PHASE II ENVIRONMENTAL SITE ASSESSMENT

1400 BLOCK SOUTH HOYT AVENUE
MUNCIE, INDIANA 47302

SME Project Number: 089758.00.03B.005
July 17, 2024

Prepared for: East Central Indiana Regional Planning District Inc. Cooperative Agreement #: BF00E03229

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July 17, 2024

Mr. Bill Walters
East Central Indiana Regional Planning District
1208 West White River Boulevard, Suite 136
Muncie, Indiana 47404

Via E-Mail: bwalters@ecirpd.org

RE: Phase II Environmental Site Assessment Report
1400 Block South Hoyt Avenue
Muncie, Indiana 47302
SME Project No.: 089758.00.03B.005

Dear Mr. Walters:

SME has completed a Phase II Environmental Site Assessment (ESA) of the above referenced property, hereinafter referred to as the Property. The enclosed Phase II ESA report presents SME's interpretation of site conditions at the time the Phase II ESA was completed based on field observations and laboratory supplied data.

The Phase II ESA was requested to assess recorded and readily observable recognized environmental conditions associated with the Property. We understand the East Central Indiana Regional Planning District (ECI) will rely upon the professional opinions and representations contained in the report in accordance with the terms and conditions agreed upon for the project. This reliance is not to be construed as a warranty or guarantee on the part of SME.

Thank you for the opportunity to provide these services. If you have any questions concerning this report, or if additional services are required, please call.

Very truly yours,

SME

Mitchell D. Cline, LPG
Project Geologist

Robert B. Walker, LPG
Senior Consultant

Enclosure: Phase II Environmental Site Assessment Report Dated: July 17, 2024

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1. INTRODUCTION

SME's assessment team prepared this report to present the results of a Phase II Environmental Site Assessment (ESA) of the property located at 1400 Block of South Hoyt Avenue, Muncie, in Delaware County, Indiana (the Property). The Property location is shown on Figure 1. The assessment activities were funded by a United States Environmental Protection Agency (USEPA) Brownfield Assessment Coalition Grant (BF00E03229) for hazardous substances and petroleum products awarded to the East Central Indiana Regional Planning District, Inc. (ECI). ECI intends to support the redevelopment of the Brownfield site through use of USEPA assessment grant funds. We conducted the assessment in general accordance with the USEPA-approved Sampling and Analysis Plan (SAP), dated November 7, 2023, and Quality Assurance Project Plan (QAPP), submitted for EPA review and approval on April 7, 2023.

1.1 SITE DESCRIPTION AND BACKGROUND

The Property is a one-half acre vacant lot, located on the northeast corner of the intersection between South Hoyt Avenue and West 8th Street in Muncie, Indiana. The parcel (Parcel #18-11-16-411-017.000-003) has been identified with the address of 1400 Block South Hoyt Avenue, Muncie, Indiana.

Commercial developments adjoined the Property to the north, east, south, and west. A review of historical sources indicated the Property was improved by several residences in the western and southern portions of the Property from at least 1902 through the late 1960s. A small feed store was located in the southwestern corner of the Property from at least 1902 through 1911, and a gasoline filling station was located in the southwestern corner from at least 1936 through 1963. Additional commercial tenants at the Property from the 1930s through the 1970s included a liquor store, a cobbler, a health clinic, and a restaurant. The commercial development in the southwest and the majority of the residences were removed by the late 1960s.

Although previous environmental assessments completed at the property did not reveal the presence of USTs, it is unknown when the tanks were apparently removed. The presence of contamination has been confirmed through a previous environmental study conducted by the current and perspective owners. Specifically, groundwater contaminants of concern (CoCs) commonly associated with a release of gasoline (benzene, 4-chlorotoluene, ethylbenzene, 2-butanone, naphthalene, 1,2,4-trimethylbenzene, 1,2,3-trimethylbenzene, and 1,3,5-trimethylbenzene) were reported in the soil, groundwater, and/or soil vapor samples analyzed during the study.

1.2 PURPOSE

We designed the scope of this assessment to evaluate current site environmental conditions for the purpose of supporting environmental due diligence for the planned transfer and/or redevelopment of the Property.

We prepared this report to document the encountered subsurface conditions, soil, groundwater, and soil gas sampling procedures, results of soil, groundwater, and soil gas chemical analysis, and our conclusions and recommendations.

2. SCOPE OF ASSESSMENT

Seven soil borings (SB1 through SB7) and three soil gas ports (SG1 through SG3) were advanced in April 2024 to screen for environmental impairment. The soil borings were advanced to a maximum depth of 20 feet below ground surface (bgs). Soil samples were collected for visual classification, field screening for evidence of contamination, and/or chemical analyses. A temporary monitoring well was installed within each of the soil borings, and groundwater samples were collected from each temporary monitoring well. The sampling locations are shown on Figure 2, while the rationale for each sample location is provided in the USEPA-approved SAP. All samples were collected in general accordance with the SAP.

Laboratory analytical results for the soil, groundwater, and soil gas samples collected during this assessment are presented in Tables 1, 2, and 3, respectively.

The chemicals-of-concern for the assessment included volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and metals including arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. The analytical parameters were selected based on the former operations at the Property and surrounding area.

3. PROCEDURES

We completed the soil borings, installed temporary groundwater monitoring wells, installed soil vapor ports, and collected soil, groundwater, and soil gas samples at the Property between April 26 and April 29, 2024. Summaries of our procedures for the soil borings, sampling activities, temporary groundwater monitoring well and soil gas port installation and sampling, decontamination, and chemical analyses are provided in the following subsections. Copies of our operating procedures are available in the USEPA-approved QAPP and upon request.

