153 Toluene					CAS #: 108-88-3		
7.820	7.820 (1.220)	91	2638922	49.3268	49.327	80.00- 120.00	100.00
7.820	7.820 (1.220)	92	1539326			27.69- 87.69	58.33
151 Octane					CAS #: 111-65-9		
7.842	7.849 (1.224)	57	1079346	48.7254	48.725	80.00- 120.00	100.00
7.842	7.849 (1.224)	85	862747			46.75- 106.75	79.93
7.842	7.842 (1.224)	43	2621471			221.22- 281.22	242.88
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.114	8.114 (0.887)	75	1317947	51.4644	51.464	80.00- 120.00	100.00
8.114	8.114 (0.887)	77	424915			1.61- 61.61	32.24
8.114	8.114 (0.887)	39	715959			26.86- 86.86	54.32
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	947820	50.1225	50.122	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	587162			32.96- 92.96	61.95
8.279	8.279 (0.905)	83	848830			59.05- 119.05	89.56
159 Tetrachloroethene					CAS #: 127-18-4		
8.308	8.308 (0.908)	166	1383119	48.9528	48.953	80.00- 120.00	100.00
8.308	8.308 (0.908)	129	1061758			46.43- 106.43	76.77
8.308	8.308 (0.908)	131	1039171			45.56- 105.56	75.13
162 2-Hexanone					CAS #: 591-78-6		
8.479	8.479 (0.926)	58	1412861	49.3639	49.364	80.00- 120.00	100.00
8.479	8.479 (0.926)	43	2588030			159.07- 219.07	183.18
8.479	8.479 (0.926)	100	206100			0.00- 43.98	14.59

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.317)	76	1394760	49.9639	49.964	80.00- 120.00	100.00
8.444	8.444 (1.317)	41	1187255			59.80- 119.80	85.12
8.444	8.444 (1.317)	78	460888			2.58- 62.58	33.04
163 Dibromochloromethane					CAS #: 124-48-1		
8.630	8.630 (0.943)	129	1979510	50.0432	50.043	80.00- 120.00	100.00
8.630	8.630 (0.943)	127	1539979			47.90- 107.90	77.80
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.744	8.744 (0.955)	107	1691311	50.1434	50.143	80.00- 120.00	100.00
8.744	8.744 (0.955)	109	1595773			64.00- 124.00	94.35
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.162)	63	1963651	49.4837	49.484	80.00- 120.00	100.00
7.448	7.448 (1.162)	65	565577			0.00- 58.67	28.80
7.448	7.448 (1.162)	144	174825			0.00- 39.14	8.90
166 Chlorobenzene					CAS #: 108-90-7		
9.174	9.181 (1.002)	112	2265081	49.8437	49.844	80.00- 120.00	100.00
9.174	9.181 (1.002)	114	735707			2.75- 62.75	32.48
9.174	9.174 (1.002)	77	1359043			30.27- 90.27	60.00
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.010)	106	1177291	52.2447	52.245	80.00- 120.00	100.00
9.246	9.246 (1.010)	91	3642446			281.27- 341.27	309.39
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.016)	43	2741846	48.4417	48.442	80.00- 120.00	100.00
9.303	9.303 (1.016)	57	2483635			57.91- 117.91	90.58
9.303	9.303 (1.016)	85	675429			0.00- 52.91	24.63
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	1310134	49.2281	49.228	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	861591			34.91- 94.91	65.76
9.267	9.267 (1.013)	95	517035			10.71- 70.71	39.46
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.361 (1.023)	106	1441936	51.3979	51.398	80.00- 120.00	100.00
9.360	9.361 (1.023)	91	2958564			176.41- 236.41	205.18
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.065)	106	1364286	51.9776	51.978	80.00- 120.00	100.00
9.747	9.747 (1.065)	91	2941781			186.60- 246.60	215.63
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.068)	104	2334389	52.2630	52.263	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.776	9.776 (1.068)	78	1268938			26.08- 86.08	54.36
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	2036512	49.4978	49.498	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	1040764			22.58- 82.58	51.11
185 Cumene					CAS #: 98-82-8		
10.084	10.091 (1.102)	105	4208629	50.3001	50.300	80.00- 120.00	100.00
10.091	10.091 (1.103)	120	1080252			0.00- 55.43	25.67
10.084	10.084 (1.102)	51	570328			0.00- 44.39	13.55
189 Cyclohexanone					CAS #: 108-94-1		
10.263	10.263 (1.121)	55	1764493	45.3338	45.334	80.00- 120.00	100.00
10.263	10.263 (1.121)	98	507568			0.00- 57.69	28.77
10.263	10.256 (1.121)	42	1067838			32.21- 92.21	60.52
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.144)	83	2238947	49.7939	49.794	80.00- 120.00	100.00
10.471	10.471 (1.144)	85	1459094			35.63- 95.63	65.17
192 Bromobenzene					CAS #: 108-86-1		
10.435	10.435 (1.140)	156	1406437	48.9002	48.900	80.00- 120.00	100.00
10.435	10.435 (1.140)	158	1343044			68.15- 128.15	95.49
10.428	10.428 (1.139)	77	2149423			125.89- 185.89	152.83
196 Propylbenzene					CAS #: 103-65-1		
10.492	10.492 (1.146)	120	1151371	50.9841	50.984	80.00- 120.00	100.00
10.492	10.485 (1.146)	91	4865217			403.96- 463.96	422.56
10.492	10.492 (1.146)	105	192275			0.00- 46.94	16.70
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.149)	110	669165	46.2998	46.300	80.00- 120.00	100.00
10.521	10.521 (1.149)	75	1737622			232.06- 292.06	259.67
10.521	10.521 (1.149)	61	606779			62.53- 122.53	90.68
199 Decane					CAS #: 124-18-5		
10.600	10.600 (1.158)	57	3224087	50.8928	50.893	80.00- 120.00	100.00
10.600	10.600 (1.158)	71	871985			0.00- 56.58	27.05
10.600	10.600 (1.158)	142	108539			0.00- 33.23	3.37
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.158)	120	1215539	49.3375	49.337	80.00- 120.00	100.00
10.600	10.600 (1.158)	105	4245510			317.00- 377.00	349.27
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.159)	126	1001939	49.3119	49.312	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.607	10.607 (1.159)	91	3461336			317.25- 377.25	345.46
10.607	10.607 (1.159)	65	601555			32.33- 92.33	60.04
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.671	10.671 (1.166)	120	1676965	50.2184	50.218	80.00- 120.00	100.00
10.671	10.671 (1.166)	105	3726224			190.09- 250.09	222.20
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.901	10.901 (1.191)	118	1862813	52.0790	52.079	80.00- 120.00	100.00
10.901	10.901 (1.191)	103	1151607			32.49- 92.49	61.82
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.199)	119	3305729	49.3086	49.309	80.00- 120.00	100.00
10.972	10.972 (1.199)	134	780936			0.00- 53.10	23.62
10.972	10.972 (1.199)	91	2329513			40.97- 100.97	70.47
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.206)	120	1606897	51.7801	51.780	80.00- 120.00	100.00
11.037	11.037 (1.206)	105	3732017			204.98- 264.98	232.25
214 sec-Butylbenzene					CAS #: 135-98-8		
11.194	11.194 (1.223)	134	1000659	49.8698	49.870	80.00- 120.00	100.00
11.194	11.194 (1.223)	105	5063481			484.40- 544.40	506.01
11.187	11.187 (1.222)	91	824497			54.94- 114.94	82.40
216 p-Cymene					CAS #: 99-87-6		
11.337	11.337 (1.239)	119	4332631	49.3529	49.353	80.00- 120.00	100.00
11.337	11.337 (1.239)	134	1139702			0.00- 55.89	26.31
11.330	11.330 (1.238)	91	1113519			0.00- 56.21	25.70
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.240)	146	2389073	49.0819	49.082	80.00- 120.00	100.00
11.352	11.352 (1.240)	148	1518369			33.67- 93.67	63.55
11.352	11.352 (1.240)	111	1042918			13.82- 73.82	43.65
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.452	11.445 (1.251)	146	2471951	49.6707	49.671	80.00- 120.00	100.00
11.452	11.445 (1.251)	148	1563977			34.50- 94.50	63.27
11.445	11.445 (1.250)	111	1024116			12.20- 72.20	41.43
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.595	11.595 (1.267)	91	3572727	50.3866	50.387	80.00- 120.00	100.00
11.595	11.595 (1.267)	126	742768			0.00- 50.42	20.79
221 Undecane					CAS #: 1120-21-4		
11.774	11.774 (1.286)	57	3699582	50.1953	50.195	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
221 Undecane (continued)							
11.774	11.774 (1.286)	43	3116428			57.09- 117.09	84.24
220 Butylbenzene					CAS #: 104-51-8		
11.739	11.739 (1.283)	134	1106507	50.5260	50.526	80.00- 120.00	100.00
11.739	11.739 (1.283)	91	4182904			345.70- 405.70	378.03
11.739	11.739 (1.283)	92	2204622			168.03- 228.03	199.24
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.817	11.817 (1.291)	146	2301793	48.3563	48.356	80.00- 120.00	100.00
11.817	11.817 (1.291)	148	1455564			33.89- 93.89	63.24
11.817	11.817 (1.291)	111	1021674			15.34- 75.34	44.39
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.620	12.620 (1.379)	157	1547694	47.2560	47.256	80.00- 120.00	100.00
12.620	12.620 (1.379)	75	1449827			65.80- 125.80	93.68
12.620	12.620 (1.379)	155	1218603			47.61- 107.61	78.74
227 Dodecane					CAS #: 112-40-3		
12.856	12.856 (1.405)	57	4101235	51.0143	51.014	80.00- 120.00	100.00
12.856	12.856 (1.405)	43	3219022			50.33- 110.33	78.49
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.408	13.400 (1.465)	180	2415069	55.4208	55.421	80.00- 120.00	100.00
13.408	13.400 (1.465)	182	2291112			65.96- 125.96	94.87
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.515	13.515 (1.477)	225	2083999	55.5737	55.574	80.00- 120.00	100.00
13.515	13.515 (1.477)	223	1304395			33.50- 93.50	62.59
232 Naphthalene					CAS #: 91-20-3		
13.651	13.651 (1.491)	128	580585	5.59391	5.594	80.00- 120.00	100.00
13.651	13.651 (1.491)	127	71826			0.00- 42.81	12.37
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.902	13.902 (1.519)	180	2281215	54.2640	54.264	80.00- 120.00	100.00
13.902	13.902 (1.519)	182	2184029			64.83- 124.83	95.74
13.902	13.902 (1.519)	145	772696			3.99- 63.99	33.87

QC Flag Legend

Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a091014.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: AB
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 50ppbv(200ppbv)

Calibration Date: 10-SEP-2024
Calibration Time: 15:01
Client Smp ID: ICV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	272599	163559	381639	309435	13.51
126 1,4-Difluorobenze	989537	593722	1385352	1175491	18.79
165 Chlorobenzene-d5	922551	553531	1291571	1083461	17.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

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RECOVERY REPORT

Client Name: Client SDG: 10SEP24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: ICV Client Smp ID: ICV
Level: LOW Operator: AB
Data Type: MS DATA SampleType: LCS
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: AT24.sub
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 50ppbv(200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Freon 134a	50.000	50.456	100.91	70-130
8 Propylene	50.000	47.154	94.31	70-130
9 1,1-Difluoroethan	50.000	50.204	100.41	70-130
10 Freon 12	50.000	48.814	97.63	70-130
12 Chlorodifluoromet	50.000	48.570	97.14	70-130
15 Freon 114	50.000	50.234	100.47	70-130
16 Isobutane	50.000	48.843	97.69	70-130
17 Chloromethane	50.000	48.869	97.74	70-130
22 Butane	50.000	43.971	87.94	70-130
24 Vinyl Chloride	50.000	44.227	88.45	70-130
25 1,3-Butadiene	50.000	41.033	82.07	70-130
29 Bromomethane	50.000	55.818	111.64	70-130
30 Chloroethane	50.000	54.534	109.07	70-130
31 Isopentane	50.000	51.578	103.16	70-130
32 Vinyl Bromide	50.000	53.530	107.06	70-130
33 Freon 11	50.000	49.146	98.29	70-130
35 Dichlorofluoromet	50.000	52.102	104.21	70-130
37 Pentane	50.000	50.995	101.99	70-130
42 Ethanol	58.000	55.707	96.05	70-130
46 Acrolein	58.000	58.854	101.47	70-130
47 Freon 113	50.000	49.135	98.27	70-130
49 1,1-Dichloroethen	50.000	48.369	96.74	70-130
52 Acetone	50.000	49.232	98.46	70-130
54 Carbon Disulfide	50.000	50.656	101.31	70-130
57 2-Propanol	50.000	53.481	106.96	70-130
58 3-Chloropropene	50.000	51.491	102.98	70-130
60 Acetonitrile	50.000	49.354	98.71	70-130
64 Methylene Chlorid	50.000	48.447	96.89	70-130
70 tert-Butyl alcoho	50.000	52.279	104.56	70-130
72 Methyl tert-butyl	50.000	49.332	98.66	70-130
73 trans-1,2-Dichlor	50.000	50.760	101.52	70-130
74 Acrylonitrile	50.000	49.658	99.32	70-130
78 Hexane	50.000	48.703	97.41	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
83	1,1-Dichloroethan	50.000	49.516	99.03	70-130
82	Isopropyl ether	50.000	48.020	96.04	70-130
84	Vinyl Acetate	50.000	62.914	125.83	70-130
88	Ethyl-tert-butyl	50.000	48.960	97.92	70-130
90	2,2-Dichloropropa	50.000	47.543	95.09	70-130
91	cis-1,2-Dichloroe	50.000	51.526	103.05	70-130
92	2-Butanone	50.000	50.693	101.39	70-130
93	Ethyl Acetate	50.000	54.131	108.26	70-130
99	Tetrahydrofuran	50.000	47.278	94.56	70-130
103	Chloroform	50.000	47.722	95.44	70-130
104	Cyclohexane	50.000	50.488	100.98	70-130
106	1,1,1-Trichloroet	50.000	48.911	97.82	70-130
113	1,1-Dichloroprope	50.000	50.957	101.91	70-130
112	Carbon Tetrachlor	50.000	47.350	94.70	70-130
117	2,2,4-Trimethylpe	50.000	50.238	100.48	70-130
118	Benzene	50.000	50.829	101.66	70-130
120	tert-Amyl methyl	50.000	51.144	102.29	70-130
121	1,2-Dichloroethan	50.000	48.084	96.17	70-130
122	Heptane	50.000	51.580	103.16	70-130
128	n-Butanol	50.000	50.627	101.25	70-130
129	Trichloroethene	50.000	49.369	98.74	70-130
141	Dibromomethane	50.000	48.585	97.17	70-130
131	Methylcyclohexane	50.000	49.093	98.19	70-130
135	1,2-Dichloropropa	50.000	49.662	99.32	70-130
139	Methyl Methacryla	50.000	51.323	102.65	70-130
140	1,4-Dioxane	50.000	48.151	96.30	70-130
142	Bromodichlorometh	50.000	48.776	97.55	70-130
149	cis-1,3-Dichlorop	50.000	52.049	104.10	70-130
150	4-Methyl-2-pentan	50.000	49.705	99.41	70-130
151	Octane	50.000	48.725	97.45	70-130
153	Toluene	50.000	49.327	98.65	70-130
154	trans-1,3-Dichlor	50.000	51.464	102.93	70-130
158	1,1,2-Trichloroet	50.000	50.122	100.25	70-130
159	Tetrachloroethene	50.000	48.953	97.91	70-130
162	2-Hexanone	50.000	49.364	98.73	70-130
161	1,3-Dichloropropa	50.000	49.964	99.93	70-130
163	Dibromochlorometh	50.000	50.043	100.09	70-130
164	1,2-Dibromoethane	50.000	50.143	100.29	70-130
144	1-Bromo-2-Chloroe	50.000	49.484	98.97	70-130
166	Chlorobenzene	50.000	49.844	99.69	70-130
167	Ethyl Benzene	50.000	52.245	104.49	70-130
170	Nonane	50.000	48.442	96.88	70-130
169	1,1,1,2-Tetrachlo	50.000	49.228	98.46	70-130
173	m,p-Xylene	50.000	51.398	102.80	70-130
176	o-Xylene	50.000	51.978	103.96	70-130
178	Styrene	50.000	52.263	104.53	70-130
184	Bromoform	50.000	49.498	99.00	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
185 Cumene	50.000	50.300	100.60	70-130
189 Cyclohexanone	50.000	45.334	90.67	70-130
194 1,1,2,2-Tetrachlo	50.000	49.794	99.59	70-130
192 Bromobenzene	50.000	48.900	97.80	70-130
196 Propylbenzene	50.000	50.984	101.97	70-130
197 1,2,3-Trichloropr	50.000	46.300	92.60	70-130
199 Decane	50.000	50.893	101.79	70-130
200 4-Ethyltoluene	50.000	49.337	98.67	70-130
201 2-Chlorotoluene	50.000	49.312	98.62	70-130
204 1,3,5-Trimethylbe	50.000	50.218	100.44	70-130
209 alpha Methyl Styr	50.000	52.079	104.16	70-130
210 tert-Butylbenzene	50.000	49.309	98.62	70-130
212 1,2,4-Trimethylbe	50.000	51.780	103.56	70-130
214 sec-Butylbenzene	50.000	49.870	99.74	70-130
216 p-Cymene	50.000	49.353	98.71	70-130
217 1,3-Dichlorobenze	50.000	49.082	98.16	70-130
218 1,4-Dichlorobenze	50.000	49.671	99.34	70-130
219 alpha-Chlorotolue	50.000	50.387	100.77	70-130
221 Undecane	50.000	50.195	100.39	70-130
220 Butylbenzene	50.000	50.526	101.05	70-130
222 1,2-Dichlorobenze	50.000	48.356	96.71	70-130
226 1,2-Dibromo-3-chl	50.000	47.256	94.51	70-130
227 Dodecane	50.000	51.014	102.03	70-130
230 1,2,4-Trichlorobe	50.000	55.421	110.84	70-130
231 Hexachlorobutadie	50.000	55.574	111.15	70-130
232 Naphthalene	6.000	5.594	93.23	60-140
233 1,2,3-Trichlorobe	50.000	54.264	108.53	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	24.130	96.52	70-130
$ 152 Toluene-d8	25.000	24.905	99.62	70-130
$ 191 4-Bromofluorobenz	25.000	24.274	97.10	70-130

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RECOVERY REPORT

Client Name: Client SDG: 10SEP24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: AB
Data Type: MS DATA SampleType: LCS
SpikeList File: AT24.spk Quant Type: ISTD
Sublist File: AT24.sub
Method File: /chem/msda.i/10SEP24.b/a24q0910a.m
Misc Info: 50ppbv(200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Freon 134a	50.000	50.456	100.91	70-130
8 Propylene	50.000	47.154	94.31	70-130
9 1,1-Difluoroethan	50.000	50.204	100.41	70-130
10 Freon 12	50.000	48.814	97.63	70-130
12 Chlorodifluoromet	50.000	48.570	97.14	70-130
15 Freon 114	50.000	50.234	100.47	70-130
16 Isobutane	50.000	48.843	97.69	70-130
17 Chloromethane	50.000	48.869	97.74	70-130
22 Butane	50.000	43.971	87.94	70-130
24 Vinyl Chloride	50.000	44.227	88.45	70-130
25 1,3-Butadiene	50.000	41.033	82.07	70-130
29 Bromomethane	50.000	55.818	111.64	70-130
30 Chloroethane	50.000	54.534	109.07	70-130
31 Isopentane	50.000	51.578	103.16	70-130
32 Vinyl Bromide	50.000	53.530	107.06	70-130
33 Freon 11	50.000	49.146	98.29	70-130
35 Dichlorofluoromet	50.000	52.103	104.21	70-130
37 Pentane	50.000	50.995	101.99	70-130
42 Ethanol	58.000	55.706	96.05	70-130
46 Acrolein	58.000	58.854	101.47	70-130
47 Freon 113	50.000	49.135	98.27	70-130
49 1,1-Dichloroethen	50.000	48.369	96.74	70-130
52 Acetone	50.000	49.232	98.46	70-130
54 Carbon Disulfide	50.000	50.656	101.31	70-130
57 2-Propanol	50.000	53.481	106.96	70-130
58 3-Chloropropene	50.000	51.491	102.98	70-130
60 Acetonitrile	50.000	49.354	98.71	70-130
64 Methylene Chlorid	50.000	48.447	96.89	70-130
70 tert-Butyl alcoho	50.000	52.279	104.56	70-130
72 Methyl tert-butyl	50.000	49.332	98.66	70-130
73 trans-1,2-Dichlor	50.000	50.760	101.52	70-130
74 Acrylonitrile	50.000	49.658	99.32	70-130
78 Hexane	50.000	48.703	97.41	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
83	1,1-Dichloroethan	50.000	49.516	99.03	70-130
82	Isopropyl ether	50.000	48.020	96.04	70-130
84	Vinyl Acetate	50.000	62.914	125.83	70-130
88	Ethyl-tert-butyl	50.000	48.960	97.92	70-130
90	2,2-Dichloropropa	50.000	47.543	95.09	70-130
91	cis-1,2-Dichloroe	50.000	51.526	103.05	70-130
92	2-Butanone	50.000	50.693	101.39	70-130
93	Ethyl Acetate	50.000	54.131	108.26	70-130
99	Tetrahydrofuran	50.000	47.278	94.56	70-130
103	Chloroform	50.000	47.722	95.44	70-130
104	Cyclohexane	50.000	50.488	100.98	70-130
106	1,1,1-Trichloroet	50.000	48.911	97.82	70-130
113	1,1-Dichloroprope	50.000	50.957	101.91	70-130
112	Carbon Tetrachlor	50.000	47.350	94.70	70-130
117	2,2,4-Trimethylpe	50.000	50.238	100.48	70-130
118	Benzene	50.000	50.829	101.66	70-130
120	tert-Amyl methyl	50.000	51.144	102.29	70-130
121	1,2-Dichloroethan	50.000	48.084	96.17	70-130
122	Heptane	50.000	51.580	103.16	70-130
128	n-Butanol	50.000	50.627	101.25	70-130
129	Trichloroethene	50.000	49.369	98.74	70-130
141	Dibromomethane	50.000	48.585	97.17	70-130
131	Methylcyclohexane	50.000	49.093	98.19	70-130
135	1,2-Dichloropropa	50.000	49.662	99.32	70-130
139	Methyl Methacryla	50.000	51.323	102.65	70-130
140	1,4-Dioxane	50.000	48.151	96.30	70-130
142	Bromodichlorometh	50.000	48.776	97.55	70-130
149	cis-1,3-Dichlorop	50.000	52.049	104.10	70-130
150	4-Methyl-2-pentan	50.000	49.705	99.41	70-130
151	Octane	50.000	48.725	97.45	70-130
153	Toluene	50.000	49.327	98.65	70-130
154	trans-1,3-Dichlor	50.000	51.464	102.93	70-130
158	1,1,2-Trichloroet	50.000	50.122	100.25	70-130
159	Tetrachloroethene	50.000	48.953	97.91	70-130
162	2-Hexanone	50.000	49.364	98.73	70-130
161	1,3-Dichloropropa	50.000	49.964	99.93	70-130
163	Dibromochlorometh	50.000	50.043	100.09	70-130
164	1,2-Dibromoethane	50.000	50.143	100.29	70-130
144	1-Bromo-2-Chloroe	50.000	49.484	98.97	70-130
166	Chlorobenzene	50.000	49.844	99.69	70-130
167	Ethyl Benzene	50.000	52.245	104.49	70-130
170	Nonane	50.000	48.442	96.88	70-130
169	1,1,1,2-Tetrachlo	50.000	49.228	98.46	70-130
173	m,p-Xylene	50.000	51.398	102.80	70-130
176	o-Xylene	50.000	51.978	103.96	70-130
178	Styrene	50.000	52.263	104.53	70-130
184	Bromoform	50.000	49.498	99.00	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
185 Cumene	50.000	50.300	100.60	70-130
189 Cyclohexanone	50.000	45.334	90.67	70-130
194 1,1,2,2-Tetrachlo	50.000	49.794	99.59	70-130
192 Bromobenzene	50.000	48.900	97.80	70-130
196 Propylbenzene	50.000	50.984	101.97	70-130
197 1,2,3-Trichloropr	50.000	46.300	92.60	70-130
199 Decane	50.000	50.893	101.79	70-130
200 4-Ethyltoluene	50.000	49.338	98.68	70-130
201 2-Chlorotoluene	50.000	49.312	98.62	70-130
204 1,3,5-Trimethylbe	50.000	50.218	100.44	70-130
209 alpha Methyl Styr	50.000	52.079	104.16	70-130
210 tert-Butylbenzene	50.000	49.309	98.62	70-130
212 1,2,4-Trimethylbe	50.000	51.780	103.56	70-130
214 sec-Butylbenzene	50.000	49.870	99.74	70-130
216 p-Cymene	50.000	49.353	98.71	70-130
217 1,3-Dichlorobenze	50.000	49.082	98.16	70-130
218 1,4-Dichlorobenze	50.000	49.671	99.34	70-130
219 alpha-Chlorotolue	50.000	50.387	100.77	70-130
221 Undecane	50.000	50.195	100.39	70-130
220 Butylbenzene	50.000	50.526	101.05	70-130
222 1,2-Dichlorobenze	50.000	48.356	96.71	70-130
226 1,2-Dibromo-3-chl	50.000	47.256	94.51	70-130
227 Dodecane	50.000	51.014	102.03	70-130
230 1,2,4-Trichlorobe	50.000	55.421	110.84	70-130
231 Hexachlorobutadie	50.000	55.574	111.15	70-130
232 Naphthalene	6.000	5.594	93.23	60-140
233 1,2,3-Trichlorobe	50.000	54.264	108.53	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	24.130	96.52	70-130
$ 152 Toluene-d8	25.000	24.905	99.62	70-130
$ 191 4-Bromofluorobenz	25.000	24.274	97.10	70-130

Data File: /chem/msda.i/10SEP24.b/a091014.d

Date : 10-SEP-2024 18:55

Client ID: ICV

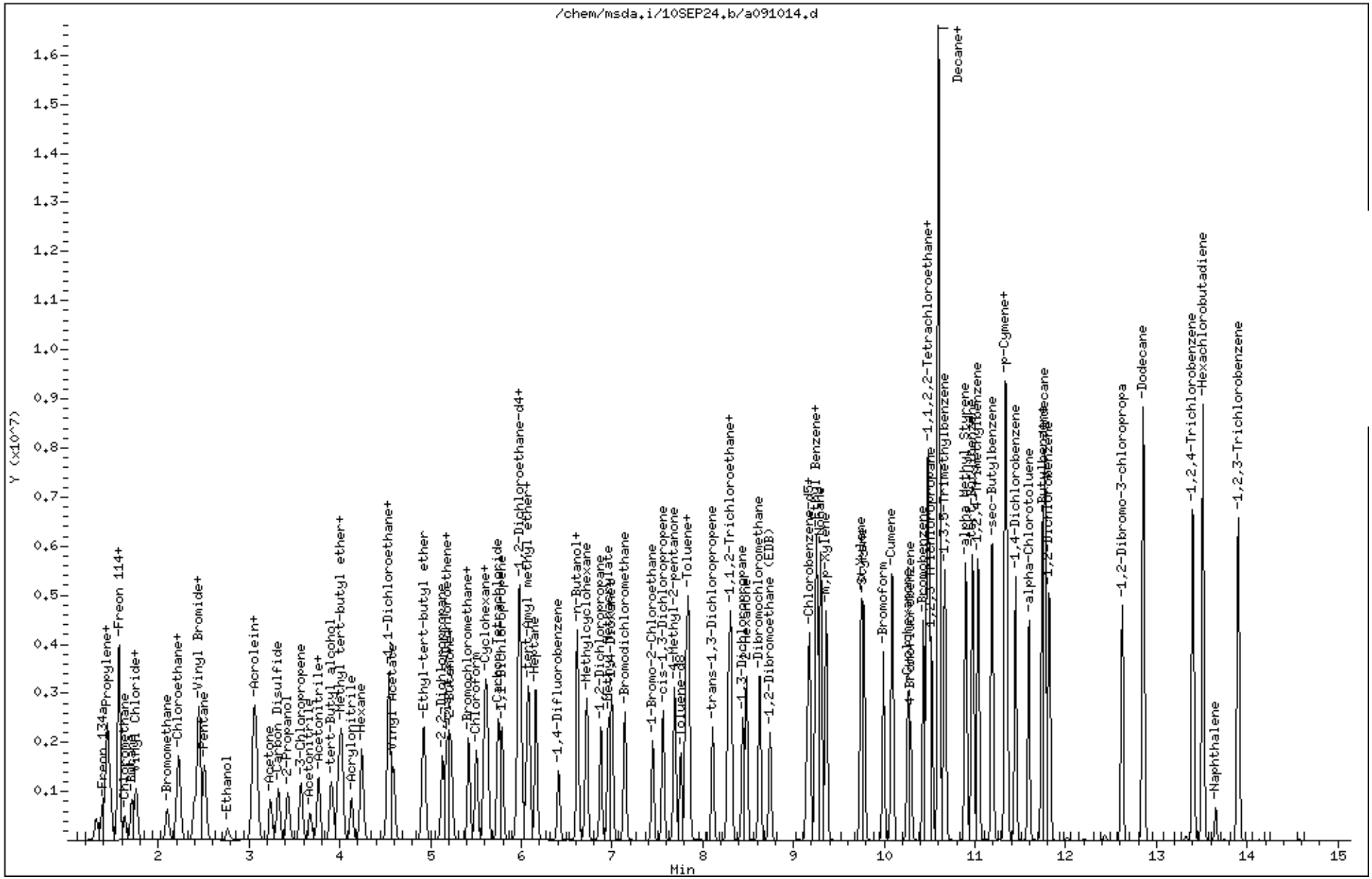
Instrument: msda.i

Sample Info: 50mL 3018-4807

Operator: AB

Column phase: RTX-624

Column diameter: 0.25



TO-15 QUAD POOLED MDL CASE NARRATIVE

A Method Detection Limit Study for TO-15 Quad method was analyzed 7/23/24-8/26/24 for MSDA, MSD3, MSDP, MSDJ, MSD17, and MSD91.

0.5ppbv MDL: Standard #3018-4652, 3018-4681, 3018-4685 (5.0ppbv); 20mL load volume. Spike amount of 0.5ppbv.

Notes:

1. MDL verification was analyzed on 8/16/24. Standard #3018-4761; 1.0ppbv, 90mL load volume; file #j081608; spike concentration of 0.45ppbv.
2. MDL spike calculated on file #91072309x

1.0ppbv MDL: Standard #3018-4652, 3018-4681, 3018-4685 (5.0ppbv); 40mL load volume. Spike amount of 1.0ppbv.

Notes:

1. MDL verification was analyzed on 8/16/24. Standard #3018-4761; 1.0ppbv,150mL load volume; file #j081609; spike concentration of 0.75ppbv. (for all 1.0-2.0ppbv RLs except Butane and Chloroethane).
2. MDL verification was analyzed on 8/21/24. Standard #3018-4681; 5.0ppbv, 50mL load volume; file #j082135; spike concentration of 1.25ppbv. (For Butane and Chloroethane only).
3. MDL spike calculated on file #91072310x
4. MDL verification for Napthalene was analyzed on 8/20/24. Standard #3380-115; 1.0ppbv, 200ml load volume; file #j082021; spike concentration of 1.0ppbv (0.10ppbv for Naphthalene).
5. MDL spike calculated on file #91072310y.

2.0ppbv MDL: Standard #3018-4770, 3018-4772, 3018-4774 (5.0ppbv); 80mL load volume. Spike amount of 2.0ppbv.

Notes:

1. MDL Verification was analyzed on 8/27/24. Standard #3018-4774 (5.0ppbv), load volume of 160mL; Spike concentration of 4.0ppbv. file #j082707.

2. MDL spike calculated on file #j082307x.

5.0ppbv MDL: Standard #3018-4652, 3018-4681, 3018-4685 (5.0ppbv); 200mL load volume. Spike amount of 5.0ppbv.

Notes:

1. MDL verification was analyzed on 8/20/24. Standard #3018-4718 (50ppbv), 19mL load volume; file #j082008; spike concentration of 4.76ppbv.
2. MDL spike calculated on file #91072311x.

The concentrations for Acetonitrile, 2-Propanol, tert-Butyl Alcohol, Vinyl Acetate, Naphthalene, Ethanol, Acrolein, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzne and Hexachlorobutadiene. were adjusted in the MDL spike recovery reports due to the certified concentration exceeding more than 10% of nominal concentration.

MDL values for the following compounds were taken from the MDL blank:

Benzene (0.087ppbv) Carbon Disulfide (0.468ppbv) 2-Propanol (0.273ppbv) n-Butanol (0.704ppbv)

Isobutane (0.472ppbv) Acetone (2.330ppbv)

The ratio of the mean recovered concentration was between 1 and 20 for all compounds except Dodecane and Acetone.

MDL Expires 8/26/25

AT-24 0.5ppbv Quad Pooled MDL

MDL Verification for 0.5ppbv MDL
Standard #3018-4761 (1.0ppbv), load volume 90mL.
Spike Concentration of 0.45ppbv, File #: j081608.

The ratio of the mean reccovered concentration and the MDL was between 1 and 20 for all compounds

Student T 2.718 for 12 Replicates with 99% Confidence

$\bar{x} = 0.156$, $2\bar{x} = 0.313$, $3\bar{x} = 0.469$, $4\bar{x} = 0.626$

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL010	MDL11	MDL12						
FILENAME:	91072309	91072409	17073008	17073108	a080109	a080607	j080508	j080608	p080809	p080909	3080835	3081207						
INJ.DATE:	23-Jul-24	24-Jul-24	30-Jul-24	31-Jul-24	1-Aug-24	6-Aug-24	5-Aug-24	6-Aug-24	8-Aug-24	9-Aug-24	9-Aug-24	12-Aug-24						
INJ.TIME:	12:39	11:39	14:10	13:40	15:46	18:20	12:32	12:30	13:08	12:53	15:17	17:24			(ppbv)		(ppbv)	(ppbv) MDL
Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL10	MDL11	MDL12	AVG CONC	STD DEV	RL	RATIO	MDL	Blank
1 Freon 12	0.449	0.487	0.629	0.608	0.545	0.534	0.554	0.514	0.467	0.526	0.567	0.541	0.535	0.053	0.500	3.740	0.143	
2 Freon 114	0.569	0.597	0.511	0.526	0.592	0.544	0.549	0.544	0.498	0.570	0.521	0.519	0.545	0.032	0.500	6.350	0.086	
3 Vinyl Chloride	0.336	0.411	0.488	0.523	0.627	0.635	0.460	0.501	0.438	0.474	0.560	0.525	0.498	0.086	0.500	2.140	0.232	
4 1,3-Butadiene	0.425	0.446	0.564	0.565	0.652	0.676	0.391	0.433	0.459	0.422	0.540	0.466	0.503	0.094	0.500	1.970	0.256	
5 Freon 11	0.552	0.602	0.563	0.540	0.569	0.527	0.532	0.544	0.540	0.533	0.543	0.550	0.550	0.021	0.500	9.870	0.056	
6 Freon 113	0.468	0.506	0.566	0.540	0.588	0.514	0.535	0.671	0.521	0.508	0.497	0.611	0.544	0.057	0.500	3.540	0.154	
7 1,1-Dichloroethene	0.437	0.508	0.514	0.491	0.527	0.467	0.504	0.397	0.486	0.486	0.573	0.525	0.493	0.045	0.500	4.000	0.123	
8 3-Chloropropene	0.397	0.447	0.404	0.538	0.504	0.426	0.474	0.529	0.419	0.469	0.705	0.580	0.491	0.088	0.500	2.040	0.240	
9 trans-1,2-Dichloroethene	0.440	0.487	0.499	0.485	0.548	0.535	0.399	0.495	0.392	0.410	0.587	0.603	0.490	0.070	0.500	2.560	0.191	
10 Acrylonitrile	0.440	0.544	0.509	0.526	0.537	0.479	0.358	0.509	0.472	0.336	0.685	0.615	0.501	0.097	0.500	1.900	0.264	*0.049*
11 Hexane	0.557	0.571	0.411	0.392	0.579	0.510	0.467	0.468	0.430	0.399	0.539	0.597	0.493	0.075	0.500	2.420	0.204	
12 1,1-Dichloroethane	0.586	0.587	0.557	0.560	0.515	0.524	0.508	0.489	0.510	0.555	0.577	0.583	0.546	0.035	0.500	5.750	0.095	
13 cis-1,2-Dichloroethene	0.460	0.477	0.415	0.569	0.586	0.480	0.482	0.488	0.464	0.429	0.529	0.572	0.496	0.056	0.500	3.270	0.152	
14 Tetrahydrofuran	0.550	0.563	0.474	0.465	0.535	0.514	0.482	0.492	0.502	0.421	0.648	0.679	0.527	0.075	0.500	2.590	0.203	
* 15 Bromochloromethane	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	
16 Chloroform	0.580	0.583	0.548	0.585	0.516	0.470	0.515	0.498	0.548	0.546	0.536	0.576	0.542	0.037	0.500	5.420	0.100	
17 Cyclohexane	0.435	0.469	0.419	0.422	0.485	0.466	0.497	0.468	0.419	0.412	0.549	0.526	0.464	0.045	0.500	3.820	0.121	
18 1,1,1-Trichloroethane	0.552	0.597	0.535	0.532	0.532	0.550	0.480	0.526	0.498	0.560	0.601	0.586	0.546	0.037	0.500	5.440	0.100	
19 Carbon Tetrachloride	0.537	0.565	0.568	0.547	0.548	0.532	0.524	0.530	0.513	0.498	0.611	0.589	0.547	0.032	0.500	6.310	0.087	
20 2,2,4-Trimethylpentane	0.550	0.570	0.450	0.451	0.537	0.524	0.455	0.457	0.389	0.390	0.551	0.545	0.489	0.064	0.500	2.790	0.175	
21 Benzene	0.550	0.550	0.544	0.566	0.541	0.528	0.591	0.596	0.529	0.567	0.550	0.586	0.558	0.023	0.500	6.414	0.063	*0.087*
$ 22 1,2-Dichloroethane-d4	30.990	31.820	26.230	25.970	25.450	24.010	24.710	24.030	25.220	25.200	24.340	24.240	26.020	2.620	25.00	3.650	7.130	
23 1,2-Dichloroethane	0.580	0.618	0.547	0.599	0.544	0.516	0.502	0.539	0.516	0.533	0.535	0.571	0.550	0.035	0.500	5.780	0.095	
24 Heptane	0.528	0.503	0.350	0.398	0.543	0.512	0.597	0.688	0.302	0.345	0.543	0.554	0.489	0.116	0.500	1.550	0.314	
* 25 1,4-Difluorobenzene	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	
26 Trichloroethene	0.573	0.577	0.523	0.534	0.550	0.523	0.577	0.569	0.501	0.558	0.589	0.556	0.552	0.027	0.500	7.530	0.073	*0.011*
27 1,2-Dichloropropane	0.560	0.555	0.484	0.561	0.506	0.522	0.525	0.568	0.489	0.492	0.580	0.627	0.539	0.044	0.500	4.560	0.118	
28 Dibromomethane	0.498	0.523	0.518	0.526	0.589	0.541	0.664	0.688	0.518	0.510	0.584	0.505	0.555	0.063	0.500	3.230	0.172	*0.042*
29 Bromodichloromethane	0.580	0.613	0.529	0.528	0.535	0.500	0.576	0.583	0.493	0.569	0.519	0.541	0.547	0.037	0.500	5.490	0.100	
30 cis-1,3-Dichloropropene	0.508	0.541	0.514	0.485	0.531	0.442	0.581	0.576	0.486	0.481	0.546	0.521	0.518	0.041	0.500	4.700	0.110	*0.016*
31 4-Methyl-2-pentanone	0.537	0.565	0.447	0.554	0.535	0.543	0.550	0.594	0.442	0.344	0.538	0.551	0.517	0.070	0.500	2.700	0.191	*0.036*
$ 32 Toluene-d8	25.320	25.840	24.630	24.730	25.200	25.090	24.940	24.680	24.440	24.680	25.570	24.780	24.990	0.422	25.00	21.780	1.150	
33 Toluene	0.571	0.577	0.505	0.522	0.532	0.529	0.581	0.579	0.469	0.493	0.576	0.588	0.543	0.040	1.000	4.940	0.110	*0.036*
34 trans-1,3-Dichloropropene	0.539	0.548	0.511	0.489	0.491	0.464	0.564	0.560	0.480	0.471	0.564	0.571	0.521	0.041	0.500	4.710	0.110	*0.022*
35 1,1,2-Trichloroethane	0.564	0.576	0.531	0.587	0.513	0.547	0.565	0.599	0.480	0.568	0.553	0.545	0.552	0.033	0.500	6.240	0.089	*0.011*
36 Tetrachloroethene	0.505	0.537	0.474	0.440	0.540	0.511	0.626	0.665	0.518	0.501	0.518	0.524	0.530	0.061	0.500	3.200	0.166	*0.048*
37 1,3-Dichloropropane	0.561	0.577	0.530	0.541	0.489	0.493	0.608	0.601	0.494	0.489	0.525	0.589	0.541	0.045	0.500	4.420	0.123	*0.014*
38 Dibromochloromethane	0.528	0.557	0.543	0.510	0.516	0.518	0.590	0.595	0.481	0.518	0.552	0.552	0.538	0.033	0.500	5.960	0.090	
39 1,2-Dibromoethane (EDB)	0.546	0.600	0.524	0.520	0.487	0.532	0.551	0.560	0.512	0.475	0.559	0.514	0.532	0.034	0.500	5.730	0.093	*0.019*
* 40 Chlorobenzene-d5	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	

41 Chlorobenzene	0.504	0.523	0.507	0.517	0.543	0.531	0.566	0.550	0.481	0.549	0.541	0.564	0.531	0.026	0.500	7.590	0.070	
42 Ethyl Benzene	0.528	0.540	0.444	0.472	0.622	0.514	0.540	0.551	0.388	0.395	0.566	0.530	0.507	0.070	0.500	2.670	0.190	
43 1,1,1,2-Tetrachloroethane	0.524	0.537	0.521	0.485	0.511	0.507	0.563	0.543	0.505	0.559	0.590	0.530	0.531	0.029	0.500	6.670	0.080	
44 m,p-Xylene	0.538	0.580	0.449	0.463	0.513	0.504	0.530	0.497	0.410	0.354	0.540	0.565	0.495	0.066	1.000	2.770	0.179	*0.027*
45 o-Xylene	0.537	0.549	0.409	0.394	0.509	0.490	0.510	0.506	0.399	0.361	0.492	0.527	0.474	0.065	0.500	2.700	0.175	
46 Styrene	0.555	0.568	0.390	0.395	0.500	0.484	0.497	0.479	0.357	0.325	0.526	0.515	0.466	0.080	0.500	2.150	0.216	*0.016*
47 Bromoform	0.522	0.536	0.519	0.467	0.535	0.460	0.639	0.669	0.483	0.527	0.524	0.548	0.536	0.062	0.500	3.170	0.169	
48 Cumene	0.532	0.541	0.361	0.364	0.529	0.506	0.513	0.491	0.350	0.343	0.518	0.517	0.464	0.082	0.500	2.090	0.222	
$ 49 4-Bromofluorobenzene	25.350	25.150	23.120	23.150	25.510	24.300	24.450	24.480	23.790	22.450	25.020	24.860	24.300	0.982	25.00	9.110	2.670	
50 1,1,2,2-Tetrachloroethane	0.561	0.551	0.513	0.538	0.527	0.467	0.614	0.583	0.519	0.522	0.513	0.524	0.536	0.038	0.500	5.230	0.103	*0.012*
51 Propylbenzene	0.532	0.503	0.439	0.457	0.548	0.515	0.529	0.519	0.385	0.380	0.558	0.527	0.491	0.061	0.500	2.960	0.166	
52 1,2,3-Trichloropropane	0.571	0.605	0.574	0.537	0.548	0.520	0.598	0.593	0.480	0.453	0.582	0.539	0.550	0.047	0.500	4.280	0.129	
53 4-Ethyltoluene	0.516	0.596	0.414	0.376	0.556	0.594	0.588	0.523	0.312	0.354	0.511	0.523	0.489	0.099	0.500	1.810	0.269	*0.017*
54 1,3,5-Trimethylbenzene	0.499	0.552	0.408	0.391	0.524	0.524	0.503	0.524	0.318	0.363	0.509	0.531	0.470	0.078	0.500	2.220	0.212	*0.009*
55 1,2,4-Trimethylbenzene	0.491	0.578	0.332	0.379	0.505	0.548	0.493	0.499	0.324	0.306	0.450	0.494	0.450	0.092	0.500	1.810	0.249	*0.019*
56 sec-Butylbenzene	0.460	0.494	0.369	0.425	0.526	0.544	0.505	0.479	0.325	0.313	0.478	0.487	0.450	0.076	0.500	2.170	0.208	
57 p-Cymene	0.510	0.524	0.379	0.340	0.521	0.516	0.519	0.513	0.320	0.316	0.495	0.500	0.454	0.087	0.500	1.920	0.237	
58 1,3-Dichlorobenzene	0.516	0.526	0.455	0.447	0.550	0.556	0.598	0.600	0.408	0.406	0.506	0.516	0.507	0.066	0.500	2.830	0.179	*0.027*
59 1,4-Dichlorobenzene	0.503	0.514	0.427	0.445	0.524	0.527	0.590	0.563	0.393	0.392	0.504	0.464	0.487	0.064	0.500	2.820	0.173	*0.021*
60 alpha-Chlorotoluene	0.541	0.547	0.428	0.426	0.471	0.426	0.534	0.488	0.384	0.361	0.468	0.473	0.462	0.060	0.500	2.840	0.163	
61 Butylbenzene	0.457	0.484	0.353	0.390	0.497	0.497	0.510	0.475	0.320	0.348	0.478	0.494	0.442	0.069	0.500	2.360	0.187	
62 1,2-Dichlorobenzene	0.525	0.522	0.453	0.463	0.527	0.520	0.608	0.570	0.401	0.409	0.532	0.498	0.502	0.061	0.500	3.020	0.166	*0.025*

Reviewer 1 _____ Date: 9/29/24

Reviewer 2 _____ Date: 9/29/24

AT-24 1.0ppbv Quad Pooled MDL

MDL Verification for 1.0ppbv compounds except Butane and Chloroethane, Standard #3018-4761 (1.0ppbv), load volume 150mL. Spike Concentration of 0.75ppbv, file #j081609. Butane and Chloroethane, Standard #3018-4681 (5.0ppbv), load volume 50mL. Spike Concentration of 1.25ppbv, file #j082135.

The ratio of the mean reccovered concentration and the MDL was between 1 and 20 for all compounds except Dodecane.

Student T 2.718 for 12 Replicates with 99% Confidence

$\bar{x} = 0.373$, $2\bar{x} = 0.746$, $3\bar{x} = 1.119$, $4\bar{x} = 1.492$

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL010	MDL11	MDL12						
FILENAME:	91072310	91072410	17073009	17073109	a080110	a080608	j080509	j080609	p080810	p080910	3080836	3081208						
INJ.DATE:	23-Jul-24	24-Jul-24	30-Jul-24	31-Jul-24	1-Aug-24	6-Aug-24	5-Aug-24	6-Aug-24	8-Aug-24	9-Aug-24	9-Aug-24	12-Aug-24						
INJ.TIME:	13:03	12:02	14:34	14:03	16:19	18:54	12:55	12:53	13:37	13:21	15:44	17:52						
Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL10	MDL11	MDL12	AVG CONC	STD DEV	(ppbv) RL	RATIO	(ppbv) MDL	(ppbv) *MDL Blank*
1 Freon 134a	0.828	0.966	1.090	1.120	0.952	1.080	0.912	0.932	1.170	1.230	1.110	1.020	1.030	0.119	2.000	3.210	0.322	
2 Propylene	0.954	1.040	1.090	1.210	0.985	1.120	0.889	1.060	1.220	1.320	1.110	1.090	1.090	0.119	2.000	3.370	0.323	
3 1,1-Difluoroethane	0.925	1.380	1.110	1.060	0.916	0.915	0.878	0.936	1.060	1.130	1.090	1.150	1.050	0.143	2.000	2.700	0.388	
4 Chlorodifluoromethane	0.878	1.140	0.998	0.948	0.767	1.010	0.800	0.640	1.120	0.942	1.670	1.190	1.010	0.263	2.000	1.410	0.714	
5 Isobutane	1.190	1.260	1.090	1.010	0.930	1.070	1.000	1.040	1.220	1.183	1.100	1.030	1.094	0.129	2.000	2.318	0.273	*0.472*
6 Butane	0.990	1.070	0.943	1.030	0.747	1.200	0.878	0.926	0.893	0.760	1.360	1.210	1.000	0.185	2.000	1.990	0.504	
7 Bromomethane	0.882	0.970	1.080	1.110	0.974	1.060	1.070	1.080	0.755	1.350	1.170	1.030	1.040	0.147	2.000	2.610	0.400	
8 Chloroethane	0.984	1.050	1.190	1.150	0.938	1.190	1.040	1.030	1.340	1.490	1.250	1.110	1.150	0.158	2.000	2.670	0.429	
9 Isopentane	1.170	1.160	1.100	0.967	1.080	1.260	0.888	1.040	1.150	1.130	1.240	1.250	1.120	0.113	2.000	3.640	0.308	
10 Vinyl Bromide	0.863	0.949	1.050	0.964	0.892	1.160	0.946	1.020	1.040	0.961	1.070	1.040	0.997	0.083	2.000	4.420	0.226	
11 Dichlorofluoromethane	1.070	1.210	1.140	1.110	0.933	1.100	1.030	1.170	1.070	1.100	1.030	1.010	1.080	0.074	2.000	5.400	0.200	
12 Pentane	1.120	1.130	1.030	0.938	1.050	1.240	0.937	0.994	1.000	1.120	1.100	1.140	1.070	0.091	2.000	4.330	0.247	
13 Acrolein	1.170	0.765	0.681	1.170	0.567	1.090	0.784	0.415	0.987	0.763	0.566	0.888	0.820	0.247	2.000	1.220	0.671	*0.143*
14 Carbon Disulfide	1.000	1.100	1.260	1.190	0.899	0.977	1.060	1.160	1.140	1.180	1.060	0.986	1.090	0.107	2.000	2.329	0.290	*0.468*
15 2-Propanol	1.060	1.180	1.110	1.130	1.080	1.160	1.050	1.110	1.320	1.210	1.260	1.300	1.160	0.091	2.000	4.249	0.247	*0.273*
16 Methylene Chloride	1.040	1.210	1.120	1.080	0.951	1.120	0.951	1.010	1.100	1.210	0.967	1.030	1.070	0.090	2.000	4.380	0.243	*0.21*
17 tert-Butyl alcohol	1.030	1.110	1.040	1.120	0.961	1.080	1.120	1.030	0.942	1.050	1.230	1.320	1.090	0.106	2.000	3.760	0.289	
18 Methyl tert-butyl ether	0.949	1.030	0.861	0.787	0.839	0.931	0.983	0.994	0.833	0.775	1.050	1.090	0.927	0.107	2.000	3.200	0.290	
19 Isopropyl ether	1.110	1.170	0.849	0.841	0.903	1.000	0.857	0.879	0.878	0.802	1.090	1.050	0.952	0.124	2.000	2.830	0.336	
20 Vinyl Acetate	1.030	0.820	0.759	0.839	0.810	0.854	0.597	0.822	0.533	0.482	1.030	1.050	0.802	0.188	2.000	1.570	0.510	
21 Ethyl-tert-butyl ether	0.971	1.040	0.803	0.817	0.884	0.987	0.878	0.918	0.830	0.665	1.040	1.040	0.907	0.117	2.000	2.860	0.317	
22 2,2-Dichloropropane	1.020	1.030	1.050	0.981	1.050	0.923	1.000	1.010	1.030	0.911	1.160	1.080	1.020	0.066	2.000	5.700	0.179	
23 2-Butanone	0.976	1.120	1.070	0.855	1.240	1.020	0.792	1.010	0.875	0.881	1.160	0.980	0.999	0.135	2.000	2.710	0.368	*0.244*
24 Ethyl Acetate	0.933	1.040	1.120	1.090	1.060	1.070	0.933	0.996	1.170	1.320	1.400	1.270	1.120	0.148	2.000	2.770	0.403	
* 25 Bromochloromethane	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	
26 1,1-Dichloropropene	1.040	1.040	0.981	0.983	1.040	0.990	0.987	1.040	0.898	0.884	1.160	0.872	0.993	0.081	2.000	4.510	0.220	
$ 27 1,2-Dichloroethane-d4	30.240	31.160	25.400	25.820	21.290	24.200	24.150	24.500	24.830	25.320	24.310	23.820	25.420	2.720	25.00	3.440	7.400	
28 tert-Amyl methyl ether	1.010	1.030	0.827	0.905	0.868	1.010	1.050	1.080	0.742	0.765	1.100	1.040	0.952	0.125	2.000	2.800	0.339	
* 29 1,4-Difluorobenzene	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	
30 n-Butanol	1.010	1.060	1.490	1.480	0.955	0.867	1.110	1.100	0.855	0.820	1.080	1.100	1.080	0.215	2.000	1.534	0.585	*0.704*
31 Methylcyclohexane	0.979	1.070	0.948	0.870	0.890	1.010	1.030	1.030	0.912	0.907	1.040	1.060	0.978	0.070	2.000	5.120	0.191	
32 Methyl Methacrylate	1.170	1.160	0.862	0.840	0.757	0.968	0.952	1.060	0.789	0.837	0.939	0.964	0.941	0.135	2.000	2.570	0.366	
33 1,4-Dioxane	1.000	1.100	0.866	0.987	0.974	0.956	1.140	1.130	0.856	0.837	1.090	1.060	1.000	0.107	2.000	3.430	0.291	
34 1-Bromo-2-Chloroethane	1.080	1.130	1.020	1.080	1.040	0.952	1.140	1.210	1.030	1.080	1.020	1.000	1.070	0.069	2.000	5.690	0.187	
$ 35 Toluene-d8	25.450	25.460	25.580	25.050	25.130	25.380	24.700	24.820	24.330	24.470	25.630	25.530	25.130	0.453	2.000	20.410	1.230	
36 Octane	1.110	1.170	0.967	0.876	1.050	0.968	1.040	1.060	0.872	0.862	1.080	1.030	1.010	0.100	2.000	3.720	0.271	
37 2-Hexanone	1.070	1.150	0.822	0.769	0.731	0.971	0.984	0.964	0.714	0.718	0.935	0.915	0.896	0.145	2.000	2.280	0.393	
* 38 Chlorobenzene-d5	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	
39 Nonane	1.150	1.180	0.807	0.784	1.030	1.010	0.980	1.030	0.803	0.787	1.000	0.957	0.960	0.137	2.000	2.570	0.373	
40 Cyclohexanone	0.713	0.872	0.790	0.563	1.060	0.998	1.020	1.050	0.696	0.720	1.200	1.110	0.900	0.201	2.000	1.650	0.547	*0.144*

$ 41 4-Bromofluorobenzene	25.550	25.000	23.630	23.460	24.300	24.240	24.590	24.680	23.530	23.210	25.190	25.070	24.370	0.771	25.00	11.630	2.090	
42 Bromobenzene	0.888	0.906	0.925	1.000	0.952	1.070	1.160	1.170	0.921	0.980	1.030	1.020	1.000	0.093	2.000	3.950	0.254	*0.016*
43 2-Chlorotoluene	1.040	1.050	0.937	0.859	0.897	1.140	1.060	1.090	0.813	0.871	0.989	0.908	0.971	0.104	2.000	3.430	0.283	*0.013*
44 Decane	1.240	1.270	0.817	0.781	0.774	0.924	1.120	1.100	0.847	0.803	0.967	0.969	0.966	0.175	2.000	2.030	0.477	*0.261*
45 alpha Methyl Styrene	0.998	0.965	0.732	0.696	0.744	0.972	0.948	0.956	0.711	0.710	0.944	0.896	0.856	0.124	2.000	2.540	0.337	
46 tert-Butylbenzene	1.050	1.070	0.782	0.753	0.865	1.070	1.040	1.030	0.704	0.770	0.901	0.927	0.914	0.138	2.000	2.440	0.374	
47 Undecane	1.170	1.190	0.875	0.860	0.702	0.936	1.020	0.987	0.597	0.591	1.020	0.983	0.910	0.197	2.000	1.700	0.536	*0.089*
48 1,2-Dibromo-3-chloropropar	0.973	0.970	0.913	0.950	0.699	0.899	1.170	1.100	0.827	0.931	0.936	0.914	0.940	0.118	2.000	2.930	0.321	*0.027*
49 Dodecane	0.986	1.000	0.327	0.327	0.643	0.789	0.889	0.814	0.368	0.352	0.897	0.783	0.681	0.267	2.000	0.939	0.726	*0.043*
50 1,2,4-Trichlorobenzene	1.070	1.030	0.919	0.925	0.811	0.988	1.340	1.250	0.719	0.737	1.100	1.030	0.994	0.189	2.000	1.930	0.515	*0.061*
51 Hexachlorobutadiene	1.220	1.140	1.020	1.080	0.828	0.900	1.090	1.010	0.872	0.955	0.994	1.020	1.010	0.113	2.000	3.280	0.308	*0.031*
53 1,2,3-Trichlorobenzene	1.130	1.090	0.932	1.010	0.765	0.960	1.360	1.250	0.639	0.695	1.060	1.030	0.994	0.215	2.000	1.700	0.584	*0.044*

Reviewer 1 _____ Date: 8/29/24

Reviewer 2 _____ Date: 8/29/24

AT-24 0.1ppbv Quad Pooled MDL (Naph Only)

MDL Verification for 0.1ppbv
Standard #3018-4681, load volume 50mL.
Spike Concentration of 0.100ppbv, File #: j082021.

The ratio of the mean reccovered concentration and the MDL was between 1 and 20 for all compounds

Student T 2.718 for 12 Replicates with 99% Confidence

$\bar{x} = 0.049$, $2\bar{x} = 0.098$, $3\bar{x} = 0.147$, $4\bar{x} = 0.196$

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL010	MDL11	MDL12						
FILENAME:	91072310a	91072410a	17073009a	17073109a	a080110a	a080608a	j080509a	j080609a	p080810a	p080910a	3080836a	3081208a						
INJ.DATE:	23-Jul-24	24-Jul-24	30-Jul-24	31-Jul-24	1-Aug-24	6-Aug-24	5-Aug-24	6-Aug-24	8-Aug-24	9-Aug-24	9-Aug-24	12-Aug-24						
INJ.TIME:	13:03	12:02	14:34	14:03	16:19	18:54	12:55	12:53	13:37	13:21	15:44	17:52			(ppbv)		(ppbv)	(ppbv) MDL
Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL10	MDL11	MDL12	AVG CONC	STD DEV	RL	RATIO	MDL	*Blank*
* 25 Bromochloromethane	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	
$ 27 1,2-Dichloroethane-d4	30.240	31.160	25.400	25.820	21.290	24.200	24.150	24.500	24.830	25.320	24.310	23.820	25.420	2.720	25.00	3.440	7.400	
* 29 1,4-Difluorobenzene	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	
$ 35 Toluene-d8	25.450	25.460	25.580	25.050	25.130	25.380	24.700	24.820	24.330	24.470	25.630	25.530	25.130	0.453	2.000	20.410	1.230	
* 38 Chlorobenzene-d5	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.00	1.000	0.000	
$ 41 4-Bromofluorobenzene	25.550	25.000	23.630	23.460	24.300	24.240	24.590	24.680	23.530	23.210	25.190	25.070	24.370	0.771	25.00	11.630	2.090	
52 Naphthalene	0.113	0.110	0.098	0.100	0.077	0.100	0.111	0.103	0.054	0.071	0.105	0.098	0.095	0.018	1.000	1.940	0.049	*0.014*

Reviewer 1 _____ Date: 8/29/24
Reviewer 2 _____ Date: 8/29/24

AT-24 2.0ppbv Quad Pooled MDL

MDL Verification for 2.0ppbv MDL. Standard #3018-4774 (5.0ppbv), load volume of 160mL.
Spike Concentration of 4.0ppbv for, File#: j082707.

The ratio of the mean reccovered concentration and the MDL was between 1 and 20 for all compound except Acetone.

Student T 2.718 for 12 Replicates with 99% Confidence

$\bar{x}$ = 1.682, 2$\bar{x}$ = 3.364, 3$\bar{x}$ = 5.046, 4$\bar{x}$ = 6.728

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL010	MDL11	MDL12						
FILENAME:	J082307	J082406	17082309	17082607	P082308	P082406	91082408	91082608	A082407	A082607	3082308	3082606						
INJ.DATE:	23-Aug-24	24-Aug-24	23-Aug-24	26-Aug-24	23-Aug-24	24-Aug-24	24-Aug-24	26-Aug-24	24-Aug-24	26-Aug-24	23-Aug-24	26-Aug-24						
INJ.TIME:	11:50	1:24	1:01	1:16	1:39	1:53	12:28	11:53	2:35	12:32	3:16	2:18						(ppbv)
Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL10	MDL11	MDL12	AVG CONC	STD DEV	(ppbv) RL	RATIO	(ppbv) MDL	*MDL Blank*
2 Ethanol	2.512	2.540	2.806	2.876	2.053	1.826	2.760	2.848	2.253	2.176	2.964	2.892	2.542	0.381	5.000	2.458	1.034	
3 Acetone	1.882	1.867	1.884	1.964	2.398	2.218	2.454	2.561	1.879	1.652	2.065	2.151	2.081	0.279	5.000	0.893	0.759	*2.330*
* 5 Bromochloromethane	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	5.000	1.000	0.000	
$ 6 1,2-Dichloroethane-d4	26.023	25.570	23.716	23.341	23.671	23.933	28.028	27.451	26.023	27.800	24.878	24.779	25.434	1.666	5.000	5.616	4.529	
* 7 1,4-Difluorobenzene	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	5.000	1.000	0.000	
$ 8 Toluene-d8	25.772	25.823	24.292	24.088	23.173	23.454	25.490	25.223	25.383	24.860	24.718	25.329	24.800	0.879	5.000	10.380	2.389	
* 9 Chlorobenzene-d5	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	5.000	1.000	0.000	
$ 10 4-Bromofluorobenzene	24.155	24.120	24.896	26.394	25.859	25.251	24.245	24.413	24.677	25.388	25.395	24.985	24.982	0.711	5.000	12.922	1.933	

Reviewer 1 _____ Date: 8/29/24

Reviewer 2 _____ Date: 8/29/24

AT-24 5.0ppbv Quad Pooled MDL

MDL Verification for 5.0ppbv MDL. Standard #3018-4718 (50ppbv), load volumes of 19mL.
Spike Concentration of 4.76ppbv. File#: j082008.