3.1 SOIL SAMPLING

Each of the soil borings (SB1 though SB7) were advanced using hydraulically driven, direct-push coring equipment with clean, disposable four-foot vinyl acetate sample liners. The soil in each sample core was visually evaluated, and representative samples were collected for visual classification in general accordance with the Unified Soil Classification System (USCS). A portion of each soil sample was used for field screening of ionizable vapors using a calibrated photoionization detector (PID) equipped with a 10.6 eV lamp. Field screening consisted of placing a portion of the sample in a sealed plastic bag for headspace analysis for the emission of ionizable vapors. The tip of the PID was inserted in the headspace of the bag, and PID readings were recorded on our soil boring logs. Detailed information regarding the soil conditions encountered at each boring is documented on the soil boring logs in Appendix A.

The amount of soil retained at each sampling location was dependent on chemical analyses requirements and soil recovery. First, soil samples intended for VOC laboratory analyses were removed from the sample liner and placed in methanol-preserved, unpreserved, and deionized water-preserved 40-milliliter (mL) glass vials following USEPA Method 5035A (Indiana Modified). Soil volumes sufficient for analyses of additional parameters (PAHs and metals) were then removed from the sample liner, transferred to pre-cleaned, 4-ounce, glass jars provided by the analytical laboratory.

Residual soil cuttings from the drilling activities were placed in a 55-gallon drum that is staged on-site pending off-site disposal.

3.2 GROUNDWATER SAMPLING

We installed temporary groundwater monitoring wells in each of the seven soil borings. Each of the temporary groundwater monitoring wells was constructed of a 5 or 10-foot long, 1-inch diameter, and 0.010-inch slotted PVC screen attached to 1-inch diameter PVC riser. Groundwater was encountered on the Property between 9.4 and 11 feet bgs during groundwater sampling activities, and each well was installed such that the screen intersected the water table as encountered during drilling.

After gauging the depth to water and total well depth, groundwater sampling was conducted via low-flow procedures from each of the temporary monitoring wells, which included recording the water level within the monitoring well for drawdown, and monitoring the groundwater quality parameters (e.g., pH, temperature, specific conductivity, dissolved oxygen (DO), oxygen reduction potential (ORP), and turbidity). The Groundwater Monitoring Logs are included in Appendix B.

The groundwater samples intended for laboratory analysis was transferred into one or more of the following laboratory-supplied containers: 40-mL glass vials preserved with hydrochloric acid (VOC analysis); 40-mL unpreserved glass amber vials (PAH analysis); 250-mL nitric acid preserved plastic containers (metals analysis); and/or 250-mL unpreserved plastic containers (dissolved metals analysis). After purging and sampling, the extracted water was placed into a 55-gallon drum that was staged on-site pending off-site disposal. The temporary wells are scheduled to be abandoned by an Indiana Licensed Water Well driller, who will remove the well materials, backfill the borings to near the ground surface with hydrated bentonite, and patch the ground surface with like materials.

3.3 SOIL GAS SAMPLING

Three soil gas ports (SG1 through SG3) were installed in accordance with the Indiana Department of Environmental Management (IDEM) Risk-Based Closure Guide (R2) Section 2.2.6.2. Specifically, a Geoprobe® drill rig was used to advance 1.25-inch diameter borings to a depth of approximately 6 feet bgs at which depth a soil gas port was installed. The soil gas ports were constructed of a 6-inch double woven stainless-steel wire screen. A length of Teflon-lined polyethylene tubing sufficient to reach the surface was connected to the stainless-steel wire screen and a sand pack was placed around each soil gas point with no more than six inches of sand extending above the screening interval. The remainder of the soil gas boring was filled with hydrated bentonite chips to a depth of three inches bgs. The soil gas logs are provided as Appendix C.

After installation of the soil gas ports, one soil gas sample was collected per port (with the exception of a duplicate soil gas sample simultaneously collected at SG1). Soil gas samples were collected using 1-Liter, individually-certified clean, deactivated stainless steel SUMMA canisters provided by the analytical laboratory. The samples were collected through a sampling train consisting of 1/4-inch OD stainless steel Swagelok® fittings and nylon tubing, which connected each soil gas point to a nylon three-way valve, which then connected to the sampling containers. Each canister was fitted with an in-line flow controller assembled to the canister. The analytical laboratory set the critical-flow orifice sizes to achieve flow rates of approximately 200 milliliters per minute (mL/min). After connecting the sampling train to each sampling port, and prior to collecting a soil gas sample, the sampling train was manually purged by drawing subsurface air through the sampling train via a purge line connected to a syringe. After purging three sample train volumes, the three-way valve was turned to begin sample collection. Sample collection was discontinued once the container was filled to a partial capacity of approximately 80 to 90 percent (final pressure of between -3.0 and -7.0 inches of mercury indicated on the pressure gauge).

3.4 SAMPLING QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC)

3.4.1 FIELD QA

SME's field representative wore a new pair of disposable nitrile sampling gloves during collection of each sample to minimize cross-contamination. We decontaminated other soil sampling equipment with a laboratory grade detergent and distilled water wash and rinsed equipment with distilled water before each use. New, pre-cleaned well materials and tubing were used for the collection of the groundwater samples. New screens and Teflon tubing was used for the construction of the soil gas wells and collection of the soil gas samples.