The ratio of the mean reccovered concentration and the MDL was between 1 and 20 for all compounds

Student T 2.718 for 12 Replicates with 99% Confidence

$\bar{x}$ = 2.142, $2\bar{x}$ = 4.284, $3\bar{x}$ = 6.426, $4\bar{x}$ = 8.568

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL010	MDL11	MDL12						
FILENAME:	91072311	91072411	17073010	17073110	a080111	a080609	j080510	j080610	p080811	p080911	3080837	3081209						
INJ.DATE:	23-Jul-24	24-Jul-24	30-Jul-24	31-Jul-24	1-Aug-24	6-Aug-24	5-Aug-24	6-Aug-24	8-Aug-24	9-Aug-24	9-Aug-24	12-Aug-24						(ppbv)
INJ.TIME:	13:29	12:28	15:01	14:29	16:56	19:31	13:21	13:19	14:09	13:53	16:15	18:22			(ppbv)		(ppbv)	*MDL*
Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL10	MDL11	MDL12	AVG CONC	STD DEV	RL	RATIO	MDL	*Blank*
1 Chloromethane	6.390	7.460	4.960	4.960	4.830	5.430	5.810	6.080	5.500	5.950	4.416	5.033	5.568	0.833	5.000	2.417	2.266	*0.066*
4 Acetonitrile	6.160	7.790	6.420	6.840	5.990	5.970	7.640	7.970	6.710	6.580	6.413	5.770	6.688	0.743	5.000	3.310	2.019	
* 5 Bromochloromethane	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	5.000	1.000	0.000	
$ 6 1,2-Dichloroethane-d4	29.160	30.390	25.310	25.180	26.350	24.550	24.930	24.380	25.310	25.390	24.460	24.180	25.800	1.960	5.000	4.830	5.340	
* 7 1,4-Difluorobenzene	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	5.000	1.000	0.000	
$ 8 Toluene-d8	24.980	25.160	25.530	25.770	25.700	24.830	25.490	25.020	23.780	24.360	24.880	24.780	25.020	0.573	5.000	16.070	1.560	
* 9 Chlorobenzene-d5	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	5.000	1.000	0.000	
$ 10 4-Bromofluorobenzene	24.970	24.570	24.890	25.260	30.770	24.400	24.940	24.940	25.330	25.360	25.410	25.210	25.500	1.690	5.000	5.560	4.580	

Reviewer 1 _____ Date: 8/29/24

Reviewer 2 _____ Date: 8/29/24

BLANK METHOD DETECTION LIMIT SUMMARY REPORT

Student T 2.718 for 12 Replicates with 99% Confidence

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL010	MDL11	MDL12						
FILENAME:	91072308EPALB	91081207EPALB	17073007EPALB	17073107EPALB	a080606EPALB	a080707EPALB	j080507EPALB	j080607EPALB	p080908EPALB	p081309EPALB	3080834EPALB	3081206EPALB						
INJ.DATE:	23-Jul-24	12-Aug-24	30-Jul-24	31-Jul-24	6-Aug-24	7-Aug-24	5-Aug-24	6-Aug-24	9-Aug-24	13-Aug-24	9-Aug-24	12-Aug-24						
INJ.TIME:	12:15	12:13	12:20	12:34	17:47	20:53	12:08	12:07	12:25	14:10	14:50	16:58						
Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	MDL09	MDL10	MDL11	MDL12	AVG CONC	STD DEV	MAX	RL	CAL MDL	MDL
1 Freon 134a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000
2 Propylene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
3 1,1-Difluoroethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
4 Freon 12	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000
5 Chlorodifluoromethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
6 Freon 114	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
7 Isobutane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.472	0.335	0.000	0.000	0.404	0.097	0.472	2.000	0.000	0.472
8 Chloromethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.066	0.000	0.000	0.000	0.006	0.019	0.066	0.500	0.052	0.066
9 Butane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
10 Vinyl Chloride	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
11 1,3-Butadiene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
12 Bromomethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
13 Chloroethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
14 Isopentane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
15 Vinyl Bromide	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
16 Dichlorofluoromethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
17 Freon 11	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
18 Pentane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
19 Ethanol	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
20 Freon 113	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
21 Acrolein	0.143	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.041	0.143	0.400	0.112	0.143
22 1,1-Dichloroethene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
23 Acetone	1.740	1.540	0.564	1.180	1.310	0.201	1.060	0.289	1.270	1.070	0.379	0.544	0.928	0.514	1.740	0.400	1.400	2.330
24 Carbon Disulfide	0.051	0.342	0.183	0.173	0.018	0.003	0.154	0.132	0.280	0.321	0.033	0.064	0.146	0.119	0.342	0.400	0.322	0.468
25 2-Propanol	0.000	0.000	0.226	0.262	0.126	0.127	0.000	0.000	0.069	0.095	0.000	0.273	0.098	0.106	0.273	2.000	0.289	0.273
26 3-Chloropropene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
27 Acetonitrile	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
28 Methylene Chloride	0.000	0.000	0.000	0.043	0.210	0.193	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.078	0.210	0.400	0.212	0.210
29 tert-Butyl alcohol	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
30 Methyl tert-butyl ether	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
31 trans-1,2-Dichloroethene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
32 Acrylonitrile	0.000	0.000	0.000	0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.014	0.049	0.400	0.039	0.049
33 Hexane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
34 1,1-Dichloroethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
35 Isopropyl ether	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
36 Vinyl Acetate	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
37 Ethyl-tert-butyl ether	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
38 2,2-Dichloropropane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
39 cis-1,2-Dichloroethene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
40 2-Butanone	0.244	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.070	0.244	0.400	0.191	0.244
41 Ethyl Acetate	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
42 Tetrahydrofuran	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000

* 43 Bromochloromethane	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.000	0.500	0.000	25.000
44 Chloroform	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
45 Cyclohexane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
46 1,1,1-Trichloroethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
47 Carbon Tetrachloride	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
48 1,1-Dichloropropene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
49 Benzene	0.000	0.000	0.038	0.057	0.000	0.000	0.000	0.000	0.087	0.000	0.000	0.000	0.015	0.029	0.087	0.400	0.080	0.087
50 2,2,4-Trimethylpentane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
$ 51 1,2-Dichloroethane-d4	30.320	29.240	25.600	24.940	25.270	25.550	24.700	24.410	25.410	25.670	24.600	24.310	25.840	1.920	30.320	0.500	5.210	31.050
52 1,2-Dichloroethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
53 tert-Amyl methyl ether	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
54 Heptane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
* 55 1,4-Difluorobenzene	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.000	0.500	0.000	25.000
56 Trichloroethene	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.011	0.400	0.008	0.011
57 n-Butanol	0.143	0.704	0.604	0.568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.168	0.280	0.704	0.400	0.762	0.704
58 Methylcyclohexane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
59 1,2-Dichloropropane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
60 Methyl Methacrylate	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
61 1,4-Dioxane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
62 Dibromomethane	0.022	0.000	0.017	0.033	0.033	0.023	0.042	0.000	0.000	0.000	0.028	0.030	0.019	0.015	0.042	0.400	0.042	0.042
63 Bromodichloromethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
64 1-Bromo-2-Chloroethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.000	0.000	0.000
65 cis-1,3-Dichloropropene	0.000	0.000	0.000	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.005	0.016	0.400	0.012	0.016
66 4-Methyl-2-pentanone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
$ 67 Toluene-d8	24.730	25.660	25.510	25.290	25.470	25.800	24.730	24.610	23.710	26.200	25.040	24.790	25.130	0.668	26.200	0.500	1.810	26.940
68 Toluene	0.000	0.000	0.018	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.006	0.011	0.036	0.400	0.031	0.036
69 Octane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
70 trans-1,3-Dichloropropene	0.000	0.000	0.000	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.006	0.022	0.400	0.017	0.022
71 1,1,2-Trichloroethane	0.000	0.000	0.000	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.011	0.400	0.009	0.011
72 Tetrachloroethene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.000	0.000	0.000	0.000	0.004	0.014	0.048	0.400	0.037	0.048
73 1,3-Dichloropropane	0.000	0.000	0.000	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.014	2.000	0.011	0.014
74 2-Hexanone	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
75 Dibromochloromethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
76 1,2-Dibromoethane (EDB)	0.000	0.000	0.000	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.006	0.019	0.400	0.015	0.019
* 77 Chlorobenzene-d5	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	0.000	25.000	0.500	0.000	25.000
78 Chlorobenzene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
79 Ethyl Benzene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
80 1,1,1,2-Tetrachloroethane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.000	0.000	0.000
81 Nonane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
82 m,p-Xylene	0.000	0.000	0.023	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.005	0.010	0.027	0.400	0.028	0.027
83 o-Xylene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
84 Styrene	0.000	0.000	0.011	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.003	0.006	0.016	0.400	0.016	0.016
85 Bromoform	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
86 Cumene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
87 Cyclohexanone	0.144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.042	0.144	0.400	0.113	0.144
$ 88 4-Bromofluorobenzene	25.100	26.400	23.040	23.250	24.280	24.290	24.470	24.280	22.290	21.980	25.050	25.200	24.140	1.290	26.400	0.500	3.500	27.640
89 Bromobenzene	0.000	0.000	0.016	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.006	0.016	2.000	0.017	0.016
90 1,1,2,2-Tetrachloroethane	0.000	0.000	0.012	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.005	0.012	0.400	0.013	0.012
91 Propylbenzene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
92 1,2,3-Trichloropropane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
93 2-Chlorotoluene	0.000	0.000	0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.004	0.013	0.400	0.010	0.013
94 4-Ethyltoluene	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.005	0.017	0.400	0.013	0.017
95 Decane	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.261	0.000	0.000	0.000	0.022	0.075	0.261	0.400	0.204	0.261
96 1,3,5-Trimethylbenzene	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.003	0.009	0.400	0.007	0.009
97 alpha Methyl Styrene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000

98 tert-Butylbenzene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
99 1,2,4-Trimethylbenzene	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.002	0.006	0.019	0.400	0.016	0.019
100 sec-Butylbenzene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
101 p-Cymene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
102 1,3-Dichlorobenzene	0.000	0.000	0.016	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.027	0.005	0.010	0.027	0.400	0.026	0.027
103 1,4-Dichlorobenzene	0.000	0.000	0.013	0.021	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.006	0.009	0.021	0.400	0.024	0.021
104 alpha-Chlorotoluene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
105 Butylbenzene	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.000	0.000
106 Undecane	0.000	0.000	0.000	0.009	0.025	0.045	0.000	0.000	0.089	0.000	0.012	0.021	0.009	0.014	0.089	0.400	0.039	0.089
107 1,2-Dichlorobenzene	0.000	0.000	0.000	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.007	0.025	0.400	0.019	0.025
108 1,2-Dibromo-3-chloropropa	0.000	0.000	0.000	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.008	0.027	2.000	0.021	0.027
109 Dodecane	0.000	0.000	0.000	0.004	0.011	0.021	0.000	0.000	0.043	0.037	0.011	0.039	0.014	0.017	0.043	0.400	0.046	0.043
110 1,2,4-Trichlorobenzene	0.012	0.022	0.031	0.035	0.032	0.043	0.044	0.046	0.035	0.022	0.018	0.033	0.031	0.011	0.046	0.400	0.029	0.061
111 Hexachlorobutadiene	0.000	0.000	0.031	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.011	0.031	0.400	0.028	0.031
112 Naphthalene	0.000	0.000	0.008	0.004	0.006	0.014	0.009	0.008	0.007	0.014	0.000	0.005	0.006	0.005	0.014	0.400	0.013	0.014
113 1,2,3-Trichlorobenzene	0.000	0.000	0.034	0.044	0.041	0.041	0.000	0.039	0.000	0.000	0.022	0.038	0.022	0.020	0.044	0.400	0.054	0.044

Reviewer 1 _____ Date: 8/29/24

Reviewer 2 _____ Date: 8/29/24

eurofins | Air Toxics

Client ID:	CCV		
Lab ID:	2410702B-37A	**Date/Time Analyzed:**	11/11/24 09:37 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msda.i / a111103

Compound	CAS#	%Recovery
1,1-Dichloroethene	75-35-4	102
1,4-Dichlorobenzene	106-46-7	99
Benzene	71-43-2	106
cis-1,2-Dichloroethene	156-59-2	104
Ethyl Benzene	100-41-4	102
m,p-Xylene	108-38-3	104
o-Xylene	95-47-6	106
Toluene	108-88-3	103
trans-1,2-Dichloroethene	156-60-5	102
Trichloroethene	79-01-6	100
Vinyl Chloride	75-01-4	102

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	92
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	104

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111103.d
Lab Smp Id: CCV Client Smp ID: CCv
Inj Date : 11-NOV-2024 09:37
Operator : MS Inst ID: msda.i
Smp Info : 50mL 3018-4905
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 14:08 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	265167	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	208812			46.45- 106.45	78.75
5.428	5.428 (1.000)	49	564660			167.12- 227.12	212.95
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	973920	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	160085			0.00- 46.36	16.44
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	894091	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	504479			27.12- 87.12	56.42
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	424197	25.0000	22.995	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	238552			23.36- 83.36	56.24
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.210)	98	1057960	25.0000	26.054	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	119914			0.00- 41.92	11.33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.210)	100	719795			39.07- 99.07	68.04
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	568735	25.0000	23.854	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	711449			89.27- 149.27	125.09
10.292	10.292 (1.125)	176	561891			66.29- 126.29	98.80
6 Freon 134a					CAS #: 811-97-2		
1.381	1.381 (0.254)	83	557717	50.0000	48.161	80.00- 120.00	100.00
1.381	1.381 (0.254)	69	471642			41.53- 101.53	84.57
1.381	1.381 (0.254)	63	74675			0.00- 42.30	13.39
8 Propylene					CAS #: 115-07-1		
1.417	1.417 (0.261)	41	627494	50.0000	53.784	80.00- 120.00	100.00
1.417	1.417 (0.261)	42	413106			38.18- 98.18	65.83
1.417	1.417 (0.261)	39	429902			40.18- 100.18	68.51
9 1,1-Difluoroethane					CAS #: 75-37-6		
1.431	1.431 (0.264)	65	363410	50.0000	54.082	80.00- 120.00	100.00
1.474	1.474 (0.272)	51	1337454			362.20- 422.20	368.03
1.431	1.431 (0.264)	47	237693			41.18- 101.18	65.41
10 Freon 12					CAS #: 75-71-8		
1.445	1.445 (0.266)	85	1468664	50.0000	46.505	80.00- 120.00	100.00
1.445	1.445 (0.266)	87	470200			1.90- 61.90	32.02
12 Chlorodifluoromethane					CAS #: 75-45-6		
1.474	1.474 (0.272)	67	153984	50.0000	47.593	80.00- 120.00	100.00(Q)
1.474	1.474 (0.272)	51	1337454			756.67- 816.67	868.57
15 Freon 114					CAS #: 76-14-2		
1.560	1.560 (0.287)	135	1021783	50.0000	48.432	80.00- 120.00	100.00
1.560	1.560 (0.287)	137	329616			1.76- 61.76	32.26
16 Isobutane					CAS #: 75-28-5		
1.567	1.567 (0.289)	43	1435396	50.0000	55.272	80.00- 120.00	100.00
1.567	1.567 (0.289)	42	470176			2.85- 62.85	32.76
1.567	1.567 (0.289)	58	50471			0.00- 33.52	3.52
17 Chloromethane					CAS #: 74-87-3		
1.632	1.632 (0.301)	50	691423	50.0000	62.355	80.00- 120.00	100.00
1.632	1.632 (0.301)	52	227365			2.14- 62.14	32.88
22 Butane					CAS #: 106-97-8		
1.703	1.703 (0.314)	58	134383	50.0000	56.382	80.00- 120.00	100.00(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
22 Butane (continued)							
1.703	1.703 (0.314)	43	1050014			706.79- 766.79	781.36
24 Vinyl Chloride					CAS #: 75-01-4		
1.739	1.739 (0.320)	62	584664	50.0000	51.264	80.00- 120.00	100.00
1.739	1.739 (0.320)	64	175305			0.00- 59.56	29.98
25 1,3-Butadiene					CAS #: 106-99-0		
1.760	1.760 (0.324)	54	578813	50.0000	54.021	80.00- 120.00	100.00
1.760	1.760 (0.324)	39	539531			64.19- 124.19	93.21
29 Bromomethane					CAS #: 74-83-9		
2.097	2.097 (0.386)	94	504757	50.0000	57.575	80.00- 120.00	100.00
2.097	2.097 (0.386)	96	470850			63.72- 123.72	93.28
30 Chloroethane					CAS #: 75-00-3		
2.205	2.205 (0.406)	64	356887	50.0000	58.081	80.00- 120.00	100.00
2.205	2.205 (0.406)	66	103586			0.20- 60.20	29.02
2.205	2.205 (0.406)	49	127760			7.38- 67.38	35.80
31 Isopentane					CAS #: 78-78-4		
2.226	2.226 (0.410)	43	967456	50.0000	57.120	80.00- 120.00	100.00
2.226	2.226 (0.410)	57	641139			38.61- 98.61	66.27
32 Vinyl Bromide					CAS #: 593-60-2		
2.398	2.398 (0.442)	106	573623	50.0000	53.794	80.00- 120.00	100.00
2.398	2.398 (0.442)	108	530028			62.27- 122.27	92.40
33 Freon 11					CAS #: 75-69-4		
2.441	2.441 (0.450)	101	1637890	50.0000	45.666	80.00- 120.00	100.00
2.441	2.441 (0.450)	103	1054243			35.49- 95.49	64.37
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.448	2.448 (0.451)	67	1373557	50.0000	52.812	80.00- 120.00	100.00
2.448	2.448 (0.451)	69	428233			0.95- 60.95	31.18
37 Pentane					CAS #: 109-66-0		
2.513	2.513 (0.463)	43	1496154	50.0000	57.158	80.00- 120.00	100.00
2.513	2.513 (0.463)	57	227540			0.00- 45.38	15.21
2.513	2.513 (0.463)	72	104527			0.00- 37.02	6.99
42 Ethanol					CAS #: 64-17-5		
2.763	2.763 (0.509)	46	149374	61.1500	63.341	80.00- 120.00	100.00
2.763	2.763 (0.509)	45	383916			225.08- 285.08	257.02
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.562)	55	300322	58.3000	60.953	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Acrolein (continued)							
3.050	3.050 (0.562)	56	417282			109.39- 169.39	138.94
47 Freon 113					CAS #: 76-13-1		
3.057	3.057 (0.563)	151	1018354	50.0000	47.956	80.00- 120.00	100.00
3.057	3.057 (0.563)	153	653130			33.72- 93.72	64.14
3.050	3.050 (0.562)	101	1315250			94.86- 154.86	129.15
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.086	3.086 (0.568)	98	364219	50.0000	51.056	80.00- 120.00	100.00
3.086	3.086 (0.568)	96	570087			127.35- 187.35	156.52
3.086	3.086 (0.568)	61	1269863			327.38- 387.38	348.65
52 Acetone					CAS #: 67-64-1		
3.236	3.236 (0.596)	58	421621	50.0000	51.915	80.00- 120.00	100.00
3.236	3.236 (0.596)	43	1356027			290.16- 350.16	321.62
54 Carbon Disulfide					CAS #: 75-15-0		
3.322	3.322 (0.612)	76	1729870	50.0000	53.418	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.429	3.429 (0.632)	45	1694493	58.3000	59.158	80.00- 120.00	100.00
3.422	3.422 (0.630)	43	312482			0.00- 48.07	18.44
3.422	3.422 (0.630)	59	64476			0.00- 33.65	3.81
58 3-Chloropropene					CAS #: 107-05-1		
3.573	3.573 (0.658)	76	279228	50.0000	53.350	80.00- 120.00	100.00
3.573	3.573 (0.658)	41	1105994			369.70- 429.70	396.09
60 Acetonitrile					CAS #: 75-05-8		
3.673	3.673 (0.677)	40	415249	57.8000	58.428	80.00- 120.00	100.00
3.673	3.673 (0.677)	41	792319			161.56- 221.56	190.81
3.766	3.766 (0.694)	38	6609			0.00- 31.07	1.59
64 Methylene Chloride					CAS #: 75-09-2		
3.766	3.766 (0.694)	49	1103899	50.0000	53.759	80.00- 120.00	100.00
3.766	3.766 (0.694)	84	543600			18.48- 78.48	49.24
3.766	3.766 (0.694)	51	336067			0.91- 60.91	30.44
70 tert-Butyl alcohol					CAS #: 75-65-0		
3.902	3.902 (0.719)	59	1770931	58.1500	54.127	80.00- 120.00	100.00
3.902	3.902 (0.719)	41	408118			0.00- 51.01	23.05
3.902	3.902 (0.719)	57	190417			0.00- 41.01	10.75
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.995	3.995 (0.736)	73	1641132	50.0000	48.065	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.995	3.995 (0.736)	57	537077			0.93- 60.93	32.73
3.988	3.988 (0.735)	41	532052			0.00- 59.87	32.42
73 trans-1,2-Dichloroethene						CAS #: 156-60-5	
4.024	4.024 (0.741)	98	387245	50.0000	50.979	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	1185763			282.80- 342.80	306.20
4.024	4.024 (0.741)	96	606760			122.91- 182.91	156.69
74 Acrylonitrile						CAS #: 107-13-1	
4.131	4.131 (0.761)	52	631923	50.0000	53.357	80.00- 120.00	100.00
4.131	4.131 (0.761)	53	756657			88.44- 148.44	119.74
78 Hexane						CAS #: 110-54-3	
4.246	4.246 (0.782)	57	1325454	50.0000	51.956	80.00- 120.00	100.00
4.239	4.239 (0.781)	43	888838			34.01- 94.01	67.06
4.246	4.246 (0.782)	86	137030			0.00- 40.22	10.34
83 1,1-Dichloroethane						CAS #: 75-34-3	
4.547	4.547 (0.838)	63	1346950	50.0000	50.667	80.00- 120.00	100.00
4.547	4.547 (0.838)	65	405446			0.00- 59.58	30.10
82 Isopropyl ether						CAS #: 108-20-3	
4.533	4.533 (0.835)	45	2969486	50.0000	51.938	80.00- 120.00	100.00
4.540	4.540 (0.836)	87	503213			0.00- 47.08	16.95
4.540	4.540 (0.836)	59	310253			0.00- 40.83	10.45
84 Vinyl Acetate						CAS #: 108-05-4	
4.597	4.597 (0.847)	86	152815	58.1000	60.731	80.00- 120.00	100.00(Q)
4.590	4.590 (0.846)	43	2704306			1663.30-1723.30	1769.66
88 Ethyl-tert-butyl ether						CAS #: 637-92-3	
4.927	4.927 (0.908)	59	2526332	50.0000	49.787	80.00- 120.00	100.00
4.927	4.927 (0.908)	87	738854			0.00- 58.78	29.25
4.927	4.927 (0.908)	41	495903			0.00- 48.47	19.63
90 2,2-Dichloropropane						CAS #: 594-20-7	
5.134	5.134 (0.946)	77	1148366	50.0000	45.569	80.00- 120.00	100.00
5.134	5.134 (0.946)	79	367669			2.20- 62.20	32.02
5.134	5.134 (0.946)	97	248311			0.00- 50.29	21.62
91 cis-1,2-Dichloroethene						CAS #: 156-59-2	
5.177	5.177 (0.954)	98	416226	50.0000	52.272	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	647644			123.49- 183.49	155.60
5.177	5.177 (0.954)	61	1391544			310.35- 370.35	334.32

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
5.206	5.206 (0.959)	72	313871	50.0000	53.092	80.00- 120.00	100.00
5.220	5.220 (0.962)	43	4050680			1272.59-1332.59	1290.56
5.206	5.206 (0.959)	57	149755			18.61- 78.61	47.71
93 Ethyl Acetate					CAS #: 141-78-6		
5.227	5.227 (0.963)	70	158194	50.0000	54.414	80.00- 120.00	100.00
5.177	5.177 (0.954)	61	1391544			877.60- 937.60	879.64
5.227	5.227 (0.963)	45	330409			179.24- 239.24	208.86
99 Tetrahydrofuran					CAS #: 109-99-9		
5.414	5.414 (0.997)	42	1010510	50.0000	51.360	80.00- 120.00	100.00
5.414	5.414 (0.997)	71	270579			0.00- 56.60	26.78
5.414	5.414 (0.997)	72	280487			0.00- 56.86	27.76
103 Chloroform					CAS #: 67-66-3		
5.507	5.507 (1.015)	83	1360925	50.0000	47.360	80.00- 120.00	100.00
5.507	5.507 (1.015)	85	883461			34.90- 94.90	64.92
104 Cyclohexane					CAS #: 110-82-7		
5.600	5.600 (1.032)	84	766421	50.0000	51.209	80.00- 120.00	100.00
5.600	5.600 (1.032)	56	1407052			152.85- 212.85	183.59
5.600	5.600 (1.032)	41	742380			65.81- 125.81	96.86
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.628	5.628 (1.037)	97	1324637	50.0000	45.011	80.00- 120.00	100.00
5.628	5.628 (1.037)	99	853438			34.79- 94.79	64.43
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.750	5.750 (1.059)	119	1402174	50.0000	43.563	80.00- 120.00	100.00
5.750	5.750 (1.059)	117	1470081			73.63- 133.63	104.84
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.786	5.786 (0.903)	110	338209	50.0000	51.184	80.00- 120.00	100.00
5.786	5.786 (0.903)	75	967704			260.30- 320.30	286.13
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.972	5.972 (1.100)	57	4145232	50.0000	52.599	80.00- 120.00	100.00
5.972	5.972 (1.100)	56	1358328			2.18- 62.18	32.77
5.972	5.972 (1.100)	41	1042465			0.00- 55.61	25.15
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	1787473	50.0000	52.974	80.00- 120.00	100.00
5.987	5.987 (0.934)	77	424057			0.00- 53.99	23.72
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.073	6.073 (1.119)	87	412447	50.0000	47.865	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.073	6.073 (1.119)	73	1703577			362.99- 422.99	413.04
6.073	6.073 (1.119)	55	674185			122.42- 182.42	163.46
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.087	6.087 (0.950)	62	1077545	50.0000	46.937	80.00- 120.00	100.00
6.094	6.094 (0.951)	64	333802			1.65- 61.65	30.98
122 Heptane					CAS #: 142-82-5		
6.159	6.159 (0.961)	71	652731	50.0000	55.501	80.00- 120.00	100.00
6.159	6.159 (0.961)	43	1702143			240.22- 300.22	260.77
6.159	6.159 (0.961)	57	883457			110.36- 170.36	135.35
128 n-Butanol					CAS #: 71-36-3		
6.617	6.617 (1.032)	56	754973	50.0000	50.533	80.00- 120.00	100.00
6.617	6.617 (1.032)	41	523337			39.42- 99.42	69.32
6.617	6.617 (1.032)	43	424968			25.37- 85.37	56.29
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	863054	50.0000	50.168	80.00- 120.00	100.00
6.617	6.617 (1.032)	130	846691			67.98- 127.98	98.10
6.617	6.617 (1.032)	97	557273			34.45- 94.45	64.57
131 Methylcyclohexane					CAS #: 108-87-2		
6.717	6.717 (1.238)	83	1053036	50.0000	51.288	80.00- 120.00	100.00
6.717	6.717 (1.238)	98	463947			14.33- 74.33	44.06
6.717	6.717 (1.238)	55	1310391			96.87- 156.87	124.44
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.073)	63	911770	50.0000	53.041	80.00- 120.00	100.00
6.875	6.875 (1.073)	62	656414			41.06- 101.06	71.99
6.875	6.875 (1.073)	41	506955			28.31- 88.31	55.60
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	712519	50.0000	54.650	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	1277926			153.10- 213.10	179.35
6.961	6.961 (0.761)	100	255710			8.18- 68.18	35.89
140 1,4-Dioxane					CAS #: 123-91-1		
6.982	6.982 (1.089)	88	435568	50.0000	49.271	80.00- 120.00	100.00
6.982	6.982 (1.089)	58	450513			74.98- 134.98	103.43
6.982	6.982 (1.089)	57	162534			8.55- 68.55	37.32
141 Dibromomethane					CAS #: 74-95-3		
6.997	6.997 (0.765)	174	827054	50.0000	48.636	80.00- 120.00	100.00
6.997	6.997 (0.765)	93	828272			66.30- 126.30	100.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
141 Dibromomethane (continued)							
6.997	6.997 (0.765)	95	690214			49.87- 109.87	83.45
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.114)	83	1476625	50.0000	48.501	80.00- 120.00	100.00
7.140	7.140 (1.114)	85	944542			34.86- 94.86	63.97
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.563	7.563 (1.180)	75	1262848	50.0000	52.548	80.00- 120.00	100.00
7.563	7.563 (1.180)	77	396888			1.88- 61.88	31.43
7.563	7.563 (1.180)	39	783017			33.29- 93.29	62.00
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.691	7.691 (1.200)	58	894439	50.0000	53.119	80.00- 120.00	100.00
7.691	7.691 (1.200)	43	2395203			235.08- 295.08	267.79
7.691	7.691 (1.200)	85	260408			0.69- 60.69	29.11
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.219)	91	2282160	50.0000	51.487	80.00- 120.00	100.00
7.813	7.813 (1.219)	92	1301343			27.69- 87.69	57.02
151 Octane					CAS #: 111-65-9		
7.842	7.842 (1.224)	57	970420	50.0000	52.875	80.00- 120.00	100.00
7.842	7.842 (1.224)	85	741119			46.75- 106.75	76.37
7.842	7.842 (1.224)	43	2498317			221.22- 281.22	257.45
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.107	8.107 (0.886)	75	1060197	50.0000	50.168	80.00- 120.00	100.00
8.107	8.107 (0.886)	77	344533			1.61- 61.61	32.50
8.107	8.107 (0.886)	39	614065			26.86- 86.86	57.92
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	801757	50.0000	51.378	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	498884			32.96- 92.96	62.22
8.279	8.279 (0.905)	83	739876			59.05- 119.05	92.28
159 Tetrachloroethene					CAS #: 127-18-4		
8.307	8.307 (0.908)	166	1106721	50.0000	47.466	80.00- 120.00	100.00
8.307	8.307 (0.908)	129	851434			46.43- 106.43	76.93
8.307	8.307 (0.908)	131	845906			45.56- 105.56	76.43
162 2-Hexanone					CAS #: 591-78-6		
8.479	8.479 (0.927)	58	1237881	50.0000	52.411	80.00- 120.00	100.00
8.479	8.479 (0.927)	43	2377282			159.07- 219.07	192.04
8.479	8.479 (0.927)	100	167099			0.00- 43.98	13.50

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.317)	76	1197804	50.0000	51.789	80.00- 120.00	100.00
8.436	8.436 (1.316)	41	1082806			59.80- 119.80	90.40
8.444	8.444 (1.317)	78	384535			2.58- 62.58	32.10
163 Dibromochloromethane					CAS #: 124-48-1		
8.623	8.623 (0.943)	129	1603607	50.0000	49.127	80.00- 120.00	100.00
8.623	8.623 (0.943)	127	1231833			47.90- 107.90	76.82
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.737	8.737 (0.955)	107	1413565	50.0000	50.785	80.00- 120.00	100.00
8.737	8.737 (0.955)	109	1317343			64.00- 124.00	93.19
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.162)	63	1773980	50.0000	53.956	80.00- 120.00	100.00
7.448	7.448 (1.162)	65	514644			0.00- 58.67	29.01
7.448	7.448 (1.162)	144	146397			0.00- 39.14	8.25
166 Chlorobenzene					CAS #: 108-90-7		
9.174	9.174 (1.003)	112	1877950	50.0000	50.077	80.00- 120.00	100.00
9.174	9.174 (1.003)	114	607419			2.75- 62.75	32.34
9.174	9.174 (1.003)	77	1115705			30.27- 90.27	59.41
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.011)	106	953240	50.0000	51.262	80.00- 120.00	100.00
9.246	9.246 (1.011)	91	3004540			281.27- 341.27	315.19
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.017)	43	2586391	50.0000	55.374	80.00- 120.00	100.00
9.303	9.303 (1.017)	57	2194356			57.91- 117.91	84.84
9.303	9.303 (1.017)	85	576033			0.00- 52.91	22.27
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	1075728	50.0000	48.981	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	737026			34.91- 94.91	68.51
9.267	9.267 (1.013)	95	416356			10.71- 70.71	38.70
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.360 (1.023)	106	1209244	50.0000	52.233	80.00- 120.00	100.00
9.360	9.360 (1.023)	91	2431556			176.41- 236.41	201.08
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.066)	106	1148953	50.0000	53.045	80.00- 120.00	100.00
9.747	9.747 (1.066)	91	2431881			186.60- 246.60	211.66
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.069)	104	1933454	50.0000	52.455	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.776	9.776 (1.069)	78	1028735			26.08- 86.08	53.21
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	1646841	50.0000	48.504	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	845043			22.58- 82.58	51.31
185 Cumene					CAS #: 98-82-8		
10.084	10.084 (1.103)	105	3515056	50.0000	50.909	80.00- 120.00	100.00
10.084	10.084 (1.103)	120	912726			0.00- 55.43	25.97
10.084	10.084 (1.103)	51	523442			0.00- 44.39	14.89
189 Cyclohexanone					CAS #: 108-94-1		
10.256	10.256 (1.121)	55	1554500	50.0000	48.398	80.00- 120.00	100.00
10.256	10.256 (1.121)	98	433015			0.00- 57.69	27.86
10.256	10.256 (1.121)	42	980188			32.21- 92.21	63.05
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.145)	83	1981314	50.0000	53.397	80.00- 120.00	100.00
10.471	10.471 (1.145)	85	1290468			35.63- 95.63	65.13
192 Bromobenzene					CAS #: 108-86-1		
10.428	10.428 (1.140)	156	1161714	50.0000	48.946	80.00- 120.00	100.00
10.428	10.428 (1.140)	158	1123935			68.15- 128.15	96.75
10.428	10.428 (1.140)	77	1837514			125.89- 185.89	158.17
196 Propylbenzene					CAS #: 103-65-1		
10.485	10.485 (1.146)	120	969628	50.0000	52.030	80.00- 120.00	100.00
10.485	10.485 (1.146)	91	4181789			403.96- 463.96	431.28
10.485	10.485 (1.146)	105	155700			0.00- 46.94	16.06
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.150)	110	558251	50.0000	46.807	80.00- 120.00	100.00
10.521	10.521 (1.150)	75	1516480			232.06- 292.06	271.65
10.521	10.521 (1.150)	61	531513			62.53- 122.53	95.21
199 Decane					CAS #: 124-18-5		
10.592	10.592 (1.158)	57	2870665	50.0000	54.912	80.00- 120.00	100.00
10.592	10.592 (1.158)	71	759412			0.00- 56.58	26.45
10.600	10.600 (1.159)	142	87770			0.00- 33.23	3.06
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.159)	120	1032400	50.0000	50.779	80.00- 120.00	100.00
10.600	10.600 (1.159)	105	3532523			317.00- 377.00	342.17
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.160)	126	840289	50.0000	50.115	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.600	10.600 (1.159)	91	2881609			317.25- 377.25	342.93
10.600	10.600 (1.159)	65	492263			32.33- 92.33	58.58
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.664	10.664 (1.166)	120	1383929	50.0000	50.221	80.00- 120.00	100.00
10.664	10.664 (1.166)	105	2994863			190.09- 250.09	216.40
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.900	10.900 (1.192)	118	1542664	50.0000	52.263	80.00- 120.00	100.00
10.900	10.900 (1.192)	103	929705			32.49- 92.49	60.27
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.200)	119	2733490	50.0000	49.409	80.00- 120.00	100.00
10.972	10.972 (1.200)	134	653614			0.00- 53.10	23.91
10.972	10.972 (1.200)	91	1905892			40.97- 100.97	69.72
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.207)	120	1320182	50.0000	51.551	80.00- 120.00	100.00
11.037	11.037 (1.207)	105	2994570			204.98- 264.98	226.83
214 sec-Butylbenzene					CAS #: 135-98-8		
11.187	11.187 (1.223)	134	859048	50.0000	51.880	80.00- 120.00	100.00
11.187	11.187 (1.223)	105	4324308			484.40- 544.40	503.38
11.187	11.187 (1.223)	91	695460			54.94- 114.94	80.96
216 p-Cymene					CAS #: 99-87-6		
11.330	11.330 (1.239)	119	3608060	50.0000	49.804	80.00- 120.00	100.00
11.330	11.330 (1.239)	134	967599			0.00- 55.89	26.82
11.330	11.330 (1.239)	91	898097			0.00- 56.21	24.89
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.241)	146	1985228	50.0000	49.424	80.00- 120.00	100.00
11.352	11.352 (1.241)	148	1272006			33.67- 93.67	64.07
11.352	11.352 (1.241)	111	850410			13.82- 73.82	42.84
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.251)	146	2031097	50.0000	49.456	80.00- 120.00	100.00
11.445	11.445 (1.251)	148	1292334			34.50- 94.50	63.63
11.445	11.445 (1.251)	111	833168			12.20- 72.20	41.02
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.588	11.588 (1.267)	91	2956719	50.0000	50.531	80.00- 120.00	100.00
11.588	11.588 (1.267)	126	610173			0.00- 50.42	20.64
221 Undecane					CAS #: 1120-21-4		
11.767	11.767 (1.287)	57	3309864	50.0000	54.419	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
221 Undecane (continued)							
11.767	11.767 (1.287)	43	2926659			57.09- 117.09	88.42
220 Butylbenzene					CAS #: 104-51-8		
11.739	11.739 (1.284)	134	929984	50.0000	51.460	80.00- 120.00	100.00
11.739	11.739 (1.284)	91	3532389			345.70- 405.70	379.83
11.739	11.739 (1.284)	92	1871329			168.03- 228.03	201.22
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.817	11.817 (1.292)	146	1925681	50.0000	49.023	80.00- 120.00	100.00
11.817	11.817 (1.292)	148	1225300			33.89- 93.89	63.63
11.817	11.817 (1.292)	111	848550			15.34- 75.34	44.06
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.620	12.620 (1.380)	157	1252779	50.0000	46.353	80.00- 120.00	100.00
12.620	12.620 (1.380)	75	1182713			65.80- 125.80	94.41
12.620	12.620 (1.380)	155	980727			47.61- 107.61	78.28
227 Dodecane					CAS #: 112-40-3		
12.849	12.849 (1.405)	57	3592302	50.0000	54.148	80.00- 120.00	100.00
12.849	12.849 (1.405)	43	2958336			50.33- 110.33	82.35
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.400	13.400 (1.465)	180	1902565	56.0500	52.907	80.00- 120.00	100.00
13.400	13.400 (1.465)	182	1796702			65.96- 125.96	94.44
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.508	13.508 (1.477)	225	1554621	56.3500	50.237	80.00- 120.00	100.00
13.508	13.508 (1.477)	223	970382			33.50- 93.50	62.42
232 Naphthalene					CAS #: 91-20-3		
13.651	13.651 (1.493)	128	460282	5.90000	5.374	80.00- 120.00	100.00
13.651	13.651 (1.493)	127	58445			0.00- 42.81	12.70
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.895	13.895 (1.519)	180	1851043	56.3500	53.357	80.00- 120.00	100.00
13.895	13.895 (1.519)	182	1717576			64.83- 124.83	92.79
13.895	13.895 (1.519)	145	602449			3.99- 63.99	32.55

QC Flag Legend

Q - Qualifier signal failed the ratio test.

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 11-NOV-2024 09:37
Lab File ID: a111103.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/11NOV24.b/a24q0910a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 119 1,2-Dichloroethane-d4	1.73923	1.59974	0.010	8.02046	30.00000	Averaged
$ 152 Toluene-d8	1.04236	1.08629	0.010	-4.21499	30.00000	Averaged
$ 191 4-Bromofluorobenzene	0.66667	0.63610	0.010	4.58495	30.00000	Averaged
6 Freon 134a	1.09178	1.05163	0.010	3.67721	30.00000	Averaged
8 Propylene	1.09996	1.18321	0.010	-7.56817	30.00000	Averaged
9 1,1-Difluoroethane	0.63353	0.68525	0.010	-8.16415	30.00000	Averaged
10 Freon 12	2.97742	2.76932	0.010	6.98931	30.00000	Averaged
12 Chlorodifluoromethane	0.30504	0.29035	0.010	4.81345	30.00000	Averaged
15 Freon 114	1.98907	1.92668	0.010	3.13685	30.00000	Averaged
16 Isobutane	2.44843	2.70659	0.010	-10.54363	30.00000	Averaged
17 Chloromethane	1.04542	1.30375	0.010	-24.71097	30.00000	Averaged
22 Butane	0.22471	0.25339	0.010	-12.76437	30.00000	Averaged
24 Vinyl Chloride	1.07526	1.10244	0.010	-2.52822	30.00000	Averaged
25 1,3-Butadiene	1.01017	1.09141	0.010	-8.04285	30.00000	Averaged
29 Bromomethane	0.82654	0.95177	0.010	-15.15085	30.00000	Averaged
30 Chloroethane	0.57932	0.67295	0.010	-16.16219	30.00000	Averaged
31 Isopentane	1.59686	1.82424	0.010	-14.23927	30.00000	Averaged
32 Vinyl Bromide	1.00533	1.08163	0.010	-7.58902	30.00000	Averaged
33 Freon 11	3.38151	3.08841	0.010	8.66753	30.00000	Averaged
35 Dichlorofluoromethane	2.45207	2.58998	0.010	-5.62440	30.00000	Averaged
37 Pentane	2.46786	2.82115	0.010	-14.31559	30.00000	Averaged
42 Ethanol	0.22234	0.23030	0.010	-3.58271	30.00000	Averaged
46 Acrolein	0.46453	0.48567	0.010	-4.55044	30.00000	Averaged
47 Freon 113	2.00207	1.92021	0.010	4.08870	30.00000	Averaged
49 1,1-Dichloroethene	0.67256	0.68677	0.010	-2.11256	30.00000	Averaged
52 Acetone	0.76568	0.79501	0.010	-3.83064	30.00000	Averaged
54 Carbon Disulfide	3.05312	3.26185	0.010	-6.83666	30.00000	Averaged
57 2-Propanol	2.70052	2.74026	0.010	-1.47164	30.00000	Averaged
58 3-Chloropropene	0.49345	0.52651	0.010	-6.70111	30.00000	Averaged
60 Acetonitrile	0.67005	0.67733	0.010	-1.08675	30.00000	Averaged
64 Methylene Chloride	1.93597	2.08152	0.010	-7.51819	30.00000	Averaged
70 tert-Butyl alcohol	3.08468	2.87126	0.010	6.91887	30.00000	Averaged
72 Methyl tert-butyl ether	3.21909	3.09453	0.010	3.86960	30.00000	Averaged
73 trans-1,2-Dichloroethene	0.71617	0.73019	0.010	-1.95846	30.00000	Averaged
74 Acrylonitrile	1.11658	1.19156	0.010	-6.71456	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 11-NOV-2024 09:37
Lab File ID: a111103.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/11NOV24.b/a24q0910a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
78 Hexane	2.40518	2.49928	0.010	-3.91262	30.00000	Averaged
83 1,1-Dichloroethane	2.50636	2.53981	0.010	-1.33483	30.00000	Averaged
82 Isopropyl ether	5.39031	5.59928	0.010	-3.87664	30.00000	Averaged
84 Vinyl Acetate	0.23723	0.24798	0.010	-4.52852	30.00000	Averaged
88 Ethyl-tert-butyl ether	4.78407	4.76366	0.010	0.42659	30.00000	Averaged
90 2,2-Dichloropropane	2.37592	2.16536	0.010	8.86214	30.00000	Averaged
91 cis-1,2-Dichloroethene	0.75072	0.78484	0.010	-4.54511	30.00000	Averaged
92 2-Butanone	0.55736	0.59184	0.010	-6.18499	30.00000	Averaged
93 Ethyl Acetate	0.27409	0.29829	0.010	-8.82826	30.00000	Averaged
99 Tetrahydrofuran	1.85496	1.90542	0.010	-2.72025	30.00000	Averaged
103 Chloroform	2.70918	2.56617	0.010	5.27883	30.00000	Averaged
104 Cyclohexane	1.41104	1.44517	0.010	-2.41873	30.00000	Averaged
106 1,1,1-Trichloroethane	2.77460	2.49774	0.010	9.97844	30.00000	Averaged
112 Carbon Tetrachloride	3.03463	2.64395	0.010	12.87431	30.00000	Averaged
113 1,1-Dichloropropene	0.16962	0.17363	0.010	-2.36786	30.00000	Averaged
117 2,2,4-Trimethylpentane	7.43002	7.81627	0.010	-5.19846	30.00000	Averaged
118 Benzene	0.86615	0.91767	0.010	-5.94755	30.00000	Averaged
120 tert-Amyl methyl ether	0.81240	0.77771	0.010	4.26930	30.00000	Averaged
121 1,2-Dichloroethane	0.58930	0.55320	0.010	6.12632	30.00000	Averaged
122 Heptane	0.30189	0.33511	0.010	-11.00144	30.00000	Averaged
128 n-Butanol	0.38350	0.38759	0.010	-1.06699	30.00000	Averaged
129 Trichloroethene	0.44160	0.44308	0.010	-0.33533	30.00000	Averaged
131 Methylcyclohexane	1.93576	1.98561	0.010	-2.57507	30.00000	Averaged
135 1,2-Dichloropropane	0.44125	0.46809	0.010	-6.08295	30.00000	Averaged
139 Methyl Methacrylate	0.36455	0.39846	0.010	-9.30066	30.00000	Averaged
140 1,4-Dioxane	0.22692	0.22362	0.010	1.45759	30.00000	Averaged
141 Dibromomethane	0.47548	0.46251	0.010	2.72814	30.00000	Averaged
142 Bromodichloromethane	0.78151	0.75808	0.010	2.99752	30.00000	Averaged
149 cis-1,3-Dichloropropene	0.61690	0.64833	0.010	-5.09522	30.00000	Averaged
150 4-Methyl-2-pentanone	0.43223	0.45920	0.010	-6.23764	30.00000	Averaged
153 Toluene	1.13780	1.17164	0.010	-2.97426	30.00000	Averaged
151 Octane	0.47111	0.49820	0.010	-5.75001	30.00000	Averaged
154 trans-1,3-Dichloropropene	0.59091	0.59289	0.010	-0.33606	30.00000	Averaged
158 1,1,2-Trichloroethane	0.43633	0.44836	0.010	-2.75697	30.00000	Averaged
159 Tetrachloroethene	0.65194	0.61891	0.010	5.06692	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 11-NOV-2024 09:37
Lab File ID: a111103.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/11NOV24.b/a24q0910a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
162 2-Hexanone	0.66041	0.69226	0.010	-4.82163	30.00000	Averaged
161 1,3-Dichloropropane	0.59370	0.61494	0.010	-3.57828	30.00000	Averaged
163 Dibromochloromethane	0.91272	0.89678	0.010	1.74673	30.00000	Averaged
164 1,2-Dibromoethane (EDB)	0.77828	0.79050	0.010	-1.57044	30.00000	Averaged
144 1-Bromo-2-Chloroethane	0.84396	0.91074	0.010	-7.91263	30.00000	Averaged
166 Chlorobenzene	1.04858	1.05020	0.010	-0.15497	30.00000	Averaged
167 Ethyl Benzene	0.51996	0.53308	0.010	-2.52334	30.00000	Averaged
170 Nonane	1.30602	1.44638	0.010	-10.74703	30.00000	Averaged
169 1,1,1,2-Tetrachloroethane	0.61409	0.60158	0.010	2.03705	30.00000	Averaged
173 m,p-Xylene	0.64733	0.67624	0.010	-4.46609	30.00000	Averaged
176 o-Xylene	0.60564	0.64253	0.010	-6.09007	30.00000	Averaged
178 Styrene	1.03064	1.08124	0.010	-4.90995	30.00000	Averaged
184 Bromoform	0.94935	0.92096	0.010	2.99093	30.00000	Averaged
185 Cumene	1.93063	1.96571	0.010	-1.81740	30.00000	Averaged
189 Cyclohexanone	0.89810	0.86932	0.010	3.20457	30.00000	Averaged
194 1,1,2,2-Tetrachloroethane	1.03751	1.10800	0.010	-6.79416	30.00000	Averaged
192 Bromobenzene	0.66364	0.64966	0.010	2.10698	30.00000	Averaged
196 Propylbenzene	0.52108	0.54224	0.010	-4.06068	30.00000	Averaged
197 1,2,3-Trichloropropane	0.33349	0.31219	0.010	6.38677	30.00000	Averaged
199 Decane	1.46176	1.60535	0.010	-9.82307	30.00000	Averaged
200 4-Ethyltoluene	0.56848	0.57735	0.010	-1.55886	30.00000	Averaged
201 2-Chlorotoluene	0.46883	0.46991	0.010	-0.23069	30.00000	Averaged
204 1,3,5-Trimethylbenzene	0.77053	0.77393	0.010	-0.44186	30.00000	Averaged
209 alpha Methyl Styrene	0.82534	0.86270	0.010	-4.52657	30.00000	Averaged
210 tert-Butylbenzene	1.54693	1.52864	0.010	1.18223	30.00000	Averaged
212 1,2,4-Trimethylbenzene	0.71606	0.73828	0.010	-3.10275	30.00000	Averaged
214 sec-Butylbenzene	0.46299	0.48040	0.010	-3.76026	30.00000	Averaged
216 p-Cymene	2.02565	2.01773	0.010	0.39138	30.00000	Averaged
217 1,3-Dichlorobenzene	1.12314	1.11019	0.010	1.15292	30.00000	Averaged
218 1,4-Dichlorobenzene	1.14833	1.13584	0.010	1.08707	30.00000	Averaged
219 alpha-Chlorotoluene	1.63610	1.65348	0.010	-1.06190	30.00000	Averaged
221 Undecane	1.70065	1.85097	0.010	-8.83848	30.00000	Averaged
220 Butylbenzene	0.50532	0.52007	0.010	-2.91946	30.00000	Averaged
222 1,2-Dichlorobenzene	1.09835	1.07689	0.010	1.95338	30.00000	Averaged
226 1,2-Dibromo-3-chloropropane	0.75571	0.70059	0.010	7.29391	30.00000	Averaged
227 Dodecane	1.85502	2.00891	0.010	-8.29577	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 11-NOV-2024 09:37
Lab File ID: a111103.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/11NOV24.b/a24q0910a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
230 1,2,4-Trichlorobenzene	1.00550	0.94912	0.010	5.60725	30.00000	Averaged
231 Hexachlorobutadiene	0.86528	0.77142	0.010	10.84741	30.00000	Averaged
232 Naphthalene	2.39484	2.18137	0.010	8.91367	30.00000	Averaged
233 1,2,3-Trichlorobenzene	0.97002	0.91850	0.010	5.31091	30.00000	Averaged

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111103.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 12-NOV-2024
Calibration Time: 07:49
Client Smp ID: CCv
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	204549	122729	286369	265167	29.63
126 1,4-Difluorobenze	755920	453552	1058288	973920	28.84
165 Chlorobenzene-d5	687623	412574	962672	894091	30.03

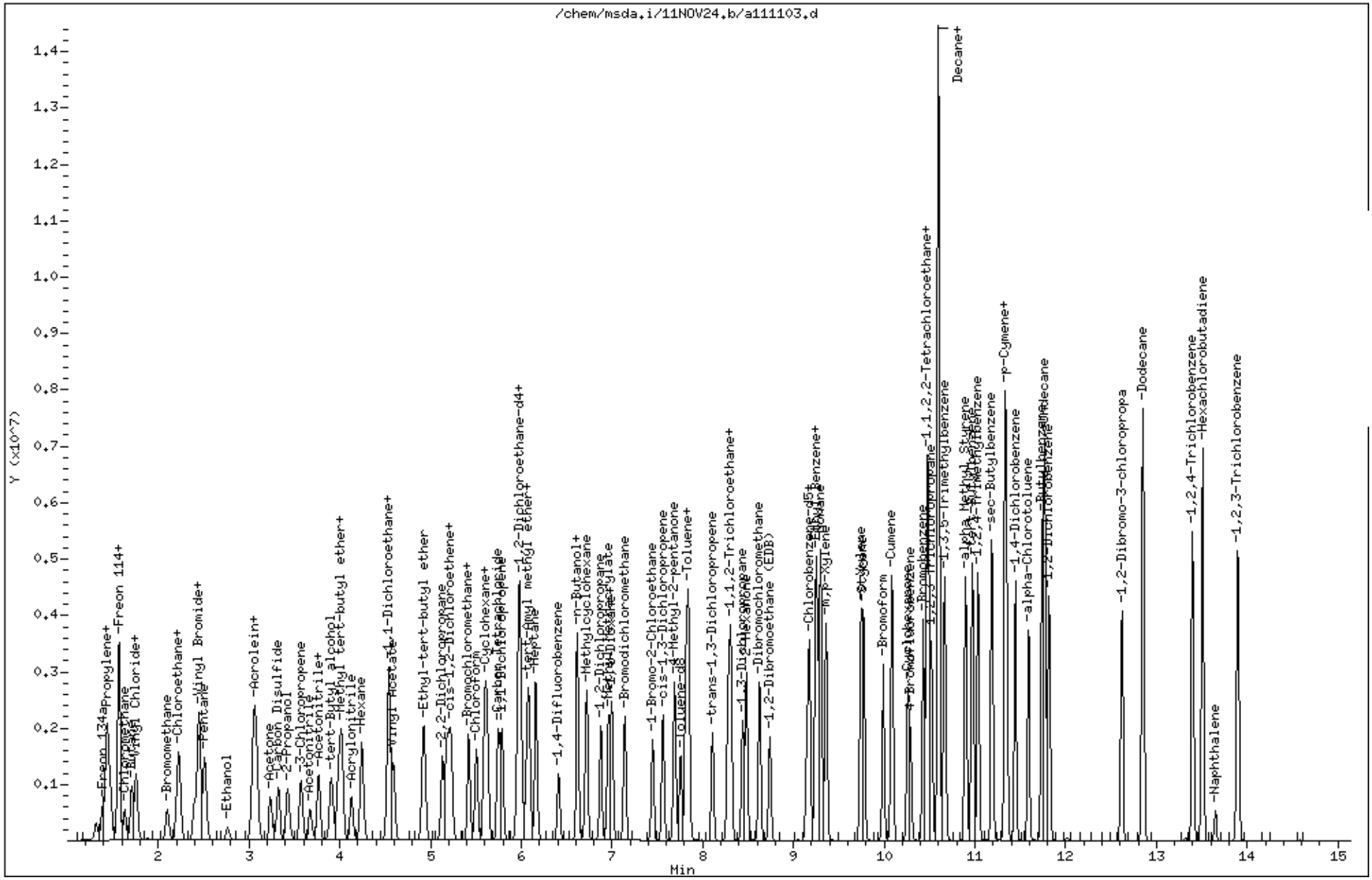
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/11NOV24.b/a111103.d
Date : 11-NOV-2024 09:37
Client ID: CCv
Sample Info: 50mL 3018-4905

Instrument: msda.i
Operator: MS
Column diameter: 0.25

Column phase: RTX-624



eurofins | Air Toxics

Client ID:	CCV		
Lab ID:	2410702B-37B	**Date/Time Analyzed:**	11/12/24 07:49 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msda.i / a111130a

Compound	CAS#	%Recovery
1,1-Dichloroethene	75-35-4	100
1,4-Dichlorobenzene	106-46-7	102
Benzene	71-43-2	101
cis-1,2-Dichloroethene	156-59-2	102
Ethyl Benzene	100-41-4	104
m,p-Xylene	108-38-3	106
o-Xylene	95-47-6	109
Toluene	108-88-3	99
trans-1,2-Dichloroethene	156-60-5	98
Trichloroethene	79-01-6	101
Vinyl Chloride	75-01-4	117

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	101
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	101

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111130a.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 12-NOV-2024 07:49
Operator : MS Inst ID: msda.i
Smp Info : 50mL 3018-4905
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 13:59 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	204549	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	158805			46.45- 106.45	77.64
5.428	5.428 (1.000)	49	418799			167.12- 227.12	204.74
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	755920	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	124003			0.00- 46.36	16.40
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.145	9.145 (1.000)	117	687623	25.0000		80.00- 120.00	100.00
9.145	9.145 (1.000)	82	392788			27.12- 87.12	57.12
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	359786	25.0000	25.283	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	193935			23.36- 83.36	53.90
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.210)	98	796598	25.0000	25.275	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	94691			0.00- 41.92	11.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.210)	100	536516			39.07- 99.07	67.35
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	456593	25.0000	24.900	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	545868			89.27- 149.27	119.55
10.292	10.292 (1.125)	176	440144			66.29- 126.29	96.40
6 Freon 134a					CAS #: 811-97-2		
1.388	1.388 (0.256)	83	478039	50.0000	53.514	80.00- 120.00	100.00
1.388	1.388 (0.256)	69	355320			41.53- 101.53	74.33
1.388	1.388 (0.256)	63	59366			0.00- 42.30	12.42
8 Propylene					CAS #: 115-07-1		
1.424	1.424 (0.262)	41	454135	50.0000	50.460	80.00- 120.00	100.00
1.424	1.424 (0.262)	42	303649			38.18- 98.18	66.86
1.424	1.424 (0.262)	39	322140			40.18- 100.18	70.93
9 1,1-Difluoroethane					CAS #: 75-37-6		
1.431	1.431 (0.264)	65	268844	50.0000	51.866	80.00- 120.00	100.00
1.474	1.474 (0.272)	51	1042465			362.20- 422.20	387.76
1.438	1.438 (0.265)	47	188656			41.18- 101.18	70.17
10 Freon 12					CAS #: 75-71-8		
1.452	1.452 (0.268)	85	1195438	50.0000	49.072	80.00- 120.00	100.00
1.452	1.452 (0.268)	87	391592			1.90- 61.90	32.76
12 Chlorodifluoromethane					CAS #: 75-45-6		
1.481	1.481 (0.273)	67	125207	50.0000	50.167	80.00- 120.00	100.00(Q)
1.474	1.474 (0.272)	51	1042465			756.67- 816.67	832.59
15 Freon 114					CAS #: 76-14-2		
1.560	1.560 (0.287)	135	813933	50.0000	50.013	80.00- 120.00	100.00
1.560	1.560 (0.287)	137	257209			1.76- 61.76	31.60
16 Isobutane					CAS #: 75-28-5		
1.574	1.574 (0.290)	43	1044550	50.0000	52.141	80.00- 120.00	100.00
1.574	1.574 (0.290)	42	339632			2.85- 62.85	32.51
1.574	1.574 (0.290)	58	34572			0.00- 33.52	3.31
17 Chloromethane					CAS #: 74-87-3		
1.631	1.631 (0.301)	50	465547	50.0000	54.427	80.00- 120.00	100.00
1.631	1.631 (0.301)	52	154648			2.14- 62.14	33.22
22 Butane					CAS #: 106-97-8		
1.703	1.703 (0.314)	58	86517	50.0000	47.057	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
22 Butane (continued)							
1.703	1.703 (0.314)	43	646590			706.79- 766.79	747.36
24 Vinyl Chloride					CAS #: 75-01-4		
1.739	1.739 (0.320)	62	515512	50.0000	58.596	80.00- 120.00	100.00
1.739	1.739 (0.320)	64	151892			0.00- 59.56	29.46
25 1,3-Butadiene					CAS #: 106-99-0		
1.768	1.768 (0.326)	54	512130	50.0000	61.963	80.00- 120.00	100.00
1.768	1.768 (0.326)	39	468659			64.19- 124.19	91.51
29 Bromomethane					CAS #: 74-83-9		
2.104	2.104 (0.388)	94	375024	50.0000	55.454	80.00- 120.00	100.00
2.104	2.104 (0.388)	96	353550			63.72- 123.72	94.27
30 Chloroethane					CAS #: 75-00-3		
2.204	2.204 (0.406)	64	255488	50.0000	53.901	80.00- 120.00	100.00
2.204	2.204 (0.406)	66	77946			0.20- 60.20	30.51
2.204	2.204 (0.406)	49	95202			7.38- 67.38	37.26
31 Isopentane					CAS #: 78-78-4		
2.233	2.233 (0.411)	43	714383	50.0000	54.677	80.00- 120.00	100.00
2.233	2.233 (0.411)	57	479561			38.61- 98.61	67.13
32 Vinyl Bromide					CAS #: 593-60-2		
2.398	2.398 (0.442)	106	429595	50.0000	52.227	80.00- 120.00	100.00
2.398	2.398 (0.442)	108	405692			62.27- 122.27	94.44
33 Freon 11					CAS #: 75-69-4		
2.441	2.441 (0.450)	101	1376481	50.0000	49.751	80.00- 120.00	100.00
2.441	2.441 (0.450)	103	897946			35.49- 95.49	65.23
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.448	2.448 (0.451)	67	1053491	50.0000	52.510	80.00- 120.00	100.00
2.448	2.448 (0.451)	69	323069			0.95- 60.95	30.67
37 Pentane					CAS #: 109-66-0		
2.512	2.512 (0.463)	43	1105143	50.0000	54.732	80.00- 120.00	100.00
2.512	2.512 (0.463)	57	170596			0.00- 45.38	15.44
2.512	2.512 (0.463)	72	74789			0.00- 37.02	6.77
42 Ethanol					CAS #: 64-17-5		
2.763	2.763 (0.509)	46	102683	61.1500	56.446	80.00- 120.00	100.00
2.763	2.763 (0.509)	45	270846			225.08- 285.08	263.77
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.562)	55	228659	58.3000	60.161	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Acrolein (continued)							
3.050	3.050 (0.562)	56	303029			109.39- 169.39	132.52
47 Freon 113					CAS #: 76-13-1		
3.057	3.057 (0.563)	151	805727	50.0000	49.187	80.00- 120.00	100.00
3.057	3.057 (0.563)	153	521380			33.72- 93.72	64.71
3.057	3.057 (0.563)	101	1022733			94.86- 154.86	126.93
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.086	3.086 (0.568)	98	276213	50.0000	50.194	80.00- 120.00	100.00
3.086	3.086 (0.568)	96	429195			127.35- 187.35	155.39
3.086	3.086 (0.568)	61	995151			327.38- 387.38	360.28
52 Acetone					CAS #: 67-64-1		
3.236	3.236 (0.596)	58	312435	50.0000	49.872	80.00- 120.00	100.00
3.236	3.236 (0.596)	43	1001111			290.16- 350.16	320.42
54 Carbon Disulfide					CAS #: 75-15-0		
3.322	3.322 (0.612)	76	1251145	50.0000	50.085	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.422	3.422 (0.630)	45	1228289	58.3000	55.590	80.00- 120.00	100.00
3.422	3.422 (0.630)	43	230792			0.00- 48.07	18.79
3.422	3.422 (0.630)	59	45540			0.00- 33.65	3.71
58 3-Chloropropene					CAS #: 107-05-1		
3.573	3.573 (0.658)	76	202131	50.0000	50.065	80.00- 120.00	100.00
3.573	3.573 (0.658)	41	822591			369.70- 429.70	406.96
60 Acetonitrile					CAS #: 75-05-8		
3.673	3.673 (0.677)	40	294524	57.8000	53.722	80.00- 120.00	100.00
3.673	3.673 (0.677)	41	582596			161.56- 221.56	197.81
3.759	3.759 (0.693)	38	4533			0.00- 31.07	1.54
64 Methylene Chloride					CAS #: 75-09-2		
3.766	3.766 (0.694)	49	831142	50.0000	52.471	80.00- 120.00	100.00
3.766	3.766 (0.694)	84	389944			18.48- 78.48	46.92
3.766	3.766 (0.694)	51	256473			0.91- 60.91	30.86
70 tert-Butyl alcohol					CAS #: 75-65-0		
3.902	3.902 (0.719)	59	1354590	58.1500	53.671	80.00- 120.00	100.00
3.902	3.902 (0.719)	41	306800			0.00- 51.01	22.65
3.902	3.902 (0.719)	57	149043			0.00- 41.01	11.00
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.988	3.988 (0.735)	73	1298875	50.0000	49.315	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.988	3.988 (0.735)	57	420536			0.93- 60.93	32.38
3.988	3.988 (0.735)	41	397559			0.00- 59.87	30.61
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	287922	50.0000	49.136	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	927327			282.80- 342.80	322.08
4.024	4.024 (0.741)	96	451716			122.91- 182.91	156.89
74 Acrylonitrile					CAS #: 107-13-1		
4.131	4.131 (0.761)	52	467496	50.0000	51.172	80.00- 120.00	100.00
4.131	4.131 (0.761)	53	559329			88.44- 148.44	119.64
78 Hexane					CAS #: 110-54-3		
4.246	4.246 (0.782)	57	1006678	50.0000	51.155	80.00- 120.00	100.00
4.246	4.246 (0.782)	43	663071			34.01- 94.01	65.87
4.246	4.246 (0.782)	86	100937			0.00- 40.22	10.03
83 1,1-Dichloroethane					CAS #: 75-34-3		
4.547	4.547 (0.838)	63	1042548	50.0000	50.839	80.00- 120.00	100.00
4.547	4.547 (0.838)	65	308063			0.00- 59.58	29.55
82 Isopropyl ether					CAS #: 108-20-3		
4.532	4.532 (0.835)	45	2227803	50.0000	50.513	80.00- 120.00	100.00
4.540	4.540 (0.836)	87	380980			0.00- 47.08	17.10
4.540	4.540 (0.836)	59	231996			0.00- 40.83	10.41
84 Vinyl Acetate					CAS #: 108-05-4		
4.597	4.597 (0.847)	86	112327	58.1000	57.870	80.00- 120.00	100.00(Q)
4.590	4.590 (0.846)	43	1972008			1663.30-1723.30	1755.60
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.919	4.919 (0.906)	59	1974359	50.0000	50.440	80.00- 120.00	100.00
4.919	4.919 (0.906)	87	570966			0.00- 58.78	28.92
4.919	4.919 (0.906)	41	380228			0.00- 48.47	19.26
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.134	5.134 (0.946)	77	943162	50.0000	48.517	80.00- 120.00	100.00
5.134	5.134 (0.946)	79	306130			2.20- 62.20	32.46
5.134	5.134 (0.946)	97	196047			0.00- 50.29	20.79
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	314891	50.0000	51.266	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	479941			123.49- 183.49	152.41
5.177	5.177 (0.954)	61	1079775			310.35- 370.35	342.90

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
5.206	5.206 (0.959)	72	223914	50.0000	49.100	80.00- 120.00	100.00
5.213	5.213 (0.960)	43	2970973			1272.59-1332.59	1326.84
5.206	5.206 (0.959)	57	113071			18.61- 78.61	50.50
93 Ethyl Acetate					CAS #: 141-78-6		
5.227	5.227 (0.963)	70	117176	50.0000	52.250	80.00- 120.00	100.00
5.177	5.177 (0.954)	61	1079775			877.60- 937.60	921.50
5.227	5.227 (0.963)	45	239402			179.24- 239.24	204.31
99 Tetrahydrofuran					CAS #: 109-99-9		
5.413	5.413 (0.997)	42	752135	50.0000	49.557	80.00- 120.00	100.00
5.413	5.413 (0.997)	71	195862			0.00- 56.60	26.04
5.413	5.413 (0.997)	72	204203			0.00- 56.86	27.15
103 Chloroform					CAS #: 67-66-3		
5.507	5.507 (1.014)	83	1079331	50.0000	48.692	80.00- 120.00	100.00
5.507	5.507 (1.014)	85	702633			34.90- 94.90	65.10
104 Cyclohexane					CAS #: 110-82-7		
5.600	5.600 (1.032)	84	566476	50.0000	49.066	80.00- 120.00	100.00
5.600	5.600 (1.032)	56	1066215			152.85- 212.85	188.22
5.600	5.600 (1.032)	41	557915			65.81- 125.81	98.49
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.621	5.621 (1.036)	97	1117071	50.0000	49.206	80.00- 120.00	100.00
5.628	5.628 (1.037)	99	716640			34.79- 94.79	64.15
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.750	5.750 (1.059)	119	1208310	50.0000	48.665	80.00- 120.00	100.00
5.750	5.750 (1.059)	117	1258862			73.63- 133.63	104.18
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.786	5.786 (0.903)	110	265117	50.0000	51.693	80.00- 120.00	100.00
5.786	5.786 (0.903)	75	753836			260.30- 320.30	284.34
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.972	5.972 (1.100)	57	3172391	50.0000	52.184	80.00- 120.00	100.00
5.972	5.972 (1.100)	56	1027519			2.18- 62.18	32.39
5.972	5.972 (1.100)	41	803865			0.00- 55.61	25.34
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	1319771	50.0000	50.393	80.00- 120.00	100.00
5.987	5.987 (0.934)	77	317549			0.00- 53.99	24.06
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.072	6.072 (1.119)	87	337230	50.0000	50.734	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.072	6.072 (1.119)	73	1331094			362.99- 422.99	394.71
6.072	6.072 (1.119)	55	542239			122.42- 182.42	160.79
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.087	6.087 (0.950)	62	903281	50.0000	50.693	80.00- 120.00	100.00
6.087	6.087 (0.950)	64	281796			1.65- 61.65	31.20
122 Heptane					CAS #: 142-82-5		
6.158	6.158 (0.961)	71	477079	50.0000	52.264	80.00- 120.00	100.00
6.158	6.158 (0.961)	43	1276653			240.22- 300.22	267.60
6.158	6.158 (0.961)	57	664000			110.36- 170.36	139.18
128 n-Butanol					CAS #: 71-36-3		
6.617	6.617 (1.032)	56	545263	50.0000	47.022	80.00- 120.00	100.00
6.617	6.617 (1.032)	41	381739			39.42- 99.42	70.01
6.617	6.617 (1.032)	43	311564			25.37- 85.37	57.14
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	675435	50.0000	50.584	80.00- 120.00	100.00
6.617	6.617 (1.032)	130	655532			67.98- 127.98	97.05
6.617	6.617 (1.032)	97	430397			34.45- 94.45	63.72
131 Methylcyclohexane					CAS #: 108-87-2		
6.717	6.717 (1.238)	83	794604	50.0000	50.170	80.00- 120.00	100.00
6.717	6.717 (1.238)	98	357147			14.33- 74.33	44.95
6.717	6.717 (1.238)	55	1016667			96.87- 156.87	127.95
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.073)	63	677291	50.0000	50.764	80.00- 120.00	100.00
6.875	6.875 (1.073)	62	483879			41.06- 101.06	71.44
6.875	6.875 (1.073)	41	390542			28.31- 88.31	57.66
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	527395	50.0000	52.597	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	952558			153.10- 213.10	180.62
6.961	6.961 (0.761)	100	191572			8.18- 68.18	36.32
140 1,4-Dioxane					CAS #: 123-91-1		
6.982	6.982 (1.089)	88	316300	50.0000	46.098	80.00- 120.00	100.00
6.982	6.982 (1.089)	58	339609			74.98- 134.98	107.37
6.982	6.982 (1.089)	57	123178			8.55- 68.55	38.94
141 Dibromomethane					CAS #: 74-95-3		
6.997	6.997 (0.765)	174	657650	50.0000	50.286	80.00- 120.00	100.00
6.997	6.997 (0.765)	93	636389			66.30- 126.30	96.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
141 Dibromomethane (continued)							
6.997	6.997 (0.765)	95	533150			49.87- 109.87	81.07
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.114)	83	1179871	50.0000	49.930	80.00- 120.00	100.00
7.140	7.140 (1.114)	85	758484			34.86- 94.86	64.29
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.562	7.562 (1.180)	75	950293	50.0000	50.946	80.00- 120.00	100.00
7.562	7.562 (1.180)	77	301871			1.88- 61.88	31.77
7.562	7.562 (1.180)	39	598208			33.29- 93.29	62.95
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.691	7.691 (1.200)	58	660860	50.0000	50.566	80.00- 120.00	100.00
7.691	7.691 (1.200)	43	1766625			235.08- 295.08	267.32
7.691	7.691 (1.200)	85	205447			0.69- 60.69	31.09
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.219)	91	1710428	50.0000	49.717	80.00- 120.00	100.00
7.813	7.813 (1.219)	92	995164			27.69- 87.69	58.18
151 Octane					CAS #: 111-65-9		
7.842	7.842 (1.224)	57	745833	50.0000	52.358	80.00- 120.00	100.00
7.842	7.842 (1.224)	85	561236			46.75- 106.75	75.25
7.842	7.842 (1.224)	43	1892422			221.22- 281.22	253.73
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.107	8.107 (0.886)	75	831829	50.0000	51.181	80.00- 120.00	100.00
8.107	8.107 (0.886)	77	270327			1.61- 61.61	32.50
8.107	8.107 (0.886)	39	480022			26.86- 86.86	57.71
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	606667	50.0000	50.550	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	377547			32.96- 92.96	62.23
8.279	8.279 (0.905)	83	543120			59.05- 119.05	89.53
159 Tetrachloroethene					CAS #: 127-18-4		
8.307	8.307 (0.908)	166	879586	50.0000	49.052	80.00- 120.00	100.00
8.307	8.307 (0.908)	129	694324			46.43- 106.43	78.94
8.307	8.307 (0.908)	131	675847			45.56- 105.56	76.84
162 2-Hexanone					CAS #: 591-78-6		
8.479	8.479 (0.927)	58	922229	50.0000	50.770	80.00- 120.00	100.00
8.479	8.479 (0.927)	43	1788133			159.07- 219.07	193.89
8.479	8.479 (0.927)	100	127754			0.00- 43.98	13.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.443	8.443 (1.317)	76	898277	50.0000	50.039	80.00- 120.00	100.00
8.436	8.436 (1.316)	41	832348			59.80- 119.80	92.66
8.443	8.443 (1.317)	78	293568			2.58- 62.58	32.68
163 Dibromochloromethane					CAS #: 124-48-1		
8.623	8.623 (0.943)	129	1318723	50.0000	52.530	80.00- 120.00	100.00
8.623	8.623 (0.943)	127	1016740			47.90- 107.90	77.10
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.737	8.737 (0.955)	107	1092991	50.0000	51.059	80.00- 120.00	100.00
8.737	8.737 (0.955)	109	1030994			64.00- 124.00	94.33
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.162)	63	1292203	50.0000	50.637	80.00- 120.00	100.00
7.448	7.448 (1.162)	65	376081			0.00- 58.67	29.10
7.448	7.448 (1.162)	144	115999			0.00- 39.14	8.98
166 Chlorobenzene					CAS #: 108-90-7		
9.174	9.174 (1.003)	112	1460008	50.0000	50.623	80.00- 120.00	100.00
9.174	9.174 (1.003)	114	474433			2.75- 62.75	32.50
9.174	9.174 (1.003)	77	878025			30.27- 90.27	60.14
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.011)	106	746030	50.0000	52.165	80.00- 120.00	100.00
9.246	9.246 (1.011)	91	2344867			281.27- 341.27	314.31
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.017)	43	1972226	50.0000	54.903	80.00- 120.00	100.00
9.303	9.303 (1.017)	57	1704304			57.91- 117.91	86.42
9.303	9.303 (1.017)	85	438773			0.00- 52.91	22.25
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	882295	50.0000	52.236	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	581921			34.91- 94.91	65.96
9.267	9.267 (1.013)	95	352817			10.71- 70.71	39.99
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.360 (1.023)	106	944806	50.0000	53.065	80.00- 120.00	100.00
9.360	9.360 (1.023)	91	1926576			176.41- 236.41	203.91
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.066)	106	907693	50.0000	54.489	80.00- 120.00	100.00
9.747	9.747 (1.066)	91	1918907			186.60- 246.60	211.40
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.069)	104	1513814	50.0000	53.402	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.776	9.776 (1.069)	78	839194			26.08- 86.08	55.44
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	1356701	50.0000	51.957	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	702719			22.58- 82.58	51.80
185 Cumene					CAS #: 98-82-8		
10.084	10.084 (1.103)	105	2815058	50.0000	53.012	80.00- 120.00	100.00
10.084	10.084 (1.103)	120	718052			0.00- 55.43	25.51
10.084	10.084 (1.103)	51	405432			0.00- 44.39	14.40
189 Cyclohexanone					CAS #: 108-94-1		
10.256	10.256 (1.121)	55	1198526	50.0000	48.519	80.00- 120.00	100.00
10.256	10.256 (1.121)	98	328724			0.00- 57.69	27.43
10.256	10.256 (1.121)	42	744889			32.21- 92.21	62.15
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.145)	83	1484425	50.0000	52.018	80.00- 120.00	100.00
10.471	10.471 (1.145)	85	953327			35.63- 95.63	64.22
192 Bromobenzene					CAS #: 108-86-1		
10.428	10.428 (1.140)	156	939071	50.0000	51.446	80.00- 120.00	100.00
10.428	10.428 (1.140)	158	910393			68.15- 128.15	96.95
10.428	10.428 (1.140)	77	1429841			125.89- 185.89	152.26
196 Propylbenzene					CAS #: 103-65-1		
10.485	10.485 (1.146)	120	754909	50.0000	52.672	80.00- 120.00	100.00
10.485	10.485 (1.146)	91	3265210			403.96- 463.96	432.53
10.485	10.485 (1.146)	105	123927			0.00- 46.94	16.42
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.150)	110	458762	50.0000	50.014	80.00- 120.00	100.00
10.521	10.521 (1.150)	75	1191184			232.06- 292.06	259.65
10.521	10.521 (1.150)	61	417203			62.53- 122.53	90.94
199 Decane					CAS #: 124-18-5		
10.592	10.592 (1.158)	57	2212480	50.0000	55.029	80.00- 120.00	100.00
10.592	10.592 (1.158)	71	581677			0.00- 56.58	26.29
10.600	10.600 (1.159)	142	68618			0.00- 33.23	3.10
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.159)	120	815558	50.0000	52.159	80.00- 120.00	100.00
10.600	10.600 (1.159)	105	2864103			317.00- 377.00	351.18
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.160)	126	666186	50.0000	51.662	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.607	10.607 (1.160)	91	2333686			317.25- 377.25	350.31
10.600	10.600 (1.159)	65	408152			32.33- 92.33	61.27
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.664	10.664 (1.166)	120	1134963	50.0000	53.553	80.00- 120.00	100.00
10.664	10.664 (1.166)	105	2520245			190.09- 250.09	222.06
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.900	10.900 (1.192)	118	1225718	50.0000	53.994	80.00- 120.00	100.00
10.900	10.900 (1.192)	103	753472			32.49- 92.49	61.47
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.200)	119	2231442	50.0000	52.445	80.00- 120.00	100.00
10.972	10.972 (1.200)	134	514376			0.00- 53.10	23.05
10.972	10.972 (1.200)	91	1572363			40.97- 100.97	70.46
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.036	11.036 (1.207)	120	1036046	50.0000	52.604	80.00- 120.00	100.00
11.036	11.036 (1.207)	105	2441127			204.98- 264.98	235.62
214 sec-Butylbenzene					CAS #: 135-98-8		
11.187	11.187 (1.223)	134	675436	50.0000	53.039	80.00- 120.00	100.00
11.187	11.187 (1.223)	105	3465821			484.40- 544.40	513.12
11.187	11.187 (1.223)	91	570879			54.94- 114.94	84.52
216 p-Cymene					CAS #: 99-87-6		
11.330	11.330 (1.239)	119	2925803	50.0000	52.513	80.00- 120.00	100.00
11.330	11.330 (1.239)	134	755339			0.00- 55.89	25.82
11.330	11.330 (1.239)	91	742818			0.00- 56.21	25.39
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.241)	146	1598833	50.0000	51.756	80.00- 120.00	100.00
11.352	11.352 (1.241)	148	1018807			33.67- 93.67	63.72
11.352	11.352 (1.241)	111	694022			13.82- 73.82	43.41
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.251)	146	1616408	50.0000	51.177	80.00- 120.00	100.00
11.445	11.445 (1.251)	148	1035059			34.50- 94.50	64.03
11.445	11.445 (1.251)	111	677239			12.20- 72.20	41.90
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.588	11.588 (1.267)	91	2364668	50.0000	52.547	80.00- 120.00	100.00
11.588	11.588 (1.267)	126	480879			0.00- 50.42	20.34
221 Undecane					CAS #: 1120-21-4		
11.774	11.774 (1.287)	57	2555513	50.0000	54.632	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
221 Undecane (continued)							
11.767	11.767 (1.287)	43	2224288			57.09- 117.09	87.04
220 Butylbenzene					CAS #: 104-51-8		
11.738	11.738 (1.284)	134	731168	50.0000	52.607	80.00- 120.00	100.00
11.738	11.738 (1.284)	91	2811382			345.70- 405.70	384.51
11.738	11.738 (1.284)	92	1478784			168.03- 228.03	202.25
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.817	11.817 (1.292)	146	1543058	50.0000	51.078	80.00- 120.00	100.00
11.817	11.817 (1.292)	148	980926			33.89- 93.89	63.57
11.817	11.817 (1.292)	111	684768			15.34- 75.34	44.38
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.620	12.620 (1.380)	157	1026354	50.0000	49.378	80.00- 120.00	100.00
12.620	12.620 (1.380)	75	977841			65.80- 125.80	95.27
12.620	12.620 (1.380)	155	804326			47.61- 107.61	78.37
227 Dodecane					CAS #: 112-40-3		
12.856	12.856 (1.406)	57	2693040	50.0000	52.782	80.00- 120.00	100.00
12.856	12.856 (1.406)	43	2182835			50.33- 110.33	81.05
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.407	13.407 (1.466)	180	1498232	56.0500	54.173	80.00- 120.00	100.00
13.407	13.407 (1.466)	182	1418134			65.96- 125.96	94.65
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.515	13.515 (1.478)	225	1285080	56.3500	53.996	80.00- 120.00	100.00
13.515	13.515 (1.478)	223	826853			33.50- 93.50	64.34
232 Naphthalene					CAS #: 91-20-3		
13.658	13.658 (1.493)	128	348420	5.90000	5.290	80.00- 120.00	100.00
13.651	13.651 (1.493)	127	47160			0.00- 42.81	13.54
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.902	13.902 (1.520)	180	1485789	56.3500	55.688	80.00- 120.00	100.00
13.902	13.902 (1.520)	182	1425431			64.83- 124.83	95.94
13.902	13.902 (1.520)	145	492998			3.99- 63.99	33.18

QC Flag Legend

Q - Qualifier signal failed the ratio test.

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 12-NOV-2024 07:49
Lab File ID: a111130a.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/11NOV24.b/a24q0910a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 119 1,2-Dichloroethane-d4	1.73923	1.75892	0.010	-1.13234	30.00000	Averaged
$ 152 Toluene-d8	1.04236	1.05381	0.010	-1.09918	30.00000	Averaged
$ 191 4-Bromofluorobenzene	0.66667	0.66402	0.010	0.39812	30.00000	Averaged
6 Freon 134a	1.09178	1.16852	0.010	-7.02879	30.00000	Averaged
8 Propylene	1.09996	1.11009	0.010	-0.92094	30.00000	Averaged
9 1,1-Difluoroethane	0.63353	0.65716	0.010	-3.73109	30.00000	Averaged
10 Freon 12	2.97742	2.92213	0.010	1.85694	30.00000	Averaged
12 Chlorodifluoromethane	0.30504	0.30606	0.010	-0.33460	30.00000	Averaged
15 Freon 114	1.98907	1.98958	0.010	-0.02549	30.00000	Averaged
16 Isobutane	2.44843	2.55330	0.010	-4.28295	30.00000	Averaged
17 Chloromethane	1.04542	1.13798	0.010	-8.85453	30.00000	Averaged
22 Butane	0.22471	0.21148	0.010	5.88667	30.00000	Averaged
24 Vinyl Chloride	1.07526	1.26012	0.010	-17.19200	30.00000	Averaged
25 1,3-Butadiene	1.01017	1.25185	0.010	-23.92533	30.00000	Averaged
29 Bromomethane	0.82654	0.91671	0.010	-10.90879	30.00000	Averaged
30 Chloroethane	0.57932	0.62452	0.010	-7.80196	30.00000	Averaged
31 Isopentane	1.59686	1.74624	0.010	-9.35469	30.00000	Averaged
32 Vinyl Bromide	1.00533	1.05010	0.010	-4.45344	30.00000	Averaged
33 Freon 11	3.38151	3.36467	0.010	0.49778	30.00000	Averaged
35 Dichlorofluoromethane	2.45207	2.57516	0.010	-5.01964	30.00000	Averaged
37 Pentane	2.46786	2.70141	0.010	-9.46361	30.00000	Averaged
42 Ethanol	0.22234	0.20523	0.010	7.69336	30.00000	Averaged
46 Acrolein	0.46453	0.47936	0.010	-3.19273	30.00000	Averaged
47 Freon 113	2.00207	1.96952	0.010	1.62584	30.00000	Averaged
49 1,1-Dichloroethene	0.67256	0.67518	0.010	-0.38823	30.00000	Averaged
52 Acetone	0.76568	0.76372	0.010	0.25639	30.00000	Averaged
54 Carbon Disulfide	3.05312	3.05830	0.010	-0.16975	30.00000	Averaged
57 2-Propanol	2.70052	2.57498	0.010	4.64849	30.00000	Averaged
58 3-Chloropropene	0.49345	0.49409	0.010	-0.13019	30.00000	Averaged
60 Acetonitrile	0.67005	0.62278	0.010	7.05448	30.00000	Averaged
64 Methylene Chloride	1.93597	2.03165	0.010	-4.94215	30.00000	Averaged
70 tert-Butyl alcohol	3.08468	2.84709	0.010	7.70249	30.00000	Averaged
72 Methyl tert-butyl ether	3.21909	3.17497	0.010	1.37053	30.00000	Averaged
73 trans-1,2-Dichloroethene	0.71617	0.70380	0.010	1.72696	30.00000	Averaged
74 Acrylonitrile	1.11658	1.14275	0.010	-2.34333	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 12-NOV-2024 07:49
Lab File ID: a111130a.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/11NOV24.b/a24q0910a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
78 Hexane	2.40518	2.46073	0.010	-2.30959	30.00000	Averaged
83 1,1-Dichloroethane	2.50636	2.54841	0.010	-1.67764	30.00000	Averaged
82 Isopropyl ether	5.39031	5.44565	0.010	-1.02654	30.00000	Averaged
84 Vinyl Acetate	0.23723	0.23629	0.010	0.39639	30.00000	Averaged
88 Ethyl-tert-butyl ether	4.78407	4.82613	0.010	-0.87910	30.00000	Averaged
90 2,2-Dichloropropane	2.37592	2.30547	0.010	2.96534	30.00000	Averaged
91 cis-1,2-Dichloroethene	0.75072	0.76972	0.010	-2.53140	30.00000	Averaged
92 2-Butanone	0.55736	0.54734	0.010	1.79914	30.00000	Averaged
93 Ethyl Acetate	0.27409	0.28643	0.010	-4.49907	30.00000	Averaged
99 Tetrahydrofuran	1.85496	1.83852	0.010	0.88638	30.00000	Averaged
103 Chloroform	2.70918	2.63832	0.010	2.61555	30.00000	Averaged
104 Cyclohexane	1.41104	1.38470	0.010	1.86688	30.00000	Averaged
106 1,1,1-Trichloroethane	2.77460	2.73057	0.010	1.58698	30.00000	Averaged
112 Carbon Tetrachloride	3.03463	2.95360	0.010	2.67043	30.00000	Averaged
113 1,1-Dichloropropene	0.16962	0.17536	0.010	-3.38642	30.00000	Averaged
117 2,2,4-Trimethylpentane	7.43002	7.75460	0.010	-4.36848	30.00000	Averaged
118 Benzene	0.86615	0.87296	0.010	-0.78536	30.00000	Averaged
120 tert-Amyl methyl ether	0.81240	0.82433	0.010	-1.46854	30.00000	Averaged
121 1,2-Dichloroethane	0.58930	0.59747	0.010	-1.38618	30.00000	Averaged
122 Heptane	0.30189	0.31556	0.010	-4.52788	30.00000	Averaged
128 n-Butanol	0.38350	0.36066	0.010	5.95594	30.00000	Averaged
129 Trichloroethene	0.44160	0.44676	0.010	-1.16888	30.00000	Averaged
131 Methylcyclohexane	1.93576	1.94233	0.010	-0.33939	30.00000	Averaged
135 1,2-Dichloropropane	0.44125	0.44799	0.010	-1.52735	30.00000	Averaged
139 Methyl Methacrylate	0.36455	0.38349	0.010	-5.19466	30.00000	Averaged
140 1,4-Dioxane	0.22692	0.20922	0.010	7.80363	30.00000	Averaged
141 Dibromomethane	0.47548	0.47821	0.010	-0.57256	30.00000	Averaged
142 Bromodichloromethane	0.78151	0.78042	0.010	0.13931	30.00000	Averaged
149 cis-1,3-Dichloropropene	0.61690	0.62857	0.010	-1.89124	30.00000	Averaged
150 4-Methyl-2-pentanone	0.43223	0.43712	0.010	-1.13107	30.00000	Averaged
153 Toluene	1.13780	1.13136	0.010	0.56601	30.00000	Averaged
151 Octane	0.47111	0.49333	0.010	-4.71520	30.00000	Averaged
154 trans-1,3-Dichloropropene	0.59091	0.60486	0.010	-2.36132	30.00000	Averaged
158 1,1,2-Trichloroethane	0.43633	0.44113	0.010	-1.09979	30.00000	Averaged
159 Tetrachloroethene	0.65194	0.63958	0.010	1.89547	30.00000	Averaged

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 12-NOV-2024 07:49
Lab File ID: a111130a.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/11NOV24.b/a24q0910a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
162 2-Hexanone	0.66041	0.67059	0.010	-1.54116	30.00000	Averaged
161 1,3-Dichloropropane	0.59370	0.59416	0.010	-0.07847	30.00000	Averaged
163 Dibromochloromethane	0.91272	0.95890	0.010	-5.05918	30.00000	Averaged
164 1,2-Dibromoethane (EDB)	0.77828	0.79476	0.010	-2.11733	30.00000	Averaged
144 1-Bromo-2-Chloroethane	0.84396	0.85472	0.010	-1.27488	30.00000	Averaged
166 Chlorobenzene	1.04858	1.06163	0.010	-1.24534	30.00000	Averaged
167 Ethyl Benzene	0.51996	0.54247	0.010	-4.32973	30.00000	Averaged
170 Nonane	1.30602	1.43409	0.010	-9.80596	30.00000	Averaged
169 1,1,1,2-Tetrachloroethane	0.61409	0.64155	0.010	-4.47311	30.00000	Averaged
173 m,p-Xylene	0.64733	0.68701	0.010	-6.12932	30.00000	Averaged
176 o-Xylene	0.60564	0.66002	0.010	-8.97899	30.00000	Averaged
178 Styrene	1.03064	1.10076	0.010	-6.80379	30.00000	Averaged
184 Bromoform	0.94935	0.98652	0.010	-3.91449	30.00000	Averaged
185 Cumene	1.93063	2.04695	0.010	-6.02504	30.00000	Averaged
189 Cyclohexanone	0.89810	0.87150	0.010	2.96176	30.00000	Averaged
194 1,1,2,2-Tetrachloroethane	1.03751	1.07939	0.010	-4.03604	30.00000	Averaged
192 Bromobenzene	0.66364	0.68284	0.010	-2.89216	30.00000	Averaged
196 Propylbenzene	0.52108	0.54893	0.010	-5.34343	30.00000	Averaged
197 1,2,3-Trichloropropane	0.33349	0.33359	0.010	-0.02913	30.00000	Averaged
199 Decane	1.46176	1.60879	0.010	-10.05804	30.00000	Averaged
200 4-Ethyltoluene	0.56848	0.59303	0.010	-4.31722	30.00000	Averaged
201 2-Chlorotoluene	0.46883	0.48441	0.010	-3.32345	30.00000	Averaged
204 1,3,5-Trimethylbenzene	0.77053	0.82528	0.010	-7.10604	30.00000	Averaged
209 alpha Methyl Styrene	0.82534	0.89127	0.010	-7.98844	30.00000	Averaged
210 tert-Butylbenzene	1.54693	1.62258	0.010	-4.89009	30.00000	Averaged
212 1,2,4-Trimethylbenzene	0.71606	0.75335	0.010	-5.20753	30.00000	Averaged
214 sec-Butylbenzene	0.46299	0.49114	0.010	-6.07894	30.00000	Averaged
216 p-Cymene	2.02565	2.12748	0.010	-5.02667	30.00000	Averaged
217 1,3-Dichlorobenzene	1.12314	1.16258	0.010	-3.51133	30.00000	Averaged
218 1,4-Dichlorobenzene	1.14833	1.17536	0.010	-2.35398	30.00000	Averaged
219 alpha-Chlorotoluene	1.63610	1.71945	0.010	-5.09424	30.00000	Averaged
221 Undecane	1.70065	1.85822	0.010	-9.26517	30.00000	Averaged
220 Butylbenzene	0.50532	0.53166	0.010	-5.21327	30.00000	Averaged
222 1,2-Dichlorobenzene	1.09835	1.12202	0.010	-2.15553	30.00000	Averaged
226 1,2-Dibromo-3-chloropropane	0.75571	0.74631	0.010	1.24427	30.00000	Averaged
227 Dodecane	1.85502	1.95822	0.010	-5.56326	30.00000	Averaged

US32TAR1

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 12-NOV-2024 07:49
Lab File ID: a111130a.d Init. Cal. Date(s): 10-SEP-2024 10-SEP-2024
Analysis Type: AIR Init. Cal. Times: 12:43 16:14
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/11NOV24.b/a24q0910a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
230 1,2,4-Trichlorobenzene	1.00550	0.97184	0.010	3.34829	30.00000	Averaged
231 Hexachlorobutadiene	0.86528	0.82914	0.010	4.17674	30.00000	Averaged
232 Naphthalene	2.39484	2.14704	0.010	10.34725	30.00000	Averaged
233 1,2,3-Trichlorobenzene	0.97002	0.95863	0.010	1.17385	30.00000	Averaged

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

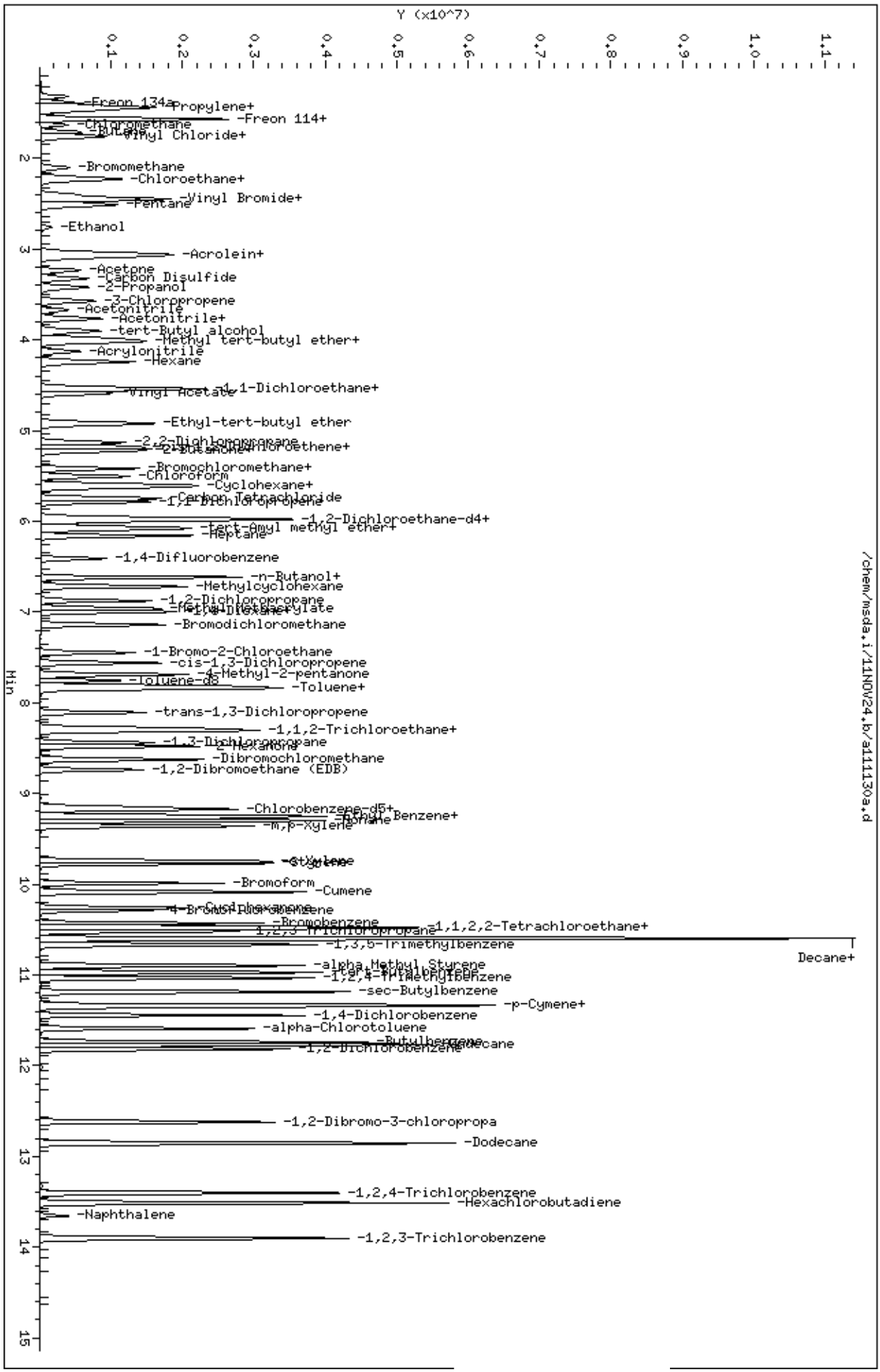
Instrument ID: msda.i
Lab File ID: a111130a.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	204549	-22.86
126 1,4-Difluorobenze	973920	584352	1363488	755920	-22.38
165 Chlorobenzene-d5	894091	536455	1251727	687623	-23.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	-0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	-0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	-0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Data File: /chem/msda.i/11NOV24.b/a111130a.d
Date : 12-NOV-2024 07:49
Client ID: CCV
Sample Info: 50mL 3018-4905
Column phase: RTX-624
Instrument: msda.i
Operator: MS
Column diameter: 0.25
Y (x10^7)
Min
/chem/msda.i/11NOV24.b/a111130a.d
-Freon 134a
-Propylene+
-Freon 114+
-Chloromethane
-Vinyl Chloride+
-Bromomethane
-Chloroethane+
-Vinyl Bromide+
-Pentane
-Ethanol
-Acrolein+
-Acetone
-Carbon Disulfide
-2-Propanol
-3-Chloropropene
-Acetonitrile
-Acetonitrile+
-tert-Butyl alcohol
-Methyl tert-butyl ether+
-Acrylonitrile
-Hexane
-Vinyl Acetate
-1,1-Dichloroethane+
-Ethyl-tert-butyl ether
-2,2-Dichloropropane
-2-Butanone
-Bromochloromethane+
-Chloroform
-Cyclohexane+
-Carbon Tetrachloride
-1,1-Dichloropropene
-1,2-Dichloroethane-d4+
-tert-Amyl methyl ether+
-Heptane
-1,4-Difluorobenzene
-n-Butanol+
-Methylcyclohexane
-1,2-Dichloropropane
-Methyl Methacrylate
-1,4-Dioxane
-Bromodichloromethane
-1-Bromo-2-Chloroethane
-cis-1,3-Dichloropropene
-4-Methyl-2-pentanone
-Toluene-d8
-Toluene+
-trans-1,3-Dichloropropene
-1,1,2-Trichloroethane+
-1,3-Dichloropropane
-2-Hexanone
-Dibromochloromethane
-1,2-Dibromoethane (EDB)
-Chlorobenzene-d5+
-Ethylbenzene+
-M,p-Xylene
-Styrene
-Bromoform
-Cumene
-4-Bromofluorobenzene
-Bromobenzene
-1,1,2,2-Tetrachloroethane+
-1,2,3-Trichloropropane
-1,3,5-Trimethylbenzene
Decane+
-alpha-Methyl Styrene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Cymene+
-1,4-Dichlorobenzene
-alpha-Chlorotoluene
-n-Butylbenzene
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-Dodecane
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene

eurofins | Air Toxics

Client ID:	LCS		
Lab ID:	2410702B-38A	**Date/Time Analyzed:**	11/11/24 10:11 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msda.i / a111104c

Compound	CAS#	%Recovery
1,1-Dichloroethene	75-35-4	99
1,4-Dichlorobenzene	106-46-7	96
Benzene	71-43-2	108
cis-1,2-Dichloroethene	156-59-2	103
Ethyl Benzene	100-41-4	102
m,p-Xylene	108-38-3	101
o-Xylene	95-47-6	102
Toluene	108-88-3	101
trans-1,2-Dichloroethene	156-60-5	102
Trichloroethene	79-01-6	100
Vinyl Chloride	75-01-4	104

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	90
4-Bromofluorobenzene	460-00-4	70-130	96
Toluene-d8	2037-26-5	70-130	102

* % Recovery is calculated using unrounded analytical results.

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111104c.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 11-NOV-2024 10:11
Operator : MS Inst ID: msda.i
Smp Info : 50mL 3018-4858
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 13:55 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	272125	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	210013			46.45- 106.45	77.18
5.428	5.428 (1.000)	49	562035			167.12- 227.12	206.54
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	997866	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	161354			0.00- 46.36	16.17
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	933663	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	523976			27.12- 87.12	56.12
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	425253	22.4627	22.463	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	224036			23.36- 83.36	52.68
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.210)	98	1057776	25.4241	25.424	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	117155			0.00- 41.92	11.08

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.210)	100	724789			39.07- 99.07	68.52
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	599162	24.0648	24.065	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	722663			89.27- 149.27	120.61
10.292	10.292 (1.125)	176	567765			66.29- 126.29	94.76
6 Freon 134a					CAS #: 811-97-2		
1.388	1.381 (0.256)	83	567083	47.7180	47.718	80.00- 120.00	100.00
1.388	1.381 (0.256)	69	476271			41.53- 101.53	83.99
1.388	1.381 (0.256)	63	75036			0.00- 42.30	13.23
8 Propylene					CAS #: 115-07-1		
1.424	1.417 (0.262)	41	635126	53.0462	53.046	80.00- 120.00	100.00
1.424	1.417 (0.262)	42	415360			38.18- 98.18	65.40
1.424	1.417 (0.262)	39	435900			40.18- 100.18	68.63
9 1,1-Difluoroethane					CAS #: 75-37-6		
1.431	1.431 (0.264)	65	366511	53.1488	53.149	80.00- 120.00	100.00
1.474	1.474 (0.272)	51	1389515			362.20- 422.20	379.12
1.438	1.431 (0.265)	47	234301			41.18- 101.18	63.93
10 Freon 12					CAS #: 75-71-8		
1.452	1.445 (0.268)	85	1500686	46.3042	46.304	80.00- 120.00	100.00
1.452	1.445 (0.268)	87	488217			1.90- 61.90	32.53
12 Chlorodifluoromethane					CAS #: 75-45-6		
1.481	1.474 (0.273)	67	154269	46.4623	46.462	80.00- 120.00	100.00(Q)
1.474	1.474 (0.272)	51	1389515			756.67- 816.67	900.70
15 Freon 114					CAS #: 76-14-2		
1.560	1.560 (0.287)	135	1051837	48.5812	48.581	80.00- 120.00	100.00
1.560	1.560 (0.287)	137	336792			1.76- 61.76	32.02
16 Isobutane					CAS #: 75-28-5		
1.574	1.567 (0.290)	43	1442079	54.1092	54.109	80.00- 120.00	100.00
1.574	1.567 (0.290)	42	472861			2.85- 62.85	32.79
1.567	1.567 (0.289)	58	51050			0.00- 33.52	3.54
17 Chloromethane					CAS #: 74-87-3		
1.631	1.632 (0.301)	50	709506	62.3501	62.350	80.00- 120.00	100.00
1.631	1.632 (0.301)	52	225814			2.14- 62.14	31.83
22 Butane					CAS #: 106-97-8		
1.703	1.703 (0.314)	58	125621	51.3582	51.358	80.00- 120.00	100.00(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
22 Butane (continued)							
1.703	1.703 (0.314)	43	1042943			706.79- 766.79	830.23
24 Vinyl Chloride					CAS #: 75-01-4		
1.739	1.739 (0.320)	62	610768	52.1835	52.184	80.00- 120.00	100.00
1.739	1.739 (0.320)	64	180182			0.00- 59.56	29.50
25 1,3-Butadiene					CAS #: 106-99-0		
1.760	1.760 (0.324)	54	588623	53.5322	53.532	80.00- 120.00	100.00
1.760	1.760 (0.324)	39	550786			64.19- 124.19	93.57
29 Bromomethane					CAS #: 74-83-9		
2.104	2.097 (0.388)	94	516081	57.3618	57.362	80.00- 120.00	100.00
2.104	2.097 (0.388)	96	481008			63.72- 123.72	93.20
30 Chloroethane					CAS #: 75-00-3		
2.205	2.205 (0.406)	64	354676	56.2454	56.245	80.00- 120.00	100.00
2.205	2.205 (0.406)	66	107076			0.20- 60.20	30.19
2.205	2.205 (0.406)	49	124230			7.38- 67.38	35.03
31 Isopentane					CAS #: 78-78-4		
2.226	2.226 (0.410)	43	985054	56.6715	56.671	80.00- 120.00	100.00
2.226	2.226 (0.410)	57	650367			38.61- 98.61	66.02
32 Vinyl Bromide					CAS #: 593-60-2		
2.398	2.398 (0.442)	106	584333	53.3976	53.398	80.00- 120.00	100.00
2.398	2.398 (0.442)	108	551094			62.27- 122.27	94.31
33 Freon 11					CAS #: 75-69-4		
2.441	2.441 (0.450)	101	1682104	45.6997	45.700	80.00- 120.00	100.00
2.441	2.441 (0.450)	103	1094279			35.49- 95.49	65.05
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.448	2.448 (0.451)	67	1401844	52.5215	52.522	80.00- 120.00	100.00
2.448	2.448 (0.451)	69	431588			0.95- 60.95	30.79
37 Pentane					CAS #: 109-66-0		
2.513	2.513 (0.463)	43	1497712	55.7542	55.754	80.00- 120.00	100.00
2.513	2.513 (0.463)	57	226401			0.00- 45.38	15.12
2.513	2.513 (0.463)	72	106390			0.00- 37.02	7.10
42 Ethanol					CAS #: 64-17-5		
2.770	2.763 (0.510)	46	144151	59.5633	59.563	80.00- 120.00	100.00
2.770	2.763 (0.510)	45	373138			225.08- 285.08	258.85
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.562)	55	298561	59.0460	59.046	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
46 Acrolein (continued)							
3.050	3.050 (0.562)	56	417386			109.39- 169.39	139.80
47 Freon 113					CAS #: 76-13-1		
3.057	3.057 (0.563)	151	1013903	46.5251	46.525	80.00- 120.00	100.00
3.057	3.057 (0.563)	153	651151			33.72- 93.72	64.22
3.057	3.050 (0.563)	101	1302639			94.86- 154.86	128.48
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.086	3.086 (0.568)	98	361441	49.3713	49.371	80.00- 120.00	100.00
3.086	3.086 (0.568)	96	566086			127.35- 187.35	156.62
3.086	3.086 (0.568)	61	1249323			327.38- 387.38	345.65
52 Acetone					CAS #: 67-64-1		
3.236	3.236 (0.596)	58	431691	51.7960	51.796	80.00- 120.00	100.00
3.236	3.236 (0.596)	43	1359944			290.16- 350.16	315.03
54 Carbon Disulfide					CAS #: 75-15-0		
3.322	3.322 (0.612)	76	1776833	53.4655	53.465	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.422	3.429 (0.630)	45	1705600	58.0231	58.023	80.00- 120.00	100.00
3.422	3.422 (0.630)	43	314684			0.00- 48.07	18.45
3.422	3.422 (0.630)	59	64390			0.00- 33.65	3.78
58 3-Chloropropene					CAS #: 107-05-1		
3.573	3.573 (0.658)	76	288441	53.7017	53.702	80.00- 120.00	100.00
3.573	3.573 (0.658)	41	1107942			369.70- 429.70	384.11
60 Acetonitrile					CAS #: 75-05-8		
3.680	3.673 (0.678)	40	391089	53.6216	53.622	80.00- 120.00	100.00
3.680	3.673 (0.678)	41	750520			161.56- 221.56	191.91
3.766	3.766 (0.694)	38	5382			0.00- 31.07	1.38
64 Methylene Chloride					CAS #: 75-09-2		
3.766	3.766 (0.694)	49	1105882	52.4785	52.478	80.00- 120.00	100.00
3.766	3.766 (0.694)	84	538301			18.48- 78.48	48.68
3.766	3.766 (0.694)	51	338021			0.91- 60.91	30.57
70 tert-Butyl alcohol					CAS #: 75-65-0		
3.902	3.902 (0.719)	59	1770300	52.7238	52.724	80.00- 120.00	100.00
3.902	3.902 (0.719)	41	398060			0.00- 51.01	22.49
3.902	3.902 (0.719)	57	183527			0.00- 41.01	10.37
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.995	3.995 (0.736)	73	1670560	47.6760	47.676	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.995	3.995 (0.736)	57	536056			0.93- 60.93	32.09
3.995	3.988 (0.736)	41	529360			0.00- 59.87	31.69
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	399330	51.2259	51.226	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	1209768			282.80- 342.80	302.95
4.024	4.024 (0.741)	96	623421			122.91- 182.91	156.12
74 Acrylonitrile					CAS #: 107-13-1		
4.131	4.131 (0.761)	52	646444	53.1876	53.188	80.00- 120.00	100.00
4.131	4.131 (0.761)	53	766221			88.44- 148.44	118.53
78 Hexane					CAS #: 110-54-3		
4.246	4.246 (0.782)	57	1321813	50.4886	50.489	80.00- 120.00	100.00
4.246	4.239 (0.782)	43	878192			34.01- 94.01	66.44
4.246	4.246 (0.782)	86	139981			0.00- 40.22	10.59
83 1,1-Dichloroethane					CAS #: 75-34-3		
4.547	4.547 (0.838)	63	1383930	50.7273	50.727	80.00- 120.00	100.00
4.547	4.547 (0.838)	65	408011			0.00- 59.58	29.48
82 Isopropyl ether					CAS #: 108-20-3		
4.540	4.533 (0.836)	45	3035969	51.7433	51.743	80.00- 120.00	100.00
4.540	4.540 (0.836)	87	516608			0.00- 47.08	17.02
4.540	4.540 (0.836)	59	319623			0.00- 40.83	10.53
84 Vinyl Acetate					CAS #: 108-05-4		
4.597	4.597 (0.847)	86	160653	62.2136	62.214	80.00- 120.00	100.00
4.597	4.590 (0.847)	43	2761138			1663.30-1723.30	1718.69
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.926	4.927 (0.908)	59	2514204	48.2807	48.281	80.00- 120.00	100.00
4.926	4.927 (0.908)	87	742884			0.00- 58.78	29.55
4.919	4.927 (0.906)	41	480121			0.00- 48.47	19.10
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.134	5.134 (0.946)	77	1138936	44.0391	44.039	80.00- 120.00	100.00
5.134	5.134 (0.946)	79	371754			2.20- 62.20	32.64
5.134	5.134 (0.946)	97	250049			0.00- 50.29	21.95
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	422833	51.7445	51.744	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	662679			123.49- 183.49	156.72
5.177	5.177 (0.954)	61	1410715			310.35- 370.35	333.63

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
5.206	5.206 (0.959)	72	324073	53.4164	53.416	80.00- 120.00	100.00(Q)
5.220	5.220 (0.962)	43	4121774			1272.59-1332.59	1271.87
5.206	5.206 (0.959)	57	153681			18.61- 78.61	47.42
93 Ethyl Acetate					CAS #: 141-78-6		
5.227	5.227 (0.963)	70	164130	55.0124	55.012	80.00- 120.00	100.00(Q)
5.177	5.177 (0.954)	61	1410715			877.60- 937.60	859.51
5.227	5.227 (0.963)	45	338147			179.24- 239.24	206.02
99 Tetrahydrofuran					CAS #: 109-99-9		
5.414	5.414 (0.997)	42	1072645	53.1241	53.124	80.00- 120.00	100.00
5.414	5.414 (0.997)	71	282777			0.00- 56.60	26.36
5.414	5.414 (0.997)	72	294209			0.00- 56.86	27.43
103 Chloroform					CAS #: 67-66-3		
5.507	5.507 (1.014)	83	1351749	45.8384	45.838	80.00- 120.00	100.00
5.507	5.507 (1.014)	85	876791			34.90- 94.90	64.86
104 Cyclohexane					CAS #: 110-82-7		
5.600	5.600 (1.032)	84	784491	51.0764	51.076	80.00- 120.00	100.00
5.600	5.600 (1.032)	56	1408484			152.85- 212.85	179.54
5.600	5.600 (1.032)	41	742083			65.81- 125.81	94.59
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.628	5.628 (1.037)	97	1353103	44.8023	44.802	80.00- 120.00	100.00
5.628	5.628 (1.037)	99	872973			34.79- 94.79	64.52
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.750	5.750 (1.059)	119	1419994	42.9883	42.988	80.00- 120.00	100.00
5.750	5.750 (1.059)	117	1476560			73.63- 133.63	103.98
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.786	5.786 (0.903)	110	345365	51.0127	51.013	80.00- 120.00	100.00
5.786	5.786 (0.903)	75	983533			260.30- 320.30	284.78
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.972	5.972 (1.100)	57	4256233	52.6267	52.627	80.00- 120.00	100.00
5.972	5.972 (1.100)	56	1378859			2.18- 62.18	32.40
5.972	5.972 (1.100)	41	1052817			0.00- 55.61	24.74
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	1867751	54.0246	54.024	80.00- 120.00	100.00
5.987	5.987 (0.934)	77	445479			0.00- 53.99	23.85
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.073	6.073 (1.119)	87	428946	48.5071	48.507	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.073	6.073 (1.119)	73	1732344			362.99- 422.99	403.86
6.073	6.073 (1.119)	55	676280			122.42- 182.42	157.66
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.087	6.087 (0.950)	62	1105502	46.9990	46.999	80.00- 120.00	100.00
6.094	6.094 (0.951)	64	347266			1.65- 61.65	31.41
122 Heptane					CAS #: 142-82-5		
6.166	6.159 (0.962)	71	661096	54.8631	54.863	80.00- 120.00	100.00
6.166	6.159 (0.962)	43	1692510			240.22- 300.22	256.02
6.166	6.159 (0.962)	57	886802			110.36- 170.36	134.14
128 n-Butanol					CAS #: 71-36-3		
6.617	6.617 (1.032)	56	868381	56.7296	56.730	80.00- 120.00	100.00
6.617	6.617 (1.032)	41	611132			39.42- 99.42	70.38
6.617	6.617 (1.032)	43	499168			25.37- 85.37	57.48
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	879457	49.8944	49.894	80.00- 120.00	100.00
6.617	6.617 (1.032)	130	866150			67.98- 127.98	98.49
6.617	6.617 (1.032)	97	570140			34.45- 94.45	64.83
131 Methylcyclohexane					CAS #: 108-87-2		
6.717	6.717 (1.238)	83	1060124	50.3124	50.312	80.00- 120.00	100.00
6.717	6.717 (1.238)	98	471688			14.33- 74.33	44.49
6.717	6.717 (1.238)	55	1299056			96.87- 156.87	122.54
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.073)	63	922843	52.3974	52.397	80.00- 120.00	100.00
6.875	6.875 (1.073)	62	672372			41.06- 101.06	72.86
6.875	6.875 (1.073)	41	513291			28.31- 88.31	55.62
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	748363	54.9668	54.967	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	1299296			153.10- 213.10	173.62
6.961	6.961 (0.761)	100	264104			8.18- 68.18	35.29
140 1,4-Dioxane					CAS #: 123-91-1		
6.982	6.982 (1.089)	88	468392	51.7128	51.713	80.00- 120.00	100.00
6.982	6.982 (1.089)	58	496936			74.98- 134.98	106.09
6.982	6.982 (1.089)	57	178557			8.55- 68.55	38.12
141 Dibromomethane					CAS #: 74-95-3		
6.997	6.997 (0.765)	174	848863	47.8027	47.803	80.00- 120.00	100.00
6.997	6.997 (0.765)	93	844757			66.30- 126.30	99.52

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
141 Dibromomethane (continued)							
6.997	6.997 (0.765)	95	697342			49.87- 109.87	82.15
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.114)	83	1486112	47.6415	47.641	80.00- 120.00	100.00
7.140	7.140 (1.114)	85	962451			34.86- 94.86	64.76
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.562	7.563 (1.180)	75	1305218	53.0073	53.007	80.00- 120.00	100.00
7.562	7.563 (1.180)	77	414470			1.88- 61.88	31.75
7.562	7.563 (1.180)	39	793372			33.29- 93.29	60.78
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.691	7.691 (1.200)	58	911389	52.8266	52.826	80.00- 120.00	100.00
7.691	7.691 (1.200)	43	2443571			235.08- 295.08	268.12
7.691	7.691 (1.200)	85	280563			0.69- 60.69	30.78
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.219)	91	2304154	50.7359	50.736	80.00- 120.00	100.00
7.813	7.813 (1.219)	92	1323930			27.69- 87.69	57.46
151 Octane					CAS #: 111-65-9		
7.842	7.842 (1.224)	57	960932	51.1016	51.102	80.00- 120.00	100.00
7.842	7.842 (1.224)	85	741095			46.75- 106.75	77.12
7.842	7.842 (1.224)	43	2438089			221.22- 281.22	253.72
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.107	8.107 (0.886)	75	1089691	49.3782	49.378	80.00- 120.00	100.00
8.107	8.107 (0.886)	77	352957			1.61- 61.61	32.39
8.107	8.107 (0.886)	39	617937			26.86- 86.86	56.71
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	835847	51.2929	51.293	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	515661			32.96- 92.96	61.69
8.279	8.279 (0.905)	83	761870			59.05- 119.05	91.15
159 Tetrachloroethene					CAS #: 127-18-4		
8.307	8.307 (0.908)	166	1139151	46.7867	46.787	80.00- 120.00	100.00
8.307	8.307 (0.908)	129	872102			46.43- 106.43	76.56
8.307	8.307 (0.908)	131	853346			45.56- 105.56	74.91
162 2-Hexanone					CAS #: 591-78-6		
8.479	8.479 (0.927)	58	1308876	53.0679	53.068	80.00- 120.00	100.00
8.479	8.479 (0.927)	43	2508342			159.07- 219.07	191.64
8.479	8.479 (0.927)	100	176803			0.00- 43.98	13.51

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.317)	76	1212206	51.1541	51.154	80.00- 120.00	100.00
8.436	8.436 (1.316)	41	1083491			59.80- 119.80	89.38
8.444	8.444 (1.317)	78	393368			2.58- 62.58	32.45
163 Dibromochloromethane					CAS #: 124-48-1		
8.623	8.623 (0.943)	129	1611547	47.2774	47.277	80.00- 120.00	100.00
8.623	8.623 (0.943)	127	1244622			47.90- 107.90	77.23
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.737	8.737 (0.955)	107	1443105	49.6491	49.649	80.00- 120.00	100.00
8.737	8.737 (0.955)	109	1363287			64.00- 124.00	94.47
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.162)	63	1764020	52.3658	52.366	80.00- 120.00	100.00
7.448	7.448 (1.162)	65	518767			0.00- 58.67	29.41
7.448	7.448 (1.162)	144	151097			0.00- 39.14	8.57
166 Chlorobenzene					CAS #: 108-90-7		
9.174	9.174 (1.003)	112	1940075	49.5414	49.541	80.00- 120.00	100.00
9.174	9.174 (1.003)	114	631483			2.75- 62.75	32.55
9.174	9.174 (1.003)	77	1149901			30.27- 90.27	59.27
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.011)	106	995055	51.2424	51.242	80.00- 120.00	100.00
9.246	9.246 (1.011)	91	3114533			281.27- 341.27	313.00
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.017)	43	2516107	51.5856	51.586	80.00- 120.00	100.00
9.303	9.303 (1.017)	57	2184198			57.91- 117.91	86.81
9.303	9.303 (1.017)	85	580307			0.00- 52.91	23.06
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	1068730	46.6003	46.600	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	733015			34.91- 94.91	68.59
9.267	9.267 (1.013)	95	421335			10.71- 70.71	39.42
173 m,p-Xylene					CAS #: 108-38-3		
9.360	9.360 (1.023)	106	1223885	50.6248	50.625	80.00- 120.00	100.00
9.360	9.360 (1.023)	91	2500264			176.41- 236.41	204.29
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.066)	106	1152259	50.9429	50.943	80.00- 120.00	100.00
9.747	9.747 (1.066)	91	2466820			186.60- 246.60	214.09
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.069)	104	1998123	51.9118	51.912	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.776	9.776 (1.069)	78	1047218			26.08- 86.08	52.41
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	1650340	46.5474	46.547	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	849899			22.58- 82.58	51.50
185 Cumene					CAS #: 98-82-8		
10.084	10.084 (1.103)	105	3497503	48.5075	48.508	80.00- 120.00	100.00
10.084	10.084 (1.103)	120	912170			0.00- 55.43	26.08
10.084	10.084 (1.103)	51	511554			0.00- 44.39	14.63
189 Cyclohexanone					CAS #: 108-94-1		
10.256	10.256 (1.121)	55	1712199	51.0481	51.048	80.00- 120.00	100.00
10.256	10.256 (1.121)	98	467574			0.00- 57.69	27.31
10.256	10.256 (1.121)	42	1050086			32.21- 92.21	61.33
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.145)	83	1989131	51.3356	51.336	80.00- 120.00	100.00
10.471	10.471 (1.145)	85	1293084			35.63- 95.63	65.01
192 Bromobenzene					CAS #: 108-86-1		
10.428	10.428 (1.140)	156	1161108	46.8475	46.848	80.00- 120.00	100.00
10.428	10.428 (1.140)	158	1127765			68.15- 128.15	97.13
10.428	10.428 (1.140)	77	1835082			125.89- 185.89	158.05
196 Propylbenzene					CAS #: 103-65-1		
10.485	10.485 (1.146)	120	964642	49.5689	49.569	80.00- 120.00	100.00
10.485	10.485 (1.146)	91	4172343			403.96- 463.96	432.53
10.485	10.485 (1.146)	105	156588			0.00- 46.94	16.23
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.150)	110	548336	44.0267	44.027	80.00- 120.00	100.00
10.521	10.521 (1.150)	75	1511665			232.06- 292.06	275.68
10.521	10.521 (1.150)	61	523912			62.53- 122.53	95.55
199 Decane					CAS #: 124-18-5		
10.592	10.592 (1.158)	57	2864769	52.4762	52.476	80.00- 120.00	100.00
10.592	10.592 (1.158)	71	772366			0.00- 56.58	26.96
10.600	10.600 (1.159)	142	85611			0.00- 33.23	2.99
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.159)	120	1051449	49.5244	49.524	80.00- 120.00	100.00
10.600	10.600 (1.159)	105	3578960			317.00- 377.00	340.38
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.160)	126	839166	47.9271	47.927	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.600	10.600 (1.159)	91	2912496			317.25- 377.25	347.07
10.600	10.600 (1.159)	65	496122			32.33- 92.33	59.12
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.664	10.664 (1.166)	120	1415486	49.1890	49.189	80.00- 120.00	100.00
10.664	10.664 (1.166)	105	3038001			190.09- 250.09	214.63
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.900	10.900 (1.192)	118	1576603	51.1492	51.149	80.00- 120.00	100.00
10.900	10.900 (1.192)	103	956488			32.49- 92.49	60.67
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.200)	119	2736481	47.3665	47.366	80.00- 120.00	100.00
10.972	10.972 (1.200)	134	658733			0.00- 53.10	24.07
10.972	10.972 (1.200)	91	1912424			40.97- 100.97	69.89
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.207)	120	1361122	50.8973	50.897	80.00- 120.00	100.00
11.037	11.037 (1.207)	105	3086284			204.98- 264.98	226.75
214 sec-Butylbenzene					CAS #: 135-98-8		
11.187	11.187 (1.223)	134	852673	49.3125	49.312	80.00- 120.00	100.00
11.187	11.187 (1.223)	105	4322940			484.40- 544.40	506.99
11.187	11.187 (1.223)	91	690958			54.94- 114.94	81.03
216 p-Cymene					CAS #: 99-87-6		
11.330	11.330 (1.239)	119	3651917	48.2731	48.273	80.00- 120.00	100.00
11.330	11.330 (1.239)	134	963396			0.00- 55.89	26.38
11.330	11.330 (1.239)	91	913713			0.00- 56.21	25.02
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.241)	146	2033312	48.4751	48.475	80.00- 120.00	100.00
11.352	11.352 (1.241)	148	1294577			33.67- 93.67	63.67
11.345	11.352 (1.240)	111	871370			13.82- 73.82	42.85
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.251)	146	2066933	48.1959	48.196	80.00- 120.00	100.00
11.445	11.445 (1.251)	148	1320016			34.50- 94.50	63.86
11.445	11.445 (1.251)	111	854799			12.20- 72.20	41.36
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.588	11.588 (1.267)	91	2762489	45.2105	45.210	80.00- 120.00	100.00
11.588	11.588 (1.267)	126	575867			0.00- 50.42	20.85
221 Undecane					CAS #: 1120-21-4		
11.774	11.767 (1.287)	57	3428703	53.9838	53.984	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
221 Undecane (continued)							
11.767	11.767 (1.287)	43	2995805			57.09- 117.09	87.37
220 Butylbenzene					CAS #: 104-51-8		
11.739	11.739 (1.284)	134	960733	50.9080	50.908	80.00- 120.00	100.00
11.739	11.739 (1.284)	91	3688352			345.70- 405.70	383.91
11.739	11.739 (1.284)	92	1942550			168.03- 228.03	202.19
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.817	11.817 (1.292)	146	1950621	47.5535	47.554	80.00- 120.00	100.00
11.817	11.817 (1.292)	148	1234326			33.89- 93.89	63.28
11.817	11.817 (1.292)	111	863613			15.34- 75.34	44.27
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.627	12.620 (1.381)	157	1348207	47.7696	47.770	80.00- 120.00	100.00
12.627	12.620 (1.381)	75	1227845			65.80- 125.80	91.07
12.627	12.620 (1.381)	155	1050670			47.61- 107.61	77.93
227 Dodecane					CAS #: 112-40-3		
12.863	12.849 (1.406)	57	4021393	58.0466	58.046	80.00- 120.00	100.00
12.863	12.849 (1.406)	43	3292846			50.33- 110.33	81.88
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.408	13.400 (1.466)	180	2085683	55.5411	55.541	80.00- 120.00	100.00
13.408	13.400 (1.466)	182	1976839			65.96- 125.96	94.78
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.522	13.508 (1.479)	225	1663362	51.4732	51.473	80.00- 120.00	100.00
13.522	13.508 (1.479)	223	1054438			33.50- 93.50	63.39
232 Naphthalene					CAS #: 91-20-3		
13.658	13.651 (1.493)	128	517562	5.78676	5.787	80.00- 120.00	100.00
13.658	13.651 (1.493)	127	64675			0.00- 42.81	12.50
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.909	13.895 (1.521)	180	2011063	55.5130	55.513	80.00- 120.00	100.00
13.909	13.895 (1.521)	182	1905668			64.83- 124.83	94.76
13.902	13.895 (1.520)	145	657595			3.99- 63.99	32.70

QC Flag Legend

Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111104c.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	272125	2.62
126 1,4-Difluorobenze	973920	584352	1363488	997866	2.46
165 Chlorobenzene-d5	894091	536455	1251727	933663	4.43

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	-0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

US32TAR1

RECOVERY REPORT

Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: MS
Data Type: MS DATA SampleType: LCS
SpikeList File: ControlDODAT24.spk Quant Type: ISTD
Sublist File: AT24.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Freon 134a	50.000	47.718	95.44	70-130
8 Propylene	50.000	53.046	106.09	57-136
9 1,1-Difluoroethan	50.000	53.149	106.30	70-130
10 Freon 12	50.000	46.304	92.61	59-128
12 Chlorodifluoromet	50.000	46.462	92.92	59-145
15 Freon 114	50.000	48.581	97.16	63-121
16 Isobutane	50.000	54.109	108.22	70-130
17 Chloromethane	50.000	62.350	124.70	59-132
22 Butane	50.000	51.358	102.72	64-129
24 Vinyl Chloride	50.000	52.184	104.37	64-127
25 1,3-Butadiene	50.000	53.532	107.06	66-134
29 Bromomethane	50.000	57.362	114.72	63-134
30 Chloroethane	50.000	56.245	112.49	63-127
31 Isopentane	50.000	56.671	113.34	59-140
32 Vinyl Bromide	50.000	53.398	106.80	71-126
33 Freon 11	50.000	45.700	91.40	62-126
35 Dichlorofluoromet	50.000	52.522	105.04	70-130
37 Pentane	50.000	55.754	111.51	63-131
42 Ethanol	58.000	59.563	102.70	59-125
46 Acrolein	58.000	59.046	101.80	62-126
47 Freon 113	50.000	46.525	93.05	66-126
49 1,1-Dichloroethen	50.000	49.371	98.74	61-133
52 Acetone	50.000	51.796	103.59	58-128
54 Carbon Disulfide	50.000	53.465	106.93	57-134
57 2-Propanol	50.000	58.023	116.05	52-125
58 3-Chloropropene	50.000	53.702	107.40	71-131
60 Acetonitrile	50.000	53.622	107.24	63-132
64 Methylene Chlorid	50.000	52.478	104.96	62-115
70 tert-Butyl alcoho	50.000	52.724	105.45	24-150
72 Methyl tert-butyl	50.000	47.676	95.35	66-126
73 trans-1,2-Dichlor	50.000	51.226	102.45	67-124
74 Acrylonitrile	50.000	53.188	106.38	71-137
78 Hexane	50.000	50.489	100.98	63-120

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
83	1,1-Dichloroethan	50.000	50.727	101.45	68-126
82	Isopropyl ether	50.000	51.743	103.49	70-117
84	Vinyl Acetate	50.000	62.214	124.43	56-139
88	Ethyl-tert-butyl	50.000	48.281	96.56	70-130
90	2,2-Dichloropropa	50.000	44.039	88.08	70-130
91	cis-1,2-Dichloroe	50.000	51.744	103.49	70-121
92	2-Butanone	50.000	53.416	106.83	67-130
93	Ethyl Acetate	50.000	55.012	110.02	65-128
99	Tetrahydrofuran	50.000	53.124	106.25	64-123
103	Chloroform	50.000	45.838	91.68	68-123
106	1,1,1-Trichloroet	50.000	44.802	89.60	68-125
112	Carbon Tetrachlor	50.000	42.988	85.98	68-132
104	Cyclohexane	50.000	51.076	102.15	70-117
113	1,1-Dichloroprope	50.000	51.013	102.03	70-130
117	2,2,4-Trimethylpe	50.000	52.627	105.25	68-121
118	Benzene	50.000	54.024	108.05	69-119
121	1,2-Dichloroethan	50.000	46.999	94.00	65-128
122	Heptane	50.000	54.863	109.73	69-123
128	n-Butanol	50.000	56.730	113.46	62-133
129	Trichloroethene	50.000	49.894	99.79	71-123
131	Methylcyclohexane	50.000	50.312	100.62	67-127
135	1,2-Dichloropropa	50.000	52.397	104.79	69-123
139	Methyl Methacryla	50.000	54.967	109.93	70-128
140	1,4-Dioxane	50.000	51.713	103.43	71-122
141	Dibromomethane	50.000	47.803	95.61	70-130
142	Bromodichlorometh	50.000	47.641	95.28	72-128
149	cis-1,3-Dichlorop	50.000	53.007	106.01	70-128
150	4-Methyl-2-pentan	50.000	52.826	105.65	67-130
151	Octane	50.000	51.102	102.20	69-121
153	Toluene	50.000	50.736	101.47	66-119
154	trans-1,3-Dichlor	50.000	49.378	98.76	75-133
158	1,1,2-Trichloroet	50.000	51.293	102.59	73-119
159	Tetrachloroethene	50.000	46.787	93.57	66-124
162	2-Hexanone	50.000	53.068	106.14	62-128
161	1,3-Dichloropropa	50.000	51.154	102.31	62-148
163	Dibromochlorometh	50.000	47.277	94.55	70-130
164	1,2-Dibromoethane	50.000	49.649	99.30	74-122
144	1-Bromo-2-Chloroe	50.000	52.366	104.73	70-130
166	Chlorobenzene	50.000	49.541	99.08	70-119
167	Ethyl Benzene	50.000	51.242	102.48	70-124
170	Nonane	50.000	51.586	103.17	63-128
169	1,1,1,2-Tetrachlo	50.000	46.600	93.20	70-130
173	m,p-Xylene	50.000	50.625	101.25	61-134
176	o-Xylene	50.000	50.943	101.89	67-125
178	Styrene	50.000	51.912	103.82	73-127
184	Bromoform	50.000	46.547	93.09	66-139
185	Cumene	50.000	48.508	97.02	68-124

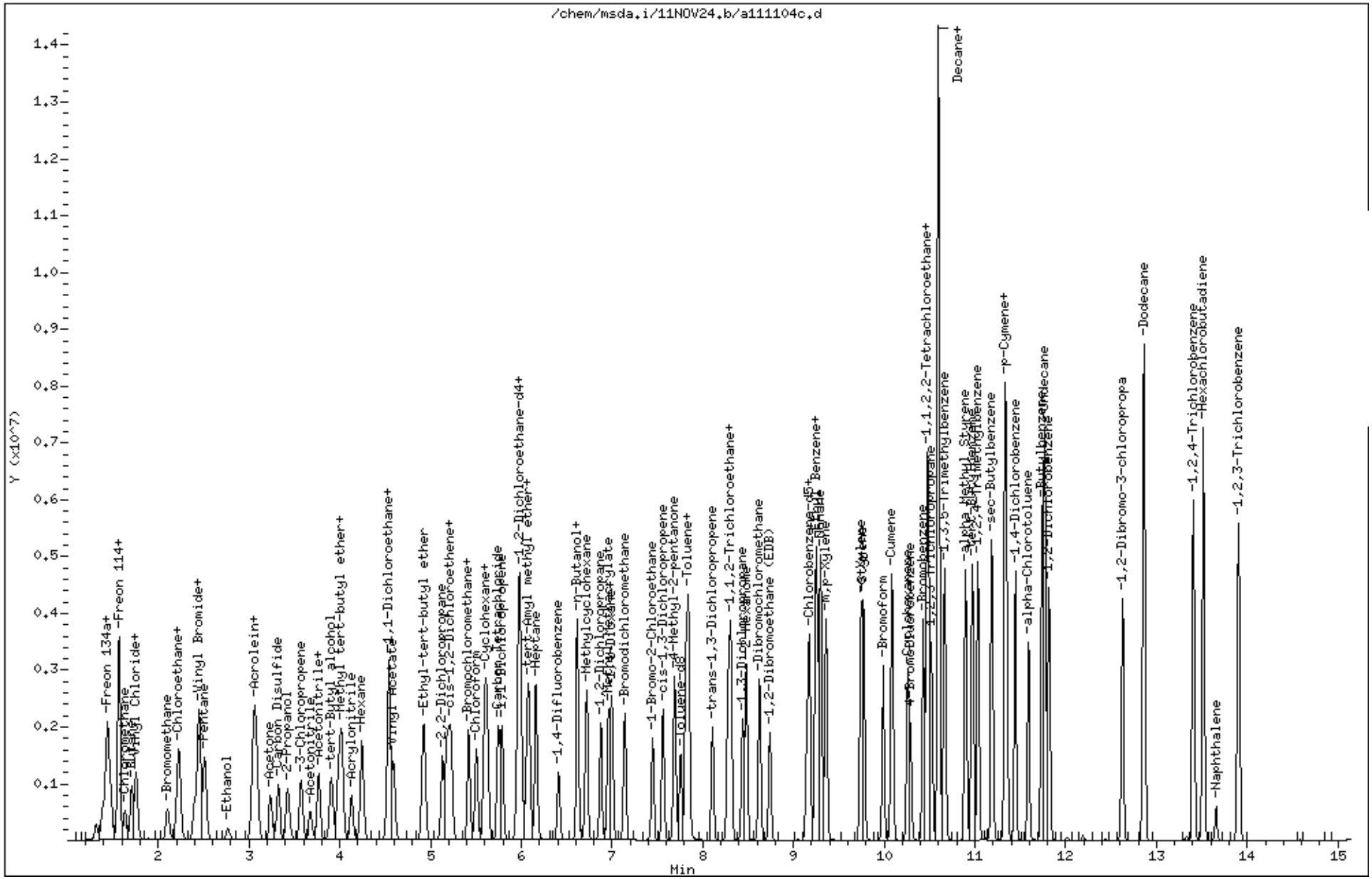
	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
194	1,1,2,2-Tetrachlo	50.000	51.336	102.67	65-127
192	Bromobenzene	50.000	46.848	93.70	70-130
196	Propylbenzene	50.000	49.569	99.14	69-123
197	1,2,3-Trichloropr	50.000	44.027	88.05	76-124
199	Decane	50.000	52.476	104.95	70-118
200	4-Ethyltoluene	50.000	49.524	99.05	67-129
201	2-Chlorotoluene	50.000	47.927	95.85	74-130
204	1,3,5-Trimethylbe	50.000	49.189	98.38	67-130
209	alpha Methyl Styr	50.000	51.149	102.30	67-128
210	tert-Butylbenzene	50.000	47.366	94.73	65-124
212	1,2,4-Trimethylbe	50.000	50.897	101.79	66-132
214	sec-Butylbenzene	50.000	49.312	98.63	68-125
216	p-Cymene	50.000	48.273	96.55	67-130
217	1,3-Dichlorobenze	50.000	48.475	96.95	65-130
218	1,4-Dichlorobenze	50.000	48.196	96.39	60-131
219	alpha-Chlorotolue	50.000	45.210	90.42	50-147
221	Undecane	50.000	53.984	107.97	69-123
220	Butylbenzene	50.000	50.908	101.82	66-130
222	1,2-Dichlorobenze	50.000	47.554	95.11	63-129
226	1,2-Dibromo-3-chl	50.000	47.770	95.54	70-130
227	Dodecane	50.000	58.046	116.09	62-147
230	1,2,4-Trichlorobe	50.000	55.541	111.08	55-142
231	Hexachlorobutadie	50.000	51.473	102.95	56-138
232	Naphthalene	6.000	5.787	96.45	57-138
233	1,2,3-Trichlorobe	50.000	55.513	111.03	55-142

	SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119	1,2-Dichloroethan	25.000	22.463	89.85	70-130
$ 152	Toluene-d8	25.000	25.424	101.70	70-130
$ 191	4-Bromofluorobenz	25.000	24.065	96.26	70-130

Data File: /chem/msda.i/11NOV24.b/a111104c.d
Date : 11-NOV-2024 10:11
Client ID: LCS
Sample Info: 50mL 3018-4858

Instrument: msda.i
Operator: MS
Column diameter: 0.25

Column phase: RTX-624



eurofins | Air Toxics

Client ID:	LCSD		
Lab ID:	2410702B-38AA	**Date/Time Analyzed:**	11/11/24 10:45 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msda.i / a111105c

Compound	CAS#	%Recovery
1,1-Dichloroethene	75-35-4	99
1,4-Dichlorobenzene	106-46-7	95
Benzene	71-43-2	106
cis-1,2-Dichloroethene	156-59-2	106
Ethyl Benzene	100-41-4	100
m,p-Xylene	108-38-3	100
o-Xylene	95-47-6	102
Toluene	108-88-3	100
trans-1,2-Dichloroethene	156-60-5	101
Trichloroethene	79-01-6	98
Vinyl Chloride	75-01-4	125

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	91
4-Bromofluorobenzene	460-00-4	70-130	95
Toluene-d8	2037-26-5	70-130	103

* % Recovery is calculated using unrounded analytical results.