Pace Analytical Laboratory (Pace) supplied the pre-cleaned containers used for sample collection. After sample collection, the containerized soil and groundwater samples were kept cool (i.e., kept on ice or refrigerated) until delivery to the analytical laboratory. SME's field representative followed chain-of-custody procedures to document the sample handling sequence. Field instrument calibration, sample handling and custody requirements, and QA/QC procedures were consistent with those described in our SOPs.

3.4.2 FIELD QC

We collected sufficient soil volume to allow the laboratory to prepare and analyze matrix spike and matrix spike duplicate samples (MS/MSD) to evaluate analyte recovery and precision in the sample matrix. We collected field duplicate soil, groundwater, and soil gas samples to evaluate matrix homogeneity and the precision of sampling activities. We also included one aqueous and one methanol blank to evaluate potential contaminants in the laboratory-provided methanol and to evaluate the potential for cross-contamination during sample storage and transport to the laboratory.

3.5 CHEMICAL ANALYSES

We submitted 16 soil, nine groundwater, and four soil gas samples including the appropriate duplicate and MS/MSD samples. The samples were submitted to Pace Analytical Services (Pace) of Indianapolis, Indiana (soil and groundwater) and Pace of Mount Juliet, Tennessee (soil gas), which analyzed the samples using the reference methods listed below:

- VOCs – U.S. EPA Method 8260 (soil and groundwater), U.S. EPA TO-15 (soil gas)
- PAHs – U.S. EPA Method 8270 (soil and groundwater)
- Metals - U.S. EPA Method U.S. EPA Method 6010 and 7470 (soil and groundwater)

4. RESULTS

The surface and subsurface conditions encountered during soil boring activities and the results of chemical analyses are described in the following subsections.

4.1 SURFACE AND SUBSURFACE CONDITIONS

The soil was visually classified in general accordance with the Unified Soil Classification System (USCS). Detailed information regarding the soil conditions encountered at each boring is documented in soil boring logs, provided in Appendix A. The surface and subsurface conditions encountered are summarized below.

The surface of the soil borings generally consisted of fill or topsoil. The surface was generally underlain by layers of fill, native lean clay with sand, and fine to coarse grained sand to the maximum investigated depth of 20 feet bgs. Fill material comprised of fine to coarse clayey sand containing coal ash, brick fragments, slag, and glass was encountered in soil borings SB1 through SB6 to a maximum approximate depth of 3.5 feet bgs. Black staining was noted from approximately 11 to 12 feet bgs in soil boring SB5. A strong petroleum odor was also noted in soil boring SB5 from approximately 9 to 12 feet bgs. No odors or staining were observed during advancement of the other soil borings.

During drilling activities, groundwater was encountered between approximately 9.4 and 11 feet bgs. The saturated zone observed during drilling generally consisted of fine-to-coarse grained sand or sandy lean clay. No odors or sheens were noted on the groundwater samples collected from the temporary monitoring wells.

SME surveyed the top of casing (TOC) elevation of each temporary monitoring well location and a potentiometric surface map was generated using Surfer® software. Based on the potentiometric surface map depicted on Figure 3, the hydraulic gradient at the Property exhibits a slight southern gradient with marked groundwater mounding in the vicinity of the suspected former UST tank pit.

4.2 RESULTS OF CHEMICAL ANALYSES

Results of chemical analyses performed on soil, groundwater, and soil gas samples collected by SME are summarized in the following paragraphs and tabulated in Tables 1, 2, and 3, respectively. Results of soil chemical analyses were compared to the 2024 IDEM R2 Residential, Commercial, and Excavation Worker Direct Contact Published Levels. Results of groundwater chemical analyses were compared to IDEM R2 Residential Published Levels. Results of the soil gas chemical analyses were compared to IDEM R2 Deep Exterior Residential, Commercial, and Large Commercial Published Levels. Laboratory analysis reports are included in Appendix D.

4.2.1 SOIL SAMPLE ANALYSIS

Various CoCs were measured in the soil samples at concentrations that exceeded their respective IDEM R2 Residential Published Levels. Concentrations of CoCs identified above an IDEM R2 Residential Published Level are illustrated on Figure 4.

Concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3cd)pyrene were measured above one or more of the IDEM R2 Published Levels in the soil sample collected from the surface interval in SB6 (0'-2'). Arsenic was also measured in concentrations above the IDEM R2 Published Levels for Direct Contact Residential in the surface soil samples collected from SB1 (0'-2') and SB6 (0'-2'). No other target analytes were measured at concentrations that exceeded IDEM R2 Published Levels in the soil samples collected.

4.2.2 GROUNDWATER SAMPLE ANALYSES

Various CoCs were measured in the groundwater samples at concentrations that exceeded their respective IDEM R2 Residential Published Levels. Concentrations of CoCs identified above an IDEM R2 Residential Published Level are illustrated on Figure 5.

Concentrations of benzene, naphthalene, and 1-methylnaphthalene were measured above the IDEM R2 Residential Published Levels in the groundwater sample and the associated duplicate collected from temporary monitoring well installed in SB5. Arsenic, chromium, and lead were measured in concentrations that exceeded the IDEM R2 Residential Published Level in the groundwater sample collected from the temporary monitoring well installed in SB7. No other target analytes were measured in concentrations that exceeded IDEM R2 Published Levels in the groundwater samples collected.

4.2.3 SOIL GAS SAMPLE ANALYSES

Soil gas samples that identified concentrations of CoCs above IDEM R2 Deep Exterior Residential, Commercial, and Large Commercial Published Levels are illustrated on Figure 6.