US32TAR1

EPA TO-15/MODIFIED EPA TO14A

Data file : /chem/msda.i/11NOV24.b/a111105c.d
Lab Smp Id: LCD Client Smp ID: LCSD
Inj Date : 11-NOV-2024 10:45
Operator : MS Inst ID: msda.i
Smp Info : 50mL 3018-4858
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL GC/MS
Method : /chem/msda.i/11NOV24.b/a24q0910a.m
Meth Date : 12-Nov-2024 13:55 lk8g Quant Type: ISTD
Cal Date : 10-SEP-2024 16:14 Cal File: a091011.d
Als bottle: 14 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT24.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 100 Bromochloromethane					CAS #: 74-97-5		
5.428	5.428 (1.000)	130	269541	25.0000		80.00- 120.00	100.00
5.428	5.428 (1.000)	128	211120			46.45- 106.45	78.33
5.428	5.428 (1.000)	49	555758			167.12- 227.12	206.19
* 126 1,4-Difluorobenzene					CAS #: 540-36-3		
6.409	6.409 (1.000)	114	1003767	25.0000		80.00- 120.00	100.00
6.409	6.409 (1.000)	88	166596			0.00- 46.36	16.60
* 165 Chlorobenzene-d5					CAS #: 3114-55-4		
9.146	9.146 (1.000)	117	936599	25.0000		80.00- 120.00	100.00
9.146	9.146 (1.000)	82	530361			27.12- 87.12	56.63
$ 119 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.015	6.015 (1.108)	65	426399	22.7391	22.739	80.00- 120.00	100.00
6.015	6.015 (1.108)	67	241407			23.36- 83.36	56.62
$ 152 Toluene-d8					CAS #: 2037-26-5		
7.756	7.756 (1.210)	98	1077952	25.7567	25.757	80.00- 120.00	100.00
7.756	7.756 (1.210)	70	120779			0.00- 41.92	11.20

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 152 Toluene-d8 (continued)							
7.756	7.756 (1.210)	100	729343			39.07- 99.07	67.66
$ 191 4-Bromofluorobenzene					CAS #: 460-00-4		
10.292	10.292 (1.125)	174	595075	23.8258	23.826	80.00- 120.00	100.00
10.292	10.292 (1.125)	95	725024			89.27- 149.27	121.84
10.292	10.292 (1.125)	176	580302			66.29- 126.29	97.52
6 Freon 134a					CAS #: 811-97-2		
1.388	1.381 (0.256)	83	565543	48.0446	48.044	80.00- 120.00	100.00
1.388	1.381 (0.256)	69	486822			41.53- 101.53	86.08
1.388	1.381 (0.256)	63	72430			0.00- 42.30	12.81
8 Propylene					CAS #: 115-07-1		
1.424	1.417 (0.262)	41	628592	53.0038	53.004	80.00- 120.00	100.00
1.424	1.417 (0.262)	42	420036			38.18- 98.18	66.82
1.424	1.417 (0.262)	39	434494			40.18- 100.18	69.12
9 1,1-Difluoroethane					CAS #: 75-37-6		
1.431	1.431 (0.264)	65	376963	55.1885	55.188	80.00- 120.00	100.00
1.481	1.474 (0.273)	51	1414915			362.20- 422.20	375.35
1.438	1.431 (0.265)	47	241014			41.18- 101.18	63.94
10 Freon 12					CAS #: 75-71-8		
1.453	1.445 (0.268)	85	1488674	46.3739	46.374	80.00- 120.00	100.00
1.453	1.445 (0.268)	87	493363			1.90- 61.90	33.14
12 Chlorodifluoromethane					CAS #: 75-45-6		
1.481	1.474 (0.273)	67	156810	47.6803	47.680	80.00- 120.00	100.00(Q)
1.481	1.474 (0.273)	51	1414915			756.67- 816.67	902.31
15 Freon 114					CAS #: 76-14-2		
1.560	1.560 (0.287)	135	1047395	48.8398	48.840	80.00- 120.00	100.00
1.560	1.560 (0.287)	137	339802			1.76- 61.76	32.44
16 Isobutane					CAS #: 75-28-5		
1.574	1.567 (0.290)	43	1417685	53.7038	53.704	80.00- 120.00	100.00
1.574	1.567 (0.290)	42	459082			2.85- 62.85	32.38
1.574	1.567 (0.290)	58	47756			0.00- 33.52	3.37
17 Chloromethane					CAS #: 74-87-3		
1.639	1.632 (0.302)	50	698715	61.9904	61.990	80.00- 120.00	100.00
1.639	1.632 (0.302)	52	234349			2.14- 62.14	33.54
22 Butane					CAS #: 106-97-8		
1.703	1.703 (0.314)	58	137451	56.7336	56.734	80.00- 120.00	100.00(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
22 Butane (continued)							
1.703	1.703 (0.314)	43	1080469			706.79- 766.79	786.07
24 Vinyl Chloride					CAS #: 75-01-4		
1.746	1.739 (0.322)	62	723842	62.4373	62.437	80.00- 120.00	100.00
1.746	1.739 (0.322)	64	212437			0.00- 59.56	29.35
25 1,3-Butadiene					CAS #: 106-99-0		
1.768	1.760 (0.326)	54	683022	62.7128	62.713	80.00- 120.00	100.00
1.768	1.760 (0.326)	39	644464			64.19- 124.19	94.35
29 Bromomethane					CAS #: 74-83-9		
2.104	2.097 (0.388)	94	519234	58.2656	58.266	80.00- 120.00	100.00
2.104	2.097 (0.388)	96	490312			63.72- 123.72	94.43
30 Chloroethane					CAS #: 75-00-3		
2.205	2.205 (0.406)	64	352767	56.4788	56.479	80.00- 120.00	100.00
2.205	2.205 (0.406)	66	105245			0.20- 60.20	29.83
2.205	2.205 (0.406)	49	125427			7.38- 67.38	35.56
31 Isopentane					CAS #: 78-78-4		
2.233	2.226 (0.411)	43	967428	56.1910	56.191	80.00- 120.00	100.00
2.233	2.226 (0.411)	57	647772			38.61- 98.61	66.96
32 Vinyl Bromide					CAS #: 593-60-2		
2.398	2.398 (0.442)	106	582362	53.7277	53.728	80.00- 120.00	100.00
2.398	2.398 (0.442)	108	551696			62.27- 122.27	94.73
33 Freon 11					CAS #: 75-69-4		
2.441	2.441 (0.450)	101	1670466	45.8186	45.818	80.00- 120.00	100.00
2.448	2.441 (0.451)	103	1078529			35.49- 95.49	64.56
35 Dichlorofluoromethane					CAS #: 75-43-4		
2.455	2.448 (0.452)	67	1375089	52.0130	52.013	80.00- 120.00	100.00
2.455	2.448 (0.452)	69	431929			0.95- 60.95	31.41
37 Pentane					CAS #: 109-66-0		
2.513	2.513 (0.463)	43	1480821	55.6538	55.654	80.00- 120.00	100.00
2.513	2.513 (0.463)	57	224199			0.00- 45.38	15.14
2.513	2.513 (0.463)	72	108669			0.00- 37.02	7.34
42 Ethanol					CAS #: 64-17-5		
2.763	2.763 (0.509)	46	144830	60.4175	60.417	80.00- 120.00	100.00
2.763	2.763 (0.509)	45	371755			225.08- 285.08	256.68
46 Acrolein					CAS #: 107-02-8		
3.050	3.050 (0.562)	55	292158	58.3336	58.334	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
46 Acrolein (continued)							
3.050	3.050 (0.562)	56	409446			109.39- 169.39	140.15
47 Freon 113					CAS #: 76-13-1		
3.057	3.057 (0.563)	151	1016024	47.0694	47.069	80.00- 120.00	100.00
3.057	3.057 (0.563)	153	655757			33.72- 93.72	64.54
3.057	3.050 (0.563)	101	1295063			94.86- 154.86	127.46
49 1,1-Dichloroethene					CAS #: 75-35-4		
3.086	3.086 (0.568)	98	359773	49.6146	49.614	80.00- 120.00	100.00
3.086	3.086 (0.568)	96	569692			127.35- 187.35	158.35
3.086	3.086 (0.568)	61	1228866			327.38- 387.38	341.57
52 Acetone					CAS #: 67-64-1		
3.236	3.236 (0.596)	58	419845	50.8576	50.858	80.00- 120.00	100.00
3.236	3.236 (0.596)	43	1331941			290.16- 350.16	317.25
54 Carbon Disulfide					CAS #: 75-15-0		
3.322	3.322 (0.612)	76	1766305	53.6582	53.658	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.422	3.429 (0.630)	45	1674332	57.5054	57.505	80.00- 120.00	100.00
3.422	3.422 (0.630)	43	303954			0.00- 48.07	18.15
3.422	3.422 (0.630)	59	62486			0.00- 33.65	3.73
58 3-Chloropropene					CAS #: 107-05-1		
3.573	3.573 (0.658)	76	286209	53.7968	53.797	80.00- 120.00	100.00
3.573	3.573 (0.658)	41	1087417			369.70- 429.70	379.94
60 Acetonitrile					CAS #: 75-05-8		
3.680	3.673 (0.678)	40	385698	53.3893	53.389	80.00- 120.00	100.00
3.680	3.673 (0.678)	41	729295			161.56- 221.56	189.08
3.766	3.766 (0.694)	38	5725			0.00- 31.07	1.48
64 Methylene Chloride					CAS #: 75-09-2		
3.766	3.766 (0.694)	49	1075903	51.5453	51.545	80.00- 120.00	100.00
3.766	3.766 (0.694)	84	534513			18.48- 78.48	49.68
3.766	3.766 (0.694)	51	336087			0.91- 60.91	31.24
70 tert-Butyl alcohol					CAS #: 75-65-0		
3.902	3.902 (0.719)	59	1745733	52.4905	52.490	80.00- 120.00	100.00
3.902	3.902 (0.719)	41	391006			0.00- 51.01	22.40
3.902	3.902 (0.719)	57	176762			0.00- 41.01	10.13
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.995	3.995 (0.736)	73	1653886	47.6525	47.652	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
3.995	3.995 (0.736)	57	546823			0.93- 60.93	33.06
3.995	3.988 (0.736)	41	519523			0.00- 59.87	31.41
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.024	4.024 (0.741)	98	391855	50.7489	50.749	80.00- 120.00	100.00
4.024	4.024 (0.741)	61	1205341			282.80- 342.80	307.60
4.024	4.024 (0.741)	96	624033			122.91- 182.91	159.25
74 Acrylonitrile					CAS #: 107-13-1		
4.132	4.131 (0.761)	52	623406	51.7839	51.784	80.00- 120.00	100.00
4.132	4.131 (0.761)	53	745436			88.44- 148.44	119.57
78 Hexane					CAS #: 110-54-3		
4.246	4.246 (0.782)	57	1315806	50.7410	50.741	80.00- 120.00	100.00
4.246	4.239 (0.782)	43	857947			34.01- 94.01	65.20
4.246	4.246 (0.782)	86	141070			0.00- 40.22	10.72
83 1,1-Dichloroethane					CAS #: 75-34-3		
4.547	4.547 (0.838)	63	1366545	50.5702	50.570	80.00- 120.00	100.00
4.547	4.547 (0.838)	65	406807			0.00- 59.58	29.77
82 Isopropyl ether					CAS #: 108-20-3		
4.540	4.533 (0.836)	45	2997296	51.5738	51.574	80.00- 120.00	100.00
4.540	4.540 (0.836)	87	520327			0.00- 47.08	17.36
4.540	4.540 (0.836)	59	318335			0.00- 40.83	10.62
84 Vinyl Acetate					CAS #: 108-05-4		
4.597	4.597 (0.847)	86	164075	64.1478	64.148	80.00- 120.00	100.00(Q)
4.597	4.590 (0.847)	43	2717295			1663.30-1723.30	1656.13
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.927	4.927 (0.908)	59	2538024	49.2053	49.205	80.00- 120.00	100.00
4.927	4.927 (0.908)	87	748634			0.00- 58.78	29.50
4.927	4.927 (0.908)	41	476570			0.00- 48.47	18.78
90 2,2-Dichloropropane					CAS #: 594-20-7		
5.134	5.134 (0.946)	77	1151938	44.9688	44.969	80.00- 120.00	100.00
5.134	5.134 (0.946)	79	369119			2.20- 62.20	32.04
5.134	5.134 (0.946)	97	247129			0.00- 50.29	21.45
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.177	5.177 (0.954)	98	428326	52.9192	52.919	80.00- 120.00	100.00
5.177	5.177 (0.954)	96	650587			123.49- 183.49	151.89
5.177	5.177 (0.954)	61	1399105			310.35- 370.35	326.64

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
5.206	5.206 (0.959)	72	322052	53.5922	53.592	80.00- 120.00	100.00(Q)
5.220	5.220 (0.962)	43	4053000			1272.59-1332.59	1258.49
5.206	5.206 (0.959)	57	153260			18.61- 78.61	47.59
93 Ethyl Acetate					CAS #: 141-78-6		
5.228	5.227 (0.963)	70	162316	54.9261	54.926	80.00- 120.00	100.00(Q)
5.177	5.177 (0.954)	61	1399105			877.60- 937.60	861.96
5.228	5.227 (0.963)	45	329549			179.24- 239.24	203.03
99 Tetrahydrofuran					CAS #: 109-99-9		
5.414	5.414 (0.997)	42	1042795	52.1408	52.141	80.00- 120.00	100.00
5.414	5.414 (0.997)	71	283552			0.00- 56.60	27.19
5.414	5.414 (0.997)	72	288405			0.00- 56.86	27.66
103 Chloroform					CAS #: 67-66-3		
5.507	5.507 (1.014)	83	1340593	45.8958	45.896	80.00- 120.00	100.00
5.507	5.507 (1.014)	85	873774			34.90- 94.90	65.18
104 Cyclohexane					CAS #: 110-82-7		
5.600	5.600 (1.032)	84	782560	51.4391	51.439	80.00- 120.00	100.00
5.600	5.600 (1.032)	56	1396052			152.85- 212.85	178.40
5.600	5.600 (1.032)	41	729966			65.81- 125.81	93.28
106 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.629	5.628 (1.037)	97	1344526	44.9451	44.945	80.00- 120.00	100.00
5.629	5.628 (1.037)	99	865606			34.79- 94.79	64.38
112 Carbon Tetrachloride					CAS #: 56-23-5		
5.750	5.750 (1.059)	119	1419974	43.3998	43.400	80.00- 120.00	100.00
5.750	5.750 (1.059)	117	1466662			73.63- 133.63	103.29
113 1,1-Dichloropropene					CAS #: 563-58-6		
5.793	5.786 (0.904)	110	346847	50.9304	50.930	80.00- 120.00	100.00
5.786	5.786 (0.903)	75	987983			260.30- 320.30	284.85
117 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.972	5.972 (1.100)	57	4262364	53.2077	53.208	80.00- 120.00	100.00
5.972	5.972 (1.100)	56	1381358			2.18- 62.18	32.41
5.972	5.972 (1.100)	41	1042473			0.00- 55.61	24.46
118 Benzene					CAS #: 71-43-2		
5.987	5.987 (0.934)	78	1843003	52.9953	52.995	80.00- 120.00	100.00
5.987	5.987 (0.934)	77	444825			0.00- 53.99	24.14
120 tert-Amyl methyl ether					CAS #: 994-05-8		
6.073	6.073 (1.119)	87	422972	48.2901	48.290	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
120 tert-Amyl methyl ether (continued)							
6.073	6.073 (1.119)	73	1757833			362.99- 422.99	415.59
6.073	6.073 (1.119)	55	664517			122.42- 182.42	157.11
121 1,2-Dichloroethane					CAS #: 107-06-2		
6.094	6.087 (0.951)	62	1089983	46.0668	46.067	80.00- 120.00	100.00
6.094	6.094 (0.951)	64	339696			1.65- 61.65	31.17
122 Heptane					CAS #: 142-82-5		
6.166	6.159 (0.962)	71	652524	53.8334	53.833	80.00- 120.00	100.00
6.166	6.159 (0.962)	43	1664881			240.22- 300.22	255.14
6.166	6.159 (0.962)	57	870978			110.36- 170.36	133.48
128 n-Butanol					CAS #: 71-36-3		
6.617	6.617 (1.032)	56	861836	55.9710	55.971	80.00- 120.00	100.00
6.617	6.617 (1.032)	41	593821			39.42- 99.42	68.90
6.617	6.617 (1.032)	43	490358			25.37- 85.37	56.90
129 Trichloroethene					CAS #: 79-01-6		
6.617	6.617 (1.032)	95	866854	48.8902	48.890	80.00- 120.00	100.00
6.617	6.617 (1.032)	130	853891			67.98- 127.98	98.50
6.617	6.617 (1.032)	97	567247			34.45- 94.45	65.44
131 Methylcyclohexane					CAS #: 108-87-2		
6.725	6.717 (1.239)	83	1062453	50.9063	50.906	80.00- 120.00	100.00
6.725	6.717 (1.239)	98	468200			14.33- 74.33	44.07
6.717	6.717 (1.238)	55	1283561			96.87- 156.87	120.81
135 1,2-Dichloropropane					CAS #: 78-87-5		
6.875	6.875 (1.073)	63	911445	51.4459	51.446	80.00- 120.00	100.00
6.875	6.875 (1.073)	62	661665			41.06- 101.06	72.60
6.875	6.875 (1.073)	41	503466			28.31- 88.31	55.24
139 Methyl Methacrylate					CAS #: 80-62-6		
6.961	6.961 (0.761)	69	737136	53.9725	53.972	80.00- 120.00	100.00
6.961	6.961 (0.761)	41	1284104			153.10- 213.10	174.20
6.961	6.961 (0.761)	100	262580			8.18- 68.18	35.62
140 1,4-Dioxane					CAS #: 123-91-1		
6.982	6.982 (1.089)	88	472855	51.8986	51.898	80.00- 120.00	100.00
6.982	6.982 (1.089)	58	484634			74.98- 134.98	102.49
6.982	6.982 (1.089)	57	170507			8.55- 68.55	36.06
141 Dibromomethane					CAS #: 74-95-3		
6.997	6.997 (0.765)	174	830030	46.5957	46.596	80.00- 120.00	100.00
6.997	6.997 (0.765)	93	821792			66.30- 126.30	99.01

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
141 Dibromomethane (continued)							
6.997	6.997 (0.765)	95	690260			49.87- 109.87	83.16
142 Bromodichloromethane					CAS #: 75-27-4		
7.140	7.140 (1.114)	83	1467126	46.7563	46.756	80.00- 120.00	100.00
7.140	7.140 (1.114)	85	950686			34.86- 94.86	64.80
149 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.563	7.563 (1.180)	75	1282737	51.7881	51.788	80.00- 120.00	100.00
7.563	7.563 (1.180)	77	408967			1.88- 61.88	31.88
7.563	7.563 (1.180)	39	779905			33.29- 93.29	60.80
150 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.692	7.691 (1.200)	58	907841	52.3116	52.312	80.00- 120.00	100.00
7.692	7.691 (1.200)	43	2402155			235.08- 295.08	264.60
7.692	7.691 (1.200)	85	270975			0.69- 60.69	29.85
153 Toluene					CAS #: 108-88-3		
7.813	7.813 (1.219)	91	2276245	49.8267	49.827	80.00- 120.00	100.00
7.813	7.813 (1.219)	92	1300543			27.69- 87.69	57.14
151 Octane					CAS #: 111-65-9		
7.842	7.842 (1.224)	57	950704	50.2604	50.260	80.00- 120.00	100.00
7.842	7.842 (1.224)	85	737754			46.75- 106.75	77.60
7.842	7.842 (1.224)	43	2392572			221.22- 281.22	251.66
154 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.107	8.107 (0.886)	75	1086652	49.0862	49.086	80.00- 120.00	100.00
8.107	8.107 (0.886)	77	347838			1.61- 61.61	32.01
8.107	8.107 (0.886)	39	616389			26.86- 86.86	56.72
158 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.279	8.279 (0.905)	97	821827	50.2744	50.274	80.00- 120.00	100.00
8.279	8.279 (0.905)	99	505392			32.96- 92.96	61.50
8.279	8.279 (0.905)	83	759173			59.05- 119.05	92.38
159 Tetrachloroethene					CAS #: 127-18-4		
8.308	8.307 (0.908)	166	1120846	45.8906	45.890	80.00- 120.00	100.00
8.308	8.307 (0.908)	129	867964			46.43- 106.43	77.44
8.308	8.307 (0.908)	131	848375			45.56- 105.56	75.69
162 2-Hexanone					CAS #: 591-78-6		
8.480	8.479 (0.927)	58	1286581	52.0005	52.000	80.00- 120.00	100.00
8.480	8.479 (0.927)	43	2449225			159.07- 219.07	190.37
8.480	8.479 (0.927)	100	175617			0.00- 43.98	13.65

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
161 1,3-Dichloropropane					CAS #: 142-28-9		
8.444	8.444 (1.317)	76	1191715	49.9937	49.994	80.00- 120.00	100.00
8.444	8.436 (1.317)	41	1070204			59.80- 119.80	89.80
8.444	8.444 (1.317)	78	382717			2.58- 62.58	32.11
163 Dibromochloromethane					CAS #: 124-48-1		
8.623	8.623 (0.943)	129	1581245	46.2430	46.243	80.00- 120.00	100.00
8.623	8.623 (0.943)	127	1239732			47.90- 107.90	78.40
164 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.737	8.737 (0.955)	107	1418278	48.6419	48.642	80.00- 120.00	100.00
8.737	8.737 (0.955)	109	1342358			64.00- 124.00	94.65
144 1-Bromo-2-Chloroethane					CAS #: 107-04-0		
7.448	7.448 (1.162)	63	1739002	51.3197	51.320	80.00- 120.00	100.00
7.448	7.448 (1.162)	65	510418			0.00- 58.67	29.35
7.448	7.448 (1.162)	144	147767			0.00- 39.14	8.50
166 Chlorobenzene					CAS #: 108-90-7		
9.174	9.174 (1.003)	112	1920006	48.8753	48.875	80.00- 120.00	100.00
9.174	9.174 (1.003)	114	620389			2.75- 62.75	32.31
9.174	9.174 (1.003)	77	1144865			30.27- 90.27	59.63
167 Ethyl Benzene					CAS #: 100-41-4		
9.246	9.246 (1.011)	106	979476	50.2820	50.282	80.00- 120.00	100.00
9.246	9.246 (1.011)	91	3056926			281.27- 341.27	312.10
170 Nonane					CAS #: 111-84-2		
9.303	9.303 (1.017)	43	2474507	50.5737	50.574	80.00- 120.00	100.00
9.303	9.303 (1.017)	57	2153429			57.91- 117.91	87.02
9.303	9.303 (1.017)	85	570417			0.00- 52.91	23.05
169 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.267	9.267 (1.013)	131	1057870	45.9822	45.982	80.00- 120.00	100.00
9.267	9.267 (1.013)	117	729159			34.91- 94.91	68.93
9.267	9.267 (1.013)	95	411105			10.71- 70.71	38.86
173 m,p-Xylene					CAS #: 108-38-3		
9.361	9.360 (1.023)	106	1215998	50.1409	50.141	80.00- 120.00	100.00
9.361	9.360 (1.023)	91	2451780			176.41- 236.41	201.63
176 o-Xylene					CAS #: 95-47-6		
9.747	9.747 (1.066)	106	1155157	50.9110	50.911	80.00- 120.00	100.00
9.747	9.747 (1.066)	91	2433645			186.60- 246.60	210.68
178 Styrene					CAS #: 100-42-5		
9.776	9.776 (1.069)	104	1956868	50.6807	50.681	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
178 Styrene (continued)							
9.776	9.776 (1.069)	78	1025256			26.08- 86.08	52.39
184 Bromoform					CAS #: 75-25-2		
9.991	9.991 (1.092)	173	1630814	45.8525	45.852	80.00- 120.00	100.00
9.991	9.991 (1.092)	171	847015			22.58- 82.58	51.94
185 Cumene					CAS #: 98-82-8		
10.084	10.084 (1.103)	105	3472515	48.0100	48.010	80.00- 120.00	100.00
10.084	10.084 (1.103)	120	901735			0.00- 55.43	25.97
10.084	10.084 (1.103)	51	499412			0.00- 44.39	14.38
189 Cyclohexanone					CAS #: 108-94-1		
10.256	10.256 (1.121)	55	1666772	49.5380	49.538	80.00- 120.00	100.00
10.256	10.256 (1.121)	98	463457			0.00- 57.69	27.81
10.256	10.256 (1.121)	42	1041362			32.21- 92.21	62.48
194 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.471	10.471 (1.145)	83	1970387	50.6925	50.692	80.00- 120.00	100.00
10.471	10.471 (1.145)	85	1273357			35.63- 95.63	64.62
192 Bromobenzene					CAS #: 108-86-1		
10.428	10.428 (1.140)	156	1144298	46.0246	46.024	80.00- 120.00	100.00
10.428	10.428 (1.140)	158	1113729			68.15- 128.15	97.33
10.428	10.428 (1.140)	77	1811402			125.89- 185.89	158.30
196 Propylbenzene					CAS #: 103-65-1		
10.485	10.485 (1.146)	120	955024	48.9208	48.921	80.00- 120.00	100.00
10.485	10.485 (1.146)	91	4118222			403.96- 463.96	431.22
10.485	10.485 (1.146)	105	155455			0.00- 46.94	16.28
197 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.521	10.521 (1.150)	110	547380	43.8122	43.812	80.00- 120.00	100.00
10.521	10.521 (1.150)	75	1499868			232.06- 292.06	274.01
10.521	10.521 (1.150)	61	517758			62.53- 122.53	94.59
199 Decane					CAS #: 124-18-5		
10.593	10.592 (1.158)	57	2816580	51.4317	51.432	80.00- 120.00	100.00
10.593	10.592 (1.158)	71	767954			0.00- 56.58	27.27
10.600	10.600 (1.159)	142	82420			0.00- 33.23	2.93
200 4-Ethyltoluene					CAS #: 622-96-8		
10.600	10.600 (1.159)	120	1030023	48.3632	48.363	80.00- 120.00	100.00
10.600	10.600 (1.159)	105	3535518			317.00- 377.00	343.25
201 2-Chlorotoluene					CAS #: 95-49-8		
10.607	10.607 (1.160)	126	835639	47.5761	47.576	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
201 2-Chlorotoluene (continued)							
10.607	10.600 (1.160)	91	2876373			317.25- 377.25	344.21
10.600	10.600 (1.159)	65	490541			32.33- 92.33	58.70
204 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.664	10.664 (1.166)	120	1410841	48.8739	48.874	80.00- 120.00	100.00
10.664	10.664 (1.166)	105	3000782			190.09- 250.09	212.69
209 alpha Methyl Styrene					CAS #: 98-83-9		
10.901	10.900 (1.192)	118	1561537	50.5017	50.502	80.00- 120.00	100.00
10.901	10.900 (1.192)	103	941111			32.49- 92.49	60.27
210 tert-Butylbenzene					CAS #: 98-06-6		
10.972	10.972 (1.200)	119	2717612	46.8925	46.892	80.00- 120.00	100.00
10.972	10.972 (1.200)	134	655450			0.00- 53.10	24.12
10.972	10.972 (1.200)	91	1905845			40.97- 100.97	70.13
212 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.037	11.037 (1.207)	120	1343695	50.0882	50.088	80.00- 120.00	100.00
11.037	11.037 (1.207)	105	3032715			204.98- 264.98	225.70
214 sec-Butylbenzene					CAS #: 135-98-8		
11.187	11.187 (1.223)	134	841820	48.5323	48.532	80.00- 120.00	100.00
11.187	11.187 (1.223)	105	4280075			484.40- 544.40	508.43
11.187	11.187 (1.223)	91	690231			54.94- 114.94	81.99
216 p-Cymene					CAS #: 99-87-6		
11.330	11.330 (1.239)	119	3604716	47.4998	47.500	80.00- 120.00	100.00
11.330	11.330 (1.239)	134	948841			0.00- 55.89	26.32
11.330	11.330 (1.239)	91	891862			0.00- 56.21	24.74
217 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.352	11.352 (1.241)	146	1991123	47.3205	47.320	80.00- 120.00	100.00
11.352	11.352 (1.241)	148	1277724			33.67- 93.67	64.17
11.345	11.352 (1.240)	111	855551			13.82- 73.82	42.97
218 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.445	11.445 (1.251)	146	2044273	47.5181	47.518	80.00- 120.00	100.00
11.445	11.445 (1.251)	148	1299334			34.50- 94.50	63.56
11.445	11.445 (1.251)	111	830002			12.20- 72.20	40.60
219 alpha-Chlorotoluene					CAS #: 100-44-7		
11.588	11.588 (1.267)	91	2746627	44.8100	44.810	80.00- 120.00	100.00
11.588	11.588 (1.267)	126	575854			0.00- 50.42	20.97
221 Undecane					CAS #: 1120-21-4		
11.767	11.767 (1.287)	57	3395031	53.2861	53.286	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
221 Undecane (continued)							
11.767	11.767 (1.287)	43	2966636			57.09- 117.09	87.38
220 Butylbenzene					CAS #: 104-51-8		
11.739	11.739 (1.284)	134	946883	50.0169	50.017	80.00- 120.00	100.00
11.739	11.739 (1.284)	91	3622188			345.70- 405.70	382.54
11.739	11.739 (1.284)	92	1919796			168.03- 228.03	202.75
222 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.818	11.817 (1.292)	146	1938390	47.1072	47.107	80.00- 120.00	100.00
11.818	11.817 (1.292)	148	1217375			33.89- 93.89	62.80
11.818	11.817 (1.292)	111	853370			15.34- 75.34	44.02
226 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.620	12.620 (1.380)	157	1305386	46.1074	46.107	80.00- 120.00	100.00
12.620	12.620 (1.380)	75	1205034			65.80- 125.80	92.31
12.620	12.620 (1.380)	155	1020140			47.61- 107.61	78.15
227 Dodecane					CAS #: 112-40-3		
12.849	12.849 (1.405)	57	4102884	59.0372	59.037	80.00- 120.00	100.00
12.849	12.849 (1.405)	43	3343094			50.33- 110.33	81.48
230 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
13.401	13.400 (1.465)	180	2097846	55.6899	55.690	80.00- 120.00	100.00
13.401	13.400 (1.465)	182	2003955			65.96- 125.96	95.52
231 Hexachlorobutadiene					CAS #: 87-68-3		
13.508	13.508 (1.477)	225	1673454	51.6232	51.623	80.00- 120.00	100.00
13.508	13.508 (1.477)	223	1059779			33.50- 93.50	63.33
232 Naphthalene					CAS #: 91-20-3		
13.651	13.651 (1.493)	128	525817	5.86062	5.861	80.00- 120.00	100.00
13.651	13.651 (1.493)	127	65867			0.00- 42.81	12.53
233 1,2,3-Trichlorobenzene					CAS #: 87-61-6		
13.895	13.895 (1.519)	180	2056272	56.5830	56.583	80.00- 120.00	100.00
13.895	13.895 (1.519)	182	1942785			64.83- 124.83	94.48
13.895	13.895 (1.519)	145	663937			3.99- 63.99	32.29

QC Flag Legend

Q - Qualifier signal failed the ratio test.

US32TAR1

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a111105c.d
Lab Smp Id: LCD
Analysis Type: VOA
Quant Type: ISTD
Operator: MS
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 11-NOV-2024
Calibration Time: 09:37
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	265167	159100	371234	269541	1.65
126 1,4-Difluorobenze	973920	584352	1363488	1003767	3.06
165 Chlorobenzene-d5	894091	536455	1251727	936599	4.75

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
100 Bromochloromethan	5.43	5.10	5.76	5.43	0.00
126 1,4-Difluorobenze	6.41	6.08	6.74	6.41	0.00
165 Chlorobenzene-d5	9.15	8.82	9.48	9.15	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

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RECOVERY REPORT

Client Name: Client SDG: 11NOV24
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCD Client Smp ID: LCSD
Level: LOW Operator: MS
Data Type: MS DATA SampleType: LCSD
SpikeList File: ControlDODAT24.spk Quant Type: ISTD
Sublist File: AT24.sub
Method File: /chem/msda.i/11NOV24.b/a24q0910a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Freon 134a	50.000	48.044	96.09	70-130
8 Propylene	50.000	53.004	106.01	57-136
9 1,1-Difluoroethan	50.000	55.188	110.38	70-130
10 Freon 12	50.000	46.374	92.75	59-128
12 Chlorodifluoromet	50.000	47.680	95.36	59-145
15 Freon 114	50.000	48.840	97.68	63-121
16 Isobutane	50.000	53.704	107.41	70-130
17 Chloromethane	50.000	61.990	123.98	59-132
22 Butane	50.000	56.734	113.47	64-129
24 Vinyl Chloride	50.000	62.437	124.87	64-127
25 1,3-Butadiene	50.000	62.713	125.43	66-134
29 Bromomethane	50.000	58.266	116.53	63-134
30 Chloroethane	50.000	56.479	112.96	63-127
31 Isopentane	50.000	56.191	112.38	59-140
32 Vinyl Bromide	50.000	53.728	107.46	71-126
33 Freon 11	50.000	45.818	91.64	62-126
35 Dichlorofluoromet	50.000	52.013	104.03	70-130
37 Pentane	50.000	55.654	111.31	63-131
42 Ethanol	58.000	60.417	104.17	59-125
46 Acrolein	58.000	58.334	100.58	62-126
47 Freon 113	50.000	47.069	94.14	66-126
49 1,1-Dichloroethen	50.000	49.614	99.23	61-133
52 Acetone	50.000	50.858	101.72	58-128
54 Carbon Disulfide	50.000	53.658	107.32	57-134
57 2-Propanol	50.000	57.505	115.01	52-125
58 3-Chloropropene	50.000	53.797	107.59	71-131
60 Acetonitrile	50.000	53.389	106.78	63-132
64 Methylene Chlorid	50.000	51.545	103.09	62-115
70 tert-Butyl alcoho	50.000	52.490	104.98	24-150
72 Methyl tert-butyl	50.000	47.652	95.31	66-126
73 trans-1,2-Dichlor	50.000	50.749	101.50	67-124
74 Acrylonitrile	50.000	51.784	103.57	71-137
78 Hexane	50.000	50.741	101.48	63-120

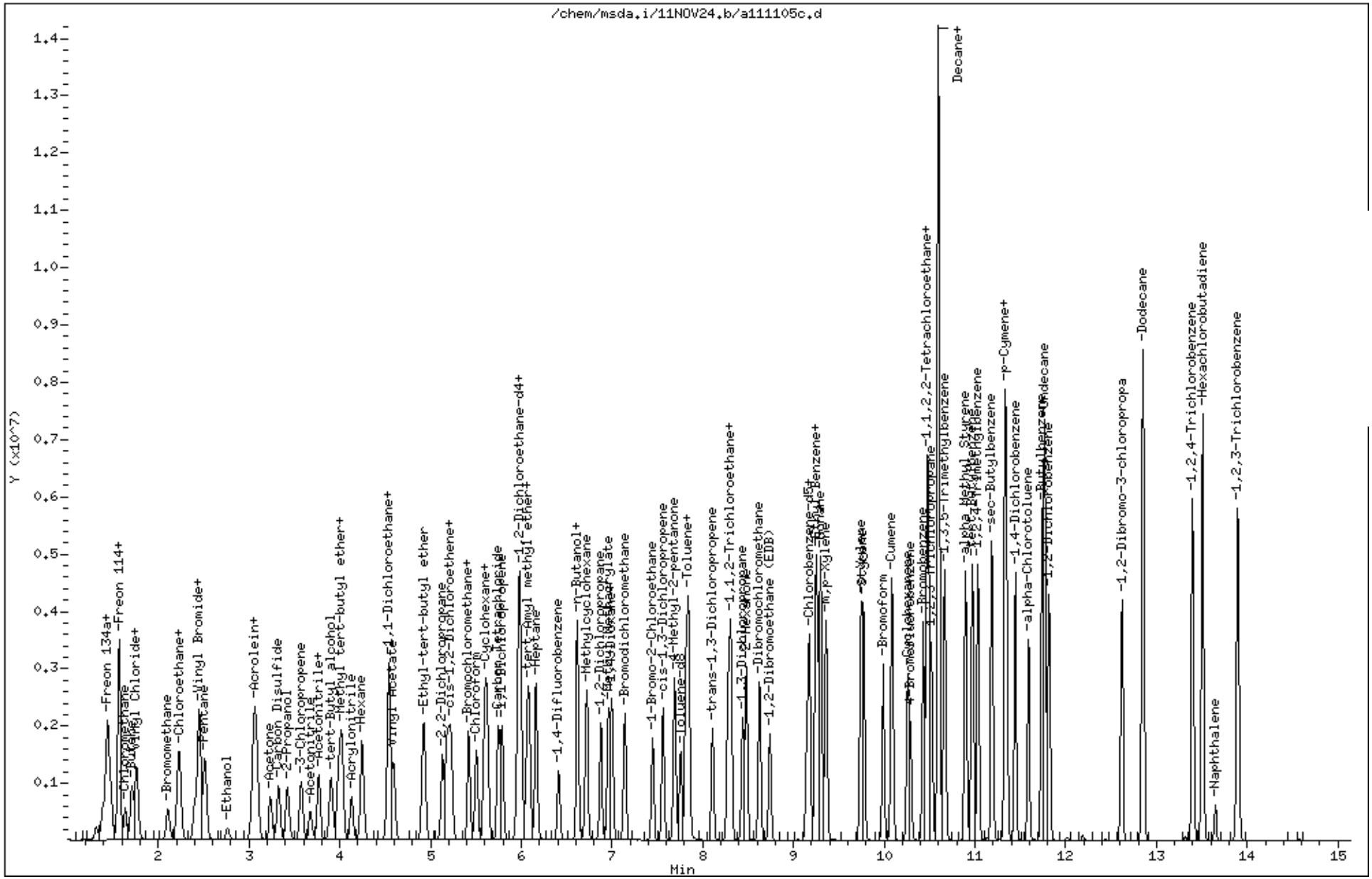
SPIKE	COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
83	1,1-Dichloroethan	50.000	50.570	101.14	68-126
82	Isopropyl ether	50.000	51.574	103.15	70-117
84	Vinyl Acetate	50.000	64.148	128.30	56-139
88	Ethyl-tert-butyl	50.000	49.205	98.41	70-130
90	2,2-Dichloropropa	50.000	44.969	89.94	70-130
91	cis-1,2-Dichloroe	50.000	52.919	105.84	70-121
92	2-Butanone	50.000	53.592	107.18	67-130
93	Ethyl Acetate	50.000	54.926	109.85	65-128
99	Tetrahydrofuran	50.000	52.141	104.28	64-123
103	Chloroform	50.000	45.896	91.79	68-123
106	1,1,1-Trichloroet	50.000	44.945	89.89	68-125
112	Carbon Tetrachlor	50.000	43.400	86.80	68-132
104	Cyclohexane	50.000	51.439	102.88	70-117
113	1,1-Dichloroprope	50.000	50.930	101.86	70-130
117	2,2,4-Trimethylpe	50.000	53.208	106.42	68-121
118	Benzene	50.000	52.995	105.99	69-119
121	1,2-Dichloroethan	50.000	46.067	92.13	65-128
122	Heptane	50.000	53.833	107.67	69-123
128	n-Butanol	50.000	55.971	111.94	62-133
129	Trichloroethene	50.000	48.890	97.78	71-123
131	Methylcyclohexane	50.000	50.906	101.81	67-127
135	1,2-Dichloropropa	50.000	51.446	102.89	69-123
139	Methyl Methacryla	50.000	53.972	107.94	70-128
140	1,4-Dioxane	50.000	51.898	103.80	71-122
141	Dibromomethane	50.000	46.596	93.19	70-130
142	Bromodichlorometh	50.000	46.756	93.51	72-128
149	cis-1,3-Dichlorop	50.000	51.788	103.58	70-128
150	4-Methyl-2-pentan	50.000	52.312	104.62	67-130
151	Octane	50.000	50.260	100.52	69-121
153	Toluene	50.000	49.827	99.65	66-119
154	trans-1,3-Dichlor	50.000	49.086	98.17	75-133
158	1,1,2-Trichloroet	50.000	50.274	100.55	73-119
159	Tetrachloroethene	50.000	45.890	91.78	66-124
162	2-Hexanone	50.000	52.000	104.00	62-128
161	1,3-Dichloropropa	50.000	49.994	99.99	62-148
163	Dibromochlorometh	50.000	46.243	92.49	70-130
164	1,2-Dibromoethane	50.000	48.642	97.28	74-122
144	1-Bromo-2-Chloroe	50.000	51.320	102.64	70-130
166	Chlorobenzene	50.000	48.875	97.75	70-119
167	Ethyl Benzene	50.000	50.282	100.56	70-124
170	Nonane	50.000	50.574	101.15	63-128
169	1,1,1,2-Tetrachlo	50.000	45.982	91.96	70-130
173	m,p-Xylene	50.000	50.141	100.28	61-134
176	o-Xylene	50.000	50.911	101.82	67-125
178	Styrene	50.000	50.681	101.36	73-127
184	Bromoform	50.000	45.852	91.71	66-139
185	Cumene	50.000	48.010	96.02	68-124

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
194 1,1,2,2-Tetrachlo	50.000	50.692	101.39	65-127
192 Bromobenzene	50.000	46.024	92.05	70-130
196 Propylbenzene	50.000	48.921	97.84	69-123
197 1,2,3-Trichloropr	50.000	43.812	87.62	76-124
199 Decane	50.000	51.432	102.86	70-118
200 4-Ethyltoluene	50.000	48.363	96.73	67-129
201 2-Chlorotoluene	50.000	47.576	95.15	74-130
204 1,3,5-Trimethylbe	50.000	48.874	97.75	67-130
209 alpha Methyl Styr	50.000	50.502	101.00	67-128
210 tert-Butylbenzene	50.000	46.892	93.78	65-124
212 1,2,4-Trimethylbe	50.000	50.088	100.18	66-132
214 sec-Butylbenzene	50.000	48.532	97.06	68-125
216 p-Cymene	50.000	47.500	95.00	67-130
217 1,3-Dichlorobenze	50.000	47.320	94.64	65-130
218 1,4-Dichlorobenze	50.000	47.518	95.04	60-131
219 alpha-Chlorotolue	50.000	44.810	89.62	50-147
221 Undecane	50.000	53.286	106.57	69-123
220 Butylbenzene	50.000	50.017	100.03	66-130
222 1,2-Dichlorobenze	50.000	47.107	94.21	63-129
226 1,2-Dibromo-3-chl	50.000	46.107	92.21	70-130
227 Dodecane	50.000	59.037	118.07	62-147
230 1,2,4-Trichlorobe	50.000	55.690	111.38	55-142
231 Hexachlorobutadie	50.000	51.623	103.25	56-138
232 Naphthalene	6.000	5.861	97.68	57-138
233 1,2,3-Trichlorobe	50.000	56.583	113.17	55-142

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 119 1,2-Dichloroethan	25.000	22.739	90.96	70-130
$ 152 Toluene-d8	25.000	25.757	103.03	70-130
$ 191 4-Bromofluorobenz	25.000	23.826	95.30	70-130

Data File: /chem/msda.i/11NOV24.b/a111105c.d
Date : 11-NOV-2024 10:45
Client ID: LCSD
Sample Info: 50mL 3018-4858

Instrument: msda.i
Operator: MS
Column phase: RTX-624
Column diameter: 0.25



MSD-A

S:_Screeningseq\MSDA\12M

rification of 176/174 ratio:	(249600/264832)*100 =94.25 %	
IS/S Std.#: 3169-1048	Exp. Date:	6/9/2025
Bromochloromethane:	265167	
1,4-Difluorobenzene:	973920	
Chlorobenzene-d5:	894091	
Verified CCV vs ICAL midpoint (+/-40%) :	MS/LD	
Method	a2410910a.m	

Method TO-15			
SOP#	6		
		Load (mLs)	200
Surrogate#	3169-1048	Exp. Date:	6/9/2025
CCV	3018-4905	Exp. Date:	2/7/2025
LCS	3018-4858	Exp. Date:	1/2/2025
CCV sp #1		Exp. Date:	

Use	File	Lab ID #	Can#/Standard ID#	Cart Pos	Pressure	Amount Loaded	DF	Verify Load By Intials	Loaded By Intials	Date Analyzed	Time Analyzed	Review By Intials	Comments
√	A111101	System Blank	6L2284	12	Humid	200mL	1.00	MS/LD	MS	11/11/24	0829	MS/LD	
√	A111102	BFB Tune Check	3169-1048	12	36ng	50mL	1.00	MS/LD	MS	11/11/24	0903	MS/LD	
√	A111103	CCV	3018-4905	13	50ppbv (200ppbv)	50mL	1.00	MS/LD	MS	11/11/24	0937	MS/LD	exp. 2/7/2025. 0 out
√	A111104	LCS	3018-4858	14	50ppbv (200ppbv)	50mL	1.00	MS/LD	MS	11/11/24	1011	MS/LD	exp. 1/2/2025. 0 out
√	A111105	LCD	3018-4858	14	50ppbv (200ppbv)	50mL	1.00	MS/LD	MS	11/11/24	1045	MS/LD	exp. 1/2/2025. 0 out RPD ok
√	A111106	Lab Blank	6L2284	12	Humid	200mL	1.00	MS/LD	MS	11/11/24	1122	MS/LD	
√	A111107	2410727-01A	N2687	1	4.3 Hg->10 psi	200mL	1.96	MS/LD	MS	11/11/24	1309	MS/LD	
√	A111108	2410702B-17A	N7473	2	7.1 Hg->9.5 psi	200mL	2.16	AB	MS	11/11/24	1346	MS/LD	
√	A111109	2410702B-17AA	N7473	2	7.1 Hg->9.5 psi	200mL	2.16	AB	MS	11/11/24	1423	MS/LD	dup anb
√	A111110	2410702B-18A	1L4686	3	3.5 Hg->9.9 psi	200mL	1.89	AB	MS	11/11/24	1500	MS/LD	
√	A111111	2410702B-19A	O0882	4	4.9 Hg->9.9 psi	200mL	2.00	AB	MS	11/11/24	1537	AB	
√	A111112	2410702B-20A	N1965	5	26.7 Hg->10 psi	200mL	15.30	AB	MS	11/11/24	1614	AB	
√	A111113	2410702B-21A	N7879	6	4.9 Hg->9.9 psi	200mL	2.00	AB	MS	11/11/24	1651	AB	
X	A111114	2410702B-22A	N7870	7	5.5 Hg->10.1 psi	50mL	8.26	AB	MS	11/11/24	1725	AB	Over dilute, rr @ 200mL
√	A111115	2410702B-23A	N3123	8	6.9 Hg->10 psi	200mL	2.18	AB	MS	11/11/24	1802	AB	
√	A111116	2410702B-24A	N5499	9	7.6 Hg->10 psi	50mL	9.00	AB	MS	11/11/24	1836	AB	Dil TC
√	A111117	2410702B-25A	O0714	10	6.5 Hg->9.8 psi	200mL	2.13	AB	MS	11/11/24	1913	AB	
√	A111118	2410702B-26A	N6137	11	5.3 Hg->9.8 psi	200mL	2.02	AB	MS	11/11/24	1950	AB	
√	A111119	2410702B-22A	N7870	7	5.5 Hg->10.1 psi	200mL	2.06	AB	AB	11/11/24	2027	AB	
√	A111120	2410702B-27A	B2153	1	8.6 Hg->9.9 psi	200mL	2.34	MB	AB	11/11/24	2258	MS/LD	
√	A111121	2410702B-28A	N2627	2	6.7 Hg->10.1 psi	200mL	2.17	MB	AB	11/11/24	2335	MS/LD	
√	A111122	2410702B-29A	N8415	3	6.1 Hg->10.1 psi	200mL	2.12	MB	AB	11/12/24	0012	MS/LD	
√	A111123	2410702B-30A	N6164	4	8 Hg->9.8 psi	200mL	2.27	MB	AB	11/12/24	0049	MS/LD	
√	A111124	2410702B-31A	B2269	5	18.6 Hg->10 psi	25mL	35.4	MB	AB	11/12/24	0122	MS/LD	Dil NTC
√	A111125	2410702B-32A	N8356	6	5.7 Hg->9.9 psi	200mL	2.07	MB	AB	11/12/24	0159	MS/LD	
√	A111126	2410702B-33A	N1951	7	5.7 Hg->9.9 psi	200mL	2.07	MB	AB	11/12/24	0236	MS/LD	
X	A111127	2410702B-34A	O1058	8	4.9 Hg->9.9 psi	100mL	4.00	MB	AB	11/12/24	0311	MS/LD	overdilute
√	A111128	2410702B-35A	N6171	9	6.5 Hg->10.1 psi	200mL	2.15	MB	AB	11/12/24	0348	MS/LD	
√	A111129	2410702B-34A	O1058	8	4.9 Hg->9.9 psi	200mL	2.00 11/12/24	MS/LD	AB	11/12/24	0702	MS/LD	re-run
√	A111130	CCV	3018-4905	13	50ppbv (200ppbv)	50mL	1.00	MS/LD	MS	11/12/24	0749	MS/LD	exp. 2/7/2025. 0 out

jrf 11/12/24 11/12/2024 *Time:* 8:29 AM

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Data file : /chem/msda.i/10SEP24.b/a091004.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 10-SEP-2024 12:09
Operator : TO Inst ID: msda.i
Smp Info : 50mL 3169-1048;BFB Tune Check
Misc Info : 36ng
Comment :
Method : /chem/msda.i/10SEP24.b/bfb60.m
Meth Date : 10-Nov-2023 14:40 lk8g Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 11 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: AIR
Processing Host: us32tar1

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (PPBV)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
10.292	10.342	-0.050	95	351381			100.00- 100.00	100.00
10.292	10.342	-0.050	50	95466			8.00- 40.00	27.17
10.292	10.342	-0.050	75	190528			30.00- 66.00	54.22
10.292	10.342	-0.050	96	23154			5.00- 9.00	6.59
10.292	10.342	-0.050	173	0			0.00- 1.99	0.00
10.292	10.342	-0.050	174	281130			50.01- 120.00	80.01
10.292	10.342	-0.050	175	22085			4.00- 9.00	7.86
10.292	10.342	-0.050	176	267904			93.01- 100.99	95.30
10.292	10.342	-0.050	177	16960			5.00- 9.00	6.33

Data File: /chem/msda.i/10SEP24.b/a091004.d

Date : 10-SEP-2024 12:09

Client ID: BFB

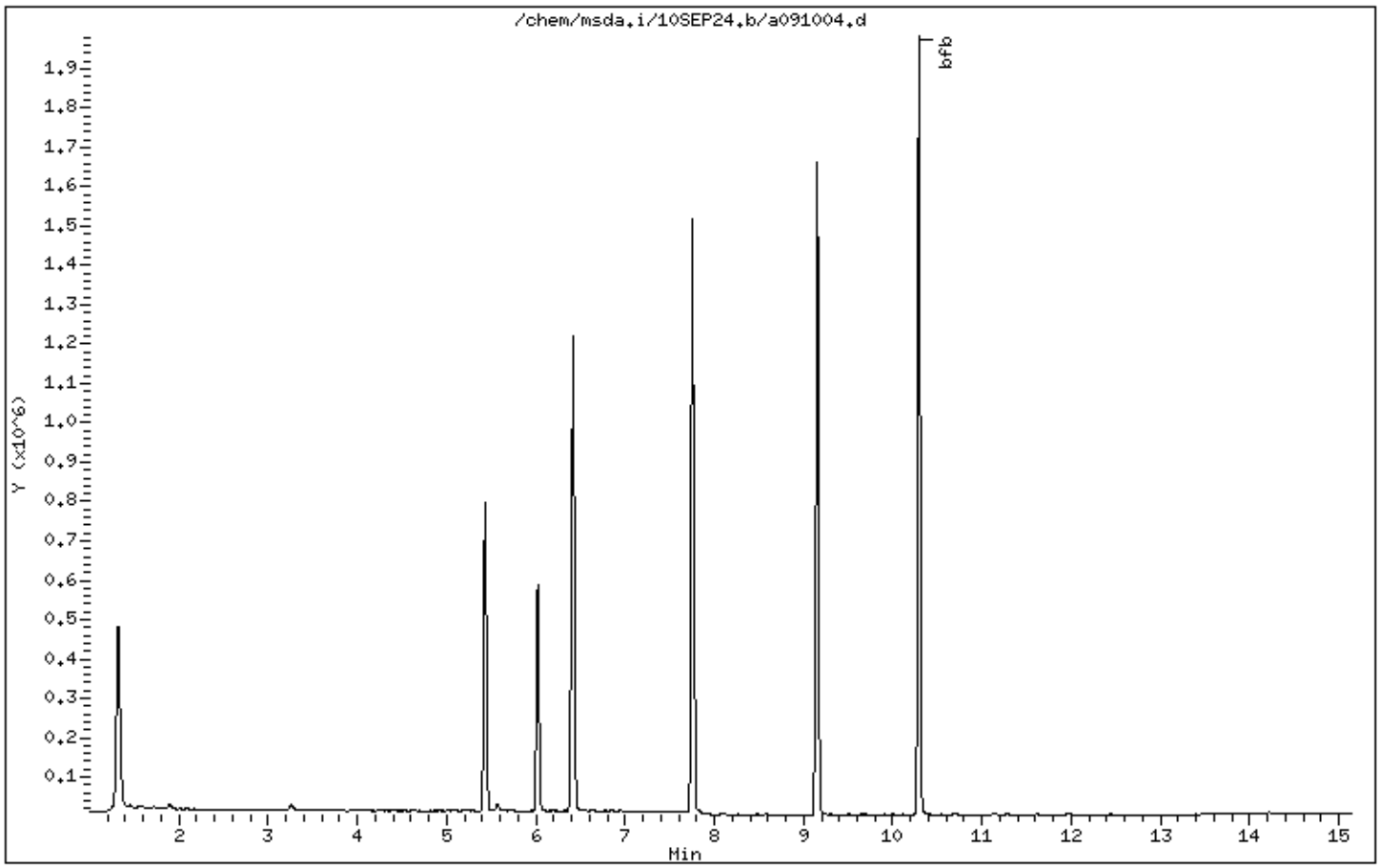
Instrument: msda.i

Sample Info: 50mL 3169-1048;BFB Tune Check

Operator: TO

Column phase:

Column diameter: 2.00



Data File: /chem/msda.i/10SEP24.b/a091004.d

Date : 10-SEP-2024 12:09

Client ID: BFB

Instrument: msda.i

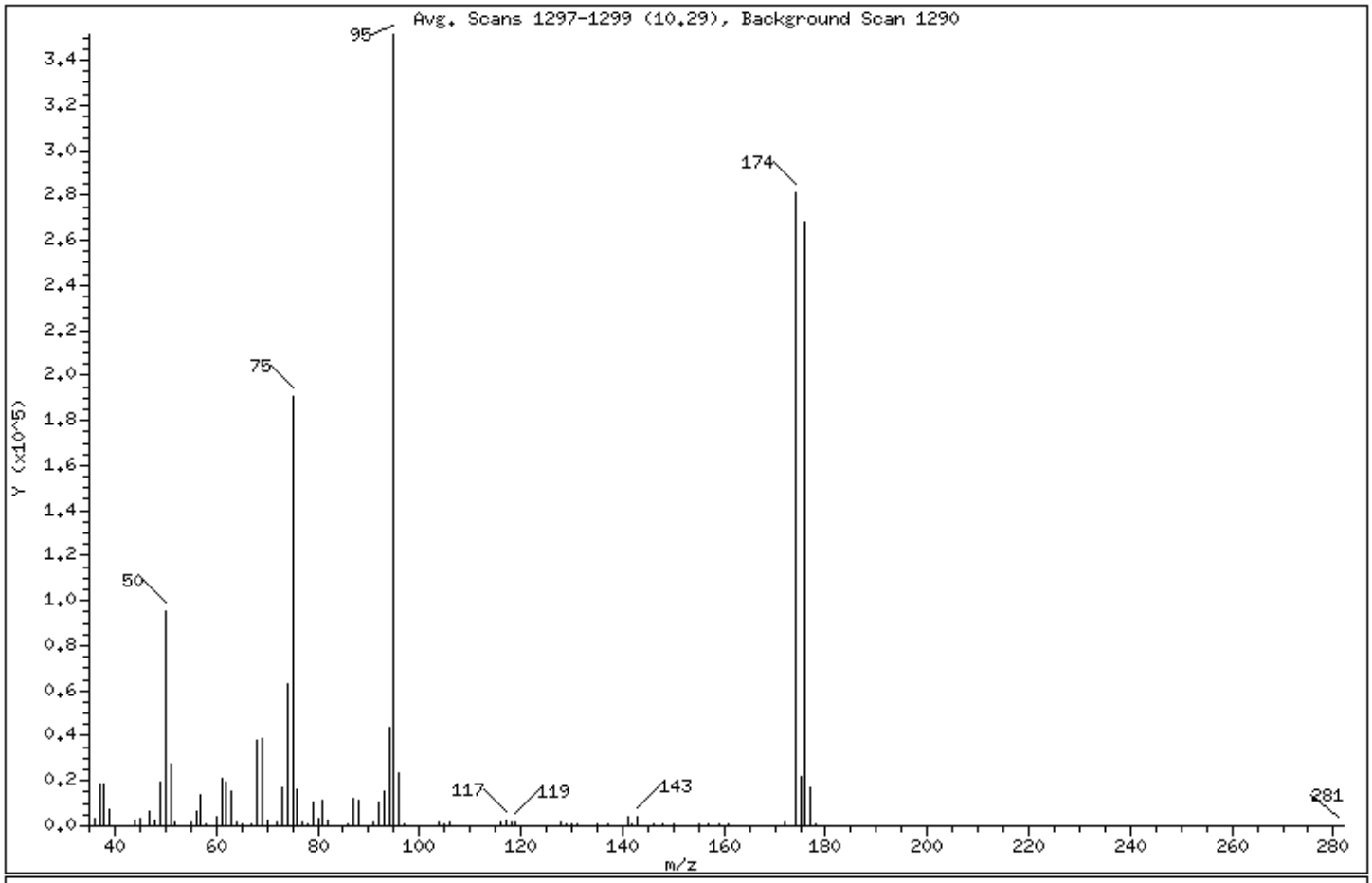
Sample Info: 50mL 3169-1048;BFB Tune Check

Operator: TO

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	27.17
75	30.00 - 66.00% of mass 95	54.22
96	5.00 - 9.00% of mass 95	6.59
173	Less than 1.99% of mass 174	0.00 (0.00)
174	50.01 - 120.00% of mass 95	80.01
175	4.00 - 9.00% of mass 174	6.29 (7.86)
176	93.01 - 100.99% of mass 174	76.24 (95.30)
177	5.00 - 9.00% of mass 176	4.83 (6.33)

Date : 10-SEP-2024 12:09

Client ID: BFB Instrument: msda.i

Sample Info: 50mL 3169-1048;BFB Tune Check

Operator: TO

Column phase: Column diameter: 2.00

Data File: a091004.d
Spectrum: Avg. Scans 1297-1299 (10.29), Background Scan 1290
Location of Maximum: 95.00
Number of points: 107

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3439	67.00	1161	103.00	173	142.00	562
37.00	18832	68.00	38032	104.00	1700	143.00	4238
38.00	18352	69.00	38952	105.00	522	144.00	366
39.00	7110	70.00	2725	106.00	1989	145.00	348
40.00	292	71.00	222	107.00	297	146.00	630
43.00	7	72.00	1934	110.00	247	147.00	260
44.00	2112	73.00	16912	111.00	326	148.00	750
45.00	3601	74.00	63112	112.00	200	149.00	130
46.00	327	75.00	190528	113.00	364	150.00	544
47.00	6620	76.00	16060	115.00	356	152.00	59
48.00	2393	77.00	1766	116.00	1400	153.00	275
49.00	19600	78.00	889	117.00	2508	154.00	115
50.00	95464	79.00	10520	118.00	1320	155.00	851
51.00	27328	80.00	2946	119.00	1928	157.00	690
52.00	1337	81.00	11690	123.00	197	159.00	423
53.00	109	82.00	2467	124.00	184	161.00	551
55.00	1268	83.00	248	126.00	225	169.00	53
56.00	6642	86.00	404	128.00	1515	170.00	52
57.00	13336	87.00	12067	129.00	622	171.00	153
58.00	552	88.00	11640	130.00	1176	172.00	1231
60.00	3965	91.00	1390	131.00	550	174.00	281088
61.00	20688	92.00	10282	135.00	491	175.00	22080
62.00	19592	93.00	15456	137.00	767	176.00	267904
63.00	15645	94.00	43552	138.00	56	177.00	16960
64.00	1446	95.00	351360	139.00	211	178.00	488
65.00	804	96.00	23152	140.00	338	281.00	362
66.00	107	97.00	739	141.00	3846		