Concentrations of tetrachloroethene were identified above the IDEM R2 Deep Exterior Residential Published Level in soil gas samples SG2, SG3, and the duplicate collected from SG1. No other target analytes were measured in concentrations that exceeded IDEM R2 Published Levels in soil gas samples collected.

5. CONCLUSIONS

We conducted a Phase II ESA of the property located at 1400 Block of South Hoyt Avenue, Muncie, in Delaware County, Indiana. We designed the scope of the Phase II ESA to evaluate the potential presence of contamination on the Property associated with the former uses of the Property and surrounding area.

The analytical results of the soil samples collected identified concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3cd)pyrene measured above one or more of the IDEM R2 Published Levels in the soil sample collected from the surface interval in SB6 (0'-2'). Arsenic was also measured in concentrations above the IDEM R2 Published Levels for Direct Contact Residential in the surface soil samples collected from SB1 (0'-2') and SB6 (0'-2'). The presence of these COCs may be explained by the presence of coal ash and asphalt in the shallow fill material.

The analytical results of the groundwater samples collected identified concentrations of benzene, naphthalene, and 1-methylnaphthalene were measured above the IDEM R2 Residential Published Levels in the groundwater sample and the associated duplicate collected from temporary monitoring well installed in SB5. Arsenic, chromium, and lead were measured at concentrations that exceeded the IDEM R2 Residential Published Level in the groundwater sample collected from the temporary monitoring well installed in SB7; however, the presence of metals in the groundwater sample is likely the result of naturally occurring suspended solids (turbidity), and not indicative of a release of contaminants from an anthropogenic source.

The analytical results of the soil gas samples collected identified concentrations of tetrachloroethene above the IDEM R2 Deep Exterior Residential Published Level in the soil gas samples SG2, SG3, and the duplicate collected from SG1. This VOC is commonly associated with dry cleaning facilities and degreasing operations.

Based on the analytical results of the soil, groundwater, and soil gas samples collected during this assessment and the proposed redevelopment plan for the Property as a greenspace/art installation, the identified CoC concentrations pose a limited risk to receptors and do not appear to necessitate mitigation efforts at this time. However, if the redevelopment plan were to change and habitable structures were instead proposed to be constructed on the Property, additional investigation to further evaluate the nature and extent of the CoCs identified may be warranted to ensure appropriate mitigation steps are instituted.

The conclusions in this report are based on visual observations and results of chemical analyses of samples collected from the specified areas of assessment only. Should additional surface, subsurface, or chemical data become available after the date of issue of this report, the conclusions contained in this report may require modification after we have reviewed the additional information. Our review of additional information would be conducted upon receipt of a request from the client.

In the process of obtaining information in preparation of this report, procedures were followed that represent reasonable practices and principles in a manner consistent with that level of care and skill ordinarily exercised by members of this profession currently practicing under similar conditions.

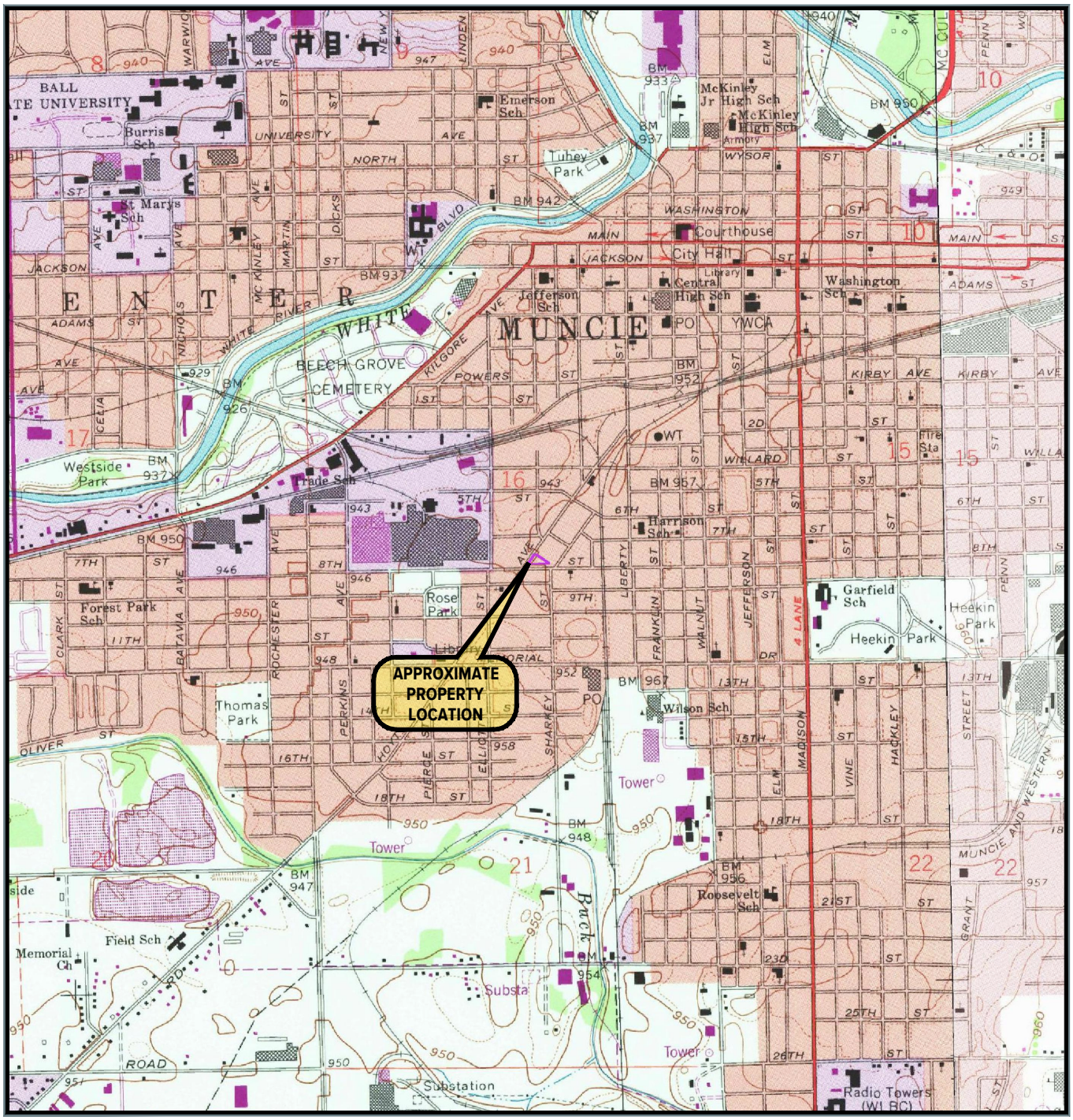
REPORT PREPARED BY:

Amanda McCarty
Staff Geologist

REPORT REVIEWED BY:

Robert Walker, LPG
Senior Consultant

FIGURES



Base map obtained from ERIS®

USGS QUADRANGLE(s) REFERENCED

MUNCIE WEST (IN) 1995
MUNCIE EAST (IN) 1981

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SCALE: 1" = 2000'

No.	Revision Date	Date	6-3-2023
		Drawn By	MNR
		Designed By	SPZ
		Scale	1" = 2000'
		Project	089758.00.03B.005

PROPERTY LOCATION MAP
HABITAT FOR HUMANITY
1400 BLOCK OF SOUTH HOYT AVENUE
MUNCIE, INDIANA

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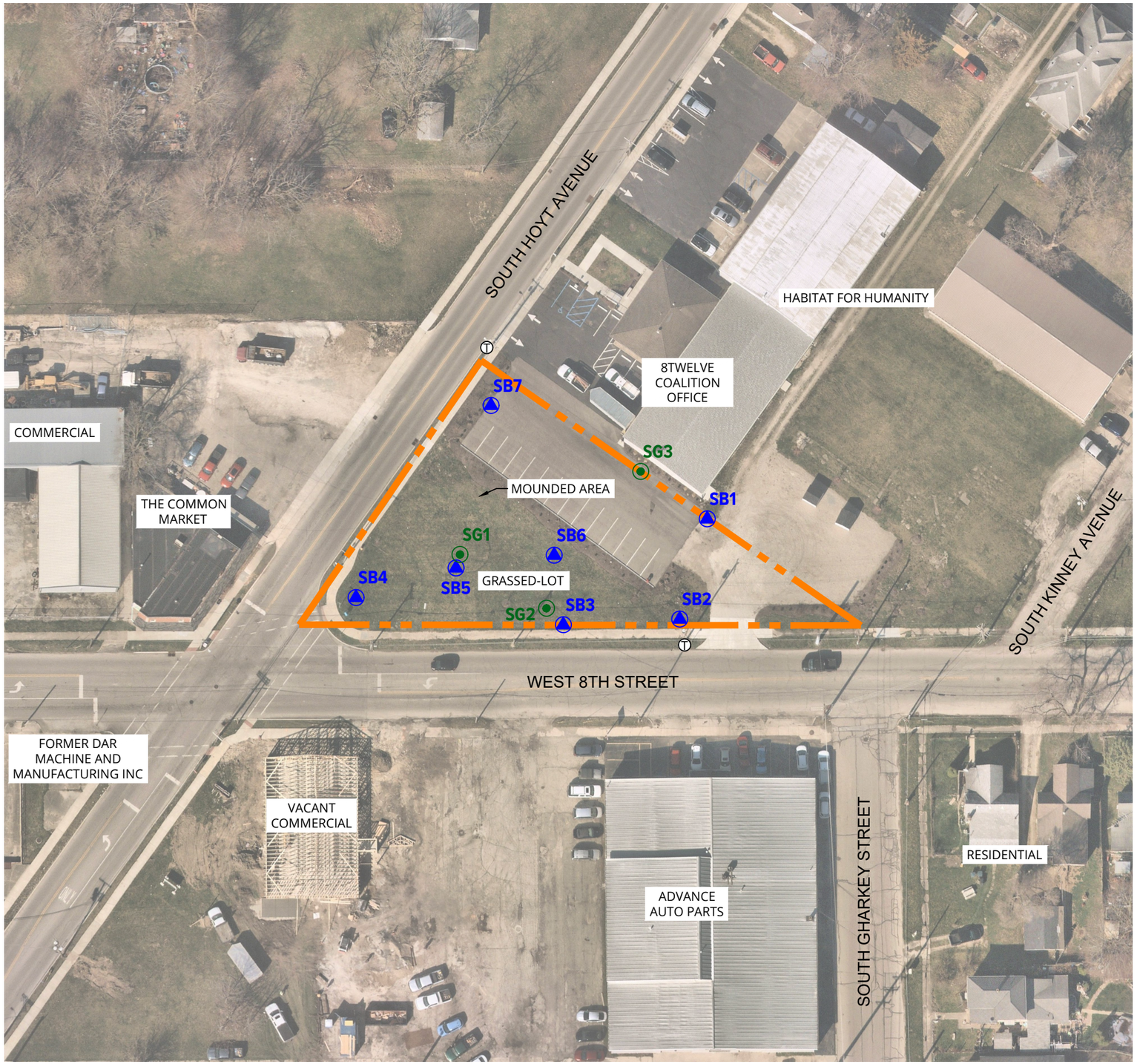
Figure No. 1

Nov 08, 2023 - 1:44pm - matt.nowakrochford \\sme-inc\pz\WIP\089758.00\CAD\Design Files\ENV\089758.00.03A.006\Rev0\089758.00.03A.006-Phase 1.dwg



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0' 60' 120'

GRAPHIC SCALE: 1" = 60'

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- Ⓣ APPROXIMATE LOCATION OF POLE-MOUNTED TRANSFORMER
- APPROXIMATE SOIL BORING LOCATION WITH TEMPORARY MONITORING WELL
- APPROXIMATE SOIL GAS SAMPLE LOCATION

NOTE:
1. AERIAL IMAGE TAKEN FROM NEARMAP WITH AN IMAGE DATE OF 3-12-2024 AND SITE RECONNAISSANCE.

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Project
1400 BLK S HOYT PHASE II

Project Location
1400 BLOCK OF SOUTH HOYT AVENUE MUNCIE, INDIANA

Sheet Name
PROPERTY FEATURES AND SAMPLE LOCATION DIAGRAM

No.	Revision Date

Date 6-3-2024
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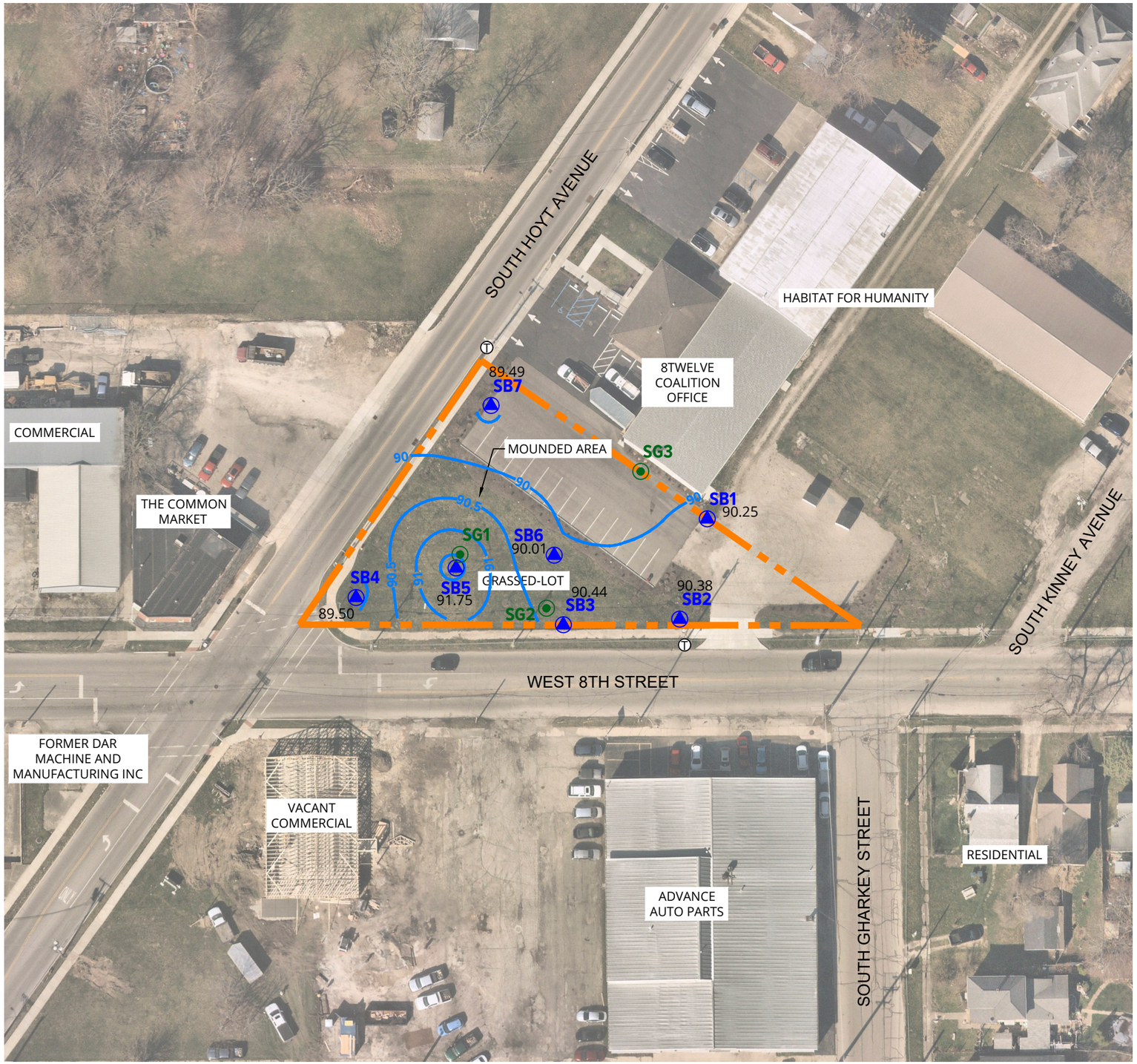
Figure No. 2



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0' 60' 120'

GRAPHIC SCALE: 1" = 60'

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- Ⓣ APPROXIMATE LOCATION OF POLE-MOUNTED TRANSFORMER
- APPROXIMATE SOIL BORING LOCATION WITH TEMPORARY MONITORING WELL
- APPROXIMATE SOIL GAS SAMPLE LOCATION
- 90.00 STATIC GROUNDWATER SURFACE ELEVATION
- GROUNDWATER CONTOUR ELEVATION = 0.5 FEET

NOTE:
1. AERIAL IMAGE TAKEN FROM NEARMAP WITH AN IMAGE DATE OF 3-12-2024 AND SITE RECONNAISSANCE.