US32TAR1

Data file : /chem/msda.i/11NOV24.b/a111102.d
Lab Smp Id: BFB Tune Check Client Smp ID: BFB Tune Check
Inj Date : 11-NOV-2024 09:03
Operator : MS Inst ID: msda.i
Smp Info : 50mL 3169-1048
Misc Info : 36ng
Comment :
Method : /chem/msda.i/11NOV24.b/bfb60.m
Meth Date : 11-Nov-2024 09:28 v4zy Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 12 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: AIR

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (PPBV)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
10.292	10.342	-0.050	95	323584			100.00- 100.00	100.00
10.292	10.342	-0.050	50	86594			8.00- 40.00	26.76
10.292	10.342	-0.050	75	166826			30.00- 66.00	51.56
10.292	10.342	-0.050	96	21933			5.00- 9.00	6.78
10.292	10.342	-0.050	173	3141			0.00- 1.99	1.19
10.292	10.342	-0.050	174	264832			50.01- 120.00	81.84
10.292	10.342	-0.050	175	20429			4.00- 9.00	7.71
10.292	10.342	-0.050	176	249621			93.01- 100.99	94.26
10.292	10.342	-0.050	177	16486			5.00- 9.00	6.60

Data File: /chem/msda.i/11NOV24.b/a111102.d

Date : 11-NOV-2024 09:03

Client ID: BFB Tune Check

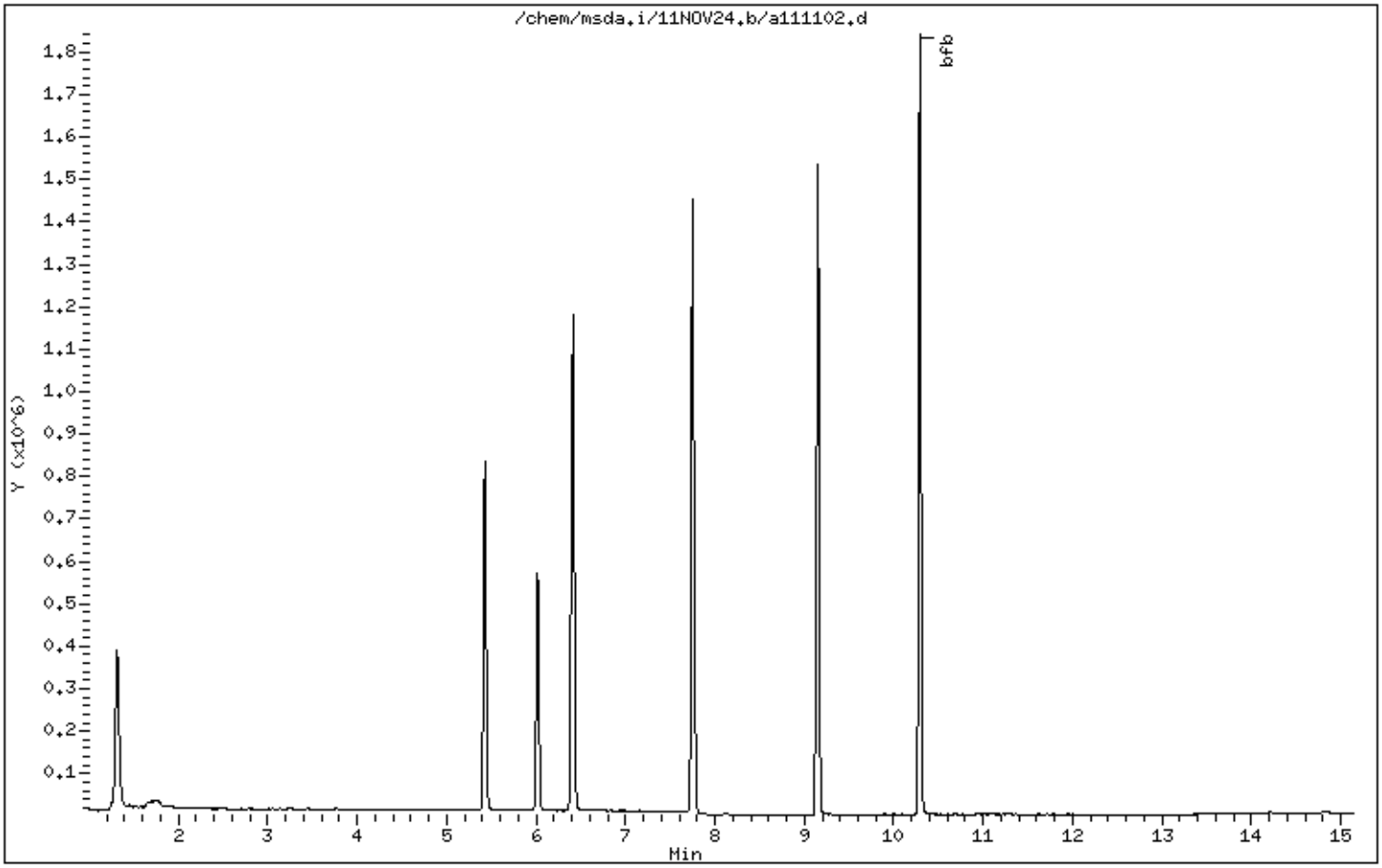
Instrument: msda.i

Sample Info: 50mL 3169-1048

Operator: MS

Column phase:

Column diameter: 2.00



Data File: /chem/msda.i/11NOV24.b/a111102.d

Date : 11-NOV-2024 09:03

Client ID: BFB Tune Check

Instrument: msda.i

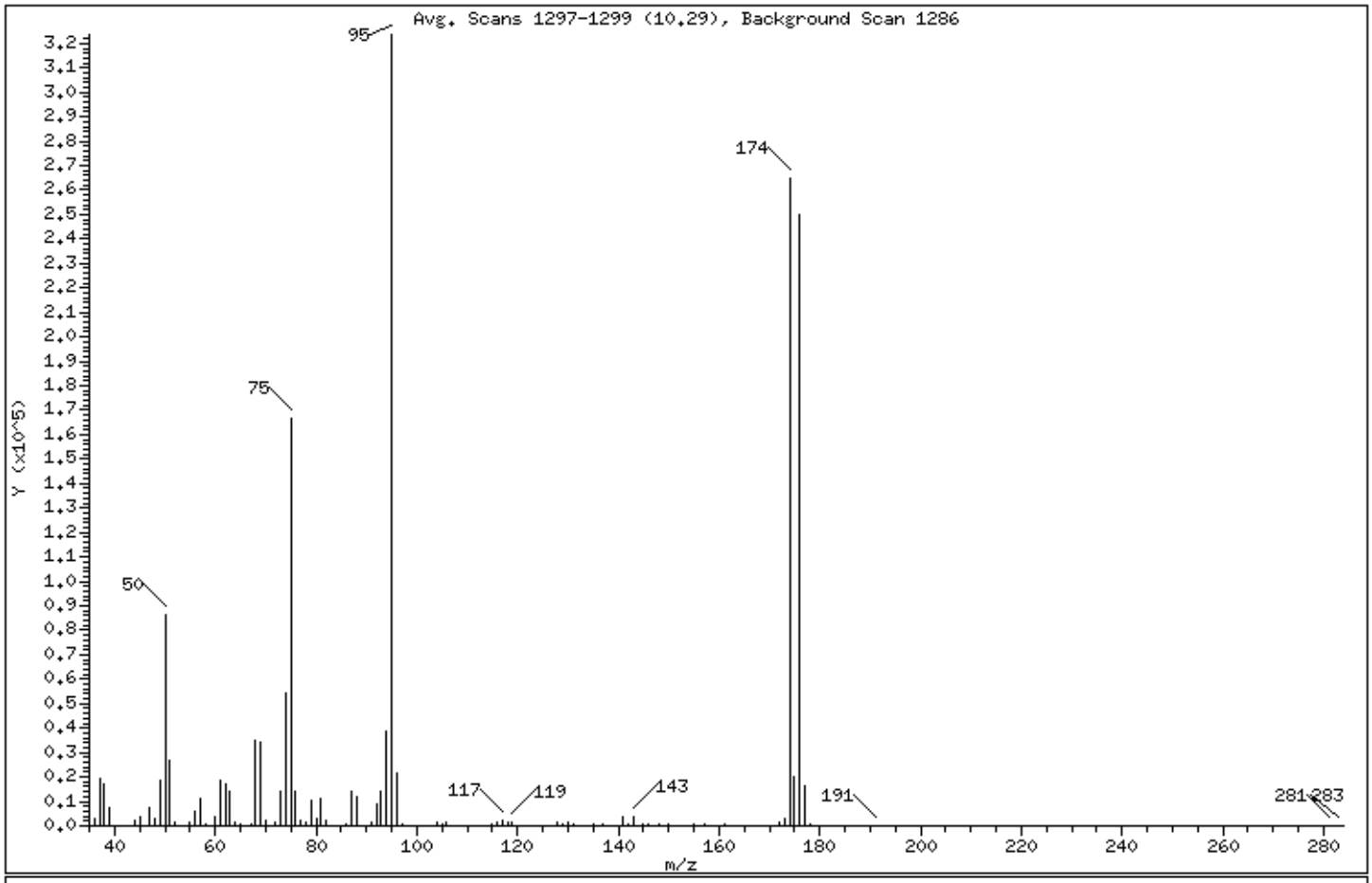
Sample Info: 50mL 3169-1048

Operator: MS

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	26.76
75	30.00 - 66.00% of mass 95	51.56
96	5.00 - 9.00% of mass 95	6.78
173	Less than 1.99% of mass 174	0.97 (1.19)
174	50.01 - 120.00% of mass 95	81.84
175	4.00 - 9.00% of mass 174	6.31 (7.71)
176	93.01 - 100.99% of mass 174	77.14 (94.26)
177	5.00 - 9.00% of mass 176	5.09 (6.60)

Date : 11-NOV-2024 09:03

Client ID: BFB Tune Check Instrument: msda.i

Sample Info: 50mL 3169-1048

Operator: MS

Column phase: Column diameter: 2.00

Data File: a111102.d
Spectrum: Avg. Scans 1297-1299 (10.29), Background Scan 1286
Location of Maximum: 95.00
Number of points: 109

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3317	68.00	34880	105.00	522	147.00	230
37.00	19192	69.00	34232	106.00	1558	148.00	738
38.00	17048	70.00	2228	107.00	321	149.00	284
39.00	7363	72.00	1779	110.00	250	150.00	432
40.00	63	73.00	14274	111.00	290	152.00	187
42.00	85	74.00	54400	112.00	184	153.00	257
43.00	249	75.00	166784	113.00	253	154.00	226
44.00	2075	76.00	13973	115.00	454	155.00	811
45.00	3658	77.00	2172	116.00	1220	156.00	232
46.00	270	78.00	1454	117.00	2238	157.00	575
47.00	7543	79.00	10190	118.00	1206	159.00	355
48.00	2610	80.00	2703	119.00	1800	161.00	473
49.00	18304	81.00	11179	124.00	118	171.00	309
50.00	86592	82.00	2010	126.00	211	172.00	1250
51.00	26432	83.00	204	128.00	1144	173.00	3141
52.00	1405	85.00	52	129.00	537	174.00	264832
53.00	204	86.00	440	130.00	1316	175.00	20424
55.00	1139	87.00	13824	131.00	534	176.00	249600
56.00	5660	88.00	12255	135.00	764	177.00	16480
57.00	10865	91.00	1271	136.00	173	178.00	505
58.00	433	92.00	9032	137.00	720	191.00	50
60.00	3740	93.00	13850	140.00	217	193.00	50
61.00	18912	94.00	38680	141.00	3528	281.00	313
62.00	17392	95.00	323584	142.00	476	282.00	161
63.00	14018	96.00	21928	143.00	3999	283.00	63
64.00	1185	97.00	588	144.00	208		
65.00	900	103.00	319	145.00	592		
67.00	1104	104.00	1690	146.00	406		

Shipping/Receiving Documents

eurofins | Air Toxics

Eurofins Air Toxics Sample Receipt Confirmation Cover Page

Thank you for choosing Eurofins Air Toxics (EATL). We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for accuracy.

For corrections call: **Air Toxics, Ltd. at 916-985-1000**

EATL will proceed with the analysis as specified on the Chain of Custody (COC) and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the COC will be provided with the final report.

The following discrepancies have been observed:

We have found a discrepancy between the Chain of Custody (COC) and the sample tag. The sample labeled T1AMF-SV028_OCT24_FD on the COC is labeled as T1AMF-SV028_OCT24 on the sample tag. The laboratory will report the sample identification on the COC unless otherwise notified.

The Chain of Custody (COC) information for sample T1AMF-SV023_OCT24 did not match the information on the canister with regard to canister barcode. The sample labeled 1L4684 on the COC is labeled as 1L4686 on the canister. Unless otherwise notified, Eurofins Air Toxics will proceed with the analysis using the information on the canister to process and report the sample.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

eurofins | Air Toxics

Analysis Request /Canister Chain of Custody

For Laboratory Use Only
PID: _____ Workorder #: 2410702

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Click links below to view:
Canister Sampling Guide
Helium Shroud Video

Client: Parsons PID: J09CA1108-01
Project Name: Titan 1-A Semi Annual Groundwater and Soil Vapor Sampling
Project Manager: Carrie Ross P.O.# 0015539
Sampler: Ben Dieffenbacher/Jack Patton (BTS)
Site Name: Titan 1-A

Special Instructions/Notes:
Please email analytical results to:
Mark.Rigby@Parsons.com
Katherine.LaPierre@parsons.us

Turnaround Time (Rush surcharges may apply)
Select TAT from drop down box: Standard

Lab ID	Sample Identification	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Canister Vacuum/Pressure		Lab Use Only		Requested Analyses			
				Date	Time	Date	Time	Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N_2 / He	TO-15			
17A	T1AMF-SV033_OCT24	1L1724	25349	10/24/24	1538	10/24/24	1556	-29	-5			X			
18A	T1AMF-SV023_OCT24	1L4684	22514	10/25/24	0806	10/25/24	0811	-27	-5			X			
19A	T1AMF-SV023_OCT24_FD	1L2495	22622	10/25/24	0806	10/25/24	0811	-27	-5			X			
20A	T1AMF-SV021_OCT24	1L2636	25588	10/25/24	0928	10/25/24	0948	-28.5	-28.5			X			
21A	T1AMF-SV002_OCT24	1L4234	25600	10/25/24	1030	10/25/24	1036	-30	-5			X			
22A	T1AMF-SV034_OCT24	1L4206	25523	10/25/24	1134	10/25/24	1145	-30	-5			X			
23A	T1AMF-SV020_OCT24	1L3087	30521	10/25/24	1240	10/25/24	1250	-27	-5			X			
24A	T1AMF-SV022_OCT24	1L3909	25035	10/25/24	1341	10/25/24	1348	-28	-5			X			
25A	T1AMF-SV025_OCT24	1L2348	25509	10/25/24	1432	10/25/24	1439	-28	-5			X			
26A	T1AMF-SV019_OCT24	1L2017	24618	10/28/24	0824	10/28/24	0830	-29	-5			X			
27A	T1AMF-SV004_OCT24	1L2047	30679	10/28/24	0934	10/28/24	0940	-26	-5			X			
28A	T1AMF-SV09B_OCT24	1L2909	30982	10/28/24	1039	10/28/24	1047	-28	-5			X			
29A	T1AMF-SV015B_OCT24	1L4483	25436	10/28/24	1233	10/28/24	1238	-26	-5			X			
30A	T1AMF-SV030_OCT24	1L1983	30716	10/28/24	1335	10/28/24	1341	-29	-5			X			
31A	T1AMF-SV029_OCT24	1L2055	21483	10/28/24	1445	10/28/24	1459	-29	-20			X			
32A	T1AMF-SV005B_OCT24	1L4477	25034	10/29/24	0815	10/29/24	0822	-26	-5			X			

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Justin Steere / Parsons	10/29/24	1511	EATL	10/29/24	1511
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: HD | Custody Seals Intact? | Yes | No | None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

eurofins | Air Toxics

Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: 2410702

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Click links below to view:
Canister Sampling Guide
Helium Shroud Video

Client: Parsons PID: J09CA1108-01
Project Name: Titan 1-A Semi Annual Groundwater and Soil Vapor Sampling
Project Manager: Carrie Ross P.O.# 0015539
Sampler: Ben Dieffenbacher/Jack Patton (BTS)
Site Name: Titan 1-A

Special Instructions/Notes:
Please email analytical results to:
Mark.Rigby@Parsons.com
Katherine.LaPierre@parsons.us

Turnaround Time (Rush surcharges may apply)
Select TAT from drop down box: Standard

Lab ID	Sample Identification	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Canister Vacuum/Pressure		Lab Use Only		Requested Analyses			
				Date	Time	Date	Time	Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N_2 / He	TO-15			
33A	T1AMF-SV006_OCT24	1L2582	25552	10/29/24	0919	10/29/24	0924	-27	-5			X			
34A	T1AMF-SV016_OCT24	1L2852	25358	10/29/24	1031	10/29/24	1037	-28	-5			X			
35A	T1AMF-SV018_OCT24	1L1960	25506	10/29/24	1250	10/29/24	1255	-28	-5			X			

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Justin Stacie / Parsons	10/29/24	1511	EATL	10/29/24	1511
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: HD | Custody Seals Intact? | Yes | No | None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

eurofins | Air Toxics

SAMPLE RECEIPT SUMMARY

WORKORDER 2410702A

Client

Mr. Mark Rigby
PARSONS GOVERNMENT SERVICES INC.
10235 So. South Jordan Gateway
Suite 300
South Jordan, UT 84095
Sales Rep: KD

Phone

801-572-5999

Fax

801-572-9069

Date Promised: 11/12/24
Date Completed:
Date Received: 10/29/24
PO#: 0015539
Project#: J09CA1108-01 Titan 1-A Semi Annual Groundwater and So
Total $: $ 7,037.50
Logged By: BJC

Fraction	Sample #	Analysis	Collected	Amount$
01A	T1AMF-SV011_OCT24	TO-15	10/23/2024	$145.00
02A	T1AMF-SV010_OCT24	TO-15	10/23/2024	$145.00
03A	T1AMF-SV028_OCT24	TO-15	10/23/2024	$145.00
04A	T1AMF-SV028_OCT24_FD	TO-15	10/23/2024	$145.00
05A	T1AMF-SV027_OCT24	TO-15	10/23/2024	$145.00
06A	T1AMF-SV003_OCT24	TO-15	10/23/2024	$145.00
07A	T1AMF-SV017B_OCT24	TO-15	10/23/2024	$145.00
08A	T1AMF-SV031_OCT24	TO-15	10/23/2024	$145.00
09A	T1AMF-SV032a_OCT24	TO-15	10/24/2024	$145.00
10A	T1AMF-SV032b_OCT24	TO-15	10/24/2024	$145.00
11A	T1AMF-SV024_OCT24	TO-15	10/24/2024	$145.00
12A	T1AMF-SV001_OCT24	TO-15	10/24/2024	$145.00
13A	T1AMF-SV026_OCT24	TO-15	10/24/2024	$145.00
14A	T1AMF-SV026_OCT24_FD	TO-15	10/24/2024	$145.00
15A	T1AMF-SV035_OCT24	TO-15	10/24/2024	$145.00
16A	T1AMF-SV035_OCT24_FD	TO-15	10/24/2024	$145.00

Misc. Charges	1 Liter Summa Canister (50) @ $40.00 each., Shipment 164604	$2 000.00
	Duplicate Sampling T (5) @ $12.00 each., Shipment 164604	$60.00
	Soil Gas Manifold (50) @ $40.00 each., Shipment 164604	$2 000.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Titan 1A Soil Vapor/28661

BILL TO: Mr. Mark Rigby
PARSONS GOVERNMENT SERVICES INC.
10235 So. South Jordan Gateway
Suite 300
South Jordan, UT 84095

Analysis Code: TO-14A

REMARKS: Full Project Name: Titan 1-A Semi Annual Groundwater and Soil Vapor Sampling

TERMS:

Reporting Method: TO-15 (DoD) (Sh)-Parsons (Titan 1A)

SAMPLE RECEIPT SUMMARY Continued

Client

Mr. Mark Rigby
PARSONS GOVERNMENT SERVICES INC.
10235 So. South Jordan Gateway
Suite 300
South Jordan, UT 84095
Sales Rep:

Phone

801-572-5999

Fax

801-572-9069

Date Promised:
Date Completed:
Date Received: 10/29/24
PO#: 0015539
Project#: J09CA1108-01 Titan 1-A Semi Annual Groundwater and So
Total $: $ 7,037.50
Logged By: BJC

Fraction	Sample #	Analysis	Collected	Amount$
	SERWM Fee (35) @ $2.50 each.			$87.50
	Client Specific EDD (16) @ $10.00 each.			$160.00
	eCVP (16) @ $10.00 each.			$160.00
	Fitting w/ Pink Ferrule (50) @ $5.00 each.			$250.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Titan 1A Soil Vapor/28661

BILL TO: Mr. Mark Rigby
PARSONS GOVERNMENT SERVICES INC.
10235 So. South Jordan Gateway
Suite 300
South Jordan, UT 84095

Analysis Code: TO-14A

REMARKS: Full Project Name: Titan 1-A Semi Annual Groundwater and Soil Vapor Sampling

TERMS:

Reporting Method: TO-15 (DoD) (Sh)-Parsons (Titan 1A)

Sample Discrepancy Report

Identification

Initiated By: BJC **Project ID:**28661 **PM**: BSW **Date:** 10/31/2024 **Discrepancy Type:** ☒ **1.** ☒ **2.** ☐ **3.**

Workorder(s) affected:2410702B **Sample(s) affected:** 18A,20A,31A

1. Sample Receipt Discrepancies

Narration Not Required:

1.1. ☐ Sample container (cartridge/tube) was received broken, however sample was intact.
1.2. ☐ No brass cap on canister.
1.3. ☐ Date of Collection noted on first sample, but no arrow down to indicate all samples.
1.4. ☐ Sampling year not documented on COC but noted on sample tag.
1.5. ☐ Sorbent Sample received outside method required temperature of 2°C to 6°C but less than 6°C.

Notify Lab for further determination:

1.6. ☐ Tedlar bag received with minimal volume.

Narration Required in Lab Narrative and Sample Confirmation:

1.7. ☐ COC was not filled out in ink.
1.8. ☐ COC improperly relinquished / received.
☐Signature missing ☐date missing ☐time missing.
1.9. ☐ Sample ID on tags do not match the COC.
1.10. ☒ Can numbers do not match the COC.
1.11. ☐ Sampling date discrepancy.
1.12. ☐ Custody Seal on the outside of the container was ☐ broken / ☐ improperly placed (check one).
1.13. ☐ ID-none on the sample Tag/Blank.
1.14. ☐ Other (describe below).

Initials: _____Date:_____

Describe the Discrepancy: 1.10-18A

2. Sample Receipt/Screening Discrepancies requiring PM notification

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

If Section II. is filled out PM must be notified within 24 hrs of initiation

2.1. ☐ COC was not received with samples.
2.2. ☐ Analysis method(s) is ☐ not specified / ☐ incorrectly specified (check one) on the COC.
2.3. ☐ Incorrect sampling media / container for analysis requested.
2.4. ☐ Number of samples on the COC does not match the number of samples that were received.
2.5. ☐ Samples were received expired.
2.6. ☐ Sampling date is not documented for ☐ *some* / ☐ *any* samples (check one).
2.7. ☐ Sample received with amount of H_2O in the Tedlar Bag.
2.8. ☐ Sample cannot be analyzed. Container was ☐ received broken / ☐ leaking / ☐ flat / ☐ defective.
2.9. ☐ Tedlar bag / canister received emitting a strong odor; Sample ☐ can / ☐ cannot (check one) be analyzed.
2.10. ☐ Sorbent samples -sampling volume was not provided.
2.11. ☐ Flow controller used – canister samples received at ambient or under pressure.
2.12. ☐ Canister was at ambient pressure at time of pressurization and (check all that apply):
☐ Canister valve was open.
☐ Brass nut was loose/not present.
☐ Sample can be analyzed.
☐ Sample cannot be analyzed.
2.13. ☐ Canister sample received with a vacuum difference >5.0"Hg between the receipt vac. and the final recorded vac. on the COC.
☐ Canister passed leak check in lab <2psi, no evidence sample was compromised.
☐ Canister failed lab leak check, canister found to be leaking. Canister sample compromised.
2.14. ☒ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).
2.15. ☐ Canister Trip Blank received at low vacuum (<25"Hg).
2.16. ☐ Sorbent Sample received outside method required temperature of 2°C to 6°C; ☐ ice / ☐ blue ice (check one) was present. A temp. Blank ☐ was / ☐ was not present (check one).
2.17. ☐ Other (describe below).

Initials: **BTS** **Date:** **11/6/2024** **Notify Receiving:** ☐ **Notify PM:** ☐

Describe the Discrepancy: 2.14 on samples 20A and 31A

3. Lab Discrepancies requiring Team Leader/PM notification

Document in Analytical Notes of Lab Narrative

If Section III. is filled out PM must be notified within 24 hrs of initiation

3.1. ☐ Tedlar Bag found to be leaking at the time of analysis; sample ☐ can / ☐ cannot (check one) be analyzed.

3.2. ☐ Tedlar Bag found to be flat/low volume; sample cannot be analyzed.

3.3. ☐ Samples received with insufficient time to analyze prior to expiration.

3.4. ☐ Canister found to be leaking at the time of analysis.

3.5. ☐ Sample loss due to instrument malfunction / broken glassware.

3.6. ☐ Low/high surrogate recoveries noted in QC/sample(s) for extractable samples.

3.7. ☐ Reporting Limit was raised.

3.8. ☐ Post weight > Pre weight in field/lab Blank for PM10/TSP samples.

3.9. ☐ Sample Trip Blank has a reportable level(s) of target compound(s) present. Re-analysis confirmed the initial result.

3.10. ☐ Other (describe below).

Initials: _____ **Date:** _____ **Notify Receiving:** ☐ **Notify PM:** ☐ _____

Team Lead Initials: _____ **Date:** _____

Describe the Discrepancy: _____

_____

_____

How Does this Affect Client: _____

_____

_____

Project Manager Use Only

Project Manager Notification ☒ **Section 2 Complete** ☐ **Section 3 Complete**

Action:

☐ It is not necessary to notify the client. Narrate the discrepancy in Receiving Notes/Analytical Notes of Lab Narrative.

PM Initials:_____ Date: _____

☒ Client notification required. See attached client contact / email, or comments below:

Client Notification:

PM Initials:BSW Person notified: Katherine L. Date: 11/7/2024

☐ Waiting for Client Reply

Comments: **Narrate and proceed** _____

_____

☐ Notify Lab Name: _____ Date: _____ **Notify Receiving:** ☐

☐ **Additional notifications attached.**

Additional Comments:

_____

Other Records

Dilution Factor = $\frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{\text{14.7psi + Final Pressure (psi)}}{\text{14.7psi –[Init. Pressure (“Hg))*(14.7psi/30”Hg)]}}$

Dilution Factor = $\frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{\text{14.7psi + Final Pressure (psi)}}{\text{14.7psi +Initial Pressure (psi)}}$

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
0.0	**1.14**	1.34	**1.68**	2.02
0.2	**1.14**	1.35	**1.69**	2.03
0.4	**1.15**	1.36	**1.70**	2.05
0.5	**1.16**	1.36	**1.71**	2.05
0.6	**1.16**	1.37	**1.71**	2.06
0.8	**1.17**	1.38	**1.73**	2.08
1.0	**1.18**	1.39	**1.74**	2.09
1.2	**1.18**	1.40	**1.75**	2.10
1.4	**1.19**	1.40	**1.76**	2.12
1.5	**1.20**	1.41	**1.77**	2.13
1.6	**1.20**	1.42	**1.77**	2.13
1.8	**1.21**	1.42	**1.79**	2.15
2.0	**1.22**	1.44	**1.80**	2.16
2.2	**1.23**	1.45	**1.81**	2.18
2.4	**1.23**	1.46	**1.83**	2.20
2.5	**1.24**	1.46	**1.83**	2.20
2.6	**1.24**	1.47	**1.84**	2.21
2.8	**1.25**	1.48	**1.85**	2.23
3.0	**1.26**	1.49	**1.87**	2.24
3.2	**1.27**	1.50	**1.88**	2.26
3.4	**1.28**	1.51	**1.90**	2.28
3.5	**1.29**	1.52	**1.90**	2.29
3.6	**1.29**	1.52	**1.91**	2.30
3.8	**1.30**	1.53	**1.92**	2.31
4.0	**1.31**	1.55	**1.94**	2.33
4.2	**1.32**	1.56	**1.95**	2.35
4.4	**1.33**	1.57	**1.97**	2.37
4.5	**1.34**	1.58	**1.98**	2.38
4.6	**1.34**	1.58	**1.98**	2.39
4.8	**1.35**	1.60	**2.00**	2.40
5.0	**1.36**	1.61	**2.02**	2.42
5.2	**1.37**	1.62	**2.03**	2.44
5.4	**1.39**	1.63	**2.05**	2.46
5.5	**1.39**	1.64	**2.06**	2.47
5.6	**1.40**	1.65	**2.07**	2.48
5.8	**1.41**	1.66	**2.08**	2.50
6.0	**1.42**	1.68	**2.10**	2.52
6.2	**1.43**	1.69	**2.12**	2.55
6.4	**1.44**	1.70	**2.14**	2.57
6.5	**1.45**	1.71	**2.15**	2.58
6.6	**1.46**	1.72	**2.15**	2.59
6.8	**1.47**	1.73	**2.17**	2.61
7.0	**1.48**	1.75	**2.19**	2.64
7.2	**1.49**	1.76	**2.21**	2.66
7.4	**1.51**	1.78	**2.23**	2.68
7.5	**1.51**	1.79	**2.24**	2.69
7.6	**1.52**	1.79	**2.25**	2.70

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
7.7	**1.53**	1.80	**2.26**	2.72
7.8	**1.54**	1.81	**2.27**	2.73
8.0	**1.55**	1.83	**2.29**	2.76
8.2	**1.56**	1.84	**2.31**	2.78
8.4	**1.58**	1.86	**2.33**	2.81
8.5	**1.59**	1.87	**2.34**	2.82
8.6	**1.59**	1.88	**2.36**	2.83
8.8	**1.61**	1.90	**2.38**	2.86
9.0	**1.62**	1.91	**2.40**	2.89
9.2	**1.64**	1.93	**2.42**	2.91
9.4	**1.65**	1.95	**2.45**	2.94
9.5	**1.66**	1.96	**2.46**	2.96
9.6	**1.67**	1.97	**2.47**	2.97
9.8	**1.69**	1.99	**2.50**	3.00
10.0	**1.70**	2.01	**2.52**	3.03
10.2	**1.72**	2.03	**2.55**	3.06
10.4	**1.74**	2.05	**2.57**	3.09
10.5	**1.75**	2.06	**2.59**	3.11
10.6	**1.76**	2.07	**2.60**	3.12
10.8	**1.78**	2.09	**2.63**	3.16
11.0	**1.79**	2.12	**2.65**	3.19
11.2	**1.81**	2.14	**2.68**	3.22
11.4	**1.83**	2.16	**2.71**	3.26
11.5	**1.84**	2.17	**2.72**	3.28
11.6	**1.85**	2.18	**2.74**	3.29
11.8	**1.87**	2.21	**2.77**	3.33
12.0	**1.89**	2.23	**2.80**	3.37
12.2	**1.91**	2.26	**2.83**	3.40
12.4	**1.94**	2.28	**2.86**	3.44
12.5	**1.95**	2.30	**2.88**	3.46
12.6	**1.96**	2.31	**2.90**	3.48
12.8	**1.98**	2.34	**2.93**	3.52
13.0	**2.00**	2.36	**2.97**	3.56
13.2	**2.03**	2.39	**3.00**	3.61
13.4	**2.05**	2.42	**3.04**	3.65
13.5	**2.07**	2.44	**3.06**	3.67
13.6	**2.08**	2.45	**3.07**	3.70
13.8	**2.10**	2.48	**3.11**	3.74
14.0	**2.13**	2.51	**3.15**	3.79
14.2	**2.16**	2.54	**3.19**	3.84
14.4	**2.18**	2.58	**3.23**	3.88
14.5	**2.20**	2.59	**3.25**	3.91
14.6	**2.21**	2.61	**3.27**	3.94
14.8	**2.24**	2.64	**3.32**	3.99
15.0	**2.27**	2.68	**3.36**	4.04
15.2	**2.30**	2.72	**3.41**	4.10
15.4	**2.33**	2.75	**3.45**	4.15

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
15.5	**2.35**	2.77	**3.48**	4.18
15.6	**2.37**	2.79	**3.50**	4.21
15.8	**2.40**	2.83	**3.55**	4.27
16.0	**2.43**	2.87	**3.60**	4.33
16.2	**2.47**	2.91	**3.65**	4.39
16.4	**2.51**	2.96	**3.71**	4.46
16.5	**2.52**	2.98	**3.73**	4.49
16.6	**2.54**	3.00	**3.76**	4.52
16.8	**2.58**	3.05	**3.82**	4.59
17.0	**2.62**	3.09	**3.88**	4.66
17.2	**2.66**	3.14	**3.94**	4.74
17.4	**2.70**	3.19	**4.00**	4.81
17.5	**2.73**	3.22	**4.03**	4.85
17.6	**2.75**	3.24	**4.07**	4.89
17.8	**2.79**	3.30	**4.13**	4.97
18.0	**2.84**	3.35	**4.20**	5.05
18.2	**2.89**	3.41	**4.27**	5.14
18.4	**2.94**	3.47	**4.35**	5.22
18.5	**2.96**	3.50	**4.38**	5.27
18.6	**2.99**	3.53	**4.42**	5.32
18.8	**3.04**	3.59	**4.50**	5.41
19.0	**3.10**	3.65	**4.58**	5.51
19.2	**3.16**	3.72	**4.67**	5.61
19.4	**3.22**	3.79	**4.76**	5.72
19.5	**3.25**	3.83	**4.80**	5.77
19.6	**3.28**	3.87	**4.85**	5.83
19.8	**3.34**	3.94	**4.94**	5.94
20.0	**3.41**	4.02	**5.04**	6.06
20.2	**3.48**	4.10	**5.14**	6.18
20.4	**3.55**	4.19	**5.25**	6.31
20.5	**3.59**	4.23	**5.31**	6.38
20.6	**3.63**	4.28	**5.36**	6.45
20.8	**3.70**	4.37	**5.48**	6.59
21.0	**3.79**	4.47	**5.60**	6.73
21.2	**3.87**	4.57	**5.73**	6.89
21.4	**3.96**	4.67	**5.86**	7.05
21.5	**4.01**	4.73	**5.93**	7.13
21.6	**4.06**	4.79	**6.00**	7.22
21.8	**4.16**	4.90	**6.15**	7.39
22.0	**4.26**	5.03	**6.30**	7.58
22.4	**4.48**	5.29	**6.63**	7.98

Initial Vacuum (" of Hg)	2 psi	5 psi	10 psi	15 psi
22.5	**4.54**	5.36	**6.72**	8.08
22.6	**4.61**	5.43	**6.81**	8.19
22.8	**4.73**	5.58	**7.00**	8.42
23.0	**4.87**	5.74	**7.20**	8.66
23.2	**5.01**	5.91	**7.41**	8.91
23.4	**5.16**	6.09	**7.64**	9.18
23.5	**5.24**	6.19	**7.76**	9.32
23.6	**5.33**	6.28	**7.88**	9.47
23.8	**5.50**	6.48	**8.13**	9.78
24.0	**5.68**	6.70	**8.40**	10.10
24.2	**5.88**	6.93	**8.69**	10.45
24.4	**6.09**	7.18	**9.00**	10.82
24.5	**6.20**	7.31	**9.17**	11.02
24.6	**6.31**	7.45	**9.33**	11.22
24.8	**6.55**	7.73	**9.69**	11.66
25.0	**6.82**	8.04	**10.08**	12.12
25.2	**7.10**	8.38	**10.50**	12.63
25.4	**7.41**	8.74	**10.96**	13.18
25.5	**7.57**	8.93	**11.20**	13.47
25.6	**7.75**	9.14	**11.46**	13.78
25.8	**8.11**	9.57	**12.00**	14.43
26.0	**8.52**	10.05	**12.60**	15.15
26.2	**8.97**	10.58	**13.27**	15.95
26.4	**9.47**	11.17	**14.00**	16.84
26.5	**9.74**	11.49	**14.40**	17.32
26.6	**10.02**	11.82	**14.83**	17.83
26.8	**10.65**	12.56	**15.75**	18.94
27.0	**11.36**	13.40	**16.80**	20.20
27.2	**12.17**	14.36	**18.00**	21.65
27.4	**13.11**	15.46	**19.39**	23.31
27.5	**13.63**	16.08	**20.16**	24.24
27.6	**14.20**	16.75	**21.00**	25.26
27.8	**15.49**	18.27	**22.91**	27.55
28.0	**17.04**	20.10	**25.20**	30.31
28.2	**18.93**	22.34	**28.00**	33.67
28.4	**21.30**	25.13	**31.51**	37.88
28.5	**22.72**	26.80	**33.61**	40.41
28.6	**24.34**	28.72	**36.01**	43.29
28.8	**28.40**	33.50	**42.01**	50.51
29.0	**34.08**	40.20	**50.41**	60.61

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Method:TO-15 (DoD) (Sh)-Parsons (Titan 1A)

CAS Number	Compound	Rpt. Limit(ppbv)
75-35-4	1,1-Dichloroethene	0.5
106-46-7	1,4-Dichlorobenzene	0.5
71-43-2	Benzene	0.5
156-59-2	cis-1,2-Dichloroethene	0.5
100-41-4	Ethyl Benzene	0.5
108-38-3	m,p-Xylene	1.0
95-47-6	o-Xylene	0.5
108-88-3	Toluene	1.0
156-60-5	trans-1,2-Dichloroethene	0.5
79-01-6	Trichloroethene	0.5
75-01-4	Vinyl Chloride	0.5

	Surrogate	Method Limits
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130
2037-26-5	Toluene-d8	70-130

3Q 2024 TO-15 QUAD DoD Limit of Detections (LODs)
Effective 08-29-2024

CAS #	Analyte	Molecular Weight (MW)	LOD (ppbv)	LOQ (ppbv)	LOD (ug/m3)	LOQ (ug/m3)
71-55-6	1,1,1-Trichloroethane	133.42	0.45	0.5	2.45558	2.72843
79-34-5	1,1,2,2-Tetrachloroethane	167.86	0.45	0.5	3.08945	3.43272
79-00-5	1,1,2-Trichloroethane	133.42	0.45	0.5	2.45558	2.72843
75-34-3	1,1-Dichloroethane	98.97	0.45	0.5	1.82153	2.02393
75-35-4	1,1-Dichloroethene	96.95	0.45	0.5	1.78436	1.98262
120-82-1	1,2,4-Trichlorobenzene	181.46	0.75	2	5.56626	14.84335
95-63-6	1,2,4-Trimethylbenzene	120.19	0.45	2	2.21209	9.83149
106-93-4	1,2-Dibromoethane (EDB)	187.88	0.45	0.5	3.45791	3.84213
95-50-1	1,2-Dichlorobenzene	147.01	0.45	0.5	2.70571	3.00634
107-06-2	1,2-Dichloroethane	98.96	0.45	0.5	1.82135	2.02372
78-87-5	1,2-Dichloropropane	112.99	0.45	0.5	2.07957	2.31063
108-67-8	1,3,5-Trimethylbenzene	120.19	0.45	2	2.21209	9.83149
106-99-0	1,3-Butadiene	54.09	0.45	0.5	0.99552	1.10613
541-73-1	1,3-Dichlorobenzene	147.01	0.45	0.5	2.70571	3.00634
106-46-7	1,4-Dichlorobenzene	147.01	0.45	0.5	2.70571	3.00634
123-91-1	1,4-Dioxane	88.11	0.75	2	2.70276	7.20736
540-84-1	2,2,4-Trimethylpentane	114.22	0.45	0.5	2.10221	2.33579
78-93-3	2-Butanone	72.11	0.75	2	2.21196	5.89857
591-78-6	2-Hexanone	100.16	0.75	2	3.07239	8.19305
67-63-0	2-Propanol	60.09	0.75	2	1.84325	4.91534
107-05-1	3-Chloropropene	76.53	0.45	2	1.40853	6.26012
622-96-8	4-Ethyltoluene	120.19	0.45	0.5	2.21209	2.45787
108-10-1	4-Methyl-2-pentanone	100.16	0.45	0.5	1.84344	2.04826
67-64-1	Acetone	58.08	4	5	9.50184	11.87730
100-44-7	alpha-Chlorotoluene	126.58	0.45	0.5	2.32969	2.58855
71-43-2	Benzene	78.11	0.45	0.5	1.43761	1.59734
75-27-4	Bromodichloromethane	163.83	0.45	0.5	3.01528	3.35031
75-25-2	Bromoform	252.77	0.45	0.5	4.65221	5.16912
74-83-9	Bromomethane	94.95	0.75	5	2.91258	19.41718
75-15-0	Carbon Disulfide	76.14	0.75	2	2.33558	6.22822
56-23-5	Carbon Tetrachloride	153.84	0.45	0.5	2.83141	3.14601
108-90-7	Chlorobenzene	112.56	0.45	0.5	2.07166	2.30184
75-00-3	Chloroethane	64.52	1.3	2	3.43051	5.27771
67-66-3	Chloroform	119.39	0.45	0.5	2.19736	2.44151
74-87-3	Chloromethane	50.49	4.8	5	9.91215	10.32515
156-59-2	cis-1,2-Dichloroethene	96.94	0.45	0.5	1.78417	1.98241
10061-01-5	cis-1,3-Dichloropropene	110.97	0.45	0.5	2.04239	2.26933
98-82-8	Cumene	120.19	0.45	0.5	2.21209	2.45787
110-82-7	Cyclohexane	84.16	0.45	0.5	1.54896	1.72106
124-48-1	Dibromochloromethane	208.28	0.45	0.5	3.83337	4.25930
64-17-5	Ethanol	46.07	4	5	7.53701	9.42127

100-41-4	Ethyl Benzene	106.16	0.45	0.5	1.95387	2.17096
75-69-4	Freon 11	137.38	0.45	0.5	2.52847	2.80941
76-13-1	Freon 113	187.39	0.45	0.5	3.44890	3.83211
76-14-2	Freon 114	170.93	0.45	0.5	3.14595	3.49550
75-71-8	Freon 12	120.92	0.45	0.5	2.22552	2.47280
142-82-5	Heptane	100.2	0.45	2	1.84417	8.19632
87-68-3	Hexachlorobutadiene	260.76	0.75	2	7.99877	21.33006
110-54-3	Hexane	86.17	0.45	0.5	1.58595	1.76217
108-38-3	m,p-Xylene	106.17	0.45	1	1.95405	4.34233
1634-04-4	Methyl tert-butyl ether	88.15	0.75	2	2.70399	7.21063
75-09-2	Methylene Chloride	84.94	0.75	5	2.60552	17.37014
91-20-3	Naphthalene	128.17	0.1	1	0.52421	5.24213
95-47-6	o-Xylene	106.17	0.45	0.5	1.95405	2.17117
103-65-1	Propylbenzene	120.19	0.45	0.5	2.21209	2.45787
115-07-1	Propylene	42.08	0.75	2	1.29080	3.44213
100-42-5	Styrene	104.14	0.45	0.5	1.91669	2.12965
127-18-4	Tetrachloroethene	165.85	0.45	0.5	3.05245	3.39162
109-99-9	Tetrahydrofuran	72.1	0.45	0.5	1.32699	1.47444
108-88-3	Toluene	92.13	0.45	1	1.69564	3.76810
156-60-5	trans-1,2-Dichloroethene	96.94	0.45	0.5	1.78417	1.98241
10061-02-6	trans-1,3-Dichloropropene	110.97	0.45	0.5	2.04239	2.26933
79-01-6	Trichloroethene	131.39	0.45	0.5	2.41822	2.68691
108-05-4	Vinyl Acetate	86.09	0.75	2	2.64080	7.04213
75-01-4	Vinyl Chloride	62.5	0.45	0.5	1.15031	1.27812

Extra Compounds

CAS #	Analyte	Molecular Weight (MW)	LOD (ppbv)	LOQ (ppbv)	LOD (ug/m3)	LOQ (ug/m3)
95-49-8	2-Chlorotoluene	126.59	0.75	2	3.88313	10.35501
106-97-8	Butane	58.12	1.3	2	3.09022	4.75419
104-51-8	Butyl Benzene	134.22	0.45	0.5	2.47031	2.74479
111-84-2	Nonane	128.26	0.75	2	3.93436	10.49162
109-66-0	n-Pentane	72.15	0.75	2	2.21319	5.90184
111-65-9	Octane	114.22	0.75	2	3.50368	9.34315
135-98-8	sec-Butylbenzene	134.22	0.45	0.5	2.47031	2.74479
75-65-0	tert-Butyl Alcohol	74.12	0.75	2	2.27362	6.06299
98-06-6	tert-Butyl Benzene	134.22	0.75	2	4.11718	10.97914

ppbv - part per billion by volume
Concentration (ug/m3) = Concentration (ppbv)*MW/24.45
Instrument IDs - msd17, msd3, msd91, msda, msdj, msdp

Table 42. Method RSK-175 Water Matrix

CAS ID	Analyte	N Records	Mean	Standard Deviation	Lower Control Limit	Upper Control Limit
74-86-2	Acetylene	719	99.6	9.8	70	129
106-97-8	Butane	262	97.3	7.3	75	119
124-38-9	Carbon dioxide	441	100.8	6.9	80	122
74-84-0	Ethane	2240	102.6	9.6	74	131
74-85-1	Ethylene	2284	102.5	10.2	72	133
75-28-5	Isobutane	267	97.6	6.6	78	117
74-82-8	Methane	2459	99.2	8.7	73	125
74-98-6	Propane	900	98.1	8.2	74	123

Table 43. Method TO-15 Gas Matrix

CAS ID	Analyte	N Records	Mean	Standard Deviation	Lower Control Limit	Upper Control Limit
630-20-6	1,1,1,2-Tetrachloroethane	1344	97.9	10.5	67	129
71-55-6	1,1,1-Trichloroethane	5436	96.7	9.5	68	125
79-34-5	1,1,2,2-Tetrachloroethane	5273	95.9	10.4	65	127
79-00-5	1,1,2-Trichloroethane	5332	95.9	7.7	73	119
76-13-1	1,1,2-Trifluoro-1,2,2-trichloroethane [Freon-113]	5351	96.1	10	66	126
75-34-3	1,1-Dichloroethane	5422	97	9.7	68	126
75-35-4	1,1-Dichloroethene	3503	97.3	11.9	61	133
96-18-4	1,2,3-Trichloropropane	465	99.6	8	76	124
120-82-1	1,2,4-Trichlorobenzene	4545	98.5	14.5	55	142
95-63-6	1,2,4-Trimethylbenzene	4699	99.2	11.1	66	132

Table 43. Method TO-15 Gas Matrix

CAS ID	Analyte	N Records	Mean	Standard Deviation	Lower Control Limit	Upper Control Limit
106-93-4	1,2-Dibromoethane	4655	98.2	7.9	74	122
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	4572	92.4	9.7	63	121
95-50-1	1,2-Dichlorobenzene	4739	95.7	11	63	129
107-06-2	1,2-Dichloroethane	5467	96.8	10.5	65	128
78-87-5	1,2-Dichloropropane	4729	95.7	8.9	69	123
108-67-8	1,3,5-Trimethylbenzene	4679	98.3	10.4	67	130
106-99-0	1,3-Butadiene	3167	99.8	11.4	66	134
541-73-1	1,3-Dichlorobenzene	4737	97.1	10.9	65	130
142-28-9	1,3-Dichloropropane	165	105.2	14.4	62	148
542-75-6	1,3-Dichloropropene	560	100.7	8.1	77	125
106-46-7	1,4-Dichlorobenzene	4719	95.8	11.8	60	131
123-91-1	1,4-Dioxane	2656	96.5	8.6	71	122
540-84-1	2,2,4-Trimethylpentane [Isooctane]	3008	94.3	8.8	68	121
78-93-3	2-Butanone [MEK]	4635	98.4	10.4	67	130
95-49-8	2-Chlorotoluene	1092	101.9	9.2	74	130
591-78-6	2-Hexanone	4600	95.4	11	62	128
67-63-0	2-Propanol [Isopropyl alcohol]	3069	88.4	12.3	52	125
622-96-8	4-Ethyltoluene	4673	97.9	10.3	67	129
108-10-1	4-Methyl-2-pentanone [MIBK]	4646	98.5	10.5	67	130
67-64-1	Acetone	4600	92.7	11.6	58	128
75-05-8	Acetonitrile	1999	97.3	11.6	63	132
107-02-8	Acrolein [Propenal]	2469	93.8	10.6	62	126
107-13-1	Acrylonitrile	2105	103.7	10.9	71	137
107-05-1	Allyl chloride	2980	101.1	10.1	71	131

Table 43. Method TO-15 Gas Matrix

CAS ID	Analyte	N Records	Mean	Standard Deviation	Lower Control Limit	Upper Control Limit
98-83-9	alpha-Methylstyrene	1976	97.3	10.2	67	128
71-43-2	Benzene	5436	93.8	8.4	69	119
100-44-7	Benzyl chloride	4419	98.7	16.2	50	147
75-27-4	Bromodichloromethane	4682	99.9	9.3	72	128
75-25-2	Bromoform	4638	102.3	12.1	66	139
74-83-9	Bromomethane	2657	98.6	11.8	63	134
106-97-8	Butane	587	96.2	10.9	64	129
75-15-0	Carbon disulfide	4756	95.6	12.7	57	134
56-23-5	Carbon tetrachloride	4202	99.6	10.7	68	132
108-90-7	Chlorobenzene	4652	94.5	8	70	119
124-48-1	Chlorodibromomethane	4628	99.9	10	70	130
75-45-6	Chlorodifluoromethane	559	102.1	14.3	59	145
75-00-3	Chloroethane	5370	94.7	10.6	63	127
67-66-3	Chloroform	5481	95.3	9.3	68	123
74-87-3	Chloromethane	4540	95.2	12.2	59	132
156-59-2	cis-1,2-Dichloroethene	5320	95.6	8.4	70	121
10061-01-5	cis-1,3-Dichloropropene	4691	98.8	9.7	70	128
110-82-7	Cyclohexane	3178	93.5	7.7	70	117
124-18-5	Decane	1982	93.8	7.9	70	118
75-71-8	Dichlorodifluoromethane [Freon-12]	5307	93.6	11.5	59	128
108-20-3	Diisopropyl ether	2309	93.5	8	70	117
64-17-5	Ethanol	2981	91.8	11.1	59	125
141-78-6	Ethyl acetate	2835	96.4	10.5	65	128
100-41-4	Ethylbenzene	5420	96.8	9	70	124
142-82-5	Heptane	3163	95.7	8.9	69	123

Table 43. Method TO-15 Gas Matrix

CAS ID	Analyte	N Records	Mean	Standard Deviation	Lower Control Limit	Upper Control Limit
87-68-3	Hexachlorobutadiene	4551	96.7	13.7	56	138
110-54-3	Hexane	3150	91.6	9.5	63	120
98-82-8	Isopropylbenzene	3022	95.6	9.3	68	124
179601-23-1	m/p-Xylene [3/4-Xylene]	5019	97.3	12.3	61	134
80-62-6	Methyl methacrylate	3037	98.9	9.7	70	128
1634-04-4	Methyl tert-butyl ether [MTBE]	4681	95.5	10	66	126
75-09-2	Methylene chloride	5314	88.8	8.9	62	115
71-36-3	n-Butyl alcohol	1981	97.5	11.7	62	133
104-51-8	n-Butylbenzene	2656	97.7	10.6	66	130
112-40-3	n-DoDecane	1932	104.4	14.1	62	147
103-65-1	n-Propylbenzene	2570	95.7	9	69	123
91-20-3	Naphthalene	2439	97.5	13.4	57	138
111-84-2	Nonane	2617	95.4	10.8	63	128
95-47-6	o-Xylene	5334	96.3	9.7	67	125
111-65-9	Octane	2514	95	8.7	69	121
99-87-6	p-Isopropyltoluene [p-Cymene]	2694	98.1	10.5	67	130
109-66-0	Pentane	712	96.7	11.3	63	131
115-07-1	Propene	3193	96.6	13.3	57	136
135-98-8	sec-Butylbenzene	2665	96.4	9.6	68	125
100-42-5	Styrene	4735	100.1	9	73	127
75-65-0	tert-Butyl alcohol	2997	86.8	20.9	24	150
98-06-6	tert-Butylbenzene	2710	94.3	9.8	65	124
127-18-4	Tetrachloroethene	5432	95.2	9.7	66	124
109-99-9	Tetrahydrofuran	3192	93.7	9.8	64	123
108-88-3	Toluene	5406	92.7	8.8	66	119
156-60-5	trans-1,2-Dichloroethene	5411	95.5	9.5	67	124

Table 43. Method TO-15 Gas Matrix

CAS ID	Analyte	N Records	Mean	Standard Deviation	Lower Control Limit	Upper Control Limit
10061-02-6	trans-1,3-Dichloropropene	4621	104	9.6	75	133
79-01-6	Trichloroethene	5478	96.7	8.7	71	123
75-69-4	Trichlorofluoromethane [Freon-11]	5376	93.7	10.6	62	126
1120-21-4	Undecane	1976	96.1	9	69	123
108-05-4	Vinyl acetate	4599	97.4	13.7	56	139
593-60-2	Vinyl bromide	1054	98.4	9.2	71	126
75-01-4	Vinyl chloride	5445	95.1	10.4	64	127

Eurofins AirToxics

TO-14A_TO-15 QUAD SURR CLs valid to 11-12-2024 (msd3, msd16, msd91, msda, msdj, msdp) - SURR

Effective Dates 05/12/24 - 11/12/24
Data Point Analysis Dates 11/12/23 - 05/12/24

Compound Name	Upper Control Limit(%)	Lower Control Limit(%)	Upper Warning Limit(%)	Lower Warning Limit(%)	Upper ME Limit(%)	Lower Me Limit(%)
1,2-Dichloroethane-d4	132	68	121	79	142	58
4-Bromofluorobenzene	125	77	117	85	133	69
Toluene-d8	110	91	107	94	113	88

Default control limits of 20% or 180% are used for generated limits which fall outside this criteria.

Eurofins Environment Testing Northern California, LLC	Data Review Checklist			
Workorder # 2410702B	Form F1.27	Revision #21	Revision Date: 05/01/23	Page 1 of 2

S1	S2	S3	S4	D	***Section 1* – Spec Out**				
					Initials/Instrument/Date	**S1:** MSD-A MS 11/11/24	**S2:**	**S3:**	**S4:**
✓				■	Project Identification (PID), Project Requirements Table (PRT), Daily QC and ICAL met Criteria				
✓				✓	Method Name: A24Q0910a.m				
✓				■	Lumen QC and ICAL evaluation (ref. SOP/Method) report initialed and in folder				
N				■	Manual Integrations included and approved				
✓				✓	Chain of Custody verified for special comments/notes and analyses requested (add comments below)				
✓				■	Non-standard Target sublist verified (MDL, LOD, RL, control limits, etc.)				
✓				■	Verified standard expiration dates				

Profile, analyses, reporting, special notes and unusual circumstances: S1: ∅ OUT QCLB: 06C

A1	A2	A3	A4	D	***Section 2* – Sample Analysis**				
					Initials/Date	**A1:** 11/11/24	**A2:** MS 11/12/24	**A3:**	**A4:**
/	✓			✓	IS/Surr Recoveries, Dilution Factors, Load Volumes, leg(s) of instrument, Initial/Final Pressures, Canister #s Verified and dilution ranges are met per SOP (ex. Over-ranged/overdiluted). Method Transfer Dilutions Verified.				
NA	N			N	**a)** Tedlar Bag IDs verified against COC **b)** Tedlar Bag ID confirmed with loading sequence/leg(s) of instrument				
NA	N			N	Manual Integrations/Bag or Can Dilution Forms/Re-pressurization Forms/Bag-Can Transfer Forms present (circle all that apply)				
/	✓			■	12/24 Hr clock time & Hold Time met for all samples				
/	✓			✓	Re-analysis of sample(s) has been evaluated for comparability and/or sample(s) has/have been checked for trends (Inf/Eff), field dups/trip blanks, samples following bad loads on auto samplers have been verified (system blks, confirmation runs)				
/	✓			✓	All runs have been evaluated for potential carry-over (TPHg/non-Target/over-range compounds/ etc.)				
/	✓			✓	All runs have been evaluated using method default parent sublists prior to any client specific sublists.				

Analytical and special notes: A1: 24A DI ICC. 17A-26A full loads. 17A/17AA QDUP. 18A/18AA Field Dup OK
A2: 27A-30A full load, 31Add'l NTC, 32-35A full load End check pass

D1	D2	D3	D4	T	3T	***Section 3* – Target Data Reduction**	**Technical Review Needed? Circle one: Yes/No**		**T:**	
						Initials/Instrument/ Date	**D1:** MSDA LD 11/12/24	**D2:**	**D3:**	**D4:**
N					■	CAR # *(if applicable)*				
N/A					■	Spectra Verified *(documentation of spectral defense included if applicable)*				
					✓	Calibration history evaluated. Verify QC files.				
N					■	TICs resemble reference spectra/ TICs between sample dups. are consistent *(if applicable)*				
N/A					✓	Lab Narrative is correct				
N					■	TPH/NMOC calculations complete and included in folder				

Special notes:

A	3T	***Section 4*- Atlas Data Entry**	**Lumen verified and included in folder**	**Circle one: Yes/No**
		Initials/Date: LD 11/12/24	**3rd Tier:** 11/12/24 *(needed only for DOD or per client request)*	
✓	✓	Sample Discrepancy Report (SDR) complete and approved *(if applicable)*		
N	N/A	Manually entered results are checked		
✓	✓	At least one result per sample is verified against Target quant sheets		
✓	✓	Appropriate data qualifier flags are applied		
✓	✓	Final Invoice is correct/ Final PDF report, COC and EDD reviewed and correct		

Special Notes:

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Workorder # :				**Reason for Reissue:**
W	**T**	**3T**	**Q**	
				Reissue Request form Present
				Client or QA or Lab contact present with reason for reissue
				Review all affected data
				Report header has correct R1, R2 etc
				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
				Date for Reissue in Report Header matches date in Lab Narrative
				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
				Corrective Action issued - #
				The reissued workorder has been approved by a Group Lead, QA Manager or a Technical Director

Additional Comments:

Write Up (Initials/Date)	**Tech Review** (Initials/Date)	***3rd Tier Review** ** 3rd Tier Report Review is for DoD & Client Specific projects only* (Initials/Date)	**QA Review** (Initials/Date)

Workorder # :				**Reason for Reissue:**
W	**T**	**3T**	**Q**	
				Reissue Request form Present
				Client or QA or Lab contact present with reason for reissue
				Review all affected data
				Report header has correct R1, R2 etc
				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
				Date for Reissue in Report Header matches date in Lab Narrative
				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
				Corrective Action issued - #
				The reissued workorder has been approved by a Group Lead, QA Manager or a Technical Director

Additional Comments:

Write Up (Initials/Date)	**Tech Review** (Initials/Date)	***3rd Tier Review** ** 3rd Tier Report Review is for DoD & Client Specific projects only* (Initials/Date)	**QA Review** (Initials/Date)

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Not Applicable

Appendix D – Data Validation Reports

Data Validation Report for 24J145

Project:	J09CA1108-01, Titan 1A Missile Facility, RI
Event:	Fall 2024
SDG:	24J145
Guidance Document:	Titan 1A Missile Facility, Lincoln CA
Prime Contractor:	Parsons Corporation, Austin, TX
Project Manager:	Carrie Ross
Contract Laboratory(ies):	EMAX Laboratories, Inc., Torrance, CA
Data Review Contractor:	Parsons Corporation
Data Review Level:	S4VEM
Primary Data Reviewer:	Beth Driskill, Senior Scientist
Date Submitted:	February 04, 2025

Field Sample ID	Lab Sample ID	Matrix	Type/Type Code	SW8260C
T1AMF-MW030_OCT24	24J145-06	Water	Field Sample/N	X
T1AMF-MW030_OCT24_FD	24J145-07	Water	Field Duplicate/FD	X
T1AMF-MW048_OCT24	24J145-09	Water	Field Sample/N	X
T1AMF-MW053_OCT24	24J145-02	Water	Field Sample/N	X
T1AMF-MW057_OCT24	24J145-08	Water	Field Sample/N	X
T1AMF-MW059_OCT24	24J145-11	Water	Field Sample/N	X
T1AMF-MW060_OCT24	24J145-10	Water	Field Sample/N	X
T1AMF-MW061_OCT24	24J145-05	Water	Field Sample/N	X
T1AMF-MW062_OCT24	24J145-04	Water	Field Sample/N	X
T1AMF-MW066_OCT24	24J145-03	Water	Field Sample/N	X
T1AMF-TB001_OCT24	24J145-01	Water	Trip Blank/TB	X

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page at S4VEM data validation level. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Titan 1A Missile Facility, Lincoln CA and the additional guidance documents incorporated by reference to the extent possible. Where definitive guidance is not provided, results have been evaluated in a conservative manner using professional judgment.

Sample collection was managed and directed by Parsons Corporation, Austin, TX; analyses were performed by EMAX Laboratories, Inc., Torrance, CA and were reported under sample delivery group (SDG) 24J145. Data have been evaluated electronically based on electronic data deliverables (EDDs) provided by the laboratory, and hard copy data summary forms have also been reviewed during this effort and compared to the automated review output by the reviewers whose signatures appear on the following page. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative and throughout this report.

All quality control (QC) elements associated with this SDG have been reviewed by a project chemist in accordance with the requirements defined for the project. This review is documented in the attached Data Review Checklists. The QC elements listed below were supported by the electronic deliverable and were evaluated using ADR processes.

- Field Duplicate RPD
- Lab Blank
- LCS Recovery
- LCS RPD
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

Results of the ADR process were subsequently reviewed and updated as applicable by the data review chemists identified on the signature page. Quality control elements that were not included in the electronic deliverable were reviewed manually and findings are documented within this report. Summaries of findings and associated qualified results are documented throughout this report.

A total of 24 results (19.83%) out of the 121 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected or deemed a serious deficiency (X qualifier). Trace values, defined as results that are qualified as estimated because they fall between the detection limit and the reporting limit/limit of quantitation, are not counted as qualified results in the above count. The qualified results are detailed throughout this report and discussed in the narrative below, where appropriate.

Narrative Comments

This report assesses the analytical data quality associated with the analyses listed on the cover page at 100% Stage 2B (S2BVEM) and 10% Stage 4 (S4VEM) data validation level. The following samples were validated at a Stage 4: T1AMF-MW057_0CT24, T1AMF-MW048_0CT24, T1AMF-MW050_0CT24, and T1AMF-MW059_0CT24. Validation was performed following the guidelines outlined in the project-specific UFP QAPP, DoD General Data Validation Guidelines, Rev 1 (Nov 2019) and Data Validation Guidelines Module 1: Data Validation Procedure for Organic Analysis by GC/MS.

Analytical Method	Data Reviewer Comment
SW8260C	No additional comments; see Checklist for detail.



February 04, 2025

Reviewed by Beth Driskill, Senior Scientist, Parsons Corporation

As the Reviewer, I certify that I have performed a data review process in accordance with the requirements of the project guidance document, and have compared the electronic data to the laboratory's hard copy report and have verified the consistency of the reported sample results and method quality control data between the two deliverables.

Quality Control Outliers for test method SW8260C, LCS RPD

The objective of laboratory control sample/laboratory control sample duplicate (LCS/LCSD) RPD analysis is to demonstrate acceptable method precision by the laboratory at the time of analysis. LCS/LCSD analyses are also performed to generate data that determines the long-term precision of the analytical method on various matrices. Non-homogenous samples can impact the apparent method precision. Summary forms were evaluated and compared to electronic data deliverables. Laboratory control sample/laboratory control sample duplicate RPD results that were outside of the acceptance criteria are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
24VO06J23C (BD) 24VO06J23C	1,1-Dichloroethene	21.24	< 20.0	< 20.0	rpd	J/None	Z	
24VO06J23C (BD) 24VO06J23C	Vinyl chloride	21.18	< 20.0	< 20.0	rpd	J/None	Z	
24VO06J24C (BD) 24VO06J24C	1,1-Dichloroethene	23.46	< 20.0	< 20.0	rpd	J/None	Z	
24VO06J24C (BD) 24VO06J24C	Benzene	22.77	< 20.0	< 20.0	rpd	J/None	Z	
24VO06J24C (BD) 24VO06J24C	cis-1,2-Dichloroethene	21.77	< 20.0	< 20.0	rpd	J/None	Z	
24VO06J24C (BD) 24VO06J24C	trans-1,2-Dichloroethene	23.17	< 20.0	< 20.0	rpd	J/None	Z	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260C, Surrogate

Method performance for individual samples is demonstrated through spiking activities. All samples are spiked with surrogate compounds prior to sample preparation. The sample itself may produce effects due to such factors as interferences and high concentrations of analytes. Summary forms were evaluated and compared to electronic data deliverables. Surrogate results that were outside of the acceptance criteria are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
T1AMF-MW030_OCT24_FD (FD) 24J145-07	1,2-Dichloroethane-d4	128.0	81 - 118	10 - 118	percent	J/None	I	
T1AMF-MW053_OCT24 (N) 24J145-02	1,2-Dichloroethane-d4	123.0	81 - 118	10 - 118	percent	J/None	I	
T1AMF-MW059_OCT24 (N) 24J145-11	Toluene-d8	86.00	89 - 112	10 - 112	percent	J/UJ	I	
T1AMF-MW060_OCT24 (N) 24J145-10	1,2-Dichloroethane-d4	124.0	81 - 118	10 - 118	percent	J/None	I	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

Qualified Results associated with the Surrogate for SW8260C

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
T1AMF-MW059_OCT24 24J145-11	N	1,1-Dichloroethene	1.00	0.200 U	0.200 UJ		ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	1,4-Dichlorobenzene	1.00	0.200 U	0.200 UJ		ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	Benzene	1.00	0.200 U	0.200 UJ		ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	cis-1,2-Dichloroethene	1.00	0.310 J	0.310 J	-	ug/l	I/TR
T1AMF-MW059_OCT24 24J145-11	N	Ethylbenzene	1.00	0.200 U	0.200 UJ		ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	m,p-Xylene	2.00	0.500 U	0.500 UJ		ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	Toluene	1.00	0.200 U	0.200 UJ		ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	trans-1,2-Dichloroethene	1.00	0.200 U	0.200 UJ		ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	Trichloroethene (TCE)	1.00	6.80	6.80 J	-	ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	Vinyl chloride	1.00	0.300 U	0.300 UJ		ug/l	I
T1AMF-MW060_OCT24 24J145-10	N	Trichloroethene (TCE)	1.00	1.40	1.40 J	+	ug/l	I

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance.
In instances where no LOD is provided, results are reported down to the LOQ.