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POTENTIOMETRIC SURFACE MAP

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Date 6-3-2024
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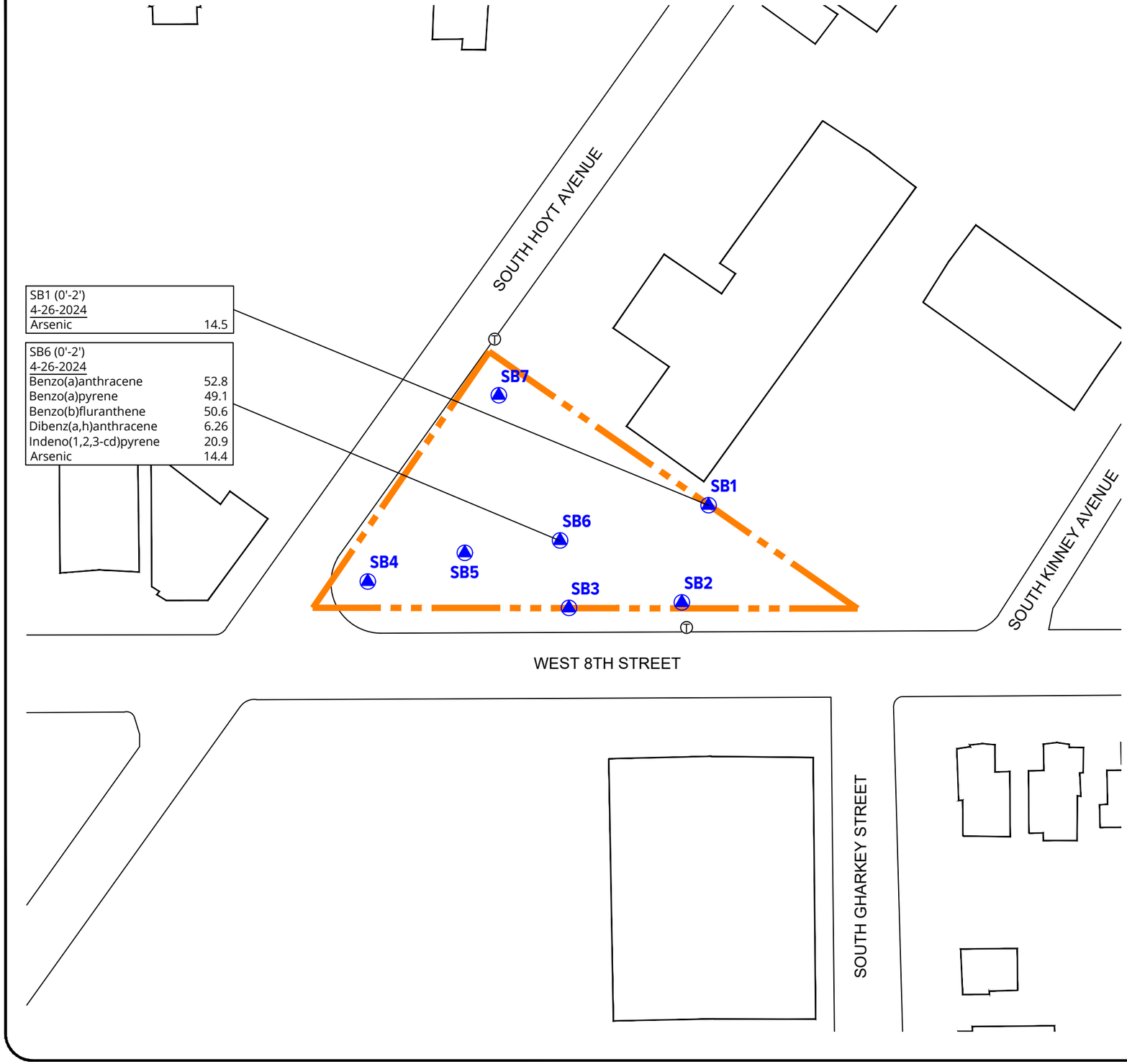
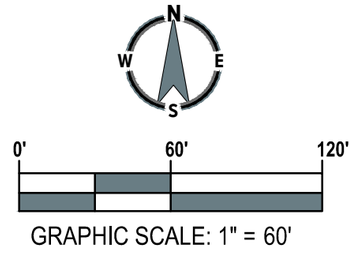
Figure No. 3





LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE LOCATION OF POLE-MOUNTED TRANSFORMER
- APPROXIMATE SOIL BORING LOCATION WITH TEMPORARY MONITORING WELL

NOTES:

1. AERIAL IMAGE TAKEN FROM NEARMAP WITH AN IMAGE DATE OF 3-12-2024 AND SITE RECONNAISSANCE.
2. CONCENTRATIONS REPORTED IN MILLIGRAMS PER KILOGRAM (μg/kg) AND EXCEED INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM) REMEDIATION CLOSURE GUIDE (RCG) RESIDENTIAL, COMMERCIAL/INDUSTRIAL, AND/OR EXCAVATION WORKER DIRECT CONTACT SCREENING LEVELS.

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1400 BLK S HOYT PHASE II

Project Location
1400 BLOCK OF SOUTH HOYT AVENUE MUNCIE, INDIANA

Sheet Name
SOIL ANALYTICAL RESULTS DIAGRAM

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Date 6-3-2024
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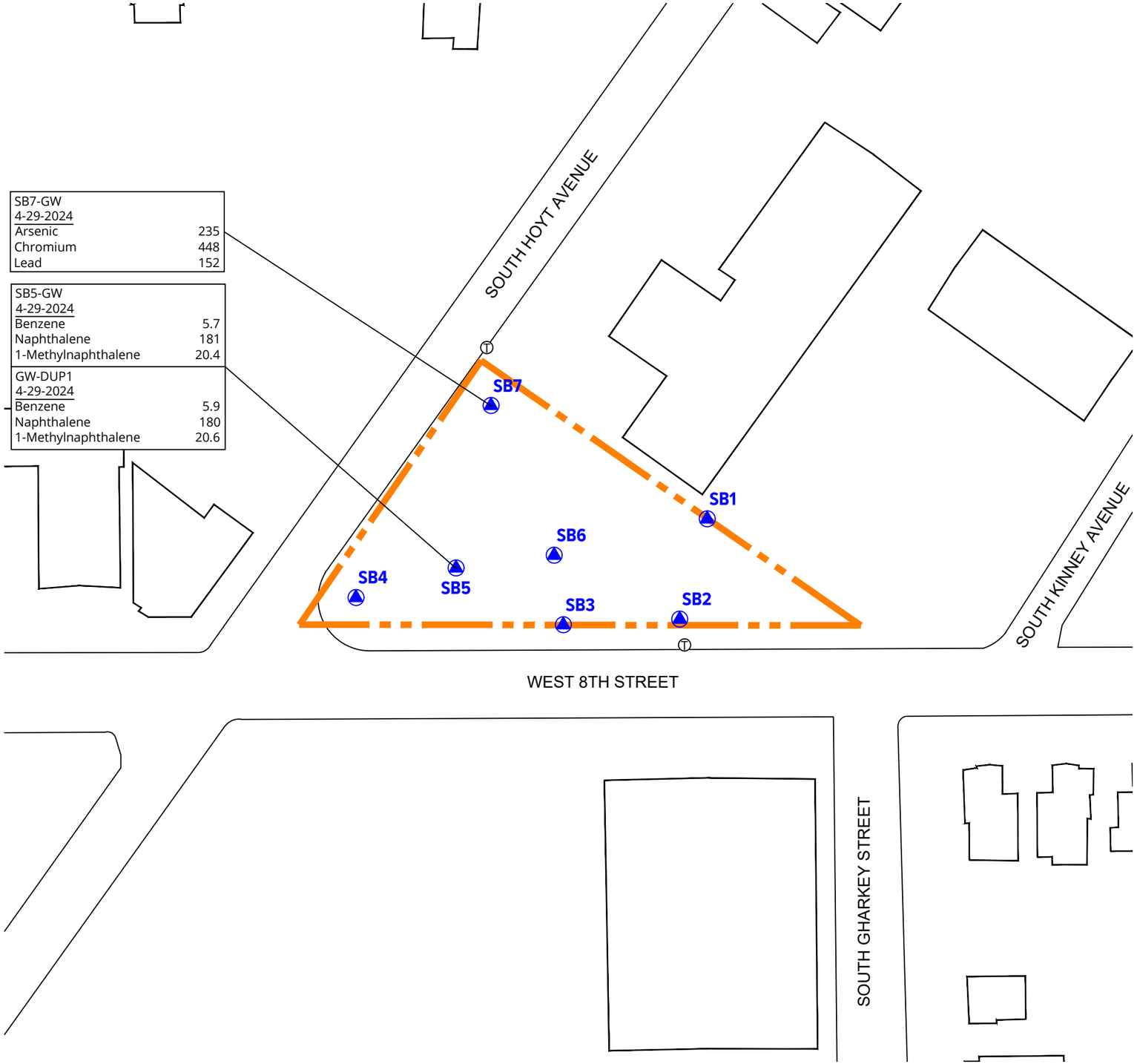
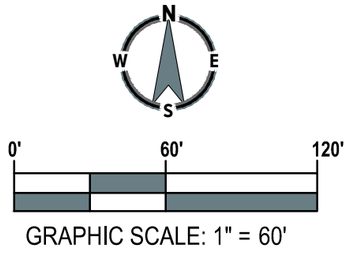
Figure No. 4





LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE LOCATION OF POLE-MOUNTED TRANSFORMER
- APPROXIMATE SOIL BORING LOCATION WITH TEMPORARY MONITORING WELL

NOTES:
1. AERIAL IMAGE TAKEN FROM NEARMAP WITH AN IMAGE DATE OF 3-12-2024 AND SITE RECONNAISSANCE.
2. CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (µg/L) AND EXCEED INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM) REMEDIATION CLOSURE GUIDE (RCG) RESIDENTIAL TAP, RESIDENTIAL VAPOR EXPOSURE, OR COMMERCIAL VAPOR EXPOSURE SCREENING LEVELS.

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Sheet Name
GROUNDWATER ANALYTICAL RESULTS DIAGRAM

No.	Revision Date

Date 6-3-2024
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