Table of All Qualified Results

Test Method: SW8260C		**Extraction Method: SW5030C**						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
T1AMF-MW059_OCT24 24J145-11	N	1,1-Dichloroethene	1.00	0.200 U	0.200 UJ		ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	1,4-Dichlorobenzene	1.00	0.200 U	0.200 UJ		ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	Benzene	1.00	0.200 U	0.200 UJ		ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	cis-1,2-Dichloroethene	1.00	0.310 J	0.310 J	-	ug/l	I/TR
T1AMF-MW059_OCT24 24J145-11	N	Ethylbenzene	1.00	0.200 U	0.200 UJ		ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	m,p-Xylene	2.00	0.500 U	0.500 UJ		ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	Toluene	1.00	0.200 U	0.200 UJ		ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	trans-1,2-Dichloroethene	1.00	0.200 U	0.200 UJ		ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	Trichloroethene (TCE)	1.00	6.80	6.80 J	-	ug/l	I
T1AMF-MW059_OCT24 24J145-11	N	Vinyl chloride	1.00	0.300 U	0.300 UJ		ug/l	I
T1AMF-MW060_OCT24 24J145-10	N	Trichloroethene (TCE)	1.00	1.40	1.40 J	+	ug/l	I
T1AMF-MW066_OCT24 24J145-03	N	1,1-Dichloroethene	1.00	0.200 U	0.200 UJ		ug/l	Z6
T1AMF-MW066_OCT24 24J145-03	N	1,4-Dichlorobenzene	1.00	0.200 U	0.200 UJ		ug/l	Z6
T1AMF-MW066_OCT24 24J145-03	N	Benzene	1.00	0.200 U	0.200 UJ		ug/l	Z6
T1AMF-MW066_OCT24 24J145-03	N	cis-1,2-Dichloroethene	1.00	0.200 U	0.200 UJ		ug/l	Z6
T1AMF-MW066_OCT24 24J145-03	N	Ethylbenzene	1.00	0.200 U	0.200 UJ		ug/l	Z6
T1AMF-MW066_OCT24 24J145-03	N	m,p-Xylene	2.00	0.500 U	0.500 UJ		ug/l	Z6
T1AMF-MW066_OCT24 24J145-03	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	Z6
T1AMF-MW066_OCT24 24J145-03	N	Toluene	1.00	0.200 U	0.200 UJ		ug/l	Z6
T1AMF-MW066_OCT24 24J145-03	N	trans-1,2-Dichloroethene	1.00	0.200 U	0.200 UJ		ug/l	Z6
T1AMF-MW066_OCT24 24J145-03	N	Trichloroethene (TCE)	1.00	0.200 U	0.200 UJ		ug/l	Z6
T1AMF-MW066_OCT24 24J145-03	N	Vinyl chloride	1.00	0.300 U	0.300 UJ		ug/l	Z6
T1AMF-TB001_OCT24 24J145-01	TB	1,1-Dichloroethene	1.00	0.200 U	0.200 UJ		ug/l	V2

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOQ) based on the sample concentration.
In instances where no LOD is provided, results are reported down to the LOQ.
Trace values are not included in the qualified results table unless additional reason codes are associated.

Table of Results with Modified Qualifiers

Modified Qualifiers for test method SW8260C

FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	ADR Result	ADR Flag/Bias	ADR Reason	Modified Result	Modified Flag/Bias	Reason
T1AMF-MW066_OCT24 24J145-03	N	1,1-Dichloroethene	1.00	0.200 U	0.200	U		0.200	UJ	Z6
T1AMF-MW066_OCT24 24J145-03	N	1,4-Dichlorobenzene	1.00	0.200 U	0.200	U		0.200	UJ	Z6
T1AMF-MW066_OCT24 24J145-03	N	Benzene	1.00	0.200 U	0.200	U		0.200	UJ	Z6
T1AMF-MW066_OCT24 24J145-03	N	cis-1,2-Dichloroethene	1.00	0.200 U	0.200	U		0.200	UJ	Z6
T1AMF-MW066_OCT24 24J145-03	N	Ethylbenzene	1.00	0.200 U	0.200	U		0.200	UJ	Z6
T1AMF-MW066_OCT24 24J145-03	N	m,p-Xylene	2.00	0.500 U	0.500	U		0.500	UJ	Z6
T1AMF-MW066_OCT24 24J145-03	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	Z6
T1AMF-MW066_OCT24 24J145-03	N	Toluene	1.00	0.200 U	0.200	U		0.200	UJ	Z6
T1AMF-MW066_OCT24 24J145-03	N	trans-1,2-Dichloroethene	1.00	0.200 U	0.200	U		0.200	UJ	Z6
T1AMF-MW066_OCT24 24J145-03	N	Trichloroethene (TCE)	1.00	0.200 U	0.200	U		0.200	UJ	Z6
T1AMF-MW066_OCT24 24J145-03	N	Vinyl chloride	1.00	0.300 U	0.300	U		0.300	UJ	Z6
T1AMF-TB001_OCT24 24J145-01	TB	1,1-Dichloroethene	1.00	0.200 U	0.200	U		0.200	UJ	V2

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOQ) based on the sample concentration.
In instances where no LOD is provided, results are reported down to the LOQ.
Trace values are not included in the qualified results table unless additional reason codes are associated.

Reason Code Definitions

Code	Definition
I	Surrogate recovery outside project limits.
TR	Trace Level Detect
V2	CCV
Z6	Sample or the associated closing CCV was analyzed past the 12-hour time period from Tune or opening CCV

Flag Code and Definitions

Flag	Definition
J	Estimated Value
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Bias

-	The result may be biased low
+	The result may be biased high

Note - The bias field is a separate field; however, it is an integral part of the final flag (qualifier) on the sample result

Sample Types

SACODE	Definition
BD	Blank Spike Duplicate
BS	Blank Spike
FD	Field Duplicate
LB	Laboratory Blank
MS	Matrix Spike
N	Normal
SD	Matrix Spike Duplicate
TB	Trip Blank

Review Questions

Method: SW8260C (Volatile Organic Compounds by GC/MS)

Review Questions	Yes	No	NA	Comment
Were there discrepancies between the COC and the samples received?	•			The time for the trip blank sample was not included on the COC. The lab was instructed to use a time of 12:00.
Were there discrepancies between the COC and the sample labels?	•			The container label had the incorrect collection time documented for sample T1AMF-MW061_OCT24. The lab used the time listed on the COC for this sample. The container labels did not include the analysis or preservation information on them. The documentation discrepancies do not impact data quality.
Were samples relinquished properly on the COC?	•			
Were all samples properly preserved?	•			
Were sampling dates/times, date and time of laboratory receipt of samples, and sample conditions upon receipt at the laboratory (including preservation, pH, and temperature) documented?	•			
Were sample results reported with percent moisture correction if required?			•	
Were analytical methods performed and analysis dates present?	•			
Were all requested target analytes reported?	•			
Were QAPP specified Project Quantitation Limit Goals achieved? (The laboratory LOQ is compared to the QAPP Project Quantitation Goal)		•		The LOQ value for the following analytes are greater than the Project Quantitation Limit Goal: 1,4-Dichlorobenzene, Benzene, Ethylbenzene, Trichloroethene, and Vinyl Chloride. The Project Quantitation Limit Goal is 1/3 of the PSL. If the resulting value is below the laboratory LOD, the LOD will be used as the de facto Project Quantitation Limit Goal.
Were holding times met?	•			
Were trip blanks analyzed at the proper frequency and in control?	•			The trip blank was non-detect for all target analytes.
Were field blanks analyzed at the proper frequency and in control?			•	Field blanks were not planned to be collected for this sampling event
Were equipment blanks analyzed at the proper frequency and in control?	•			Two equipment blanks were collected and included in SDG 24J168. Both were non-detect for all target analytes.
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than DL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			

Were LCS/LCSD recoveries within project acceptance limits?	•		
Was the LCS/LCSD RPD within project acceptance limits?		•	The LCS/LCSD RPD was exceeded for two analytes in batch VO06J23 and four analytes in batch VO06J24. The analytes outside RPD criteria were non-detect in the associated samples; therefore, data quality was not impacted, and results were not qualified.
Was a MS/MSD pair prepared with each batch?	•		
Were MS/MSD recoveries within project acceptance limits?	•		
Was the MS/MSD RPD within project acceptance limits?	•		
If ISM was used for sample collection, were laboratory triplicates analyzed and within project acceptance limits?		•	
Were surrogate recoveries within project acceptance limits?		•	Surrogate 1,2-Dichloroethane-d4 recovered high and outside criteria in the following samples: TlAMF-MW053_OCT24, TlAMF·MW030_OCT24 _FD, and TlAMF-MW060_OCT24. Non-detect results in the samples were not impacted by the high bias and were not qualified. Detected results in the samples were qualified estimated with a potential high bias (J+). Surrogate Toluene-d8 recovered low and outside criteria in sample TlAMF-MW059_OCT24. The results in the sample were qualified estimated (J- / UJ).
Were field replicates (duplicates, triplicates, etc.) analyzed at the proper frequency and in control?	•		
Were reported sample concentrations within calibration range?	•		
Was the GC/MS system properly tuned based on method criteria?	•		
Was instrument tuning completed every 12 hours during sample analysis?		•	Sample T1AMF-MW066_OCT24 and the end CCV were analyzed outside the 12-hour tune analyzed on 10/24/24 at 17:03. The sample and CCV were analyzed on 10/25/24 at 08:13 and 08:39. Sample T1AMF-MW053_OCT24 was also in this sequence but was analyzed within the 12-hour tune time. Recommend qualifying the sample results for T1AMF-MW066_OCT24 as estimated (J/UJ). I do not recommend qualifying sample T1AMF-MW053_OCT24 because the sample was analyzed within tune time and the end CCV was within %D for all target analytes. A trip blank sample was associated to the tune analyzed 10/28/24 at 09:41 and it was analyzed within the 12-hour tune time; however, the associated ending CCV was analyzed less than 1 hour outside tune time on 10/28/24 at 22:23. Recommend not qualifying data because the trip blank sample was within tune time and the end CCV was within %D criteria for all target analytes.
Was the Calibration within project acceptance criteria?	•		

Was a ICV performed after each ICAL prior to sample analysis and within project acceptance criteria?	•		
Were CCVs run at the required frequency and within project acceptance criteria?		•	The %D for 1,1-dichloroethene was high and outside criteria in the CCV analyzed on 10/28/24 at 11:11. Therefore, the result for 1,1-dichloroethene in the associated sample, TlAMF-TB001_ OCT24, was qualified estimated (UJ).
Were internal standard retention times and area criteria within project acceptance criteria?	•		
Were internal standards spiked for every sample, standard, and QC sample?	•		
Were instrument run logs present and filled out appropriately?	•		
Were sample preparation sheets present and filled out appropriately?	•		
Were certificates of standard traceability and documentation of standard solution preparation provided?	•		
Were recalculation of QC Elements and Sample Results performed?	•		
Were Relative Retention Times (RRTs) within ± 0.06 RRT units (may be updated based on daily CCV)?	•		
Were chromatograms checked for peak integration? (10% of automated integration and 100% of manual integrations)	•		
Were chromatograms checked for correct baseline/peak integration and possible interferences?	•		
Were qualitative ion mass present?	•		
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•		
Were DoD QSM corrective actions followed if deviations were noted?	•		
Were any data recommended for exclusion in the data validation process?		•	

Module 1: Analysis by GC/MS

Lab/SDG: EMAX / 24J145

RECALCULATION TYPE	TAB Reference
Tune: Ion Abundance	TUNE
Tailing Factor	not applicable for 8260
Calibration RF	ICAL RF
Calibration RRT	Rel RT
ICV/CCV %D	ICAL RF
Sample Conc. Raw Values	ICAL RF
Sample Conc. Linear Regression	not applicable
Quadratic Regression	not applicable
LCS % Recovery	ICAL RF
Surrogate % Recovery	Surrogates
MS/MSD % Recovery	ICAL RF
MS/MSD RPD	ICAL RF
Sample Amounts	ICAL RF
Sample Conc. by Volume (Aqueous Only)	ICAL RF
Sample Conc. by Weight (Non-aqueous only)	not applicable

6.1 SAMPLES AND QC	COMMENT
Sample recalculations should include the raw instrument result, re-quantified from the instrument response against the calibration function, and the final reported sample result, including any dilution, preparation factor, or percent moisture (if applicable). The equations in Appendix B can be used to calculate a sample result from the corresponding reported calibration or regression function, as appropriate.	Provided in ICAL RF tab
Verify that one or more of the laboratory's reporting limits (such as limit of quantitation) are calculated correctly for the non-detects and reported accordingly. If a detection limit study was identified by the QAPP, recalculate one or more analyte detection limits.	Provided in LOQ Recalc tab
Re-quantitate **all detected target analytes in the 10% sample data chosen**. For some samples, all results may be non-detects, therefore recalculation would not be necessary. Verify that sample-specific results have been adjusted correctly to reflect percent solids, original sample mass/volume, and any applicable dilutions.	Provided in ICAL RF tab
Re-quantitate **all detects found in the field QC blanks** (such as trip blanks, field blanks, or equipment blanks). Field QC sample duplicate recalculations should include re-quantification of the same detected analyte sample/duplicate pair and verification of the percent difference (%D), or relative percent difference (RPD), as reported.	No QC blank detections were found; no recalcs needed.
6.2 Method QC	
Re-quantification of batch QC sample results should use raw instrument response in tandem with the reported calibration factor, response factor, or slope; the preparation information; and percent moisture for solid samples to recreate the reported result.	Provided in ICAL RF tab
6.2.1 Surrogate Spikes	
Verify the concentrations of surrogates from the raw data. Verify that the surrogate result and percent recovery were calculated and reported correctly by re-calculating all surrogates in the 10% of chosen sample data and method QC that were originally selected.	Provided in Surrogate Tab
6.2.2 LCS/LCSD	
To check that the spike percent recovery was calculated and reported correctly, using the equation in Appendix B, re-quantitate and then recalculate all contaminants of concern as outlined in the UFP-QAPP Worksheet #12 or #15. Use a random 10% of the analytes in the LCS/LCSD if contaminants of concern (target analytes) have not been specifically identified. Recalculate RPDs (if applicable) from LCS/LCSD pairs that would result in the qualification of a sample.	Provided in ICAL RF tab

Module 1: Analysis by GC/MS

Lab/SDG: EMAX / 24J145

6.2.3 MS/MSD	
Re-quantitate 10% of the target analytes as listed in the UFP-QAPP Worksheet #12 or #15 for both the MS and the MSD. Use a random 10% of the analytes in the MS and MSD if contaminates of concern have not been identified. The RPDs of the recalculated MS/MSD pairs should be calculated from the MS/MSD concentrations, not from the recoveries.	Provided in ICAL RF tab
6.2.4 Method Blanks	
Re-quantitate one or more detects found in the method blank (if applicable) from the reported average RF (or higher order regression, if used) per each batch of samples.	No method blank detections were found; no recalcs needed
6.3 Insturment QC	
6.3.1 Tune Check	
Verify by re-calculating from the quantitation reports, that the mass assignment is correct and that the mass listing is normalized to the specified m/z for at least 10% of the abundance ratios in every tune. Verify by recalculation that the reported DDT degradation and tailing factor are accurate for SVOC performance checks.	Provided in TUNE tab
6.3.2 Initial (Response Factors and Regressions) and Continuing Calibration Verifications	
Initial calibration (ICAL) recalculations should use the raw instrument response for the target analytes and associated internal standards to recreate the calibration curve from the individual calibration standards. If multiple types of calibration curves are employed in an analytical suite, then one analyte per curve type should be recalculated.	Provided in ICAL RF tab
Re-quantitate and recalculate the individual and average RFs, %RSDs, and regression function (if used) and r values reported for at least 10% of the target analytes per each internal standard, (preferably analytes of concern which were identified in the QAPP), per initial calibration curve type.	Provided in ICAL RF tab
Re-quantitate and recalculate the Initial and Continuing Calibration Verification RF result and %D for at least 10% of the target analytes, proportionally per each internal standard and proportionally selecting analytes based on each calibration curve type.	Provided in ICAL RF tab
The laboratory may employ a linear or weighted linear least squares regression. The low standard should be recalculated using the calibration curve and evaluated. RFs should not be evaluated for analytes with linear or higher order regression curves. If the ICAL included refitting of the data back to the model (RSE), the recalculate 10% of the target analytes for the RSE in each ICAL.	Linear regression was not used for any target analytes in this SDG
6.3.3 Internal Standards	
Verify all internal standards reported from the raw data for at least one sample per batch of samples, and verify internal standard areas for samples that were qualified due to out-of-control internal standard areas.	No calculations were performed; internal stds were verified as required. Recalculations of all analyte concentrations further confirm IS quantitation.
6.4 Standards Traceability	
Check that the stock standards were diluted properly into working standards by recalculating the dilutions of one or more **calibration standards**. Recalculate one or more **surrogate** dilutions. Recalculate one or more method QC sample dilutions (such as **LCS or MS/MSD**) from the stock to the working standard.	Provided in Standards tab

Module 1: Analysis by GC/MS
Lab/SDG: EMAX / 24J145

TUNE
Data file: RIW358.D
Acq On: 10/19/2024 15:14
Sample ID: BFB06J17

Target Mass	RAW Abundance	Rel to Mass	Rel Abn%	Lower limit	Upper Limit
50	58299	95	15.27623	15	40
75	163520	95	42.84756	30	60
95	381632	95	100	100	100
96	19848	95	5.20082	5	9
173	0	174	0.00000	0	2
174	288384	95	75.56599	50	100
175	19404	174	6.72853	5	9
176	282517	174	97.96556	95	101
177	16322	174	5.65981	5	9

TUNE
Data file: RIW477.D
Acq On: 10/24/2024 17:03
Sample ID: BFB06J22

Target Mass	RAW Abundance	Rel to Mass	Rel Abn%	Lower limit	Upper Limit
50	86246	95	16.04025	15	40
75	237461	95	44.16359	30	60
95	537685	95	100	100	100
96	32479	95	6.04053	5	9
173	0	174	0.00000	0	2
174	410069	95	76.26566	50	100
175	27107	174	6.61035	5	9
176	396949	174	96.80054	95	101
177	23218	174	5.66197	5	9

TUNE
Data file: RIW492.D
Acq On: 10/26/2024 13:01
Sample ID: BFB06J23

Target Mass	RAW Abundance	Rel to Mass	Rel Abn%	Lower limit	Upper Limit
50	70957	95	18.04213	15	40
75	180715	95	45.95014	30	60
95	393285	95	100	100	100
96	22349	95	5.68265	5	9
173	0	174	0.00000	0	2
174	265365	95	67.47397	50	100
175	19723	174	7.43240	5	9
176	257600	174	97.07384	95	101
177	13565	174	5.11183	5	9

TUNE
Data file: RIW492A.D
Acq On: 10/28/2024 9:41
Sample ID: BFB06J24

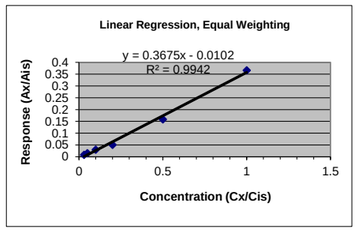
Target Mass	RAW Abundance	Rel to Mass	Rel Abn%	Lower limit	Upper Limit
50	99635	95	18.02197	15	40
75	246763	95	44.63447	30	60
95	552853	95	100	100	100
96	28477	95	5.15092	5	9
173	0	174	0.00000	0	2
174	398734	95	72.12297	50	100
175	28445	174	7.13383	5	9
176	392768	174	98.50376	95	101
177	20540	174	5.15130	5	9

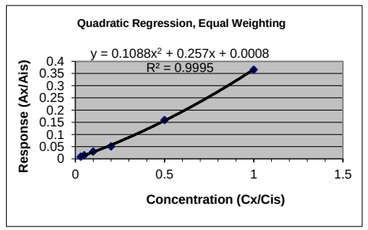
Module 1: Analysis by GC/MS

Lab/SDG: EMAX / 24J145

Internal Standard Initial Calibration and Calculation Worksheet

Lab: EMAX
Method: 8260C
SDG: 24J145
Instrument: 6
Curve Date: 10/19/2024
Compound: **Trichloroethene**
Internal Standard: 1,4-Difluorobenzene
CALIBRATION TYPE USED: Average RF





red text = manually input values from lab report

The following samples were validated at a Stage 4:
TIAMF-MW057-OCT24
TIAMF-MW048-OCT24
TIAMF-MW060-OCT24
TIAMF-MW059-OCT24

Initial Calibration Model Worksheet

Compound Area Ax	ISTD Area Ais	Compound Conc Cx	ISTD Conc Cis	Y-Values Ax/Ais	X-Values Cx/Cis	X^2 $(Cx/Cis)^2$	RF (Ax*Cis)/(Ais*Cx)
33073	3873628	0.3	10	0.008537991	0.03	0.0009	0.285
64779	4266421	0.5	10	0.015183452	0.05	0.0025	0.304
123767	4117614	1	10	0.030057941	0.1	0.01	0.301
217369	4265248	2	10	0.050962805	0.2	0.04	0.255
687235	4321200	5	10	0.159037999	0.5	0.25	0.318
1403154	3831558	10	10	0.366209777	1	1	0.366
2852619	4614925	20	10	0.618129005	2	4	0.309
4564907	4915340	30	10	0.928706254	3	9	0.310
7211481	4676880	50	10	1.541942705	5	25	0.308
14236677	4653059	100	10	3.059638186	10	100	0.306
SUM OF EACH COLUMN :				**0.6300**	**1.88**	**1.3034**	**1.8279**

CALIBRATION MODELS:
Average Response Factor:
Cx = Ax*Cis/Ais/RF

Average RF	0.306	**AVERAGE(RF)**
RSD	9.05%	**STDEV(RF)/(AveRF)**

Linear Regression:

y = mx + b
Cx = (((Ax/Ais)-b)/m)*Cis

Weighting	Equal	1/X	$1/X^2$	Equation
Slope (m)				
Intercept (b)				
CC (R)				
COD (R^2)				

Cs= concentration, sample
Cd= concentration, duplicate

Sample Concentration Calculations

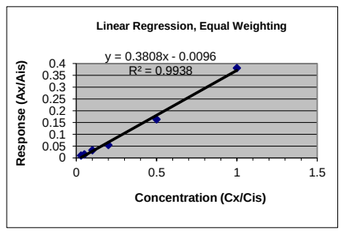
Sample ID	File ID	Compound Area Ax	ISTD Area Ais	ISTD Conc Cis	Ave RF On-column Conc	Linear Cal On-column Conc Equal Weighting	Linear Cal On-column Conc 1/X Weighting	Linear Cal On-column Conc $1/X^2$ Weighting	Final Volume (mL)	Initial Volume (mL)	Final Concentration (ug/L)	Spike Amt (ug/L)	% Recovery	%D	RPD
Equations:					Ax*Cis/Ais/RF	((Ax/Ais-b)/m)*Cis			Final Conc = (On column * Final Vol / Initial Vol)			%R = (final conc / spike amt.)x100		%D = ABS((final conc-spike amt)/spike amt)*100	RPD= [(Cs-Cd)]/[(Cs+Cd)/2]*100
TIAMF-MW057-OCT24	RIW503.D	19538	2997310	10	0.21				25.000	25.000	0.21	NA	NA	NA	NA
TIAMF-MW048-OCT25	RIW504.D	0	2859735	10	0.00				25.000	25.000	0.0	NA	NA	NA	NA
TIAMF-MW060-OCT26	RIW505.D	120563	2741380	10	1.44				25.000	25.000	1.4	NA	NA	NA	NA
TIAMF-MW059-OCT27	RIW498.D	724554	3495902	10	6.77				25.000	25.000	6.8	NA	NA	NA	NA
MB (VO06J22B)	RIW482.D	0	4883802	10	0.0				25.000	25.000	0	NA	NA	NA	NA
LCS (VO06J22L)	RIW479.D	1516791	4960038	10	9.99				25.000	25.000	9.99	10.000	100	NA	2
LCSD (VO06J22C)	RIW480.D	1495035	4975114	10	9.82				25.000	25.000	9.82	10.000	98	NA	
MB (VO06J23B)	RIW497.D	0	4008075	10	0.00				25.000	25.000	0.00	NA	NA	NA	NA
LCS (VO06J23L)	RIW494.D	984756	3344582	10	9.62				25.000	25.000	9.62	10.000	96	NA	4
LCSD (VO06J23C)	RIW495.D	1220255	4306769	10	9.26				25.000	25.000	9.26	10.000	93	NA	
MB (VO06J24B)	RIW497A.D	0	4152965	10	0.00				25.000	25.000	0.00	NA	NA	NA	NA
LCS (VO06J24L)	RIW493A.D	1065097	4321578	10	8.05				25.000	25.000	8.05	10.000	81	NA	18
LCSD (VO06J24C)	RIW495A.D	1202987	4058808	10	9.68				25.000	25.000	9.68	10.000	97	NA	
MS (TIAMF-MW059-OCT27)	RIW509.D	1267042	2753739	10	15.03				25.000	25.000	15.03	10.000	83	NA	0.5
MSD (TIAMF-MW059-OCT27)	RIW510A.D	1288522	2786874	10	15.10				25.000	25.000	15.10	10.000	83	NA	
ICV (10/19/24 @ 09:15)	RIW371.D	1421894	4162272	10	11.16				25.000	25.000	11.16	10.000	112	11.6	NA
CCV (10/24/24 @ 19:04)	RIW478.D	1293562	4181638	10	10.11				25.000	25.000	10.11	10.000	101	1.1	NA
CCV (10/25/24 @ 08:39)	RIW489.D	1131931	3842434	10	9.62				25.000	25.000	9.62	10.000	96	3.8	NA
CCV (10/26/24 @ 14:09)	RIW493.D	1201274	4329355	10	9.06				25.000	25.000	9.06	10.000	90.6	9.4	NA
CCV (10/26/24 @ 22:34)	RIW511.D	830547	3124786	10	8.68				25.000	25.000	8.68	10.000	87	13.2	NA
CCV (10/28/24 @ 11:11)	RIW494A.D	1021325	3601100	10	9.27				25.000	25.000	9.27	10.000	92.7	7.3	NA
CCV (10/28/24 @ 22:33)	RIW515A.D	1073839	3574883	10	9.81				25.000	25.000	9.81	10.000	98	1.9	NA

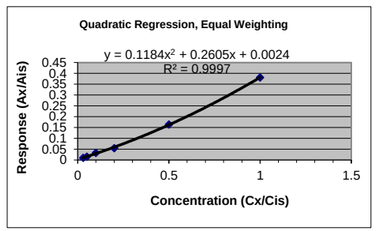
Module 1: Analysis by GC/MS

Lab/SDG: EMAX / 24J145

Internal Standard Initial Calibration and Calculation Worksheet

Lab: EMAX
Method: 8260C
SDG: 24J145
Instrument: 6
Curve Date: 10/19/2024
Compound: **cis-1,2-Dichloroethene**
Internal Standard: 1,4-Difluorobenzene
CALIBRATION TYPE USED: Average RF





red text = manually input values from lab report

The following samples were validated at a Stage 4:
TIAMF·MW057·OCT24
TIAMF·MW048·OCT24
TIAMF·MW060·OCT24
TIAMF·MW059·OCT24

Initial Calibration Model Worksheet

Compound Area Ax	ISTD Area Ais	Compound Conc Cx	ISTD Conc Cis	Y-Values Ax/Ais	X-Values Cx/Cis	X^2 $(Cx/Cis)^2$	RF (Ax*Cis)/(Ais*Cx)
39814	3873628	0.3	10	0.01027822	0.03	0.0009	0.343
66197	4266421	0.5	10	0.015515815	0.05	0.0025	0.310
134938	4117614	1	10	0.03277092	0.1	0.01	0.328
233715	4265248	2	10	0.054795173	0.2	0.04	0.274
708337	4321200	5	10	0.163921364	0.5	0.25	0.328
1459633	3831558	10	10	0.380950256	1	1	0.381
2950046	4614925	20	10	0.639240291	2	4	0.320
4808945	4915340	30	10	0.978354498	3	9	0.326
7646142	4676880	50	10	1.634880946	5	25	0.327
15612039	4653059	100	10	3.355220512	10	100	0.336
SUM OF EACH COLUMN :				**0.6582**	**1.88**	**1.3034**	**1.9634**

CALIBRATION MODELS:
Average Response Factor:
Cx = Ax*Cis/Ais/RF

Average RF	0.327	**AVERAGE(RF)**
RSD	8.13%	**STDEV(RF)/(AveRF)**

Linear Regression:

y = mx + b
Cx = (((Ax/Ais)-b)/m)*Cis

Weighting	Equal	1/X	$1/X^2$	Equation
Slope (m)				
Intercept (b)				
CC (R)				
COD (R^2)				

Cs= concentration, sample
Cd= concentration, duplicate

Sample Concentration Calculations

Sample ID	File ID	Compound Area Ax	ISTD Area Ais	ISTD Conc Cis	Ave RF On-column Conc	Linear Cal On-column Conc Equal Weighting	Linear Cal On-column Conc 1/X Weighting	Linear Cal On-column Conc $1/X^2$ Weighting	Final Volume (mL)	Initial Volume (mL)	Final Concentration (ug/L)	Spike Amt (ug/L)	% Recovery	%D	RPD
Equations:					Ax*Cis/Ais/RF	((Ax/Ais-b)/m)*Cis			Final Conc = (On column * Final Vol / Initial Vol)			%R = (final conc / spike amt.)x100		%D = ABS((final conc-spike amt)/spike amt)*100	RPD= [(Cs-Cd)]/[(Cs+Cd)/2]*100
TIAMF·MW057·OCT24	RIW503.D	0	2997310	10	0.00				25.000	25.000	0.00	NA	NA	NA	NA
TIAMF·MW048·OCT25	RIW504.D	0	2859735	10	0.00				25.000	25.000	0.0	NA	NA	NA	NA
TIAMF·MW060·OCT26	RIW505.D	0	2741380	10	0.00				25.000	25.000	0.0	NA	NA	NA	NA
TIAMF·MW059·OCT27	RIW498.D	35943	3495902	10	0.31				25.000	25.000	0.31	NA	NA	NA	NA
MB (VO06J22B)	RIW482.D	0	4883802	10	0.00				25.000	25.000	0.00	NA	NA	NA	NA
LCS (VO06J22L)	RIW479.D	1657678	4960038	10	10.2				25.000	25.000	10.2	10.000	102	NA	5
LCSD (VO06J22C)	RIW480.D	1584792	4975114	10	9.74				25.000	25.000	9.74	10.000	97	NA	
MB (VO06J23B)	RIW497.D	0	4008075	10	0.00				25.000	25.000	0.00	NA	NA	NA	NA
LCS (VO06J23L)	RIW494.D	1145539	3344582	10	10.47				25.000	25.000	10.47	10.000	105	NA	11
LCSD (VO06J23C)	RIW495.D	1323068	4306769	10	9.39				25.000	25.000	9.39	10.000	94	NA	
MB (VO06J24B)	RIW497A.D	0	4152965	10	0.00				25.000	25.000	0.00	NA	NA	NA	NA
LCS (VO06J24L)	RIW493A.D	1122983	4321578	10	7.94				25.000	25.000	7.94	10.000	79	20.57	-22
LCSD (VO06J24C)	RIW495A.D	1312324	4058808	10	9.88				25.000	25.000	9.88	10.000	99	1.2	
MS (TIAMF·MW059·OCT27)	RIW509.D	862350	2753739	10	9.57				25.000	25.000	9.57	10.000	93	4.3	-1
MSD (TIAMF·MW059·OCT27)	RIW510A.D	885498	2786874	10	9.71				25.000	25.000	9.71	10.000	94	2.9	
ICV (10/19/24 @ 09:15)	RIW371.D	1476730	4162272	10	10.84				25.000	25.000	10.84	10.000	108	8.4	NA
CCV (10/24/24 @ 19:04)	RIW478.D	1450815	4181638	10	10.60				25.000	25.000	10.60	10.000	106	6.0	NA
CCV (10/25/24 @ 08:39)	RIW489.D	1227434	3842434	10	9.76				25.000	25.000	9.76	10.000	98	2.4	NA
CCV (10/26/24 @ 14:09)	RIW493.D	1344417	4329355	10	9.49				25.000	25.000	9.49	10.000	95	5.1	NA
CCV (10/26/24 @ 22:34)	RIW511.D	940999	3124786	10	9.20				25.000	25.000	9.20	10.000	92	8.0	NA
CCV (10/28/24 @ 11:11)	RIW494A.D	1233107	3601100	10	10.47				25.000	25.000	10.47	10.000	105	4.7	NA
CCV (10/28/24 @ 22:33)	RIW515A.D	1229149	3574883	10	10.51				25.000	25.000	10.51	10.000	105	5.1	NA

Module 1: Analysis by GC/MS

Lab/SDG: EMAX / 24J145

Lab: EMAX
Method: 8260C
Instrument: 6
Curve Date: 10/19/2024
Compound: **Trichloroethene**
Internal Standard: 1,4-Difluorobenzene

ICAL PT	Analyte RT	INT STD RD	RRT
0.3	10.45	9.84	0.942
0.5	10.43	9.84	0.943
1	10.43	9.84	0.943
2	10.43	9.84	0.943
5	10.43	9.84	0.943
10	10.43	9.84	0.943
20	10.43	9.84	0.943
30	10.43	9.84	0.943
50	10.43	9.84	0.943
100	10.43	9.84	0.943

Module 1: Analysis by GC/MS

Lab/SDG: EMAX / 24J145

Compound	Sample ID
Benzene	TIAMF-MW059-OCT24

QAPP LOQ (ug/L)	Initial Vol (mL)	Final Vol (mL)	DF	Final LOQ
1.0	10.000	10.000	1.0	1.0

REPORTED LOQ (ug/L)

1.0

Module 1: Analysis by GC/MS

Lab/SDG: EMAX / 24J145

	TlAMF-MW057-OCT24				TlAMF-MW048-OCT24			
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	Dibromofluoromethane
IS Response	2997310	2332924	843934	2997310	2859735	2172798	721734	2859735
Surrogate Response	600333	2892346	903427	679348	553932	2729929	836239	631555
Calibration RF	0.17	1.382	1.116	0.245	0.17	1.382	1.116	0.245
IS spike concentration (ppb)	10	10	10	10	10	10	10	10
Surr Spike Conc. (ppb)	10	10	10	10	10	10	10	10
Surr Conc. (ppb)	11.78	8.97	9.59	9.25	11.4	9.09	10.4	9.01
Surr %R	118	90	96	93	114	91	104	90

	TlAMF-MW060-OCT24				TlAMF-MW059-OCT24			
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	Dibromofluoromethane
IS Response	2741380	2129418	746929	2741380	3495902	2788721	999316	3495902
Surrogate Response	574621	2670998	823233	632260	676000	3327929	1062083	773313
Calibration RF	0.17	1.382	1.116	0.245	0.17	1.382	1.116	0.245
IS spike concentration (ppb)	10	10	10	10	10	10	10	10
Surr Spike Conc. (ppb)	10	10	10	10	10	10	10	10
Surr Conc. (ppb)	12.33	9.08	9.88	9.41	11.37	8.63	9.52	9.03
Surr %R	123	91	99	94	114	86	95	90

	MB (VO06J22B)				LCS (VO06J22L)			
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	Dibromofluoromethane	1,2-Dichloroethane-d5	Toluene-d9	4-Bromofluorobenzene	Dibromofluoromethane
IS Response	4883802	3636236	1413530	4883802	4960038	3648999	1334272	4960038
Surrogate Response	948616	5072974	1621274	1307937	969185	5111796	1590444	1322904
Calibration RF	0.17	1.382	1.116	0.245	0.17	1.382	1.116	0.245
IS spike concentration (ppb)	10	10	10	10	10	10	10	10
Surr Spike Conc. (ppb)	10	10	10	10	10	10	10	10
Surr Conc. (ppb)	11.43	10.09	10.28	10.93	11.49	10.14	10.68	10.89
Surr %R	114	101	103	109	115	101	107	109

	LCSD (VO06J22C)				MB (VO06J23B)			
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	Dibromofluoromethane	1,2-Dichloroethane-d5	Toluene-d9	4-Bromofluorobenzene	Dibromofluoromethane
IS Response	4975114	3612611	1343590	4975114	4008075	3002579	1031891	4008075
Surrogate Response	914890	5199472	1610306	1317424	734328	3820960	1140036	892945
Calibration RF	0.17	1.382	1.116	0.245	0.17	1.382	1.116	0.245
IS spike concentration (ppb)	10	10	10	10	10	10	10	10
Surr Spike Conc. (ppb)	10	10	10	10	10	10	10	10
Surr Conc. (ppb)	10.82	10.41	10.74	10.81	10.78	9.21	9.90	9.09
Surr %R	108	104	107	108	108	92	99	91

Module 1: Analysis by GC/MS

Lab/SDG: EMAX / 24J145

	LCS (VO06J23L)				LCSD (VO06J23C)			
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	Dibromofluoromethane
IS Response	3344582	2227804	801767	3344582	4306769	3156215	1021343	4306769
Surrogate Response	617286	3062446	781235	771134	698414	4063101	1144702	892151
Calibration RF	0.17	1.382	1.116	0.245	0.17	1.382	1.116	0.245
IS spike concentration (ppb)	10	10	10	10	10	10	10	10
Surr Spike Conc. (ppb)	10	10	10	10	10	10	10	10
Surr Conc. (ppb)	10.86	9.95	8.73	9.41	9.54	9.32	10.04	8.46
Surr %R	109	99	87	94	95	93	100	85

	MB (VO06J24B)				LCS (VO06J24L)			
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	Dibromofluoromethane	1,2-Dichloroethane-d5	Toluene-d9	4-Bromofluorobenzene	Dibromofluoromethane
IS Response	4152965	3139713	1048061	4152965	4321578	3185830	1012535	4321578
Surrogate Response	764568	3992531	1176562	913197	733884	4156284	1188419	896140
Calibration RF	0.17	1.382	1.116	0.245	0.17	1.382	1.116	0.245
IS spike concentration (ppb)	10	10	10	10	10	10	10	10
Surr Spike Conc. (ppb)	10	10	10	10	10	10	10	10
Surr Conc. (ppb)	10.83	9.20	10.06	8.98	9.99	9.44	10.52	8.46
Surr %R	108	92	101	90	100	94	105	85

	LCSD (VO06J24C)				MS (TlAMF·MW059·OCT27)			
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	Dibromofluoromethane
IS Response	4058808	3043067	1024605	4058808	2753739	2127720	750759	2753739
Surrogate Response	715311	3854064	1146889	863866	529720	2666133	815030	596076
Calibration RF	0.17	1.382	1.116	0.245	0.17	1.382	1.116	0.245
IS spike concentration (ppb)	10	10	10	10	10	10	10	10
Surr Spike Conc. (ppb)	10	10	10	10	10	10	10	10
Surr Conc. (ppb)	10.37	9.16	10.03	8.69	11.32	9.07	9.73	8.84
Surr %R	104	92	100	87	113	91	97	88

	MSD (TlAMF·MW059·OCT27)			
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	Dibromofluoromethane
IS Response	2786874	2133078	752943	2786874
Surrogate Response	538850	2779595	813966	621596
Calibration RF	0.17	1.382	1.116	0.245
IS spike concentration (ppb)	10	10	10	10
Surr Spike Conc. (ppb)	10	10	10	10
Surr Conc. (ppb)	11.37	9.43	9.69	9.10
Surr %R	114	94	97	91

Yellow highlighted cells include calculations.

Module 1: Analysis by GC/MS

Lab/SDG: EMAX / 24J145

CALCULATION OF WORKING STANDARD FROM STOCK

CALIBRATION STANDARD

Name of Stock Standard:	CPI International "Custom Volatiles Mix"
Conc of Stock Std	2000 ug/mL (ppm)
Aliquot of Stock Std used:	0.250 mL
Final Conc of Working standard	250 ug/mL (ppm)

C2 = C1*V1)/V2

C1	**V1**	**V2**	**C2**
2000	0.250	2.0	250

where
C1 = concentration of Stock standard
V1 = Volume of stock standard used
C2 = Concentration of working standard
V2 = Final volume of working standard

Calibration pt at 1ug/L

	From analytical log spike amt	concentration	purge volume (see analysis run log)	**spike amt in L**	**amount spiked**	**concentration of amount spiked = (amount spiked/ purge volue)**
Filename RIW361.D: – 1ug/L point	0.1 uL	250 mg/L	25 ml	0.0000001 L	0.000025 mg	0.001 mg/L = 1 ug/L

SURROGATE STANDARD

Name of Stock Standard:	RESTEK "8260A Surrogate Mix"
Conc of Stock Std	2500 ug/mL (ppm)
Aliquot of Stock Std used:	0.200 mL
Final Conc of Working standard	250 ug/mL (ppm)

C2 = C1*V1)/V2

C1	**V1**	**V2**	**C2**
2500	0.200	2	250

where
C1 = concentration of Stock standard
V1 = Volume of stock standard used
C2 = Concentration of working standard
V2 = Final volume of working standard

	From analytical log spike amt	concentration	purge volume (see analysis run log)	**spike amt in L**	**amount spiked**	**concentration of amount spiked = (amount spiked/ purge volue)**
IS/ Surr	1 uL	250 mg/L	25 ml	0.000001 L	0.00025 mg	0.01 mg/L = 10 ug/L

Module 1: Analysis by GC/MS

Lab/SDG: EMAX / 24J145

CALCULATION OF WORKING STANDARD FROM STOCK

ICV/LCS STANDARD (second source)

Name of Stock Standard:	RESTEK "Custom Revised 2060 Megamix"
Conc of Stock Std	2000 ug/mL (ppm)
Aliquot of Stock Std used:	0.250 mL
Final Conc of Working standard	50 ug/mL

C2 = C1*V1)/V2

C1	**V1**	**V2**	**C2**
2000	0.250	10	50

where
C1 = concentration of Stock standard
V1 = Volume of stock standard used
C2 = Concentration of working standard
V2 = Final volume of working standard

From analytical log

	spike amt	concentration	purge volume (see analysis run log)	**spike amt in L**	**amount spiked**	**concentration of amount spiked = (amount spiked/ purge volue)**	
ICV/LCS	1 uL	250 mg/L	25 ml	0.000001 L	0.00025 mg	0.01 mg/L	10 ug/L

Data Validation Report for 24J168

Project:	J09CA1108-01, Titan 1A Missile Facility, RI
Event:	Fall 2024
SDG:	24J168
Guidance Document:	Titan 1A Missile Facility, Lincoln CA
Prime Contractor:	Parsons Corporation, Austin, TX
Project Manager:	Carrie Ross
Contract Laboratory(ies):	EMAX Laboratories, Inc., Torrance, CA
Data Review Contractor:	Parsons Corporation
Data Review Level:	S2BVEM
Primary Data Reviewer:	Beth Driskill, Senior Scientist
Date Submitted:	February 04, 2025

Field Sample ID	Lab Sample ID	Matrix	Type/Type Code	SW8260C
T1AMF-EB001_OCT24	24J168-16	Water	Equipment Blank/EB	X
T1AMF-EB002_OCT24	24J168-17	Water	Equipment Blank/EB	X
T1AMF-EW01_OCT24	24J168-14	Water	Field Sample/N	X
T1AMF-MW022_OCT24	24J168-03	Water	Field Sample/N	X
T1AMF-MW029_OCT24	24J168-13	Water	Field Sample/N	X
T1AMF-MW042_OCT24	24J168-07	Water	Field Sample/N	X
T1AMF-MW043_OCT24	24J168-05	Water	Field Sample/N	X
T1AMF-MW044_OCT24	24J168-06	Water	Field Sample/N	X
T1AMF-MW045_OCT24	24J168-15	Water	Field Sample/N	X
T1AMF-MW046_OCT24	24J168-08	Water	Field Sample/N	X
T1AMF-MW047_OCT24	24J168-04	Water	Field Sample/N	X
T1AMF-MW049_OCT24	24J168-11	Water	Field Sample/N	X
T1AMF-MW050_OCT24	24J168-01	Water	Field Sample/N	X
T1AMF-MW050_OCT24_FD	24J168-02	Water	Field Duplicate/FD	X
T1AMF-MW051_OCT24	24J168-12	Water	Field Sample/N	X
T1AMF-MW056_OCT24	24J168-09	Water	Field Sample/N	X
T1AMF-MW056_OCT24_FD	24J168-10	Water	Field Duplicate/FD	X
T1AMF-SB001_OCT24	24J168-18	Water	Ambient Blank/AB	X

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page at S2BVEM data validation level. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Titan 1A Missile Facility, Lincoln CA and the additional guidance documents incorporated by reference to the extent possible. Where definitive guidance is not provided, results have been evaluated in a conservative manner using professional judgment.

Sample collection was managed and directed by Parsons Corporation, Austin, TX; analyses were performed by EMAX Laboratories, Inc., Torrance, CA and were reported under sample delivery group (SDG) 24J168. Data have been evaluated electronically based on electronic data deliverables (EDDs) provided by the laboratory, and hard copy data summary forms have also been reviewed during this effort and compared to the automated review output by the reviewers whose signatures appear on the following page. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative and throughout this report.

All quality control (QC) elements associated with this SDG have been reviewed by a project chemist in accordance with the requirements defined for the project. This review is documented in the attached Data Review Checklists. The QC elements listed below were supported by the electronic deliverable and were evaluated using ADR processes.

- Equipment Blank
- Field Duplicate RPD
- Lab Blank
- LCS Recovery
- LCS RPD
- MS Recovery
- MS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time

Results of the ADR process were subsequently reviewed and updated as applicable by the data review chemists identified on the signature page. Quality control elements that were not included in the electronic deliverable were reviewed manually and findings are documented within this report. Summaries of findings and associated qualified results are documented throughout this report.

A total of 21 results (10.61%) out of the 198 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected or deemed a serious deficiency (X qualifier). Trace values, defined as results that are qualified as estimated because they fall between the detection limit and the reporting limit/limit of quantitation, are not counted as qualified results in the above count. The qualified results are detailed throughout this report and discussed in the narrative below, where appropriate.

Narrative Comments

Validation was performed at a Stage 2B validation (S2BVEM) and follows the validation guidelines outlined in the project-specific UFP QAPP, DoD General Data Validation Guidelines, Rev 1 (Nov 2019) and Data Validation Guidelines Module 1: Data Validation Procedure for Organic Analysis by GC/MS.

Analytical Method	Data Reviewer Comment
SW8260C	No additional comments; see Checklist for detail.

Beth Driskill

February 04, 2025

Reviewed by Beth Driskill, Senior Scientist, Parsons Corporation

As the Reviewer, I certify that I have performed a data review process in accordance with the requirements of the project guidance document, and have compared the electronic data to the laboratory's hard copy report and have verified the consistency of the reported sample results and method quality control data between the two deliverables.

Quality Control Outliers for test method SW8260C, LCS Recovery

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Reported results were evaluated to determine compliance with the required acceptance criteria, and summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
24VO01K04L (BS) 24VO01K04L	o-Xylene	134.0	78 - 122	78 - 122	percent	J/None	C	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260C, LCS RPD

The objective of laboratory control sample/laboratory control sample duplicate (LCS/LCSD) RPD analysis is to demonstrate acceptable method precision by the laboratory at the time of analysis. LCS/LCSD analyses are also performed to generate data that determines the long-term precision of the analytical method on various matrices. Non-homogenous samples can impact the apparent method precision. Summary forms were evaluated and compared to electronic data deliverables. Laboratory control sample/laboratory control sample duplicate RPD results that were outside of the acceptance criteria are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
24VO01K04C (BD) 24VO01K04C	o-Xylene	24.27	< 20.0	< 20.0	rpd	J/None	Z	
24VO01K04C (BD) 24VO01K04C	Toluene	21.99	< 20.0	< 20.0	rpd	J/None	Z	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260C, MS Recovery

Data for matrix spikes/matrix spike duplicates (MS/MSD) are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. These data alone cannot be used to evaluate the precision and accuracy of individual samples. However, when exercising professional judgment, MS/MSD data can be used in conjunction with other available QC information. Reported results were evaluated to determine compliance with the required acceptance criteria, and summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
T1AMF-MW044_OCT24MS (MS) 24J168-06M	o-Xylene	162.0	78 - 122	10 - 122	percent	J/None	M	
T1AMF-MW044_OCT24MS (MS) 24J168-06M	Trichloroethene (TCE)	15.00	79 - 123	10 - 123	percent	J/UJ	M	Spike amount Insignificant
T1AMF-MW044_OCT24MSD (SD) 24J168-06S	o-Xylene	123.0	78 - 122	10 - 122	percent	J/None	M	
T1AMF-MW044_OCT24MSD (SD) 24J168-06S	Trichloroethene (TCE)	10.00	79 - 123	10 - 123	percent	J/UJ	M	Spike amount Insignificant

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

Qualified Results associated with the MS Recovery for SW8260C

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
T1AMF-MW044_OCT24 24J168-06	N	Trichloroethene (TCE)	1.00	71.0	71.0 J	-	ug/l	M

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance.
In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method SW8260C, MS RPD

The objective of matrix spikes/matrix spike duplicates (MS/MSD) RPD analysis is to demonstrate acceptable method precision by the laboratory at the time of analysis. MS/MSD analyses are also performed to generate data that determines the long-term precision of the analytical method on various matrices. Non-homogenous samples can impact the apparent method precision. Summary forms were evaluated and compared to electronic data deliverables. Matrix spikes/matrix spike duplicates results that were outside of the acceptance criteria are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
T1AMF-MW044_OCT24MSD (SD) 24J168-06S	o-Xylene	27.37	< 20.0	< 20.0	rpd	J/None	D	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260C, Surrogate

Method performance for individual samples is demonstrated through spiking activities. All samples are spiked with surrogate compounds prior to sample preparation. The sample itself may produce effects due to such factors as interferences and high concentrations of analytes. Summary forms were evaluated and compared to electronic data deliverables. Surrogate results that were outside of the acceptance criteria are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
24VO01K04C (BD) 24VO01K04C	Toluene-d8	84.00	89 - 112	10 - 112	percent	J/UJ	I	No Qualifiers Applied
T1AMF-MW022_OCT24 (N) 24J168-03	1,2-Dichloroethane-d4	122.0	81 - 118	10 - 118	percent	J/None	I	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

Qualified Results associated with the Surrogate for SW8260C

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
T1AMF-MW022_OCT24 24J168-03	N	cis-1,2-Dichloroethene	1.00	2.20	2.20 J	+	ug/l	I
T1AMF-MW022_OCT24 24J168-03	N	Trichloroethene (TCE)	1.00	89.0	89.0 J	+	ug/l	I

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance.
In instances where no LOD is provided, results are reported down to the LOQ.

Table of All Qualified Results

Test Method: SW8260C		**Extraction Method: SW5030C**						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
T1AMF-EB001_OCT24 24J168-16	EB	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-EB002_OCT24 24J168-17	EB	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-EW01_OCT24 24J168-14	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW022_OCT24 24J168-03	N	cis-1,2-Dichloroethene	1.00	2.20	2.20 J	+	ug/l	I
T1AMF-MW022_OCT24 24J168-03	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW022_OCT24 24J168-03	N	Trichloroethene (TCE)	1.00	89.0	89.0 J	+	ug/l	I
T1AMF-MW029_OCT24 24J168-13	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW042_OCT24 24J168-07	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW043_OCT24 24J168-05	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW044_OCT24 24J168-06	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW044_OCT24 24J168-06	N	Trichloroethene (TCE)	1.00	71.0	71.0 J	-	ug/l	M
T1AMF-MW045_OCT24 24J168-15	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW046_OCT24 24J168-08	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW047_OCT24 24J168-04	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW049_OCT24 24J168-11	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW050_OCT24 24J168-01	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW050_OCT24_FD 24J168-02	FD	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW051_OCT24 24J168-12	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW056_OCT24 24J168-09	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW056_OCT24_FD 24J168-10	FD	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-SB001_OCT24 24J168-18	AB	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOQ) based on the sample concentration.
In instances where no LOD is provided, results are reported down to the LOQ.
Trace values are not included in the qualified results table unless additional reason codes are associated.

Table of Results with Modified Qualifiers

Modified Qualifiers for test method SW8260C

FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	ADR Result	ADR Flag/Bias	ADR Reason	Modified Result	Modified Flag/Bias	Reason
T1AMF-EB001_OCT24 24J168-16	EB	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-EB002_OCT24 24J168-17	EB	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-EW01_OCT24 24J168-14	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW022_OCT24 24J168-03	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW029_OCT24 24J168-13	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW042_OCT24 24J168-07	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW043_OCT24 24J168-05	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW044_OCT24 24J168-06	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW044_OCT24 24J168-06	N	Trichloroethene (TCE)	1.00	71.0	71.0				J-	M
T1AMF-MW045_OCT24 24J168-15	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW046_OCT24 24J168-08	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW047_OCT24 24J168-04	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW049_OCT24 24J168-11	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW050_OCT24 24J168-01	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW050_OCT24_FD 24J168-02	FD	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW051_OCT24 24J168-12	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW056_OCT24 24J168-09	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW056_OCT24_FD 24J168-10	FD	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2

T1AMF-SB001_OCT24 24J168-18	AB	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOQ) based on the sample concentration.
In instances where no LOD is provided, results are reported down to the LOQ.
Trace values are not included in the qualified results table unless additional reason codes are associated.

Reason Code Definitions

Code	Definition
I	Surrogate recovery outside project limits.
M	MS Recovery
TR	Trace Level Detect
V2	CCV

Flag Code and Definitions

Flag	Definition
J	Estimated Value
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.

Bias

-	The result may be biased low
+	The result may be biased high

Note - The bias field is a separate field; however, it is an integral part of the final flag (qualifier) on the sample result

Sample Types

SACODE	Definition
AB	Ambient Blank
BD	Blank Spike Duplicate
BS	Blank Spike
EB	Equipment Blank
FD	Field Duplicate
LB	Laboratory Blank
MS	Matrix Spike
N	Normal
SD	Matrix Spike Duplicate

Review Questions

Method: SW8260C (Volatile Organic Compounds by GC/MS)				
Review Questions	Yes	No	NA	Comment
Were there discrepancies between the COC and the samples received?		•		
Were there discrepancies between the COC and the sample labels?	•			The sample ID was documented incorrectly on the container label for sample T1AMF-MW043_OCT24. The lab was instructed to use the ID on the COC. The container labels did not include the analysis or preservation information on them. The documentation discrepancies do not impact data quality.
Were samples relinquished properly on the COC?	•			
Were all samples properly preserved?	•			
Were sampling dates/times, date and time of laboratory receipt of samples, and sample conditions upon receipt at the laboratory (including preservation, pH, and temperature) documented?	•			
Were sample results reported with percent moisture correction if required?			•	
Were analytical methods performed and analysis dates present?	•			
Were all requested target analytes reported?	•			
Were QAPP specified Project Quantitation Limit Goals achieved? (The laboratory LOQ is compared to the QAPP Project Quantitation Goal)		•		The LOQ value for the following analytes are greater than the Project Quantitation Limit Goal: 1,4-Dichlorobenzene, Benzene, Ethylbenzene, Trichloroethene, and Vinyl Chloride. The Project Quantitation Limit Goal is 1/3 of the PSL. If the resulting value is below the laboratory LOD, the LOD will be used as the de facto Project Quantitation Limit Goal.
Were holding times met?	•			
Were trip blanks analyzed at the proper frequency and in control?	•			The trip blank was included in SDG 24J169. The trip blank was non-detect for all target analytes.
Were field blanks analyzed at the proper frequency and in control?			•	Field blanks were not planned to be collected for this sampling event.
Were equipment blanks analyzed at the proper frequency and in control?	•			Two equipment blanks were collected and both were non-detect for all target analytes.
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than DL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			

Were LCS/LCSD recoveries within project acceptance limits?		•	The LCS and LCSD in batch VO01K04 recovered high and outside criteria for o-Xylene. The associated samples were non-detect for o-Xylene; therefore, data quality was not impacted, and results were not qualified.
Was the LCS/LCSD RPD within project acceptance limits?		•	The LCS/LCSD (VO01K04) RPD exceeded criteria for o-Xylene and Toluene. The associated samples were non-detect for o-Xylene and Toluene; therefore, data quality was not impacted, and results were not qualified.
Was a MS/MSD pair prepared with each batch?	•		Project sample T1AMF-MW044_OCT24 was requested for MS/MSD analysis on the COC.
Were MS/MSD recoveries within project acceptance limits?		•	The MS and MSD recovered high and outside criteria for o-Xylene. The parent sample was non-detect for o-Xylene; therefore, data quality was not impacted and results were not qualified. The MS and MSD recovered low and outside criteria for Tetrachloroethene. The parent result was qualified estimated with a potential low bias (J-).
Was the MS/MSD RPD within project acceptance limits?		•	The MS/MSD RPD exceeded criteria for o-Xylene. The parent sample was non-detect for o-Xylene; therefore, data quality was not impacted and results were not qualified.
If ISM was used for sample collection, were laboratory triplicates analyzed and within project acceptance limits?			•
Were surrogate recoveries within project acceptance limits?		•	Surrogate 1,2-Dichloroethane-d4 recovered high and outside criteria in sample TIAMF-MW022_OCT24. Non-detect results in the sample were not impacted by the high bias and were not qualified. Detected results in the sample were qualified estimated with a potential high bias (J+).
Were field replicates (duplicates, triplicates, etc.) analyzed at the proper frequency and in control?	•		
Were reported sample concentrations within calibration range?	•		
Was the GC/MS system properly tuned based on method criteria?	•		
Was instrument tuning completed every 12 hours during sample analysis?	•		
Was the Calibration within project acceptance criteria?	•		
Was a ICV performed after each ICAL prior to sample analysis and within project acceptance criteria?	•		
Were CCVs run at the required frequency and within project acceptance criteria?		•	The %D for o-Xylene was high and outsdie criteria in the beginning CCV analyzed 11/4/24 at 17:28, the ending CCV analyzed 11/5/24 at 04:33, and beginning CCV analyzed 11/6/24 at 08:11. Two consecutive CCVs were analyzed after the failing ending CCV and met criteria. The results for o-Xylene in the associated samples were qualified estimated (UJ).
Were internal standard retention times and area criteria within project acceptance criteria?	•		

Were internal standards spiked for every sample, standard, and QC sample?	•	
Were instrument run logs present and filled out appropriately?	•	
Were sample preparation sheets present and filled out appropriately?	•	
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•	
Were DoD QSM corrective actions followed if deviations were noted?	•	
Were any data recommended for exclusion in the data validation process?		•

Data Validation Report for 24J169

Project:	J09CA1108-01, Titan 1A Missile Facility, RI
Event:	Fall 2024
SDG:	24J169
Guidance Document:	Titan 1A Missile Facility, Lincoln CA
Prime Contractor:	Parsons Corporation, Austin, TX
Project Manager:	Carrie Ross
Contract Laboratory(ies):	EMAX Laboratories, Inc., Torrance, CA
Data Review Contractor:	Parsons Corporation
Data Review Level:	S2BVEM
Primary Data Reviewer:	Beth Driskill, Senior Scientist
Date Submitted:	February 05, 2025

Field Sample ID	Lab Sample ID	Matrix	Type/Type Code	SW8260C
T1AMF-MW011_OCT24	24J169-09	Water	Field Sample/N	X
T1AMF-MW016_OCT24	24J169-07	Water	Field Sample/N	X
T1AMF-MW016_OCT24_FD	24J169-08	Water	Field Duplicate/FD	X
T1AMF-MW019_OCT24	24J169-06	Water	Field Sample/N	X
T1AMF-MW052_OCT24	24J169-10	Water	Field Sample/N	X
T1AMF-MW054_OCT24	24J169-05	Water	Field Sample/N	X
T1AMF-MW055_OCT24	24J169-04	Water	Field Sample/N	X
T1AMF-MW063_OCT24	24J169-02	Water	Field Sample/N	X
T1AMF-MW064_OCT24	24J169-03	Water	Field Sample/N	X
T1AMF-TB002_OCT24	24J169-01	Water	Trip Blank/TB	X

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page at S2BVEM data validation level. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Titan 1A Missile Facility, Lincoln CA and the additional guidance documents incorporated by reference to the extent possible. Where definitive guidance is not provided, results have been evaluated in a conservative manner using professional judgment.

Sample collection was managed and directed by Parsons Corporation, Austin, TX; analyses were performed by EMAX Laboratories, Inc., Torrance, CA and were reported under sample delivery group (SDG) 24J169. Data have been evaluated electronically based on electronic data deliverables (EDDs) provided by the laboratory, and hard copy data summary forms have also been reviewed during this effort and compared to the automated review output by the reviewers whose signatures appear on the following page. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative and throughout this report.

All quality control (QC) elements associated with this SDG have been reviewed by a project chemist in accordance with the requirements defined for the project. This review is documented in the attached Data Review Checklists. The QC elements listed below were supported by the electronic deliverable and were evaluated using ADR processes.

- Field Duplicate RPD
- Lab Blank
- LCS Recovery
- LCS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time
- Trip Blank

Results of the ADR process were subsequently reviewed and updated as applicable by the data review chemists identified on the signature page. Quality control elements that were not included in the electronic deliverable were reviewed manually and findings are documented within this report. Summaries of findings and associated qualified results are documented throughout this report.

A total of 18 results (16.36%) out of the 110 results (sample and field QC samples) reported are qualified based on review and 8 results (7.27%) have been rejected or deemed a serious deficiency (X qualifier). Trace values, defined as results that are qualified as estimated because they fall between the detection limit and the reporting limit/limit of quantitation, are not counted as qualified results in the above count. The qualified results are detailed throughout this report and discussed in the narrative below, where appropriate.

Narrative Comments

Validation was performed at a Stage 2B validation (S2BVEM) and follows the validation guidelines outlined in the project-specific UFP QAPP, DoD General Data Validation Guidelines, Rev 1 (Nov 2019) and Data Validation Guidelines Module 1: Data Validation Procedure for Organic Analysis by GC/MS.

Analytical Method	Data Reviewer Comment
SW8260C	No additional comments; see Checklist for detail.

Beth Driskill

February 05, 2025

Reviewed by Beth Driskill, Senior Scientist, Parsons Corporation

As the Reviewer, I certify that I have performed a data review process in accordance with the requirements of the project guidance document, and have compared the electronic data to the laboratory's hard copy report and have verified the consistency of the reported sample results and method quality control data between the two deliverables.

Quality Control Outliers for test method SW8260C, LCS Recovery

The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Reported results were evaluated to determine compliance with the required acceptance criteria, and summary forms were evaluated and compared to electronic data deliverables. Findings of this review, and any associated qualified results, are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
24VO06J26L (BS) 24VO06J26L	trans-1,2-Dichloroethene	73.00	75 - 124	75 - 124	percent	J/X	C	
24VO06J26L (BS) 24VO06J26L	Trichloroethene (TCE)	76.00	79 - 123	79 - 123	percent	J/X	C	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

Qualified Results associated with the LCS Recovery for SW8260C

FieldSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
T1AMF-MW055_OCT24 24J169-04	N	trans-1,2-Dichloroethene	1.00	0.200 U	0.200 X		ug/l	C
T1AMF-MW055_OCT24 24J169-04	N	Trichloroethene (TCE)	1.00	0.200 U	0.200 X		ug/l	C/V2
T1AMF-MW063_OCT24 24J169-02	N	trans-1,2-Dichloroethene	1.00	0.200 U	0.200 X		ug/l	C
T1AMF-MW063_OCT24 24J169-02	N	Trichloroethene (TCE)	1.00	0.200 U	0.200 X		ug/l	C/V2
T1AMF-MW064_OCT24 24J169-03	N	trans-1,2-Dichloroethene	1.00	0.200 U	0.200 X		ug/l	C
T1AMF-MW064_OCT24 24J169-03	N	Trichloroethene (TCE)	1.00	0.200 U	0.200 X		ug/l	C/V2
T1AMF-TB002_OCT24 24J169-01	TB	trans-1,2-Dichloroethene	1.00	0.200 U	0.200 X		ug/l	C
T1AMF-TB002_OCT24 24J169-01	TB	Trichloroethene (TCE)	1.00	0.200 U	0.200 X		ug/l	C/V2

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOD) or (LOQ) based on the sample concentration and the validation guidance.
In instances where no LOD is provided, results are reported down to the LOQ.

Quality Control Outliers for test method SW8260C, LCS RPD

The objective of laboratory control sample/laboratory control sample duplicate (LCS/LCSD) RPD analysis is to demonstrate acceptable method precision by the laboratory at the time of analysis. LCS/LCSD analyses are also performed to generate data that determines the long-term precision of the analytical method on various matrices. Non-homogenous samples can impact the apparent method precision. Summary forms were evaluated and compared to electronic data deliverables. Laboratory control sample/laboratory control sample duplicate RPD results that were outside of the acceptance criteria are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
24VO06J26C (BD) 24VO06J26C	1,1-Dichloroethene	25.72	< 20.0	< 20.0	rpd	J/None	Z	
24VO06J26C (BD) 24VO06J26C	Ethylbenzene	23.68	< 20.0	< 20.0	rpd	J/None	Z	
24VO06J26C (BD) 24VO06J26C	m,p-Xylene	22.11	< 20.0	< 20.0	rpd	J/None	Z	
24VO06J26C (BD) 24VO06J26C	o-Xylene	23.36	< 20.0	< 20.0	rpd	J/None	Z	
24VO06J26C (BD) 24VO06J26C	Toluene	23.48	< 20.0	< 20.0	rpd	J/None	Z	
24VO06J26C (BD) 24VO06J26C	trans-1,2-Dichloroethene	24.85	< 20.0	< 20.0	rpd	J/None	Z	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Quality Control Outliers for test method SW8260C, Surrogate

Method performance for individual samples is demonstrated through spiking activities. All samples are spiked with surrogate compounds prior to sample preparation. The sample itself may produce effects due to such factors as interferences and high concentrations of analytes. Summary forms were evaluated and compared to electronic data deliverables. Surrogate results that were outside of the acceptance criteria are listed below.

Sample ID/ Lab Sample ID	Analyte	Result	Control Limits	Reject Limits	Units	Qualifier	Reason Code	Comment
T1AMF-MW055_OCT24 (N) 24J169-04	1,2-Dichloroethane-d4	127.0	81 - 118	10 - 118	percent	J/None	I	
T1AMF-MW063_OCT24 (N) 24J169-02	1,2-Dichloroethane-d4	124.0	81 - 118	10 - 118	percent	J/None	I	
T1AMF-MW064_OCT24 (N) 24J169-03	1,2-Dichloroethane-d4	127.0	81 - 118	10 - 118	percent	J/None	I	
T1AMF-TB002_OCT24 (TB) 24J169-01	1,2-Dichloroethane-d4	123.0	81 - 118	10 - 118	percent	J/None	I	

Where two qualifiers are listed, such as 'J/UJ', the first applies to positive results, and the second to non-detect results.
Upper and Lower Warning and Control Limits are abbreviated UWL, LWL, UCL, and LCL in the Comment field.

*Rejection limits may pertain to data that is excluded and "X" or "R" qualifier or data that is qualified with another flag, as reflected in the QC Elements report under Reports, Environmental Setup reports.

No results associated with this QC element required qualification.

Table of All Qualified Results

Test Method: SW8260C		**Extraction Method: SW5030C**						
FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	Qualified Result	Bias	Units	Reason
T1AMF-MW011_OCT24 24J169-09	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW016_OCT24 24J169-07	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW016_OCT24_FD 24J169-08	FD	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW019_OCT24 24J169-06	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW052_OCT24 24J169-10	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW054_OCT24 24J169-05	N	o-Xylene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW055_OCT24 24J169-04	N	1,4-Dichlorobenzene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW055_OCT24 24J169-04	N	trans-1,2-Dichloroethene	1.00	0.200 U	0.200 X		ug/l	C
T1AMF-MW055_OCT24 24J169-04	N	Trichloroethene (TCE)	1.00	0.200 U	0.200 X		ug/l	C/V2
T1AMF-MW063_OCT24 24J169-02	N	1,4-Dichlorobenzene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW063_OCT24 24J169-02	N	trans-1,2-Dichloroethene	1.00	0.200 U	0.200 X		ug/l	C
T1AMF-MW063_OCT24 24J169-02	N	Trichloroethene (TCE)	1.00	0.200 U	0.200 X		ug/l	C/V2
T1AMF-MW064_OCT24 24J169-03	N	1,4-Dichlorobenzene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-MW064_OCT24 24J169-03	N	trans-1,2-Dichloroethene	1.00	0.200 U	0.200 X		ug/l	C
T1AMF-MW064_OCT24 24J169-03	N	Trichloroethene (TCE)	1.00	0.200 U	0.200 X		ug/l	C/V2
T1AMF-TB002_OCT24 24J169-01	TB	1,4-Dichlorobenzene	1.00	0.200 U	0.200 UJ		ug/l	V2
T1AMF-TB002_OCT24 24J169-01	TB	trans-1,2-Dichloroethene	1.00	0.200 U	0.200 X		ug/l	C
T1AMF-TB002_OCT24 24J169-01	TB	Trichloroethene (TCE)	1.00	0.200 U	0.200 X		ug/l	C/V2

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOQ) based on the sample concentration.
In instances where no LOD is provided, results are reported down to the LOQ.
Trace values are not included in the qualified results table unless additional reason codes are associated.

Table of Results with Modified Qualifiers

Modified Qualifiers for test method SW8260C

FieldSample ID / LabSample ID	Type	Analyte	LOQ	Lab Result	ADR Result	ADR Flag/Bias	ADR Reason	Modified Result	Modified Flag/Bias	Reason
T1AMF-MW011_OCT24 24J169-09	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW016_OCT24 24J169-07	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW016_OCT24_FD 24J169-08	FD	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW019_OCT24 24J169-06	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW052_OCT24 24J169-10	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW054_OCT24 24J169-05	N	o-Xylene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW055_OCT24 24J169-04	N	1,4-Dichlorobenzene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW055_OCT24 24J169-04	N	Trichloroethene (TCE)	1.00	0.200 U	0.200	X	C	0.200	X	C/V2
T1AMF-MW063_OCT24 24J169-02	N	1,4-Dichlorobenzene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW063_OCT24 24J169-02	N	Trichloroethene (TCE)	1.00	0.200 U	0.200	X	C	0.200	X	C/V2
T1AMF-MW064_OCT24 24J169-03	N	1,4-Dichlorobenzene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-MW064_OCT24 24J169-03	N	Trichloroethene (TCE)	1.00	0.200 U	0.200	X	C	0.200	X	C/V2
T1AMF-TB002_OCT24 24J169-01	TB	1,4-Dichlorobenzene	1.00	0.200 U	0.200	U		0.200	UJ	V2
T1AMF-TB002_OCT24 24J169-01	TB	Trichloroethene (TCE)	1.00	0.200 U	0.200	X	C	0.200	X	C/V2

Analytes not found in project samples are reported as not detected at the limit of detection (LOD) unless blank contamination occurs and then the sample may be reported as not detected at the (LOQ) based on the sample concentration.
In instances where no LOD is provided, results are reported down to the LOQ.
Trace values are not included in the qualified results table unless additional reason codes are associated.

Reason Code Definitions

Code	Definition
C	LCS Recovery
TR	Trace Level Detect

V2	CCV

Flag Code and Definitions

Flag	Definition
J	Estimated Value
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.
X	Result may require rejection; PDT attention required

Bias

-	The result may be biased low
+	The result may be biased high

Note - The bias field is a separate field; however, it is an integral part of the final flag (qualifier) on the sample result

Sample Types

SACODE	Definition
BD	Blank Spike Duplicate
BS	Blank Spike
FD	Field Duplicate
LB	Laboratory Blank
N	Normal
TB	Trip Blank

Review Questions

Method: SW8260C (Volatile Organic Compounds by GC/MS)				
Review Questions	Yes	No	NA	Comment
Were there discrepancies between the COC and the samples received?		•		
Were there discrepancies between the COC and the sample labels?	•			The container labels did not include the analysis or preservation information on them. The documentation discrepancies do not impact data quality.
Were samples relinquished properly on the COC?	•			
Were all samples properly preserved?	•			
Were sampling dates/times, date and time of laboratory receipt of samples, and sample conditions upon receipt at the laboratory (including preservation, pH, and temperature) documented?	•			Were sampling dates/times, date and time of laboratory receipt of samples, and sample conditions upon receipt at the laboratory (including preservation, pH, and temperature) documented? • One of the three VOA vials received for the trip blank sample had headspace greater than 6 millimeters. The lab used a vial without headspace for analysis; therefore, data quality was not impacted, and results were not qualified.
Were sample results reported with percent moisture correction if required?			•	
Were analytical methods performed and analysis dates present?	•			
Were all requested target analytes reported?	•			
Were QAPP specified Project Quantitation Limit Goals achieved? (The laboratory LOQ is compared to the QAPP Project Quantitation Goal)		•		The LOQ value for the following analytes are greater than the Project Quantitation Limit Goal: 1,4-Dichlorobenzene, Benzene, Ethylbenzene, Trichloroethene, and Vinyl Chloride. The Project Quantitation Limit Goal is 1/3 of the PSL. If the resulting value is below the laboratory LOD, the LOD will be used as the de facto Project Quantitation Limit Goal.
Were holding times met?	•			
Were trip blanks analyzed at the proper frequency and in control?	•			The trip blank was non-detect for all target analytes.
Were field blanks analyzed at the proper frequency and in control?			•	Field blanks were not planned to be collected for this sampling event.
Were equipment blanks analyzed at the proper frequency and in control?	•			Two equipment blanks were collected and both were non-detect for all target analytes.
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than DL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?		•		The LCSD in batch VO06J26 recovered 2% and 3% low and outside criteria for Trans-1,2-Dichloroethene and Trichloroethene. The results in

				the following samples associated with this LCSD were qualified as "X": T1AMF-TB002_OCT24, T1AMF-MW063_OCT24, T1AMF-MW064_OCT24, T1AMF-MW055_OCT24. It should be noted that the LCS met criteria for all target analytes.
Was the LCS/LCSD RPD within project acceptance limits?		•		The LCS/LCSD (VO06J26) RPD exceeded criteria for Trans-1,2-Dichloroethene, 1,1-Dichloroethene, Toluene, Ethylbenzene, o-Xylene, and m/p-Xylene. The associated samples were non-detect for these analytes; therefore, data quality was not impacted, and results were not qualified
Was a MS/MSD pair prepared with each batch?	•			MS/MSD pairs were analyzed at the required frequency; however, a MS/MSD was not analyzed on a project sample in this SDG.
Were MS/MSD recoveries within project acceptance limits?			•	
Was the MS/MSD RPD within project acceptance limits?			•	
If ISM was used for sample collection, were laboratory triplicates analyzed and within project acceptance limits?			•	
Were surrogate recoveries within project acceptance limits?		•		Surrogate 1,2-Dichloroethane-d4 recovered high and outside criteria in the following samples: T1AMF-TB002_OCT24, T1AMF-MW063_OCT24, T1AMF-MW064_OCT24, T1AMF-MW055_OCT24. All results were non-detect in the samples; therefore, data quality was not impacted by the high bias and results were not qualified
Were field replicates (duplicates, triplicates, etc.) analyzed at the proper frequency and in control?	•			
Were reported sample concentrations within calibration range?	•			
Was the GC/MS system properly tuned based on method criteria?	•			
Was instrument tuning completed every 12 hours during sample analysis?		•		The following samples were associated to the tune analyzed 10/30/24 at 09:13 and were analyzed within the 12-hour tune time: T1AMF-TB002_OCT24, T1AMF-MW063_OCT24, T1AMF-MW064_OCT24, T1AMF-MW055_OCT24. However, the associated ending CCV was analyzed less than 1 hour outside tune time on 10/30/24 at 21:59. Recommend not qualifying data because the samples were analyzed within tune time and the end CCV was within %D criteria for all target analytes.
Was the Calibration within project acceptance criteria?	•			
Was a ICV performed after each ICAL prior to sample analysis and within project acceptance criteria?	•			
Were CCVs run at the required frequency and within project acceptance criteria?		•		The %D for Trichloroethene and 1,4-Dichlorobenzene were high and outside criteria in the CCV analyzed on 10/30/24 at 09:56. The result for these two analytes were qualified "UJ" as estimated in the following samples associated to the CCV:T1AMF-TB002_OCT24, T1AMF-MW063_OCT24, T1AMF-MW064_OCT24,

		T1AMF-MW055_OCT24. The %D for o-Xylene was high and outside criteria in the CCVs analyzed 11/4/24 at 17:28 and 11/5/24 at 04:33. The results for o-Xylene were qualified "UJ" as estimated in the following samples associated to the CCVs: T1AMF-MW054_OCT24, T1AMF-MW019_OCT24, T1AMF-MW016_OCT24, T1AMF-MW016_OCT24_FD, T1AMF-MW011_OCT24, and T1AMF-MW052_OCT24
Were internal standard retention times and area criteria within project acceptance criteria?	•	
Were internal standards spiked for every sample, standard, and QC sample?	•	
Were instrument run logs present and filled out appropriately?	•	
Were sample preparation sheets present and filled out appropriately?	•	
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•	
Were DoD QSM corrective actions followed if deviations were noted?	•	
Were any data recommended for exclusion in the data validation process?	•	Trans-1,2-Dichloroethene and Trichloroethene results in the following samples were qualified "X" because the LCSD recovered 2% and 3% low and outside criteria : T1AMF-TB002_OCT24, T1AMF-MW063_OCT24, T1AMF-MW064_OCT24, T1AMF-MW055_OCT24.

Data Validation Report for 2410702A

Project:	J09CA1108-01, Titan 1A Missile Facility, RI
Event:	Fall 2024
SDG:	2410702A
Guidance Document:	Titan 1A Missile Facility, Lincoln CA
Prime Contractor:	Parsons Corporation, Austin, TX
Project Manager:	Carrie Ross
Contract Laboratory(ies):	Eurofins Air Toxics, Inc., Folsom, CA
Data Review Contractor:	Parsons Corporation
Data Review Level:	S4VEM
Primary Data Reviewer:	Kortney Curry, Chemist/Validator
Date Submitted:	December 06, 2024

Field Sample ID	Lab Sample ID	Matrix	Type/Type Code	TO15
T1AMF-SV001_OCT24	2410702A-12A	Air	Field Sample/N	X
T1AMF-SV003_OCT24	2410702A-06A	Air	Field Sample/N	X
T1AMF-SV010_OCT24	2410702A-02A	Air	Field Sample/N	X
T1AMF-SV011_OCT24	2410702A-01A	Air	Field Sample/N	X
T1AMF-SV017B_OCT24	2410702A-07A	Air	Field Sample/N	X
T1AMF-SV024_OCT24	2410702A-11A	Air	Field Sample/N	X
T1AMF-SV026_OCT24	2410702A-13A	Air	Field Sample/N	X
T1AMF-SV026_OCT24_FD	2410702A-14A	Air	Field Duplicate/FD	X
T1AMF-SV027_OCT24	2410702A-05A	Air	Field Sample/N	X
T1AMF-SV028_OCT24	2410702A-03A	Air	Field Sample/N	X
T1AMF-SV028_OCT24_FD	2410702A-04A	Air	Field Duplicate/FD	X
T1AMF-SV031_OCT24	2410702A-08A	Air	Field Sample/N	X
T1AMF-SV032a_OCT24	2410702A-09A	Air	Field Sample/N	X
T1AMF-SV032b_OCT24	2410702A-10A	Air	Field Sample/N	X
T1AMF-SV035_OCT24	2410702A-15A	Air	Field Sample/N	X
T1AMF-SV035_OCT24_FD	2410702A-16A	Air	Field Duplicate/FD	X

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page at S4VEM data validation level. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Titan 1A Missile Facility, Lincoln CA and the additional guidance documents incorporated by reference to the extent possible. Where definitive guidance is not provided, results have been evaluated in a conservative manner using professional judgment.

Sample collection was managed and directed by Parsons Corporation, Austin, TX; analyses were performed by Eurofins Air Toxics, Inc., Folsom, CA and were reported under sample delivery group (SDG) 2410702A. Data have been evaluated electronically based on electronic data deliverables (EDDs) provided by the laboratory, and hard copy data summary forms have also been reviewed during this effort and compared to the automated review output by the reviewers whose signatures appear on the following page. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative and throughout this report.

All quality control (QC) elements associated with this SDG have been reviewed by a project chemist in accordance with the requirements defined for the project. This review is documented in the attached Data Review Checklists. The QC elements listed below were supported by the electronic deliverable and were evaluated using ADR processes.

- Field Duplicate RPD
- Lab Blank
- Lab Replicate RPD
- LCS Recovery
- LCS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time

Results of the ADR process were subsequently reviewed and updated as applicable by the data review chemists identified on the signature page. Quality control elements that were not included in the electronic deliverable were reviewed manually and findings are documented within this report. Summaries of findings and associated qualified results are documented throughout this report.

A total of 0 results (0.00%) out of the 176 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected or deemed a serious deficiency (X qualifier). Trace values, defined as results that are qualified as estimated because they fall between the detection limit and the reporting limit/limit of quantitation, are not counted as qualified results in the above count. The qualified results are detailed throughout this report and discussed in the narrative below, where appropriate.

Narrative Comments

Data validation was performed in accordance with the UFP-QAPP and DoD General Data Validation Guidelines, Rev 1 (Nov 2019). A stage 2B validation was performed on all samples and a Stage 4 validation was performed on samples T1AMF-SV028_OCT24 and T1AMF-SV035_OCT24.

Analytical Method	Data Reviewer Comment
TO15	No additional comments; see Checklist for detail.



December 06, 2024

Reviewed by Kortney Curry, Chemist/Validator, Parsons Corporation

As the Reviewer, I certify that I have performed a data review process in accordance with the requirements of the project guidance document, and have compared the electronic data to the laboratory's hard copy report and have verified the consistency of the reported sample results and method quality control data between the two deliverables.

No Outliers were associated with this sample delivery group.

Qualified Results

No results associated with this sample delivery group required qualification.

Results with Modified Qualifiers

No qualifiers associated with this sample delivery group were modified manually.

Reason Code Definitions

Code	Definition
TR	Trace Level Detect

Flag Code and Definitions

Flag	Definition
J	Estimated Value
U	Undetected: The analyte was analyzed for, but not detected.

Bias

-	The result may be biased low
+	The result may be biased high

Note - The bias field is a separate field; however, it is an integral part of the final flag (qualifier) on the sample result

Sample Types

SACODE	Definition
BD	Blank Spike Duplicate
BS	Blank Spike
FD	Field Duplicate
LB	Laboratory Blank
LR	Laboratory Replicate
N	Normal

Data Validation Report for 2410702A

Review Questions

Method: TO15 (Determination of Volatile Organic Compounds in Air Collected in Specially-Prepared Canisters and Analyzed by GC/MS)

Review Questions	Yes	No	NA	Comment
Were there discrepancies between the COC and the samples received?		•		
Were there discrepancies between the COC and the sample labels?	•			The COC information for sample T1AMF-SV028_OCT24_FD did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.
Were samples relinquished properly on the COC?	•			
Were all samples properly preserved?			•	Preservation for summa canisters is not applicable.
Were sampling dates/times, date and time of laboratory receipt of samples, and sample conditions upon receipt at the laboratory (including preservation, pH, and temperature) documented?	•			
Were sample results reported with percent moisture correction if required?			•	
Were analytical methods performed and analysis dates present?	•			
Were all requested target analytes reported?	•			
Were QAPP specified Project Quantitation Limit Goals achieved? (The laboratory LOQ is compared to the QAPP Project Quantitation Goal)		•		The laboratory LOQ exceeded the PQL goal for the following analytes in one or more samples; 1,4-dichlorobenzene, benzene, ethyl benzene, trichloroethene and vinyl chloride.
Were holding times met?	•			
Were trip blanks analyzed at the proper frequency and in control?			•	Trip blanks are not applicable for method TO-15.
Were field blanks analyzed at the proper frequency and in control?			•	Field blanks are not applicable for method TO-15.
Were equipment blanks analyzed at the proper frequency and in control?			•	Equipment blanks are not applicable for method TO-15.
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than DL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	MS/MSD analysis is not applicable for method TO-15.
Were MS/MSD recoveries within project acceptance limits?			•	
Was the MS/MSD RPD within project acceptance limits?			•	
Were Post Spike (PS) recoveries within project acceptance limits?			•	Post Spike is not applicable for method TO-15.
If ISM was used for sample collection, were laboratory triplicates analyzed and within project acceptance limits?			•	ISM is not applicable for method TO-15.
Were surrogate recoveries within project acceptance limits?	•			
Were field replicates (duplicates, triplicates, etc.) analyzed at the proper frequency and in control?	•			
Were reported sample concentrations within calibration range?	•			
Was the Calibration within project acceptance criteria?	•			
Was the GC/MS system properly tuned based on method criteria?	•			

Review Questions

Method: TO15 (Determination of Volatile Organic Compounds in Air Collected in Specially-Prepared Canisters and Analyzed by GC/MS)				
Review Questions	Yes	No	NA	Comment
Was a ICV performed after each ICAL prior to sample analysis and within project acceptance criteria?	•			
Was instrument tuning completed every 24 hours during sample analysis?	•			
Were CCVs run at the required frequency and within project acceptance criteria?	•			
Were ICB/CCBs run at the required frequency?			•	ICB/CCBs are not applicable for method TO-15.
Were target analytes in the ICBs/CCBs non-detect?			•	
Was a Low Level Calibration Check Verification (LLCCV) analyzed prior to sample and within acceptance criteria?			•	LLCCVs are not applicable for method TO-15.
Were instrument run logs present and filled out appropriately?	•			
Were internal standard retention times and area criteria within project acceptance criteria?	•			
Were sample preparation sheets present and filled out appropriately?	•			
Were internal standards spiked for every sample, standard, and QC sample?	•			
Were certificates of standard traceability provided and documentation of standard solution preparation?	•			
Were recalculation of QC Elements and Sample Results performed?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were certificates of standard traceability and documentation of standard solution preparation provided?	•			
Were DoD QSM corrective actions followed if deviations were noted?	•			
Were any data recommended for exclusion in the data validation process?		•		
Were Relative Retention Times (RRTs) within ± 0.06 RRT units (may be updated based on daily CCV)?	•			
Were chromatograms checked for peak integration? (10% of automated integration and 100% of manual integrations)	•			
Were chromatograms checked for correct baseline/peak integration and possible interferences?	•			
Were qualitative ion mass present?	•			

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702A

RECALCULATION TYPE	TAB Reference
Tune: Ion Abundance	TUNE
Tailing Factor	not applicable for TO15
Calibration RF	ICAL RF
Calibration RRT	Rel RT
ICV/CCV %D	ICAL RF
Sample Conc. Raw Values	ICAL RF
Sample Conc. Linear Regression	not applicable
Quadratic Regression	not applicable
LCS % Recovery	ICAL RF
Surrogate % Recovery	ICAL RF
MS/MSD % Recovery	ICAL RF
MS/MSD RPD	ICAL RF
Sample Amounts	ICAL RF
Sample Conc. by Volume (Aqueous Only)	ICAL RF
Sample Conc. by Weight (Non-aqueous only)	not applicable

6.1 SAMPLES AND QC	COMMENT
Sample recalculations should include the raw instrument result, re-quantified from the instrument response against the calibration function, and the final reported sample result, including any dilution, preparation factor, or percent moisture (if applicable). The equations in Appendix B can be used to calculate a sample result from the corresponding reported calibration or regression function, as appropriate.	Provided in ICAL RF tab
Verify that one or more of the laboratory's reporting limits (such as limit of quantitation) are calculated correctly for the non-detects and reported accordingly. If a detection limit study was identified by the QAPP, recalculate one or more analyte detection limits.	Provided in LOQ Recalc tab
Re-quantitate **all detected target analytes in the 10% sample data chosen**. For some samples, all results may be non-detects, therefore recalculation would not be necessary. Verify that sample-specific results have been adjusted correctly to reflect percent solids, original sample mass/volume, and any applicable dilutions.	Provided in ICAL RF tab
Re-quantitate **all detects found in the field QC blanks** (such as trip blanks, field blanks, or equipment blanks). Field QC sample duplicate recalculations should include re-quantification of the same detected analyte sample/duplicate pair and verification of the percent difference (%D), or relative percent difference (RPD), as reported.	No field QC included in SDG
6.2 Method QC	
Re-quantification of batch QC sample results should use raw instrument response in tandem with the reported calibration factor, response factor, or slope; the preparation information; and percent moisture for solid samples to recreate the reported result.	Provided in ICAL RF tab
6.2.1 Surrogate Spikes	
Verify the concentrations of surrogates from the raw data. Verify that the surrogate result and percent recovery were calculated and reported correctly by re-calculating all surrogates in the 10% of chosen sample data and method QC that were originally selected.	Provided in ICAL RF tab
6.2.2 LCS/LCSD	
To check that the spike percent recovery was calculated and reported correctly, using the equation in Appendix B, re-quantitate and then recalculate all contaminants of concern as outlined in the UFP-QAPP Worksheet #12 or #15. Use a random 10% of the analytes in the LCS/LCSD if contaminants of concern (target analytes) have not been specifically identified. Recalculate RPDs (if applicable) from LCS/LCSD pairs that would result in the qualification of a sample.	Provided in ICAL RF tab

6.2.3 MS/MSD	
Re-quantitate 10% of the target analytes as listed in the UFP-QAPP Worksheet #12 or #15 for both the MS and the MSD. Use a random 10% of the analytes in the MS and MSD if contaminates of concern have not been identified. The RPDs of the recalculated MS/MSD pairs should be calculated from the MS/MSD concentrations, not from the recoveries.	Provided in ICAL RF tab
6.2.4 Method Blanks	
Re-quantitate one or more detects found in the method blank (if applicable) from the reported average RF (or higher order regression, if used) per each batch of samples.	No method blank detections were found; no recalcs needed
6.3 Insturment QC	
6.3.1 Tune Check	
Verify by re-calculating from the quantitation reports, that the mass assignment is correct and that the mass listing is normalized to the specified m/z for at least 10% of the abundance ratios in every tune. Verify by recalculation that the reported DDT degradation and tailing factor are accurate for SVOC performance checks.	Provided in TUNE tab
6.3.2 Initial (Response Factors and Regressions) and Continuing Calibration Verifications	
Initial calibration (ICAL) recalculations should use the raw instrument response for the target analytes and associated internal standards to recreate the calibration curve from the individual calibration standards. If multiple types of calibration curves are employed in an analytical suite, then one analyte per curve type should be recalculated.	Provided in ICAL RF tab
Re-quantitate and recalculate the individual and average RFs, %RSDs, and regression function (if used) and r values reported for at least 10% of the target analytes per each internal standard, (preferably analytes of concern which were identified in the QAPP), per initial calibration curve type.	Provided in ICAL RF tab
Re-quantitate and recalculate the Initial and Continuing Calibration Verification RF result and %D for at least 10% of the target analytes, proportionally per each internal standard and proportionally selecting analytes based on each calibration curve type.	Provided in ICAL RF tab
The laboratory may employ a linear or weighted linear least squares regression. The low standard should be recalculated using the calibration curve and evaluated. RFs should not be evaluated for analytes with linear or higher order regression curves. If the ICAL included refitting of the data back to the model (RSE), the recalculate 10% of the target analytes for the RSE in each ICAL.	Linear regression was not used for any target analytes in this SDG
6.3.3 Internal Standards	
Verify all internal standards reported from the raw data for at least one sample per batch of samples, and verify internal standard areas for samples that were qualified due to out-of-control internal standard areas.	No calculations were performed; internal stds were verified as required. Recalculations of all analyte concentrations further confirm IS quantitation.
6.4 Standards Traceability	
Check that the stock standards were diluted properly into working standards by recalculating the dilutions of one or more calibration standards. Recalculate one or more surrogate dilutions. Recalculate one or more method QC sample dilutions (such as LCS or MS/MSD) from the stock to the working standard.	Provided in Standards tab

Module 1: Analysis by GC/MS
Lab/SDG: Eurofins Air Toxics / 2410702A

TUNE

Data file: /chem/msda.i/07NOV24.b/a110702.d
Acq On: 11/7/2024 11:13
Sample ID: BFB
Page #: 457 OF 485

Target Mass	RAW Abundance	Rel to Mass	Rel Abn%	Lower limit	Upper Limit
95	362560	--	--	100	100
50	93818	95	25.88	8	40
75	183168	95	50.52	30	66
96	24077	95	6.64	5	9
173	2826	174	0.95	0	2
174	296576	95	81.80	50	120
175	22178	174	7.48	4	9
176	285909	174	96.40	93	101
177	18837	176	6.59	5	9

Module 1: Analysis by GC/MS
Lab/SDG: Eurofins Air Toxics / 2410702A

TUNE

Data file: /chem/msda.i/08NOV24.b/a110802.d
Acq On: 11/8/2024 11:53
Sample ID: BFB
Page #: 461 OF 485

Target Mass	RAW Abundance	Rel to Mass	Rel Abn%	Lower limit	Upper Limit
95	328618	--	--	100	100
50	81218	95	24.72	8	40
75	163221	95	49.67	30	66
96	21781	95	6.63	5	9
173	2864	174	1.08	0	2
174	266133	95	80.99	50	120
175	20114	174	7.56	4	9
176	260074	174	97.72	93	101
177	17013	176	6.54	5	9

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702A

Internal Standard Initial Calibration and Calculation Worksheet

Lab: Eurofins Air Toxics
Method: TO15
SDG: 2410702A
Instrument: msda.i
Curve Date: 9/10/2024
Compound: Benzene
Internal Standard: 1,4-Difluorobenzene
CALIBRATION TYPE USED: RF

red text = manually input values from lab report

The following samples were validated at a Stage 4:

T1AMF-SV028_OCT24	2410702A-03A
T1AMF-SV035_OCT24	2410702A-15A

Initial Calibration Model Worksheet

Compound Area Ax	ISTD Area Ais	Compound Conc Cx	ISTD Conc Cis	Y-Values Ax/Ais	X-Values Cx/Cis	X^2 $(Cx/Cis)^2$	RF (Ax*Cis)/(Ais*Cx)
18347	995665	0.5	25				0.921
34217	1030217	1	25				0.830
172051	987004	5	25				0.872
692013	984060	20	25				0.879
1736868	989537	50	25				0.878
3593438	1043733	100	25				0.861
7297597	1109115	200	25				0.822
SUM OF EACH COLUMN :				**6.1273**	**7.06**	**20.682**	**5.2406**

CALIBRATION MODELS:

Average Response Factor:
Cx = Ax*Cis/Ais/RF

Average RF	0.866	**AVERAGE(RF)**
RSD	3.83%	**STDEV(RF)/(AveRF)**

Linear Regression:

y = mx + b
Cx = (((Ax/Ais)-b)/m)*Cis

Weighting	Equal	1/X	$1/X^2$	Equation
Slope (m)				SLOPE(RatioY,RatioX)
Intercept (b)				INTERCEPT(RatioY,RatioX)
CC (R)				CORREL(RatioY,RatioX)
COD (R^2)				POWER(R,2)

Cs= concentration, sample
Cd= concentration, duplicate

Sample Concentration Calculations

Sample ID	File ID	Compound Area Ax	ISTD Area Ais	ISTD Conc Cis	Ave RF On-column Conc	Linear Cal On-column Conc Equal Weighting	Linear Cal On-column Conc 1/X Weighting	Linear Cal On-column Conc $1/X^2$ Weighting	Dilution Factor	Final Concentration (ppbv)	Final Concentration (ug/m^3)	Spike Amt (ppbv)	% Recovery	RPD
Equations:					Ax*Cis/Ais/RF	((Ax/Ais-b)/m)*Cis						%R = (final conc (ppbv) / spike amt.)x100		RPD= [(Cs-Cd)]/[(Cs+Cd)/2]*100
T1AMF-SV028_OCT24	a110722.d	672202	1048694	25	18.501				2.150	39.8	127	NA	NA	NA
T1AMF-SV035_OCT24	a110810.d	9811	1035556	25	0.27				2.480	0.678	2	NA	NA	NA
Lab Blank	a110706h.d	0	1104050	25	0.00				1.000	0.000	0	NA	NA	NA
Lab Blank	a110806a.d	0	1059479	25	0.00				1.000	0.000	0	NA	NA	NA
LCS	a110704c.d	2225366	1195038	25	53.75				1.000	53.748	172	50.000	107	1.9
LCSD	a110705c.d	2223166	1178708	25	54.44				1.000	54.439	174	50.000	109	
LCS	a110804c.d	2009514	1075732	25	53.92				1.000	53.918	172	50.000	108	0.0
LCSD	a110805c.d	2044356	1091036	25	54.08				1.000	54.083	173	50.000	108	
ICV	a091014.d	2070094	1175491	25	50.83				1.000	50.829	162	50.000	102	NA
CCV	a110703.d	2077503	1130282	25	53.05				1.000	53.052	169	50.000	106	NA
CCV	a110803.d	1803527	982121	25	53.00				1.000	53.003	169	50.000	106	NA
CCV	a110730a.d	1905662	1063598	25	51.71				1.000	51.715	165	50.000	103	NA
CCV	a110817c.d	1860493	1022849	25	52.50				1.000	52.500	168	50.000	105	NA

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702A

Internal Standard Initial Calibration and Calculation Worksheet

Lab: Eurofins Air Toxics
Method: TO15
SDG: 2410702A
Instrument: msda.i
Curve Date: 9/10/2024
Compound: Trichloroethene
Internal Standard: 1,4-Difluorobenzene
CALIBRATION TYPE USED: RF

red text = manually input values from lab report

The following samples were validated at a Stage 4:
T1AMF-SV028_OCT24 2410702A-03A
T1AMF-SV035_OCT24 2410702A-15A

Initial Calibration Model Worksheet

Compound Area Ax	ISTD Area Ais	Compound Conc Cx	ISTD Conc Cis	Y-Values Ax/Ais	X-Values Cx/Cis	X^2 $(Cx/Cis)^2$	RF (Ax*Cis)/(Ais*Cx)
9990	995665	0.5	25				0.502
17314	1030217	1	25				0.420
81274	987004	5	25				0.412
345298	984060	20	25				0.439
892378	989537	50	25				0.451
1840839	1043733	100	25				0.441
3790646	1109115	200	25				0.427
SUM OF EACH COLUMN :				**6.5433**	**15.0600**	**84.6820**	**3.0912**

CALIBRATION MODELS:

Average Response Factor:
Cx = Ax*Cis/Ais/RF

Average RF	0.442	**AVERAGE(RF)**
RSD	6.71%	**STDEV(RF)/(AveRF)**

Linear Regression:

y = mx + b
Cx = (((Ax/Ais)-b)/m)*Cis

Weighting	Equal	1/X	$1/X^2$	Equation
Slope (m)				**SLOPE(RatioY,RatioX)**
Intercept (b)				**INTERCEPT(RatioY,RatioX)**
CC (R)				**CORREL(RatioY,RatioX)**
COD (R^2)				**POWER(R,2)**

Cs= concentration, sample
Cd= concentration, duplicate

Sample Concentration Calculations

Sample ID	File ID	Compound Area Ax	ISTD Area Ais	ISTD Conc Cis	Ave RF On-column Conc	Linear Cal On-column Conc Equal Weighting	Linear Cal On-column Conc 1/X Weighting	Linear Cal On-column Conc $1/X^2$ Weighting	Dilution Factor	Final Concentration (ppbv)	Final Concentration (ug/m^3)	Spike Amt (ppbv)	% Recovery	RPD
Equations:					**Ax*Cis/Ais/RF**	**((Ax/Ais-b)/m)*Cis**						**%R = (final conc (ppbv) / spike amt.)x100**		**RPD= [(Cs-Cd)]/[(Cs+Cd)/2]*100**
T1AMF-SV035_OCT24	a110810.d	2482248	1035556	25	135.70				2.480	336.537	1809	NA	NA	NA
Lab Blank	a110706h.d	0	1104050	25	0.00				1.000	0.000	0	NA	NA	NA
Lab Blank	a110806a.d	0	1059479	25	0.00				1.000	0.000	0	NA	NA	NA
LCS	a110704c.d	1052833	1195038	25	49.88				1.000	49.875	268	50.000	100	1.0
LCSD	a110705c.d	1047721	1178708	25	50.32				1.000	50.321	270	50.000	101	
LCS	a110804c.d	951763	1075732	25	50.09				1.000	50.088	269	50.000	100	0.0
LCSD	a110805c.d	961555	1091036	25	49.89				1.000	49.894	NA	50.000	100	
ICV	a091014.d	1025102	1175491	25	49.37				1.000	49.369	NA	50.000	99	NA
CCV	a110703.d	994806	1130282	25	49.83				1.000	49.827	NA	50.000	100	NA
CCV	a110803.d	853172	982121	25	49.18				1.000	49.179	NA	50.000	98	NA
CCV	a110730a.d	910613	1063598	25	48.47				1.000	48.469	NA	50.000	97	NA
CCV	a110817c.d	896152	1022849	25	49.60				1.000	49.600	NA	50.000	99	NA

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702A

Internal Standard Initial Calibration and Calculation Worksheet

Lab: Eurofins Air Toxics
Method: TO15
SDG: 2410702A
Instrument: msda.i
Curve Date: 9/10/2024
Compound: Toluene
Internal Standard: 1,4-Difluorobenzene
CALIBRATION TYPE USED: RF

red text = manually input values from lab report

The following samples were validated at a Stage 4:
T1AMF-SV028_OCT24 2410702A-03A
T1AMF-SV035_OCT24 2410702A-15A

Initial Calibration Model Worksheet

Compound Area Ax	ISTD Area Ais	Compound Conc Cx	ISTD Conc Cis	Y-Values Ax/Ais	X-Values Cx/Cis	X^2 $(Cx/Cis)^2$	RF (Ax*Cis)/(Ais*Cx)
24316	995665	0.5	25				1.221
48031	1030217	1	25				1.166
212585	987004	5	25				1.077
918214	984060	20	25				1.166
2283320	989537	50	25				1.154
4686152	1043733	100	25				1.122
9391601	1109115	200	25				1.058
SUM OF EACH COLUMN :				**8.0168**	**7.06**	**20.682**	**6.9061**

CALIBRATION MODELS:

Average Response Factor:
Cx = Ax*Cis/Ais/RF

Average RF	1.138	**AVERAGE(RF)**
RSD	4.95%	**STDEV(RF)/(AveRF)**

Linear Regression:

y = mx + b
Cx = (((Ax/Ais)-b)/m)*Cis

Weighting	Equal	1/X	$1/X^2$	Equation
Slope (m)				SLOPE(RatioY,RatioX)
Intercept (b)				INTERCEPT(RatioY,RatioX)
CC (R)				CORREL(RatioY,RatioX)
COD (R^2)				POWER(R,2)

Cs= concentration, sample
Cd= concentration, duplicate

Sample Concentration Calculations

Sample ID	File ID	Compound Area Ax	ISTD Area Ais	ISTD Conc Cis	Ave RF On-column Conc	Linear Cal On-column Conc Equal Weighting	Linear Cal On-column Conc 1/X Weighting	Linear Cal On-column Conc $1/X^2$ Weighting	Dilution Factor	Final Concentration (ppbv)	Final Concentration (ug/m^3)	Spike Amt (ppbv)	% Recovery	RPD
Equations:					Ax*Cis/Ais/RF	((Ax/Ais-b)/m)*Cis						%R = (final conc (ppbv) / spike amt.)x100		RPD= [(Cs-Cd)]/[(Cs+Cd)/2]*100
T1AMF-SV028_OCT24	a110722.d	21395	1048694	25	0.45				2.150	0.964	3.6	NA	NA	NA
T1AMF-SV035_OCT24	a110810.d	6451	1035556	25	0.14				2.480	0.339	1	NA	NA	NA
Lab Blank	a110706h.d	0	1104050	25	0.00				1.000	0.000	0	NA	NA	NA
Lab Blank	a110806a.d	0	1059479	25	0.00				1.000	0.000	0	NA	NA	NA
LCS	a110704c.d	2711283	1195038	25	49.85				1.000	49.850	188	50.000	100	1.0
LCSD	a110705c.d	2720400	1178708	25	50.71				1.000	50.711	191	50.000	101	
LCS	a110804c.d	2468428	1075732	25	50.42				1.000	50.419	190	50.000	101	0.0
LCSD	a110805c.d	2503180	1091036	25	50.41				1.000	50.411	190	50.000	101	
ICV	a091014.d	2638922	1175491	25	49.33				1.000	49.327	186	50.000	99	NA
CCV	a110703.d	2595247	1130282	25	50.45				1.000	50.451	190	50.000	101	NA
CCV	a110803.d	2248062	982121	25	50.29				1.000	50.294	190	50.000	101	NA
CCV	a110730a.d	2398924	1063598	25	49.56				1.000	49.558	187	50.000	99	NA
CCV	a110817c.d	2360533	1022849	25	50.71				1.000	50.708	191	50.000	101	NA

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702A

Internal Standard Initial Calibration and Calculation Worksheet

Lab: Eurofins Air Toxics
Method: TO15
SDG: 2410702A
Instrument: msda.i
Curve Date: 9/10/2024
Compound: Ethylbenzene
Internal Standard: Chlorobenzene-d5
CALIBRATION TYPE USED: RF

red text = manually input values from lab report

The following samples were validated at a Stage 4:
T1AMF-SV028_OCT24 2410702A-03A
T1AMF-SV035_OCT24 2410702A-15A

Initial Calibration Model Worksheet

Compound Area Ax	ISTD Area Ais	Compound Conc Cx	ISTD Conc Cis	Y-Values Ax/Ais	X-Values Cx/Cis	X^2 $(Cx/Cis)^2$	RF (Ax*Cis)/(Ais*Cx)
9985	916605	0.5	25				0.545
18319	953714	1	25				0.480
89204	887941	5	25				0.502
400404	893246	20	25				0.560
998927	922551	50	25				0.541
2027055	987271	100	25				0.513
4145844	1041656	200	25				0.498
SUM OF EACH COLUMN :				**3.7148**	**7.06**	**20.682**	**3.1422**

CALIBRATION MODELS:

Average Response Factor:
Cx = Ax*Cis/Ais/RF

Average RF	0.520	**AVERAGE(RF)**
RSD	5.63%	**STDEV(RF)/(AveRF)**

Linear Regression:

y = mx + b
Cx = (((Ax/Ais)-b)/m)*Cis

Weighting	Equal	1/X	$1/X^2$	Equation
Slope (m)				SLOPE(RatioY,RatioX)
Intercept (b)				INTERCEPT(RatioY,RatioX)
CC (R)				CORREL(RatioY,RatioX)
COD (R^2)				POWER(R,2)

Cs= concentration, sample
Cd= concentration, duplicate

Sample Concentration Calculations

Sample ID	File ID	Compound Area Ax	ISTD Area Ais	ISTD Conc Cis	Ave RF On-column Conc	Linear Cal On-column Conc Equal Weighting	Linear Cal On-column Conc 1/X Weighting	Linear Cal On-column Conc $1/X^2$ Weighting	Dilution Factor	Final Concentration (ppbv)	Final Concentration (ug/m^3)	Spike Amt (ppbv)	% Recovery	RPD
Equations:					Ax*Cis/Ais/RF	((Ax/Ais-b)/m)*Cis						%R = (final conc (ppbv) / spike amt.)x100		RPD= [(Cs-Cd)]/[(Cs+Cd)/2]*100
T1AMF-SV028_OCT24	a110722.d	35972	988191	25	1.75				2.150	3.763	16	NA	NA	NA
Lab Blank	a110706h.d	0	1048811	25	0.00				1.000	0.000	0	NA	NA	NA
Lab Blank	a110806a.d	0	989606	25	0.00				1.000	0.000	0	NA	NA	NA
LCS	a110704c.d	1179742	1100775	25	51.53				1.000	51.530	224	50.000	103	0.0
LCSD	a110705c.d	1180590	1097174	25	51.7				1.000	51.736	225	50.000	103	
LCS	a110804c.d	1060695	987120	25	51.66				1.000	51.665	224	50.000	103	1.0
LCSD	a110805c.d	1078309	1015024	25	51.08				1.000	51.079	222	50.000	102	
ICV	a091014.d	1177291	1083461	25	52.24				1.000	52.245	227	50.000	104	NA
CCV	a110703.d	1080395	1024524	25	50.70				1.000	50.703	220	50.000	101	NA
CCV	a110803.d	981306	925746	25	50.97				1.000	50.967	221	50.000	102	NA
CCV	a110730a.d	1008689	967521	25	50.13				1.000	50.127	218	50.000	100	NA
CCV	a110817c.d	993344	938331	25	50.90				1.000	50.900	221	50.000	102	NA

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702A

Internal Standard Initial Calibration and Calculation Worksheet

Lab: Eurofins Air Toxics
Method: TO15
SDG: 2410702A
Instrument: msda.i
Curve Date: 9/10/2024
Compound: m,p-xylene
Internal Standard: Chlorobenzene-d5
CALIBRATION TYPE USED: RF

red text = manually input values from lab report

The following samples were validated at a Stage 4:
T1AMF-SV028_OCT24 2410702A-03A
T1AMF-SV035_OCT24 2410702A-15A

Initial Calibration Model Worksheet

Compound Area Ax	ISTD Area Ais	Compound Conc Cx	ISTD Conc Cis	Y-Values Ax/Ais	X-Values Cx/Cis	X^2 $(Cx/Cis)^2$	RF (Ax*Cis)/(Ais*Cx)
11980	916605	0.5	25				0.653
22636	953714	1	25				0.593
113634	887941	5	25				0.640
500247	893246	20	25				0.700
1244195	922551	50	25				0.674
2554994	987271	100	25				0.647
5193590	1041656	200	25				0.623
SUM OF EACH COLUMN :				**4.6614**	**7.06**	**20.682**	**3.9081**

CALIBRATION MODELS:

Average Response Factor:
Cx = Ax*Cis/Ais/RF

Average RF	0.647	**AVERAGE(RF)**
RSD	5.31%	**STDEV(RF)/(AveRF)**

Linear Regression:

y = mx + b
Cx = (((Ax/Ais)-b)/m)*Cis

Weighting	Equal	1/X	$1/X^2$	Equation
Slope (m)				**SLOPE(RatioY,RatioX)**
Intercept (b)				**INTERCEPT(RatioY,RatioX)**
CC (R)				**CORREL(RatioY,RatioX)**
COD (R^2)				**POWER(R,2)**

Cs= concentration, sample
Cd= concentration, duplicate

Sample Concentration Calculations

Sample ID	File ID	Compound Area Ax	ISTD Area Ais	ISTD Conc Cis	Ave RF On-column Conc	Linear Cal On-column Conc Equal Weighting	Linear Cal On-column Conc 1/X Weighting	Linear Cal On-column Conc $1/X^2$ Weighting	Dilution Factor	Final Concentration (ppbv)	Final Concentration (ug/m^3)	Spike Amt (ppbv)	% Recovery	RPD
Equations:					Ax*Cis/Ais/RF	((Ax/Ais-b)/m)*Cis						%R = (final conc (ppbv) / spike amt.)x100		RPD= [(Cs-Cd)]/[(Cs+Cd)/2]*100
T1AMF-SV028_OCT24	a110722.d	82523	988191	25	3.23				2.150	6.934	30.11	NA	NA	NA
Lab Blank	a110706h.d	0	1048811	25	0.00				1.000	0.000	0.00	NA	NA	NA
Lab Blank	a110806a.d	0	989606	25	0.00				1.000	0.000	0.00	NA	NA	NA
LCS	a110704c.d	1441778	1100775	25	50.58				1.000	50.584	219.65	50.000	101	1.0
LCSD	a110705c.d	1444841	1097174	25	50.86				1.000	50.858	220.84	50.000	102	
LCS	a110804c.d	1321717	987120	25	51.71				1.000	51.711	224.55	50.000	103	1.0
LCSD	a110805c.d	1339301	1015024	25	51.0				1.000	50.958	221.28	50.000	102	
ICV	a091014.d	1441936	1083461	25	51.4				1.000	51.398	223.19	50.000	103	NA
CCV	a110703.d	1335590	1024524	25	50.3				1.000	50.346	218.62	50.000	101	NA
CCV	a110803.d	1233531	925746	25	51.5				1.000	51.460	223.46	50.000	103	NA
CCV	a110730a.d	1246149	967521	25	49.7				1.000	49.742	216.00	50.000	99	NA
CCV	a110817c.d	1237248	938331	25	50.9				1.000	50.923	221.12	50.000	102	NA

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702A

Internal Standard Initial Calibration and Calculation Worksheet

Lab: Eurofins Air Toxics
Method: TO15
SDG: 2410702A
Instrument: msda.i
Curve Date: 9/10/2024
Compound: o-xylene
Internal Standard: Chlorobenzene-d5
CALIBRATION TYPE USED: RF

red text = manually input values from lab report

The following samples were validated at a Stage 4:
T1AMF-SV028_OCT24 2410702A-03A
T1AMF-SV035_OCT24 2410702A-15A

Initial Calibration Model Worksheet

Compound Area Ax	ISTD Area Ais	Compound Conc Cx	ISTD Conc Cis	Y-Values Ax/Ais	X-Values Cx/Cis	X^2 $(Cx/Cis)^2$	RF (Ax*Cis)/(Ais*Cx)
10223	916605	0.5	25				0.558
22211	953714	1	25				0.582
105048	887941	5	25				0.592
475187	893246	20	25				0.665
1187357	922551	50	25				0.644
2415429	987271	100	25				0.612
4899564	1041656	200	25				0.588
SUM OF EACH COLUMN :				**4.4183**	**7.06**	**20.682**	**3.6515**

CALIBRATION MODELS:

Average Response Factor:
Cx = Ax*Cis/Ais/RF

Average RF	0.606	**AVERAGE(RF)**
RSD	6.16%	**STDEV(RF)/(AveRF)**

Linear Regression:

y = mx + b
Cx = (((Ax/Ais)-b)/m)*Cis

Weighting	Equal	1/X	$1/X^2$	Equation
Slope (m)				SLOPE(RatioY,RatioX)
Intercept (b)				INTERCEPT(RatioY,RatioX)
CC (R)				CORREL(RatioY,RatioX)
COD (R^2)				POWER(R,2)

Cs= concentration, sample
Cd= concentration, duplicate

Sample Concentration Calculations

Sample ID	File ID	Compound Area Ax	ISTD Area Ais	ISTD Conc Cis	Ave RF On-column Conc	Linear Cal On-column Conc Equal Weighting	Linear Cal On-column Conc 1/X Weighting	Linear Cal On-column Conc $1/X^2$ Weighting	Dilution Factor	Final Concentration (ppbv)	Final Concentration (ug/m^3)	Spike Amt (ppbv)	% Recovery	RPD
Equations:					Ax*Cis/Ais/RF	((Ax/Ais-b)/m)*Cis						%R = (final conc (ppbv) / spike amt.)x100		RPD= [(Cs-Cd)]/[(Cs+Cd)/2]*100
T1AMF-SV028_OCT24	a110722.d	14545	988191	25	0.61				2.150	1.306	5.7	NA	NA	NA
Lab Blank	a110706h.d	0	1048811	25	0.00				1.000	0.000	0	NA	NA	NA
Lab Blank	a110806a.d	0	989606	25	0.00				1.000	0.000	0	NA	NA	NA
LCS	a110704c.d	1358493	1100775	25	50.94				1.000	50.943	221	50.000	102	1.0
LCSD	a110705c.d	1373539	1097174	25	51.68				1.000	51.676	224	50.000	103	
LCS	a110804c.d	1245028	987120	25	52.06				1.000	52.063	226	50.000	104	1.0
LCSD	a110805c.d	1266894	1015024	25	51.52				1.000	51.521	224	50.000	103	
ICV	a091014.d	1364286	1083461	25	51.98				1.000	51.978	226	50.000	104	NA
CCV	a110703.d	1271562	1024524	25	51.23				1.000	51.232	222	50.000	102	NA
CCV	a110803.d	1157348	925746	25	51.61				1.000	51.606	224	50.000	103	NA
CCV	a110730a.d	1181873	967521	25	50.42				1.000	50.424	219	50.000	101	NA
CCV	a110817c.d	1187833	938331	25	52.25				1.000	52.254	227	50.000	105	NA

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702A

Lab:	Eurofins Air Toxics
Method:	TO15
SDG:	2410702A
Instrument:	msda.i
Curve Date:	9/10/2024
Compound:	Benzene
Internal Standard:	1,4-Difluorobenzene

ICAL PT	Analyte RT	INT STD RD	RRT
0.5	5.987	6.409	0.934
1	5.987	6.409	0.934
5	5.980	6.409	0.933
20	5.987	6.409	0.934
50	5.987	6.409	0.934
100	5.987	6.416	0.933
200	5.987	6.417	0.933

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702A

Compound
o-Xylene

Sample ID
T1AMF-SV028_OCT24

QAPP LOQ (ug/m3)	DF	Final LOQ
2.17	2.15	4.7

REPORTED LOQ (ug/m3)
4.7

Compound
Benzene

Sample ID
T1AMF-SV035_OCT24

QAPP LOQ (ug/m3)	DF	Final LOQ
1.59	2.48	3.9

REPORTED LOQ (ug/m3)
4.0

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702A

	T1AMF-SV028_OCT24			T1AMF-SV035_OCT24		
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	1,2-Dichloroethane-d5	Toluene-d9	4-Bromofluorobenzene
IS Response	282416	1035556	965349	276563	1048694	988191
Surrogate Response	426700	1089822	594193	431909	1110684	623248
Calibration RF	1.73923	1.04236	0.66667	1.73923	1.04236	0.66667
IS spike concentration (ppbv)	25	25	25	25	25	25
Surr Spike Conc. (ppbv)	25	25	25	25	25	25
Surr Conc. (ppbv)	22	25	23	22	25	24
Surr %R	87	101	92	90	102	95

	Lab Blank (2410702A-17A)			Lab Blank (2410702A-17B)		
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
IS Response	302347	1104050	1048811	288423	1059479	989606
Surrogate Response	455613	1177341	653916	436554	1114534	617317
Calibration RF	1.73923	1.04236	0.66667	1.73923	1.04236	0.66667
IS spike concentration (ppbv)	25	25	25	25	25	25
Surr Spike Conc. (ppbv)	25	25	25	25	25	25
Surr Conc. (ppbv)	22	26	23	22	25	23
Surr %R	87	102	94	87	101	94

	LCS (2410702A-19A)			LCSD (2410702A-19AA)		
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
IS Response	333973	1195038	1100775	321228	1178708	1097174
Surrogate Response	498328	1262121	697179	486353	1260020	683795
Calibration RF	1.73923	1.04236	0.66667	1.73923	1.04236	0.66667
IS spike concentration (ppbv)	25	25	25	25	25	25
Surr Spike Conc. (ppbv)	25	25	25	25	25	25
Surr Conc. (ppbv)	21	25	24	22	26	23
Surr %R	86	101	95	87	103	93

yellow highlight indicates a row that includes a calculation.

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702A

	LCS (2410702A-19B)			LCSD (2410702A-19BB)		
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
IS Response	287300	1075732	987120	290728	1091036	1015024
Surrogate Response	451569	1139113	637163	442848	1157285	642438
Calibration RF	1.73923	1.04236	0.66667	1.73923	1.04236	0.66667
IS spike concentration (ppbv)	25	25	25	25	25	25
Surr Spike Conc. (ppbv)	25	25	25	25	25	25
Surr Conc. (ppbv)	23	25	24	22	25	24
Surr %R	90	102	97	88	102	95

	ICV			CCV (2410702A-18A)		
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
IS Response	309435	1175491	1083461	300803	1130282	1024524
Surrogate Response	519462	1220612	701346	459864	1180231	646425
Calibration RF	1.73923	1.04236	0.66667	1.73923	1.04236	0.66667
IS spike concentration (ppbv)	25	25	25	25	25	25
Surr Spike Conc. (ppbv)	25	25	25	25	25	25
Surr Conc. (ppbv)	24	25	24	22	25	24
Surr %R	97	100	97	88	100	95

	CCV (2410702A-18B)			CCV (2410702A-18C)		
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
IS Response	291309	982121	925746	280517	1063598	967521
Surrogate Response	424128	1033596	591528	437883	1117087	616251
Calibration RF	1.73923	1.04236	0.66667	1.73923	1.04236	0.66667
IS spike concentration (ppbv)	25	25	25	25	25	25
Surr Spike Conc. (ppbv)	25	25	25	25	25	25
Surr Conc. (ppbv)	21	25	24	22	25	24
Surr %R	84	101	96	90	101	96

	CCV (2410702A-18D)		
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
IS Response	273973	1022849	938331
Surrogate Response	436995	1095143	592748
Calibration RF	1.73923	1.04236	0.66667
IS spike concentration (ppbv)	25	25	25
Surr Spike Conc. (ppbv)	25	25	25
Surr Conc. (ppbv)	23	26	24
Surr %R	92	103	95

yellow highlight indicates a row that includes a calculation.

Module 1: Analysis by GC/MS

Lab/SDG: **Eurofins Air Toxics / 2410702A**

CALCULATION OF WORKING STANDARD FROM STOCK

CALIBRATION STANDARD

Name of Stock Standard:	ISO-17034		
Data pkg std Certificate on page:	211		
Data pkg working std calc on page:	209		
Initial Conc of Stock Std	1000 (ppb)		
Dilution Factor	5		
Target Conc of Working Std	200 (ppb)		
Final Conc of Working standard	199.93 ppb		Final Conc. = (1000 ppbv) * (5.96 psid))/(11.99 + 5.96 + 5.96 + 5.90 psid)
File ID: a091005.d			
Concentration	0.5(ppbv) of 5 (ppbv)		
Spike amount	20 (mL)		
Dilution Factor	1	(5*20)/(.5*200)	DF = Concentration / Amount

SURROGATE STANDARD

Name of Stock Standard:	ISO-17025		
Data pkg std Certificate on page:	214		
Data pkg working std calc on page:	208		
Initial Conc of Stock Std	200 (ppb)		
Dilution Factor	40		
Target Conc of Working Std	5 (ppb)		
Final Conc of Working standard	4.97 ppb		Final Conc. = (200 ppbv) * (.74 psid)/(11.95 + .74 + 17.07 psid)
File ID: a110719.d			
Dilution Factor on page 10	2.11		
Dilution Factor Calc	2.11		Diluition Factor = Final Pressure / Initial Vacuum
Final Pressure	10		Final Pressure = 14.7psi + final pressurepsi
Initial Vaccum	6.1		Initial Vacuum = 14.7psi - (initial pressureHg * (14.7psi/30Hg))

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702A

CALCULATION OF WORKING STANDARD FROM STOCK

ICV/LCS STANDARD (second source)

Name of Stock Standard:	Qualified	
Data pkg std Certificate on page:	221	
Data pkg working std calc on page:	210	
Initial Conc of Stock Std	1000 (ppb)	
Dilution Factor	5	
Target Conc of Working Std	200 (ppb)	
Final Conc of Working standard	199.87 ppb	Final Conc. = (1000 ppbv) * (5.95 psid)/(11.90 + 5.95 + 11.92 psid)
File ID: a111104c.d		
Concentration	50 (ppbv)	
Spike amount	50 (mL)	
Dilution Factor	1	DF = Concentration / Amount

Data Validation Report for 2410702B

Project:	J09CA1108-01, Titan 1A Missile Facility, RI
Event:	Fall 2024
SDG:	2410702B
Guidance Document:	Titan 1A Missile Facility, Lincoln CA
Prime Contractor:	Parsons Corporation, Austin, TX
Project Manager:	Carrie Ross
Contract Laboratory(ies):	Eurofins Air Toxics, Inc., Folsom, CA
Data Review Contractor:	Parsons Corporation
Data Review Level:	S4VEM
Primary Data Reviewer:	Kortney Curry, Chemist/Validator
Date Submitted:	December 09, 2024

Field Sample ID	Lab Sample ID	Matrix	Type/Type Code	TO15
T1AMF-SV002_OCT24	2410702B-21A	Air	Field Sample/N	X
T1AMF-SV004_OCT24	2410702B-27A	Air	Field Sample/N	X
T1AMF-SV005B_OCT24	2410702B-32A	Air	Field Sample/N	X
T1AMF-SV006_OCT24	2410702B-33A	Air	Field Sample/N	X
T1AMF-SV015B_OCT24	2410702B-29A	Air	Field Sample/N	X
T1AMF-SV016_OCT24	2410702B-34A	Air	Field Sample/N	X
T1AMF-SV018_OCT24	2410702B-35A	Air	Field Sample/N	X
T1AMF-SV019_OCT24	2410702B-26A	Air	Field Sample/N	X
T1AMF-SV020_OCT24	2410702B-23A	Air	Field Sample/N	X
T1AMF-SV021_OCT24	2410702B-20A	Air	Field Sample/N	X
T1AMF-SV022_OCT24	2410702B-24A	Air	Field Sample/N	X
T1AMF-SV023_OCT24	2410702B-18A	Air	Field Sample/N	X
T1AMF-SV023_OCT24_FD	2410702B-19A	Air	Field Duplicate/FD	X
T1AMF-SV025_OCT24	2410702B-25A	Air	Field Sample/N	X
T1AMF-SV029_OCT24	2410702B-31A	Air	Field Sample/N	X
T1AMF-SV030_OCT24	2410702B-30A	Air	Field Sample/N	X
T1AMF-SV033_OCT24	2410702B-17A	Air	Field Sample/N	X
T1AMF-SV034_OCT24	2410702B-22A	Air	Field Sample/N	X
T1AMF-SV09B_OCT24	2410702B-28A	Air	Field Sample/N	X

This report assesses the analytical data quality associated with the analyses listed on the preceding cover page at S4VEM data validation level. This assessment has been made through a combination of automated data review (ADR) and supplemental manual review, the details of which are described below. The approach taken in the review of this data set is consistent with the requirements contained in the Titan 1A Missile Facility, Lincoln CA and the additional guidance documents incorporated by reference to the extent possible. Where definitive guidance is not provided, results have been evaluated in a conservative manner using professional judgment.

Sample collection was managed and directed by Parsons Corporation, Austin, TX; analyses were performed by Eurofins Air Toxics, Inc., Folsom, CA and were reported under sample delivery group (SDG) 2410702B. Data have been evaluated electronically based on electronic data deliverables (EDDs) provided by the laboratory, and hard copy data summary forms have also been reviewed during this effort and compared to the automated review output by the reviewers whose signatures appear on the following page. Findings based on the automated data submission and manual data verification processes are detailed in the ADR narrative and throughout this report.

All quality control (QC) elements associated with this SDG have been reviewed by a project chemist in accordance with the requirements defined for the project. This review is documented in the attached Data Review Checklists. The QC elements listed below were supported by the electronic deliverable and were evaluated using ADR processes.

- Field Duplicate RPD
- Lab Blank
- Lab Replicate RPD
- LCS Recovery
- LCS RPD
- Prep Hold Time
- Surrogate
- Test Hold Time

Results of the ADR process were subsequently reviewed and updated as applicable by the data review chemists identified on the signature page. Quality control elements that were not included in the electronic deliverable were reviewed manually and findings are documented within this report. Summaries of findings and associated qualified results are documented throughout this report.

A total of 0 results (0.00%) out of the 209 results (sample and field QC samples) reported are qualified based on review and 0 results (0.00%) have been rejected or deemed a serious deficiency (X qualifier). Trace values, defined as results that are qualified as estimated because they fall between the detection limit and the reporting limit/limit of quantitation, are not counted as qualified results in the above count. The qualified results are detailed throughout this report and discussed in the narrative below, where appropriate.

Narrative Comments

Data validation was performed in accordance with the UFP-QAPP and DoD General Data Validation Guidelines, Rev 1 (Nov 2019). A stage 2B validation was performed on all samples and a Stage 4 validation was performed on samples T1AMF-SV022_OCT24 and T1AMF-SV030_OCT24.

Analytical Method	Data Reviewer Comment
TO15	No additional comments; see Checklist for detail.



December 09, 2024

Reviewed by Kortney Curry, Chemist/Validator, Parsons Corporation

As the Reviewer, I certify that I have performed a data review process in accordance with the requirements of the project guidance document, and have compared the electronic data to the laboratory's hard copy report and have verified the consistency of the reported sample results and method quality control data between the two deliverables.

No Outliers were associated with this sample delivery group.

Qualified Results

No results associated with this sample delivery group required qualification.

Results with Modified Qualifiers

No qualifiers associated with this sample delivery group were modified manually.

Reason Code Definitions

Code	Definition
TR	Trace Level Detect

Flag Code and Definitions

Flag	Definition
J	Estimated Value
U	Undetected: The analyte was analyzed for, but not detected.

Bias

-	The result may be biased low
+	The result may be biased high

Note - The bias field is a separate field; however, it is an integral part of the final flag (qualifier) on the sample result

Sample Types

SACODE	Definition
BD	Blank Spike Duplicate
BS	Blank Spike
FD	Field Duplicate
LB	Laboratory Blank
LR	Laboratory Replicate
N	Normal

Review Questions

Method: TO15 (Determination of Volatile Organic Compounds in Air Collected in Specially-Prepared Canisters and Analyzed by GC/MS)

Review Questions	Yes	No	NA	Comment
Were there discrepancies between the COC and the samples received?		•		
Were there discrepancies between the COC and the sample labels?	•			The COC information for sample T1AMF-SV023_OCT24 did not match the information on the canister with regard to canister barcode. The sample labeled 1L4684 on the COC is labeled as 1L4686 on the canister. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.
Were samples relinquished properly on the COC?	•			
Were all samples properly preserved?			•	Preservation for summa canisters is not applicable.
Were sampling dates/times, date and time of laboratory receipt of samples, and sample conditions upon receipt at the laboratory (including preservation, pH, and temperature) documented?	•			Samples T1AMF-SV021_OCT24 and T1AMF-SV029_OCT24 were received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.
Were sample results reported with percent moisture correction if required?			•	
Were analytical methods performed and analysis dates present?	•			
Were all requested target analytes reported?	•			
Were QAPP specified Project Quantitation Limit Goals achieved? (The laboratory LOQ is compared to the QAPP Project Quantitation Goal)		•		The laboratory LOQ exceeded the PQL goal for the following analytes in one or more samples: 1,4-dichlorobenzene, benzene, ethyl benzene, trichloroethene, and vinyl chloride.
Were holding times met?	•			
Were trip blanks analyzed at the proper frequency and in control?			•	Trip blanks are not applicable for method TO-15.
Were field blanks analyzed at the proper frequency and in control?			•	Field blanks are not applicable for method TO-15.
Were equipment blanks analyzed at the proper frequency and in control?			•	Equipment blanks are not applicable for method TO-15.
Was a method blank prepared and analyzed with each batch?	•			
Were target analytes in the method blank less than DL?	•			
Was an LCS/LCSD pair prepared and analyzed with each batch?	•			
Were LCS/LCSD recoveries within project acceptance limits?	•			
Was the LCS/LCSD RPD within project acceptance limits?	•			
Was a MS/MSD pair prepared with each batch?			•	MS/MSD analysis is not applicable for method TO-15.
Were MS/MSD recoveries within project acceptance limits?			•	
Was the MS/MSD RPD within project acceptance limits?			•	
Were Post Spike (PS) recoveries within project acceptance limits?			•	Post Spike is not applicable for method TO-15.
If ISM was used for sample collection, were laboratory triplicates analyzed and within project acceptance limits?			•	ISM is not applicable for method TO-15.
Were surrogate recoveries within project acceptance limits?	•			
Were field replicates (duplicates, triplicates, etc.) analyzed at the proper frequency and in control?	•			
Were reported sample concentrations within calibration range?	•			

Data Validation Report for 2410702B

Review Questions

Method: TO15 (Determination of Volatile Organic Compounds in Air Collected in Specially-Prepared Canisters and Analyzed by GC/MS)				
Review Questions	Yes	No	NA	Comment
Was the Calibration within project acceptance criteria?	•			
Was the GC/MS system properly tuned based on method criteria?	•			
Was a ICV performed after each ICAL prior to sample analysis and within project acceptance criteria?	•			
Was instrument tuning completed every 24 hours during sample analysis?	•			
Were CCVs run at the required frequency and within project acceptance criteria?	•			
Were ICB/CCBs run at the required frequency?			•	ICB/CCBs are not applicable for method TO-15.
Were target analytes in the ICBs/CCBs non-detect?			•	
Was a Low Level Calibration Check Verification (LLCCV) analyzed prior to sample and within acceptance criteria?			•	LLCCVs are not applicable for method TO-15.
Were instrument run logs present and filled out appropriately?	•			
Were internal standard retention times and area criteria within project acceptance criteria?	•			
Were sample preparation sheets present and filled out appropriately?	•			
Were internal standards spiked for every sample, standard, and QC sample?	•			
Were certificates of standard traceability provided and documentation of standard solution preparation?	•			
Were recalculation of QC Elements and Sample Results performed?	•			
Have all Laboratory Case Narrative comments/findings been addressed in the data review process?	•			
Were certificates of standard traceability and documentation of standard solution preparation provided?	•			
Were DoD QSM corrective actions followed if deviations were noted?	•			
Were any data recommended for exclusion in the data validation process?		•		
Were Relative Retention Times (RRTs) within ± 0.06 RRT units (may be updated based on daily CCV)?	•			
Were chromatograms checked for peak integration? (10% of automated integration and 100% of manual integrations)	•			
Were chromatograms checked for correct baseline/peak integration and possible interferences?	•			
Were qualitative ion mass present?	•			

Module 1: Analysis by GC/MS

Lab/SDG: **Eurofins Air Toxics / 2410702B**

RECALCULATION TYPE	TAB Reference
Tune: Ion Abundance	TUNE
Tailing Factor	not applicable for TO15
Calibration RF	ICAL RF
Calibration RRT	Rel RT
ICV/CCV %D	ICAL RF
Sample Conc. Raw Values	ICAL RF
Sample Conc. Linear Regression	not applicable
Quadratic Regression	not applicable
LCS % Recovery	ICAL RF
Surrogate % Recovery	ICAL RF
MS/MSD % Recovery	ICAL RF
MS/MSD RPD	ICAL RF
Sample Amounts	ICAL RF
Sample Conc. by Volume (Aqueous Only)	ICAL RF
Sample Conc. by Weight (Non-aqueous only)	not applicable

6.1 SAMPLES AND QC	COMMENT
Sample recalculations should include the raw instrument result, re-quantified from the instrument response against the calibration function, and the final reported sample result, including any dilution, preparation factor, or percent moisture (if applicable). The equations in Appendix B can be used to calculate a sample result from the corresponding reported calibration or regression function, as appropriate.	Provided in ICAL RF tab
Verify that one or more of the laboratory's reporting limits (such as limit of quantitation) are calculated correctly for the non-detects and reported accordingly. If a detection limit study was identified by the QAPP, recalculate one or more analyte detection limits.	Provided in LOQ Recalc tab
Re-quantitate **all detected target analytes in the 10% sample data chosen**. For some samples, all results may be non-detects, therefore recalculation would not be necessary. Verify that sample-specific results have been adjusted correctly to reflect percent solids, original sample mass/volume, and any applicable dilutions.	Provided in ICAL RF tab
Re-quantitate **all detects found in the field QC blanks** (such as trip blanks, field blanks, or equipment blanks). Field QC sample duplicate recalculations should include re-quantification of the same detected analyte sample/duplicate pair and verification of the percent difference (%D), or relative percent difference (RPD), as reported.	No field QC included in SDG
6.2 Method QC	
Re-quantification of batch QC sample results should use raw instrument response in tandem with the reported calibration factor, response factor, or slope; the preparation information; and percent moisture for solid samples to recreate the reported result.	Provided in ICAL RF tab
6.2.1 Surrogate Spikes	
Verify the concentrations of surrogates from the raw data. Verify that the surrogate result and percent recovery were calculated and reported correctly by re-calculating all surrogates in the 10% of chosen sample data and method QC that were originally selected.	Provided in ICAL RF tab
6.2.2 LCS/LCSD	
To check that the spike percent recovery was calculated and reported correctly, using the equation in Appendix B, re-quantitate and then recalculate all contaminants of concern as outlined in the UFP-QAPP Worksheet #12 or #15. Use a random 10% of the analytes in the LCS/LCSD if contaminants of concern (target analytes) have not been specifically identified. Recalculate RPDs (if applicable) from LCS/LCSD pairs that would result in the qualification of a sample.	Provided in ICAL RF tab

6.2.3 MS/MSD	
Re-quantitate 10% of the target analytes as listed in the UFP-QAPP Worksheet #12 or #15 for both the MS and the MSD. Use a random 10% of the analytes in the MS and MSD if contaminates of concern have not been identified. The RPDs of the recalculated MS/MSD pairs should be calculated from the MS/MSD concentrations, not from the recoveries.	Provided in ICAL RF tab
6.2.4 Method Blanks	
Re-quantitate one or more detects found in the method blank (if applicable) from the reported average RF (or higher order regression, if used) per each batch of samples.	No method blank detections were found; no recalcs needed
6.3 Insturment QC	
6.3.1 Tune Check	
Verify by re-calculating from the quantitation reports, that the mass assignment is correct and that the mass listing is normalized to the specified m/z for at least 10% of the abundance ratios in every tune. Verify by recalculation that the reported DDT degradation and tailing factor are accurate for SVOC performance checks.	Provided in TUNE tab
6.3.2 Initial (Response Factors and Regressions) and Continuing Calibration Verifications	
Initial calibration (ICAL) recalculations should use the raw instrument response for the target analytes and associated internal standards to recreate the calibration curve from the individual calibration standards. If multiple types of calibration curves are employed in an analytical suite, then one analyte per curve type should be recalculated.	Provided in ICAL RF tab
Re-quantitate and recalculate the individual and average RFs, %RSDs, and regression function (if used) and r values reported for at least 10% of the target analytes per each internal standard, (preferably analytes of concern which were identified in the QAPP), per initial calibration curve type.	Provided in ICAL RF tab
Re-quantitate and recalculate the Initial and Continuing Calibration Verification RF result and %D for at least 10% of the target analytes, proportionally per each internal standard and proportionally selecting analytes based on each calibration curve type.	Provided in ICAL RF tab
The laboratory may employ a linear or weighted linear least squares regression. The low standard should be recalculated using the calibration curve and evaluated. RFs should not be evaluated for analytes with linear or higher order regression curves. If the ICAL included refitting of the data back to the model (RSE), the recalculate 10% of the target analytes for the RSE in each ICAL.	Linear regression was not used for any target analytes in this SDG
6.3.3 Internal Standards	
Verify all internal standards reported from the raw data for at least one sample per batch of samples, and verify internal standard areas for samples that were qualified due to out-of-control internal standard areas.	No calculations were performed; internal stds were verified as required. Recalculations of all analyte concentrations further confirm IS quantitation.
6.4 Standards Traceability	
Check that the stock standards were diluted properly into working standards by recalculating the dilutions of one or more calibration standards. Recalculate one or more surrogate dilutions. Recalculate one or more method QC sample dilutions (such as LCS or MS/MSD) from the stock to the working standard.	Provided in Standards tab

Module 1: Analysis by GC/MS
Lab/SDG: Eurofins Air Toxics / 2410702B

TUNE

Data file: /chem/msda.i/11NOV24.b/a111102.d
Acq On: 11/11/2024 9:03
Sample ID: BFB
Page #: 451 OF 477

Target Mass	RAW Abundance	Rel to Mass	Rel Abn%	Lower limit	Upper Limit
95	323584	--	--	100	100
50	86594	95	26.76	8	40
75	166826	95	51.56	30	66
96	21933	95	6.78	5	9
173	3141	174	1.19	0	2
174	264832	95	81.84	50	120
175	20429	174	7.71	4	9
176	249621	174	94.26	93	101
177	16486	176	6.60	5	9

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702B

Internal Standard Initial Calibration and Calculation Worksheet

Lab: Eurofins Air Toxics
Method: TO15
SDG: 2410702B
Instrument: msda.i
Curve Date: 9/10/2024
Compound: Benzene
Internal Standard: 1,4-Difluorobenzene
CALIBRATION TYPE USED: RF

red text = manually input values from lab report

The following samples were validated at a Stage 4:

T1AMF-SV022_OCT24	2410702B-24A
T1AMF-SV030_OCT24	2410702B-30A

Initial Calibration Model Worksheet

Compound Area Ax	ISTD Area Ais	Compound Conc Cx	ISTD Conc Cis	Y-Values Ax/Ais	X-Values Cx/Cis	X^2 $(Cx/Cis)^2$	RF (Ax*Cis)/(Ais*Cx)
18347	995665	0.5	25				0.921
34217	1030217	1	25				0.830
172051	987004	5	25				0.872
692013	984060	20	25				0.879
1736868	989537	50	25				0.878
3593438	1043733	100	25				0.861
7297597	1109115	200	25				0.822
SUM OF EACH COLUMN :				**6.1273**	**7.06**	**20.682**	**5.2406**

CALIBRATION MODELS:

Average Response Factor:
Cx = Ax*Cis/Ais/RF

Average RF	0.866	**AVERAGE(RF)**
RSD	3.83%	**STDEV(RF)/(AveRF)**

Linear Regression:

y = mx + b
Cx = (((Ax/Ais)-b)/m)*Cis

Weighting	Equal	1/X	$1/X^2$	Equation
Slope (m)				**SLOPE(RatioY,RatioX)**
Intercept (b)				**INTERCEPT(RatioY,RatioX)**
CC (R)				**CORREL(RatioY,RatioX)**
COD (R^2)				**POWER(R,2)**

Cs= concentration, sample
Cd= concentration, duplicate

Sample Concentration Calculations

Sample ID	File ID	Compound Area Ax	ISTD Area Ais	ISTD Conc Cis	Ave RF On-column Conc	Linear Cal On-column Conc Equal Weighting	Linear Cal On-column Conc 1/X Weighting	Linear Cal On-column Conc $1/X^2$ Weighting	Dilution Factor	Final Concentration (ppbv)	Final Concentration (ug/m^3)	Spike Amt (ppbv)	% Recovery	RPD
Equations:					**Ax*Cis/Ais/RF**	**((Ax/Ais-b)/m)*Cis**						**%R = (final conc (ppbv) / spike amt.)x100**		**RPD= [(Cs-Cd)]/[(Cs+Cd)/2]*100**
T1AMF-SV030_OCT24	a111123.d	19707	862547	25	0.66				2.270	1.497	4.8	NA	NA	NA
Lab Blank	a111106c	0	969392	25	0.00				1.000	0.000	0	NA	NA	NA
LCS	a111104c	1867751	997866	25	54.02				1.000	54.025	173	50.000	108.0	1.9
LCSD	a111105c	1843003	1003767	25	53.00				1.000	52.995	169	50.000	106.0	
ICV	a091014.d	2070094	1175491	25	50.83				1.000	50.829	162	50.000	101.7	NA
CCV	a111103.d	1787473	973920	25	52.97				1.000	52.974	169	50.000	105.9	NA
CCV	a111130a.d	1319771	755920	25	50.39				1.000	50.393	161	50.000	100.8	NA

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702B

Internal Standard Initial Calibration and Calculation Worksheet

Lab: Eurofins Air Toxics
Method: TO15
SDG: 2410702B
Instrument: msda.i
Curve Date: 9/10/2024
Compound: Trichloroethene
Internal Standard: 1,4-Difluorobenzene
CALIBRATION TYPE USED: RF

red text = manually input values from lab report

The following samples were validated at a Stage 4:
T1AMF-SV022_OCT24 2410702B-24A
T1AMF-SV030_OCT24 2410702B-30A

Initial Calibration Model Worksheet

Compound Area Ax	ISTD Area Ais	Compound Conc Cx	ISTD Conc Cis	Y-Values Ax/Ais	X-Values Cx/Cis	X^2 $(Cx/Cis)^2$	RF (Ax*Cis)/(Ais*Cx)
9990	995665	0.5	25				0.502
17314	1030217	1	25				0.420
81274	987004	5	25				0.412
345298	984060	20	25				0.439
892378	989537	50	25				0.451
1840839	1043733	100	25				0.441
3790646	1109115	200	25				0.427
SUM OF EACH COLUMN :				**6.5433**	**15.0600**	**84.6820**	**3.0912**

CALIBRATION MODELS:

Average Response Factor:
Cx = Ax*Cis/Ais/RF

Average RF	0.442	**AVERAGE(RF)**
RSD	6.71%	**STDEV(RF)/(AveRF)**

Linear Regression:

y = mx + b
Cx = (((Ax/Ais)-b)/m)*Cis

Weighting	Equal	1/X	$1/X^2$	Equation
Slope (m)				**SLOPE(RatioY,RatioX)**
Intercept (b)				**INTERCEPT(RatioY,RatioX)**
CC (R)				**CORREL(RatioY,RatioX)**
COD (R^2)				**POWER(R,2)**

Cs= concentration, sample
Cd= concentration, duplicate

Sample Concentration Calculations

Sample ID	File ID	Compound Area Ax	ISTD Area Ais	ISTD Conc Cis	Ave RF On-column Conc	Linear Cal On-column Conc Equal Weighting	Linear Cal On-column Conc 1/X Weighting	Linear Cal On-column Conc $1/X^2$ Weighting	Dilution Factor	Final Concentration (ppbv)	Final Concentration (ug/m^3)	Spike Amt (ppbv)	% Recovery	RPD
Equations:					**Ax*Cis/Ais/RF**	**((Ax/Ais-b)/m)*Cis**						**%R = (final conc (ppbv) / spike amt.)x100**		**RPD= [(Cs-Cd)]/[(Cs+Cd)/2]*100**
T1AMF-SV022_OCT24	a111116.d	2843199	885320	25	181.81				9.000	1636.284	8794	NA	NA	NA
Lab Blank	a111106c	0	969392	25	0.00				1.000	0.000	0	NA	NA	NA
LCS	a111104c	879457	997866	25	49.89				1.000	49.894	268	50.000	99.8	2.0
LCSD	a111105c	866854	1003767	25	48.89				1.000	48.890	263	50.000	97.8	
ICV	a091014.d	1025102	1175491	25	49.37				1.000	49.369	265	50.000	98.7	NA
CCV	a111103.d	863054	973920	25	50.17				1.000	50.168	270	50.000	100.3	NA
CCV	a111130a.d	675435	755920	25	50.58				1.000	50.584	NA	50.000	101.2	NA

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702B

Internal Standard Initial Calibration and Calculation Worksheet

Lab: Eurofins Air Toxics
Method: TO15
SDG: 2410702B
Instrument: msda.i
Curve Date: 9/10/2024
Compound: Toluene
Internal Standard: 1,4-Difluorobenzene
CALIBRATION TYPE USED: RF

red text = manually input values from lab report

The following samples were validated at a Stage 4:
T1AMF-SV022_OCT24 2410702B-24A
T1AMF-SV030_OCT24 2410702B-30A

Initial Calibration Model Worksheet

Compound Area Ax	ISTD Area Ais	Compound Conc Cx	ISTD Conc Cis	Y-Values Ax/Ais	X-Values Cx/Cis	X^2 $(Cx/Cis)^2$	RF (Ax*Cis)/(Ais*Cx)
24316	995665	0.5	25				1.221
48031	1030217	1	25				1.166
212585	987004	5	25				1.077
918214	984060	20	25				1.166
2283320	989537	50	25				1.154
4686152	1043733	100	25				1.122
9391601	1109115	200	25				1.058
SUM OF EACH COLUMN :				**8.0168**	**7.06**	**20.682**	**6.9061**

CALIBRATION MODELS:

Average Response Factor:
Cx = Ax*Cis/Ais/RF

Average RF	1.138	**AVERAGE(RF)**
RSD	4.95%	**STDEV(RF)/(AveRF)**

Linear Regression:

y = mx + b
Cx = (((Ax/Ais)-b)/m)*Cis

Weighting	Equal	1/X	$1/X^2$	Equation
Slope (m)				**SLOPE(RatioY,RatioX)**
Intercept (b)				**INTERCEPT(RatioY,RatioX)**
CC (R)				**CORREL(RatioY,RatioX)**
COD (R^2)				**POWER(R,2)**

Cs= concentration, sample
Cd= concentration, duplicate

Sample Concentration Calculations

Sample ID	File ID	Compound Area Ax	ISTD Area Ais	ISTD Conc Cis	Ave RF On-column Conc	Linear Cal On-column Conc Equal Weighting	Linear Cal On-column Conc 1/X Weighting	Linear Cal On-column Conc $1/X^2$ Weighting	Dilution Factor	Final Concentration (ppbv)	Final Concentration (ug/m^3)	Spike Amt (ppbv)	% Recovery	RPD
Equations:					**Ax*Cis/Ais/RF**	**((Ax/Ais-b)/m)*Cis**						**%R = (final conc (ppbv) / spike amt.)x100**		**RPD= [(Cs-Cd)]/[(Cs+Cd)/2]*100**
T1AMF-SV030_OCT24	a111123.d	56964	862547	25	1.45				2.270	3.294	12	NA	NA	NA
Lab Blank	a111106c	0	969392	25	0.00				1.000	0.000	0	NA	NA	NA
LCS	a111104c	2304154	997866	25	50.74				1.000	50.736	191	50.000	101	1.0
LCSD	a111105c	2276245	1003767	25	49.83				1.000	49.827	188	50.000	100	
ICV	a091014.d	2638922	1175491	25	49.33				1.000	49.327	186	50.000	99	NA
CCV	a111103.d	2282160	973920	25	51.49				1.000	51.487	194	50.000	103	NA
CCV	a111130a.d	1710428	755920	25	49.72				1.000	49.717	187	50.000	99	NA

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702B

Internal Standard Initial Calibration and Calculation Worksheet

Lab: Eurofins Air Toxics
Method: TO15
SDG: 2410702B
Instrument: msda.i
Curve Date: 9/10/2024
Compound: Ethylbenzene
Internal Standard: Chlorobenzene-d5
CALIBRATION TYPE USED: RF

red text = manually input values from lab report

The following samples were validated at a Stage 4:
T1AMF-SV022_OCT24 2410702B-24A
T1AMF-SV030_OCT24 2410702B-30A

Initial Calibration Model Worksheet

Compound Area Ax	ISTD Area Ais	Compound Conc Cx	ISTD Conc Cis	Y-Values Ax/Ais	X-Values Cx/Cis	X^2 $(Cx/Cis)^2$	RF (Ax*Cis)/(Ais*Cx)
9985	916605	0.5	25				0.545
18319	953714	1	25				0.480
89204	887941	5	25				0.502
400404	893246	20	25				0.560
998927	922551	50	25				0.541
2027055	987271	100	25				0.513
4145844	1041656	200	25				0.498
SUM OF EACH COLUMN :				**3.7148**	**7.06**	**20.682**	**3.1422**

CALIBRATION MODELS:

Average Response Factor:
Cx = Ax*Cis/Ais/RF

Average RF	0.520	**AVERAGE(RF)**
RSD	5.63%	**STDEV(RF)/(AveRF)**

Linear Regression:

y = mx + b
Cx = (((Ax/Ais)-b)/m)*Cis

Weighting	Equal	1/X	$1/X^2$	Equation
Slope (m)				**SLOPE(RatioY,RatioX)**
Intercept (b)				**INTERCEPT(RatioY,RatioX)**
CC (R)				**CORREL(RatioY,RatioX)**
COD (R^2)				**POWER(R,2)**

Cs= concentration, sample
Cd= concentration, duplicate

Sample Concentration Calculations

Sample ID	File ID	Compound Area Ax	ISTD Area Ais	ISTD Conc Cis	Ave RF On-column Conc	Linear Cal On-column Conc Equal Weighting	Linear Cal On-column Conc 1/X Weighting	Linear Cal On-column Conc $1/X^2$ Weighting	Dilution Factor	Final Concentration (ppbv)	Final Concentration (ug/m^3)	Spike Amt (ppbv)	% Recovery	RPD
Equations:					**Ax*Cis/Ais/RF**	**((Ax/Ais-b)/m)*Cis**						**%R = (final conc (ppbv) / spike amt.)x100**		**RPD= [(Cs-Cd)]/[(Cs+Cd)/2]*100**
T1AMF-SV030_OCT24	a111123.d	10273	799020	25	0.62				2.270	1.403	6	NA	NA	NA
Lab Blank	a111106c	0	898030	25	0.00				1.000	0.000	0	NA	NA	NA
LCS	a111104c	995055	933663	25	51.24				1.000	51.242	222	50.000	102	1.0
LCSD	a111105c	979476	936599	25	50.28				1.000	50.282	218	50.000	101	
ICV	a091014.d	1177291	1083461	25	52.24				1.000	52.245	227	50.000	104	NA
CCV	a111103.d	953240	894091	25	51.3				1.000	51.262	223	50.000	103	NA
CCV	a111130a.d	746030	687623	25	52.16				1.000	52.165	226	50.000	104	NA

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702B

Internal Standard Initial Calibration and Calculation Worksheet

Lab: Eurofins Air Toxics
Method: TO15
SDG: 2410702B
Instrument: msda.i
Curve Date: 9/10/2024
Compound: m,p-xylene
Internal Standard: Chlorobenzene-d5
CALIBRATION TYPE USED: RF

red text = manually input values from lab report

The following samples were validated at a Stage 4:
T1AMF-SV022_OCT24 2410702B-24A
T1AMF-SV030_OCT24 2410702B-30A

Initial Calibration Model Worksheet

Compound Area Ax	ISTD Area Ais	Compound Conc Cx	ISTD Conc Cis	Y-Values Ax/Ais	X-Values Cx/Cis	X^2 $(Cx/Cis)^2$	RF (Ax*Cis)/(Ais*Cx)
11980	916605	0.5	25				0.653
22636	953714	1	25				0.593
113634	887941	5	25				0.640
500247	893246	20	25				0.700
1244195	922551	50	25				0.674
2554994	987271	100	25				0.647
5193590	1041656	200	25				0.623
SUM OF EACH COLUMN :				**4.6614**	**7.06**	**20.682**	**3.9081**

CALIBRATION MODELS:

Average Response Factor:
Cx = Ax*Cis/Ais/RF

Average RF	0.647	**AVERAGE(RF)**
RSD	5.31%	**STDEV(RF)/(AveRF)**

Linear Regression:

y = mx + b
Cx = (((Ax/Ais)-b)/m)*Cis

Weighting	Equal	1/X	$1/X^2$	Equation
Slope (m)				**SLOPE(RatioY,RatioX)**
Intercept (b)				**INTERCEPT(RatioY,RatioX)**
CC (R)				**CORREL(RatioY,RatioX)**
COD (R^2)				**POWER(R,2)**

Cs= concentration, sample
Cd= concentration, duplicate

Sample Concentration Calculations

Sample ID	File ID	Compound Area Ax	ISTD Area Ais	ISTD Conc Cis	Ave RF On-column Conc	Linear Cal On-column Conc Equal Weighting	Linear Cal On-column Conc 1/X Weighting	Linear Cal On-column Conc $1/X^2$ Weighting	Dilution Factor	Final Concentration (ppbv)	Final Concentration (ug/m^3)	Spike Amt (ppbv)	% Recovery	RPD
Equations:					**Ax*Cis/Ais/RF**	**((Ax/Ais-b)/m)*Cis**						**%R = (final conc (ppbv) / spike amt.)x100**		**RPD= [(Cs-Cd)]/[(Cs+Cd)/2]*100**
T1AMF-SV030_OCT24	a111123.d	44998	799020	25	2.17				2.270	4.937	21.44	NA	NA	NA
Lab Blank	a111106c	0	898030	25	0.00				1.000	0.000	0.00	NA	NA	NA
LCS	a111104c	1223885	933663	25	50.62				1.000	50.625	219.83	50.000	101	1.0
LCSD	a111105c	1215998	936599	25	50.14				1.000	50.141	217.73	50.000	100	
ICV	a091014.d	1441936	1083461	25	51.40				1.000	51.398	223.19	50.000	103	NA
CCV	a111103.d	1209244	894091	25	52.23				1.000	52.233	226.81	50.000	104	NA
CCV	a111130a.d	944806	687623	25	53.1				1.000	53.065	230.42	50.000	106	NA

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702B

Internal Standard Initial Calibration and Calculation Worksheet

Lab: Eurofins Air Toxics
Method: TO15
SDG: 2410702B
Instrument: msda.i
Curve Date: 9/10/2024
Compound: o-xylene
Internal Standard: Chlorobenzene-d5
CALIBRATION TYPE USED: RF

red text = manually input values from lab report

The following samples were validated at a Stage 4:
T1AMF-SV022_OCT24 2410702B-24A
T1AMF-SV030_OCT24 2410702B-30A

Initial Calibration Model Worksheet

Compound Area Ax	ISTD Area Ais	Compound Conc Cx	ISTD Conc Cis	Y-Values Ax/Ais	X-Values Cx/Cis	X^2 $(Cx/Cis)^2$	RF (Ax*Cis)/(Ais*Cx)
10223	916605	0.5	25				0.558
22211	953714	1	25				0.582
105048	887941	5	25				0.592
475187	893246	20	25				0.665
1187357	922551	50	25				0.644
2415429	987271	100	25				0.612
4899564	1041656	200	25				0.588
SUM OF EACH COLUMN :				**4.4183**	**7.06**	**20.682**	**3.6515**

CALIBRATION MODELS:

Average Response Factor:
Cx = Ax*Cis/Ais/RF

Average RF	0.606	**AVERAGE(RF)**
RSD	6.16%	**STDEV(RF)/(AveRF)**

Linear Regression:

y = mx + b
Cx = (((Ax/Ais)-b)/m)*Cis

Weighting	Equal	1/X	$1/X^2$	Equation
Slope (m)				**SLOPE(RatioY,RatioX)**
Intercept (b)				**INTERCEPT(RatioY,RatioX)**
CC (R)				**CORREL(RatioY,RatioX)**
COD (R^2)				**POWER(R,2)**

Cs= concentration, sample
Cd= concentration, duplicate

Sample Concentration Calculations

Sample ID	File ID	Compound Area Ax	ISTD Area Ais	ISTD Conc Cis	Ave RF On-column Conc	Linear Cal On-column Conc Equal Weighting	Linear Cal On-column Conc 1/X Weighting	Linear Cal On-column Conc $1/X^2$ Weighting	Dilution Factor	Final Concentration (ppbv)	Final Concentration (ug/m^3)	Spike Amt (ppbv)	% Recovery	RPD
Equations:					**Ax*Cis/Ais/RF**	**((Ax/Ais-b)/m)*Cis**						**%R = (final conc (ppbv) / spike amt.)x100**		**RPD= [(Cs-Cd)]/[(Cs+Cd)/2]*100**
T1AMF-SV030_OCT24	a111123.d	12023	799020	25	0.62				2.270	1.410	6	NA	NA	NA
Lab Blank	a111106c	0	898030	25	0.00				1.000	0.000	0	NA	NA	NA
LCS	a111104c	1152259	933663	25	50.94				1.000	50.943	221	50.000	102	0.0
LCSD	a111105c	1155157	936599	25	50.91				1.000	50.911	221	50.000	102	
ICV	a091014.d	1364286	1083461	25	51.98				1.000	51.978	226	50.000	104	NA
CCV	a111103.d	1148953	894091	25	53.0				1.000	53.045	230	50.000	106	NA
CCV	a111130a.d	907693	687623	25	54.49				1.000	54.489	237	50.000	109	NA

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702B

Internal Standard Initial Calibration and Calculation Worksheet

Lab: Eurofins Air Toxics
Method: TO15
SDG: 2410702B
Instrument: msda.i
Curve Date: 9/10/2024
Compound: cis-1,2-dichloroethene
Internal Standard: Bromochloromethane
CALIBRATION TYPE USED: RF

red text = manually input values from lab report

The following samples were validated at a Stage 4:

T1AMF-SV022_OCT24	2410702B-24A
T1AMF-SV030_OCT24	2410702B-30A

Initial Calibration Model Worksheet

Compound Area Ax	ISTD Area Ais	Compound Conc Cx	ISTD Conc Cis	Y-Values Ax/Ais	X-Values Cx/Cis	X^2 $(Cx/Cis)^2$	RF (Ax*Cis)/(Ais*Cx)
4077	271489	0.5	25				0.751
8311	271092	1	25				0.766
38758	264813	5	25				0.732
157023	265321	20	25				0.740
414256	272599	50	25				0.760
830990	281597	100	25				0.738
1779591	289433	200	25				0.769
SUM OF EACH COLUMN :				**5.2545**	**7.06**	**20.682**	**4.4864**

CALIBRATION MODELS:

Average Response Factor:
Cx = Ax*Cis/Ais/RF

Average RF	0.751	**AVERAGE(RF)**
RSD	1.96%	**STDEV(RF)/(AveRF)**

Linear Regression:

y = mx + b
Cx = (((Ax/Ais)-b)/m)*Cis

Weighting	Equal	1/X	$1/X^2$	Equation
Slope (m)				**SLOPE(RatioY,RatioX)**
Intercept (b)				**INTERCEPT(RatioY,RatioX)**
CC (R)				**CORREL(RatioY,RatioX)**
COD (R^2)				**POWER(R,2)**

Cs= concentration, sample
Cd= concentration, duplicate

Sample Concentration Calculations

Sample ID	File ID	Compound Area Ax	ISTD Area Ais	ISTD Conc Cis	Ave RF On-column Conc	Linear Cal On-column Conc Equal Weighting	Linear Cal On-column Conc 1/X Weighting	Linear Cal On-column Conc $1/X^2$ Weighting	Dilution Factor	Final Concentration (ppbv)	Final Concentration (ug/m^3)	Spike Amt (ppbv)	% Recovery	RPD
Equations:					**Ax*Cis/Ais/RF**	**((Ax/Ais-b)/m)*Cis**						**%R = (final conc (ppbv) / spike amt.)x100**		**RPD= [(Cs-Cd)]/[(Cs+Cd)/2]*100**
T1AMF-SV022_OCT24	a111116.d	7174	247245	25	0.97				9.000	8.696	34.5	NA	NA	NA
Lab Blank	a111106c	0	266423	25	0.00				1.000	0.000	0.0	NA	NA	NA
LCS	a111104c	422833	272125	25	51.74				1.000	51.745	205.2	50.000	103	2.9
LCSD	a111105c	428326	269541	25	52.92				1.000	52.919	209.8	50.000	106	
ICV	a091014.d	478777	309435	25	51.53				1.000	51.526	204.3	50.000	103	NA
CCV	a111103.d	416226	265167	25	52.3				1.000	52.273	207.3	50.000	105	NA
CCV	a111130a.d	314891	204549	25	51.27				1.000	51.266	203.3	50.000	103	NA

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702B

Lab:	Eurofins Air Toxics
Method:	TO15
SDG:	2410702B
Instrument:	msda.i
Curve Date:	9/10/2024
Compound:	Benzene
Internal Standard:	1,4-Difluorobenzene

ICAL PT	Analyte RT	INT STD RD	RRT
0.5	5.987	6.409	0.934
1	5.987	6.409	0.934
5	5.980	6.409	0.933
20	5.987	6.409	0.934
50	5.987	6.409	0.934
100	5.987	6.416	0.933
200	5.987	6.417	0.933

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702B

Compound
cis-1,2-Dichloroethene

Sample ID
T1AMF-SV022_OCT24

QAPP LOQ (ug/m3)
2.68

REPORTED LOQ (ug/m3)
24.0

DF	Final LOQ
9	24.1

Compound
Ethyl Benzene

Sample ID
T1AMF-SV030_OCT24

QAPP LOQ (ug/m3)
2.17

REPORTED LOQ (ug/m3)
4.9

DF	Final LOQ
2.27	4.9

Module 1: Analysis by GC/MS

Lab/SDG: Eurofins Air Toxics / 2410702B

	T1AMF-SV022_OCT24			T1AMF-SV030_OCT24		
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	1,2-Dichloroethane-d5	Toluene-d9	4-Bromofluorobenzene
IS Response	247245	885320	836088	227243	862547	799020
Surrogate Response	388903	937181	509209	375447	899287	498468
Calibration RF	1.73923	1.04236	0.66667	1.73923	1.04236	0.66667
IS spike concentration (ppbv)	25	25	25	25	25	25
Surr Spike Conc. (ppbv)	25	25	25	25	25	25
Surr Conc. (ppbv)	22.61	25.39	22.84	23.75	25.01	23.39
Surr %R	90.44	101.56	91.36	95.00	100.02	93.58
	Lab Blank (2410702B-36A)			**LCS (2410702B-38A)**		
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
IS Response	266423	969392	898030	272125	997866	933663
Surrogate Response	416444	987842	549272	425253	1057776	599162
Calibration RF	1.73923	1.04236	0.66667	1.73923	1.04236	0.66667
IS spike concentration (ppbv)	25	25	25	25	25	25
Surr Spike Conc. (ppbv)	25	25	25	25	25	25
Surr Conc. (ppbv)	22.47	24.44	22.94	22.46	25.42	24.06
Surr %R	89.87	97.76	91.75	89.85	101.70	96.26

	LCSD (2410702B-38AA)			ICV		
Surrogate	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene	1,2-Dichloroethane-d5	Toluene-d9	4-Bromofluorobenzene
IS Response	269541	1003767	936599	309435	1175491	1083461
Surrogate Response	426399	1077952	595075	519462	1220612	701346
Calibration RF	1.73923	1.04236	0.66667	1.73923	1.04236	0.66667
IS spike concentration (ppbv)	25	25	25	25	25	25
Surr Spike Conc. (ppbv)	25	25	25	25	25	25
Surr Conc. (ppbv)	22.74	25.76	23.83	24.13	24.90	24.27
Surr %R	90.96	103.03	95.30	96.52	99.62	97.10

yellow highlight indicates a row that includes a calculation.

	CCV (2410702B-37A)			CCV (2410702B-37B)		
Surrogate	1,2-Dichloroethane-d5	Toluene-d9	4-Bromofluorobenzene	1,2-Dichloroethane-d5	Toluene-d9	4-Bromofluorobenzene
IS Response	265167	973920	894091	204549	755920	687623
Surrogate Response	424197	1057960	568735	359786	796598	456593
Calibration RF	1.73923	1.04236	0.66667	1.73923	1.04236	0.66667
IS spike concentration (ppbv)	25	25	25	25	25	25
Surr Spike Conc. (ppbv)	25	25	25	25	25	25
Surr Conc. (ppbv)	22.99	26.05	23.85	25.28	25.27	24.90
Surr %R	91.98	104.21	95.42	101.13	101.10	99.60

yellow highlight indicates a row that includes a calculation.

Module 1: Analysis by GC/MS

Lab/SDG: **Eurofins Air Toxics / 2410702B**

CALCULATION OF WORKING STANDARD FROM STOCK

CALIBRATION STANDARD

Name of Stock Standard:	ISO-17034	
Data pkg std Certificate on page:	232	
Data pkg working std calc on page:	230	
Initial Conc of Stock Std	1000 (ppb)	
Dilution Factor	5	
Target Conc of Working Std	200 (ppb)	
Final Conc of Working standard	199.93 ppb	Final Conc. = (1000 ppbv) * (5.96 psid))/(11.99 + 5.96 + 5.96 + 5.90 psid)
File ID: a091005.d		
Concentration	0.5(ppbv) of 5 (ppbv)	
Spike amount	20 (mL)	
Dilution Factor	1 (5*20)/(.5*200)	DF = Concentration / Amount

SURROGATE STANDARD

Name of Stock Standard:	ISO-17025	
Data pkg std Certificate on page:	235	
Data pkg working std calc on page:	229	
Initial Conc of Stock Std	200 (ppb)	
Dilution Factor	40	
Target Conc of Working Std	5 (ppb)	
Final Conc of Working standard	4.97 ppb	Final Conc. = (200 ppbv) * (.74 psid)/(11.95 + .74 + 17.07 psid)
File ID: a111108.d		
Dilution Factor on page 10	2.16	
Dilution Factor Calc	2.16	Diluition Factor = Final Pressure / Initial Vacuum
Final Pressure	9.5	Final Pressure = 14.7psi + final pressurepsi
Initial Vaccum	7.1	Initial Vacuum = 14.7psi - (initial pressureHg * (14.7psi/30Hg))

Module 1: Analysis by GC/MS

Lab/SDG: **Eurofins Air Toxics / 2410702B**

CALCULATION OF WORKING STANDARD FROM STOCK

ICV/LCS STANDARD (second source)

Name of Stock Standard:	Qualified	
Data pkg std Certificate on page:	242	
Data pkg working std calc on page:	231	
Initial Conc of Stock Std	1000 (ppb)	
Dilution Factor	5	
Target Conc of Working Std	200 (ppb)	
Final Conc of Working standard	199.87 ppb	Final Conc. = (1000 ppbv) * (5.95 psid)/(11.90 + 5.95 + 11.92 psid)
File ID: a111104c.d		
Concentration	50 (ppbv)	
Spike amount	50 (mL)	
Dilution Factor	1	DF = Concentration / Amount

Appendix E – Data Usability Reports

Data Usability Summary

Facility:	J09CA1108-01, Titan 1A Missile Facility, RI
Event:	Fall 2024
Guidance Document:	Titan 1A Missile Facility, Lincoln CA
Prime Contractor:	Parsons Corporation, Austin, TX
Organization Preparing DUA:	Parsons Corporation
DUA Release Date:	2025-03-25
Project Manager:	Timothy Crummett
Contract Laboratory(ies):	Eurofins Air Toxics, Inc., Folsom, CA | EMAX Laboratories, Inc., Torrance, CA
Data Review Contractor:	Parsons Corporation
Data Review Level:	S2BVEM | S4VEM
Sample Collection Date Range:	2024-10-21 to 2024-10-29

SDG	SW8260C	TO15
2410702A		X
2410702B		X
24J145	X	
24J168	X	
24J169	X	

QA objectives for measuring data are expressed in terms of precision, accuracy, representativeness, comparability, completeness, and sensitivity (PARCCS). The QA objectives provide a mechanism for ongoing control and evaluating and measuring data quality throughout the project.

A review of the collected data is necessary in order to identify if data measurement objectives established in the seven-step data quality objective (DQO) process have been met. In general, the following data measurement objectives were considered:

•Specification of particular analytical method and reporting detection limit requirements
•Identification of the appropriate laboratory analytical QC requirements
•Verify if appropriate levels of other PARCCS criteria for the data has been met
•Delineation of specific sample-handling issues or other project-specific issues

The data validation review of the QA objectives verifies if the collected data are of sufficient quality to support their intended use.

A total of 8 results (0.98 %) out of the 814 results (sample and field QC samples) reported have had qualifiers modified during this Data Usability Assessment and 0 results (0.00 %) have been rejected or deemed a serious deficiency. 63 results were qualified during the data review process. Trace values, defined as results that are qualified as estimated because they fall between the detection limit and the reporting limit/limit of quantitation, are not counted as qualified results in the above count.

Beth Driskill

2025-03-25

Reviewed by Beth Driskill, Parsons Corporation

Data Usability Summary

Data Usability Assessment Modifications to Qualifiers

Test Method: SW8260C Extraction Method: SW5030C Leach Method: NONE

FieldSample ID	Type	Analyte	LOQ	Lab Result	Validation Result	Modified Result	Units	Final Reason
T1AMF-MW055_OCT24	N	trans-1,2-Dichloroethene	1.00	0.200 U	0.200 X	0.200 UJ	ug/L	C
T1AMF-MW055_OCT24	N	Trichloroethene (TCE)	1.00	0.200 U	0.200 X	0.200 UJ	ug/L	C/V2
T1AMF-MW063_OCT24	N	trans-1,2-Dichloroethene	1.00	0.200 U	0.200 X	0.200 UJ	ug/L	C
T1AMF-MW063_OCT24	N	Trichloroethene (TCE)	1.00	0.200 U	0.200 X	0.200 UJ	ug/L	C/V2
T1AMF-MW064_OCT24	N	trans-1,2-Dichloroethene	1.00	0.200 U	0.200 X	0.200 UJ	ug/L	C
T1AMF-MW064_OCT24	N	Trichloroethene (TCE)	1.00	0.200 U	0.200 X	0.200 UJ	ug/L	C/V2
T1AMF-TB002_OCT24	TB	trans-1,2-Dichloroethene	1.00	0.200 U	0.200 X	0.200 UJ	ug/L	C
T1AMF-TB002_OCT24	TB	Trichloroethene (TCE)	1.00	0.200 U	0.200 X	0.200 UJ	ug/L	C/V2

General Note: Qualified analytes in samples are reported as estimated, not detected (UJ) at the Limit of Detection (LOD).

No qualification led to the rejection of the data set during the DUA review.

Reason Code Definitions

Code	Definition
C	LCS Recovery
I	Surrogate recovery outside project limits.
M	MS Recovery
TR	Trace Level Detect
V2	CCV
Z6	Sample or the associated closing CCV was analyzed past the 12-hour time period from Tune or opening CCV

Flag Code and Definitions

Flag	Definition
J	Estimated Value
U	Undetected: The analyte was analyzed for, but not detected.
UJ	The analyte was not detected; however, the result is estimated due to discrepancies in meeting certain analyte-specific quality control criteria.
X	Result may require rejection; PDT attention required

Sample Type Code and Definitions

Type	Definition
AB	Ambient Blank
BD	Blank Spike Duplicate
BS	Blank Spike
EB	Equipment Blank

Data Usability Summary

FD	Field Duplicate
LB	Laboratory Blank
LR	Laboratory Replicate
MS	Matrix Spike
N	Normal
SD	Matrix Spike Duplicate
TB	Trip Blank

Data Usability Summary

Narrative Comments

Review Questions	Yes	No	NA	Comment
Review Objective/Sampling Design				
Is the Final UFP QAPP associated with the event present in the Planning folder of the FUDSChem library for the project?	•			
Were key outputs defined during systematic planning (e.g.,PQOs or DQOs and MPCs) reviewed to make sure they are still applicable? Refer to the UFP QAPP for the projects, and to the worksheets found in REPORTS | UFP QAPP Worksheets.	•			
Refer to summary reports found in REPORTS | Event Tracking Reports | Event Status: All Data Types, Event Status: Chemistry Detail, and Unplanned Samples to review planned and unplanned samples and test methods.	•			
Was the sampling design reviewed for consistency with stated objectives? Refer to MAPS | Export to Google Earth to review sampling locations.	•			
Were data quality indicators (DQIs) from the DoD QSM used for this event? Review and discuss any DQIs that deviated from the DoD QSM. Refer to the UFP QAPP and to REPORTS | Environmental Setup Reports | Analyte Criteria, which highlights items that were modified from the original templates based on the DoD QSM.	•			The criteria for the QC elements matches the final UFP QAPP for the analyses applicable to this DUA.
Review Data				
If Event Planning was performed in FUDSChem, were all samples and measurements identified in REPORTS | Event Tracking Reports | Event Status: All Data Types completed and approved (all checked cells are green)?	•			
If Event Planning was performed in FUDSChem, were all samples identified in REPORTS | Event Tracking Reports | Event Status: Chemistry Detail collected and approved (all checked cells are green), or notated to explain discrepancies?	•			
If Event Planning was performed in FUDSChem, were all samples identified in REPORTS | Event Tracking Reports | Unplanned Samples reviewed to ensure correct completeness calculations?			•	No unplanned samples were collected.
Were deviations from planned activities (e.g., number and locations of samples, holding time exceedances, damaged samples, non-compliant PT sample results, and SOP deviations) reviewed to determine their impacts on the data usability? If Event Planning was performed in FUDSChem, refer to REPORTS | Data Usability Assessment Reports | Project Completeness.	•			Analytical and Project completeness is 100%. Field completeness is 100%.
Have all Location related placeholders, such as centroid coordinates, been resolved? Review REPORTS | Data Assessment Reports | Locations.	•			
Were laboratory and data review reports for each Sample Delivery Group (SDG) associated with the event present in the FUDSChem library for the project? Refer to the list of SDGs listed on the cover page of the Data Usability Assessment Summary Report found under REPORTS | Data Usability Assessment Reports.	•			
Were all data review reports reviewed? Look for patterns, trends, and anomalies (e.g., unexpected results). Refer to the Data Review Reports in the project library as well as the event summary reports located in REPORTS | Data Usability Assessment Reports.	•			

Data Usability Summary

Review Questions	Yes	No	NA	Comment
Review Data				
Were all data review reports associated with an approved eQAPP? Review the footer of the Data Review report in the Library to identify the version of the eQAPP that was used.	•			
Were there any implications of unacceptable QC sample results and does this impact sample results? If so, did any qualifiers require revision using the Sample Qualification tab of this interface?	•			Refer to the data validation reports for a discussion about sample results that are impacted by QC deficiencies.
Were sensitivity requirements met, as compared to regulatory Project Action or Screening Limits? Review REPORTS | Data Usability Assessment Reports | Sensitivity Summary.		•		The LOQ for the following analytes analyzed by method 8260C exceeded the PAL in one or more samples: 1,4-Dichlororbenzene, Benzene, TCE, Vinyl Chloride. Non-detect results for these analytes are reported at the LOD and the LOD was below the PAL for the analytes listed with exception of Vinyl Chloride. The LOQ for the following analytes analyzed by method TO-15 exceeded the PAL in one or more samples: 1,4-dichlorobenzene, benzene, ethyl benzene, trichloroethene and vinyl chloride.
Were any sample results recommended for rejection during validation (X qualified)? If so, have all X qualifiers been revised to R or J using the Sample Qualification tab of this interface?	•			The LCSD recovered 2% low for Trans-1,2-dichloroethene and 3% low for Trichloroethene. The results for these analytes in the following samples were all non-detect and were qualified X due to the low recovery: T1AMF-TB002_OCT24, T1AMF-MW063_OCT24, T1AMF-MW064_OCT24, T1AMF-MW055_OCT24. In addition, the CCV associated to these samples was biased high for Trichloroethene. The LCS was within criteria for both analytes and the LCSD recoveries are less than 5% outside criteria; therefore, the results were qualified as estimated (UJ) rather than rejected.
Were all LTM related parameters required for the project, such as groundwater measurements, environmental parameters, and well screen intervals found to be complete and correctly reported?	•			
Have all sections of the Dashboard linked Project Tracking Report been documented as complete?	•			All sections have been marked as complete with exception of this DUA.
Document Usability/Draw Conclusions				
Based on the previous 'Review Data' documentation, are there any limitations on the use of the data associated with this event?	•			Due to the inability to collect a full soil vapor sample at SV-29, detection limits for benzene were elevated and it was not possible to determine if the benzene at SV-28 extended south to SV-29. SV-29 may need to be replaced (see below)
Describe the conclusions reached during this Data Usability Assessment.	•			No results from this data set were rejected and all data qualified as estimated were considered valid and usable for the purposes of this project.
Lessons Learned/Recommendations				
Were any Program level Lessons Learned identified? (e.g., SW8330 was not the best fit for this site and MS/MS should be considered)		•		
Were any Project level Lessons Learned identified? (e.g., ISM sampling resulted in anomalies to be resolved in the future, or current locations not comparable to historical data)		•		

Data Usability Summary

Review Questions	Yes	No	NA	Comment
Lessons Learned/Recommendations				
Are there any additional items associated with this sampling event that need clarification?		•		
Were any Sample level Lessons Learned identified? (e.g., a particular well may be expected to be dry in the future)	•			SV-21 is generally not sample-able. as there is a nearby probe at the same depth (SV-23), SV-21 should be abandoned.SV-12 often cannot be sampled due to shallow groundwater. it may be worthwhile to move the probe to a different location where it wont flood.SV-29 is difficult to sample; i.e., a full soil vapor often cannot be collected. it may need to be replaced.

Appendix F – Investigation Derived Waste

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NON-HAZ
2. Page 1 of: 1
3. Emergency Response Phone: 925-768-1742
4. Waste Tracking Number: 011725-01

5. Generator's Name and Mailing Address
Parsons
401 Oak Tree Lane, Lincoln, CA 95648
Generator's Phone: 925-768-1742

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Blaine Tech Services Inc
U.S. EPA ID Number: CAL000189985

7. Transporter 2 Company Name: Crosby & Overton, Inc
U.S. EPA ID Number: CAD028409019

8. Designated Facility Name and Site Address
Crosby & Overton, Inc
1630 West 17th Street
Long Beach, CA 90813
Facility's Phone: 562-432-5445
U.S. EPA ID Number: CAD028409019

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON HAZARDOUS WASTE LIQUID (Groundwater)	1	DM	22	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Profile # 137552
1) 271092

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Erin Helpio OBO Sean Moore
Signature: Erin Helpio
Month: 1 Day: 17 Year: 25

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Erin Helpio
Signature: Erin Helpio
Month: 1 Day: 17 Year: 25

Transporter 2 Printed/Typed Name: DERRYL BAILEY
Signature:
Month: 1 Day: 17 Year: 25

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

H134

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Traci Polk
Signature:
Month: 1 Day: 21 Year: 25

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

Please print (Press hard.)
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	(415) 533-0112	3938

5. Generator's Name and Mailing Address

DOD (DERP/FUDS) c/o CESPK-PPM-E
1325 J Street
Sacramento, CA 95814
Generator's Phone: (916) 494-2426 Tim Crummett

Generator's Site Address (if different than mailing address)

DOD (DERP/FUDS) c/o CESPK-PPM-E
401 Oak Tree Lane
Lincoln, CA 95648

6. Transporter 1 Company Name — U.S. EPA ID Number

Costera Waste & Environmental, Inc. — CAR000332239

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Potrero Hills Landfill
3675 Potrero Hills Ln
Suisun, CA 94585
Facility's Phone: (707) 432-4627
CAR000089466

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous, Non DOT Regulated, Waste, Liquid (Water)	007	DM	385	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

9.1 - Water - Profile # PH-25-94 7X55 Costera Job # 3938

Invoice Costera Waste & Environmental, Inc

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Carlos Acu — Signature — Month: 2 Day: 20 Year: 25

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Guillermo Ruiz — Signature — Month: 2 Day: 20 Year: 25

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

6 3171E3 = 1740

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N/A	1	(415) 533-0112	3938

GENERATOR

5. Generator's Name and Mailing Address
DOD (DERP/FUDS) c/o CESPK-PPM-E
1325 J Street
Sacramento, CA 95814
Generator's Phone: (916) 494-2426 Tim Crummett

Generator's Site Address (if different than mailing address)
DOD (DERP/FUDS) c/o CESPK-PPM-E
401 Oak Tree Lane
Lincoln, CA 95648

6. Transporter 1 Company Name: Costera Waste & Environmental, Inc.
U.S. EPA ID Number: CAR000332239

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Potrero Hills Landfill
3675 Potrero Hills Ln
Suisun, CA 94585
Facility's Phone: (707) 432-4627
U.S. EPA ID Number: CAR000089466

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-Hazardous, Non DOT Regulated, Waste, Solid (Soil)	010	DM	5000	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
9.1 - Soil - Profile # PH-25-95 10 X 55
Costera Job # 3938 -2

Invoice Costera Waste & Environmental, Inc

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Carlos Acu
Signature:
Month: 2 Day: 20 Year: 25

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Guillermo Ruiz
Signature:
Month: 2 Day: 20 Year: 25

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: 3 Day: 5 Year:

Printed in USA by GC Labels
1-800-997-6966

DESIGNATED FACILITY TO GENERATOR

Reorder Part# MANIFEST-C6NHW
913-897-6966

Waste Profile: 401 Oak Tree Lane - Water - PH Profile

Status: Created **Approval Number:** -

Generator Company

Company:	DOD (DERP/FUDS)
Address:	1325 J Street
City:	Sacramento
Postal Code:	95814
Phone:	(916) 336-8981
State/Province:	CA
County:	Sacramento

Generator Site

Site:	DOD (DERP/FUDS)
Address:	401 Oak Tree Lane
City:	Lincoln
Postal Code:	95648
Phone:	(916) 336-8981
State/Province:	CA
County:	Placer
EPA ID:	-

Waste Origin

Address:	401 Oak Tree Lane
City:	Lincoln
State/Province:	CA
Postal Code:	95648
County:	Placer

Landfill

Landfill:	Potrero Hills
Address:	3675 Potrero Hills Lane
City:	Suisun
State/Province:	CA
Postal Code:	94585
Phone:	

Billing Company

Company:	Costera Waste & Environmental, Inc.
Address:	14 El Vequero
City:	Rancho Santa Margarita
Postal Code:	92688
Phone:	4155330112
State/Province:	CA
County:	

Billing Site

Site:	Costera Waste & Environmental, Inc.
Address:	14 El Vaquero
City:	Rancho Santa Margarita
Postal Code:	92688
Phone:	4155330112
State/Province:	CA
County:	
EPA ID:	-

Non-Hazardous determination

1. EPA hazardous waste:	No
1a. Process knowledge:	-
1a. Safety data sheet:	No
1a. Certified analytical:	Yes
Is this a representative sample in accordance with 40 CFR 261?:	Yes
What type of sample is this?:	Composite
5. Produced from benzene transfer or benzene waste operations:	No
6. Waste contain NORM or TENORM radioactive material:	No
7. Waste contain regulated, untreated or infectious medical waste:	No
8. Is this waste generated from a large-quantity hazardous waste treatment, storage and disposal facility (TSDF)?:	No
9. Waste from a CERCLA site:	No

Sample ID:	IDW-Water_JUN24
1a. Exempt waste:	No
2. State hazardous material:	No
State waste codes:	
3. Contains PCB:	No
4. Contains Asbestos:	No
10. Waste produced from a site remediation project that produced hazardous air pollutants (HAPs):	No
11. DOT hazardous:	No

Waste Description

Waste Description:	Non-Hazardous, Non D.O.T. Regulated, Waste, Liquid (Water)
Industrial waste:	No
How was waste generated?:	Water was generated through boring & drilling activities during site investigation.
Why is this material being disposed?:	Voluntary site cleanup
Waste been contaminated:	Yes
Contamination description:	Volatile organic compounds (VOCs)
Waste constituents:	
Color:	Brown
Physical state:	Liquid
Free liquid range:	1.0 - 100.0
pH:	-
Odor:	No Odor
Odor description:	-
Material reactive:	No
Flash point:	N/A

Shipping details

Event frequency:	One Time
Anticipated number of loads:	1
Estimated annual quantity:	7
Unit of measure:	Drums
Shipping frequency:	One time
Quantity per shipment:	7 drums
Container type:	55 gallon drum
Container type description:	
Container size:	55 gallon drum

Signature

I hereby certify that all information contained herein is true and correct, and the material described is properly identified, classified, packaged, 'labeled, and prepared as indicated. I certify that this waste is either (i) not hazardous or dangerous as defined by the U.S. EPA, or the state or province of origin; or '(ii) (and applicable to TX only) hazardous, special or industrial waste (including friable asbestos) that meets the classification of Class II waste. I certify that this waste does not contain any regulated radioactive materials and does not contain PCB’s regulated by TSCA or any other regulatory authority. I certify that all known and suspected hazards have been disclosed. I certify that all samples used for this analysis are representative of the materials described herein. I understand that all wastes may undergo inspection upon arrival at the designated facility and may be refused if the delivered material does not conform to the description herein. Notification will be provided immediately if there is a change in the composition of, or process generating this waste stream, prior to offering the waste for shipment or management.

Print Name:

Certification signature:

Title:

Company:

Certified at:

Waste Profile: 401 Oak Tree Lane - Water - PH Profile

Status: Created **Approval Number:** -

Generator Company

Company:	DOD (DERP/FUDS)
Address:	1325 J Street
City:	Sacramento
Postal Code:	95814
Phone:	(916) 557-6942
State/Province:	CA
County:	Sacramento

Generator Site

Site:	DOD (DERP/FUDS)
Address:	401 Oak Tree Lane
City:	Lincoln
Postal Code:	95648
Phone:	(916) 557-6942
State/Province:	CA
County:	Placer
EPA ID:	-

Waste Origin

Address:	401 Oak Tree Lane
City:	Lincoln
State/Province:	CA
Postal Code:	95648
County:	Placer

Landfill

Landfill:	Potrero Hills
Address:	3675 Potrero Hills Lane
City:	Suisun
State/Province:	CA
Postal Code:	94585
Phone:	

Billing Company

Company:	Costera Waste & Environmental, Inc.
Address:	14 El Vequero
City:	Rancho Santa Margarita
Postal Code:	92688
Phone:	4155330112
State/Province:	CA
County:	

Billing Site

Site:	Costera Waste & Environmental, Inc.
Address:	14 El Vaquero
City:	Rancho Santa Margarita
Postal Code:	92688
Phone:	4155330112
State/Province:	CA
County:	
EPA ID:	-

Non-Hazardous determination

1. EPA hazardous waste:	No
1a. Process knowledge:	-
1a. Safety data sheet:	No
1a. Certified analytical:	Yes
Is this a representative sample in accordance with 40 CFR 261?:	Yes
What type of sample is this?:	Composite
5. Produced from benzene transfer or benzene waste operations:	No
6. Waste contain NORM or TENORM radioactive material:	No
7. Waste contain regulated, untreated or infectious medical waste:	No
8. Is this waste generated from a large-quantity hazardous waste treatment, storage and disposal facility (TSDF)?:	No
9. Waste from a CERCLA site:	No

Sample ID:	IDW-Water_JUN24
1a. Exempt waste:	No
2. State hazardous material:	No
State waste codes:	
3. Contains PCB:	No
4. Contains Asbestos:	No
10. Waste produced from a site remediation project that produced hazardous air pollutants (HAPs):	No
11. DOT hazardous:	No

Waste Description

Waste Description:	Non-Hazardous, Non D.O.T. Regulated, Waste, Liquid (Water)
Industrial waste:	No
How was waste generated?:	Water was generated through boring & drilling activities during site investigation.
Why is this material being disposed?:	Voluntary site cleanup
Waste been contaminated:	Yes
Contamination description:	Volatile organic compounds (VOCs)
Waste constituents:	
Color:	Brown
Physical state:	Liquid
Free liquid range:	1.0 - 100.0
pH:	-
Odor:	No Odor
Odor description:	-
Material reactive:	No
Flash point:	N/A

Shipping details

Event frequency:	One Time
Anticipated number of loads:	1
Estimated annual quantity:	7
Unit of measure:	Drums
Shipping frequency:	One time
Quantity per shipment:	7 drums
Container type:	55 gallon drum
Container type description:	
Container size:	55 gallon drum

Signature

I hereby certify that all information contained herein is true and correct, and the material described is properly identified, classified, packaged, 'labeled, and prepared as indicated. I certify that this waste is either (i) not hazardous or dangerous as defined by the U.S. EPA, or the state or province of origin; or '(ii) (and applicable to TX only) hazardous, special or industrial waste (including friable asbestos) that meets the classification of Class II waste. I certify that this waste does not contain any regulated radioactive materials and does not contain PCB’s regulated by TSCA or any other regulatory authority. I certify that all known and suspected hazards have been disclosed. I certify that all samples used for this analysis are representative of the materials described herein. I understand that all wastes may undergo inspection upon arrival at the designated facility and may be refused if the delivered material does not conform to the description herein. Notification will be provided immediately if there is a change in the composition of, or process generating this waste stream, prior to offering the waste for shipment or management.

Print Name:

Certification signature:

Title:

Company:

Certified at:

Waste Profile: 401 Oak Tree Lane - Soil - PH Profile

Status: Created **Approval Number:** -

Generator Company

Company:	DOD (DERP/FUDS)
Address:	1325 J Street
City:	Sacramento
Postal Code:	95814
Phone:	(916) 336-8981
State/Province:	CA
County:	Sacramento

Generator Site

Site:	DOD (DERP/FUDS)
Address:	401 Oak Tree Lane
City:	Lincoln
Postal Code:	95648
Phone:	(916) 336-8981
State/Province:	CA
County:	Placer
EPA ID:	-

Waste Origin

Address:	401 Oak Tree Lane
City:	Lincoln
State/Province:	CA
Postal Code:	95648
County:	Placer

Landfill

Landfill:	Potrero Hills
Address:	3675 Potrero Hills Lane
City:	Suisun
State/Province:	CA
Postal Code:	94585
Phone:	

Billing Company

Company:	Costera Waste & Environmental, Inc.
Address:	14 El Vequero
City:	Rancho Santa Margarita
Postal Code:	92688
Phone:	4155330112
State/Province:	CA
County:	

Billing Site

Site:	Costera Waste & Environmental, Inc.
Address:	14 El Vaquero
City:	Rancho Santa Margarita
Postal Code:	92688
Phone:	4155330112
State/Province:	CA
County:	
EPA ID:	-

Non-Hazardous determination

1. EPA hazardous waste:	No
1a. Process knowledge:	-
1a. Safety data sheet:	No
1a. Certified analytical:	Yes
Is this a representative sample in accordance with 40 CFR 261?:	Yes
What type of sample is this?:	Composite
5. Produced from benzene transfer or benzene waste operations:	No
6. Waste contain NORM or TENORM radioactive material:	No
7. Waste contain regulated, untreated or infectious medical waste:	No
8. Is this waste generated from a large-quantity hazardous waste treatment, storage and disposal facility (TSDF)?:	No
9. Waste from a CERCLA site:	No

Sample ID:	IDW-Soil_JUN24	**10. Waste produced from a site remediation project that produced hazardous air pollutants (HAPs):**	No
1a. Exempt waste:	No		
2. State hazardous material:	No	**11. DOT hazardous:**	No
State waste codes:			
3. Contains PCB:	No		
4. Contains Asbestos:	No		

Waste Description

Waste Description:	Non-Hazardous, Non D.O.T. Regulated, Waste, Solid (Soil)	**Physical state:**	Solid
Industrial waste:	No	**Free liquid range:**	-
How was waste generated?:	Soil was generated through boring & drilling activities during site investigation.	**pH:**	-
		Odor:	No Odor
Why is this material being disposed?:	Voluntary site cleanup	**Odor description:**	-
		Material reactive:	No
Waste been contaminated:	Yes	**Flash point:**	N/A
Contamination description:	Volatile organic compounds (VOCs)		
Waste constituents:			
Color:	Brown		

Shipping details

Event frequency:	One Time
Anticipated number of loads:	1
Estimated annual quantity:	10
Unit of measure:	Drums
Shipping frequency:	One time
Quantity per shipment:	10 drums
Container type:	55 gallon drum
Container type description:	
Container size:	55 gallon drum

Signature

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Print Name:

Certification signature:

Title:

Company:

Certified at:

Waste Profile: 401 Oak Tree Lane - Soil - PH Profile

Status: Created **Approval Number:** -

Generator Company

Company:	DOD (DERP/FUDS)
Address:	1325 J Street
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Postal Code:	95814
Phone:	(916) 557-6942
State/Province:	CA
County:	Sacramento

Generator Site

Site:	DOD (DERP/FUDS)
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Postal Code:	95648
Phone:	(916) 557-6942
State/Province:	CA
County:	Placer
EPA ID:	-

Waste Origin

Address:	401 Oak Tree Lane
City:	Lincoln
State/Province:	CA
Postal Code:	95648
County:	Placer

Landfill

Landfill:	Potrero Hills
Address:	3675 Potrero Hills Lane
City:	Suisun
State/Province:	CA
Postal Code:	94585
Phone:	

Billing Company

Company:	Costera Waste & Environmental, Inc.
Address:	14 El Vequero
City:	Rancho Santa Margarita
Postal Code:	92688
Phone:	4155330112
State/Province:	CA
County:	

Billing Site

Site:	Costera Waste & Environmental, Inc.
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City:	Rancho Santa Margarita
Postal Code:	92688
Phone:	4155330112
State/Province:	CA
County:	
EPA ID:	-

Non-Hazardous determination

1. EPA hazardous waste:	No
1a. Process knowledge:	-
1a. Safety data sheet:	No
1a. Certified analytical:	Yes
Is this a representative sample in accordance with 40 CFR 261?:	Yes
What type of sample is this?:	Composite
5. Produced from benzene transfer or benzene waste operations:	No
6. Waste contain NORM or TENORM radioactive material:	No
7. Waste contain regulated, untreated or infectious medical waste:	No
8. Is this waste generated from a large-quantity hazardous waste treatment, storage and disposal facility (TSDF)?:	No
9. Waste from a CERCLA site:	No

Sample ID:	IDW-Soil_JUN24	**10. Waste produced from a site remediation project that produced hazardous air pollutants (HAPs):**	No
1a. Exempt waste:	No		
2. State hazardous material:	No	**11. DOT hazardous:**	No
State waste codes:			
3. Contains PCB:	No		
4. Contains Asbestos:	No		

Waste Description

Waste Description:	Non-Hazardous, Non D.O.T. Regulated, Waste, Solid (Soil)	**Physical state:**	Solid
Industrial waste:	No	**Free liquid range:**	-
How was waste generated?:	Soil was generated through boring & drilling activities during site investigation.	**pH:**	-
		Odor:	No Odor
Why is this material being disposed?:	Voluntary site cleanup	**Odor description:**	-
		Material reactive:	No
Waste been contaminated:	Yes	**Flash point:**	N/A
Contamination description:	Volatile organic compounds (VOCs)		
Waste constituents:			
Color:	Brown		

Shipping details

Event frequency:	One Time
Anticipated number of loads:	1
Estimated annual quantity:	10
Unit of measure:	Drums
Shipping frequency:	One time
Quantity per shipment:	10 drums
Container type:	55 gallon drum
Container type description:	
Container size:	55 gallon drum

Signature

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Print Name:

Certification signature:

Title:

Company:

Certified at: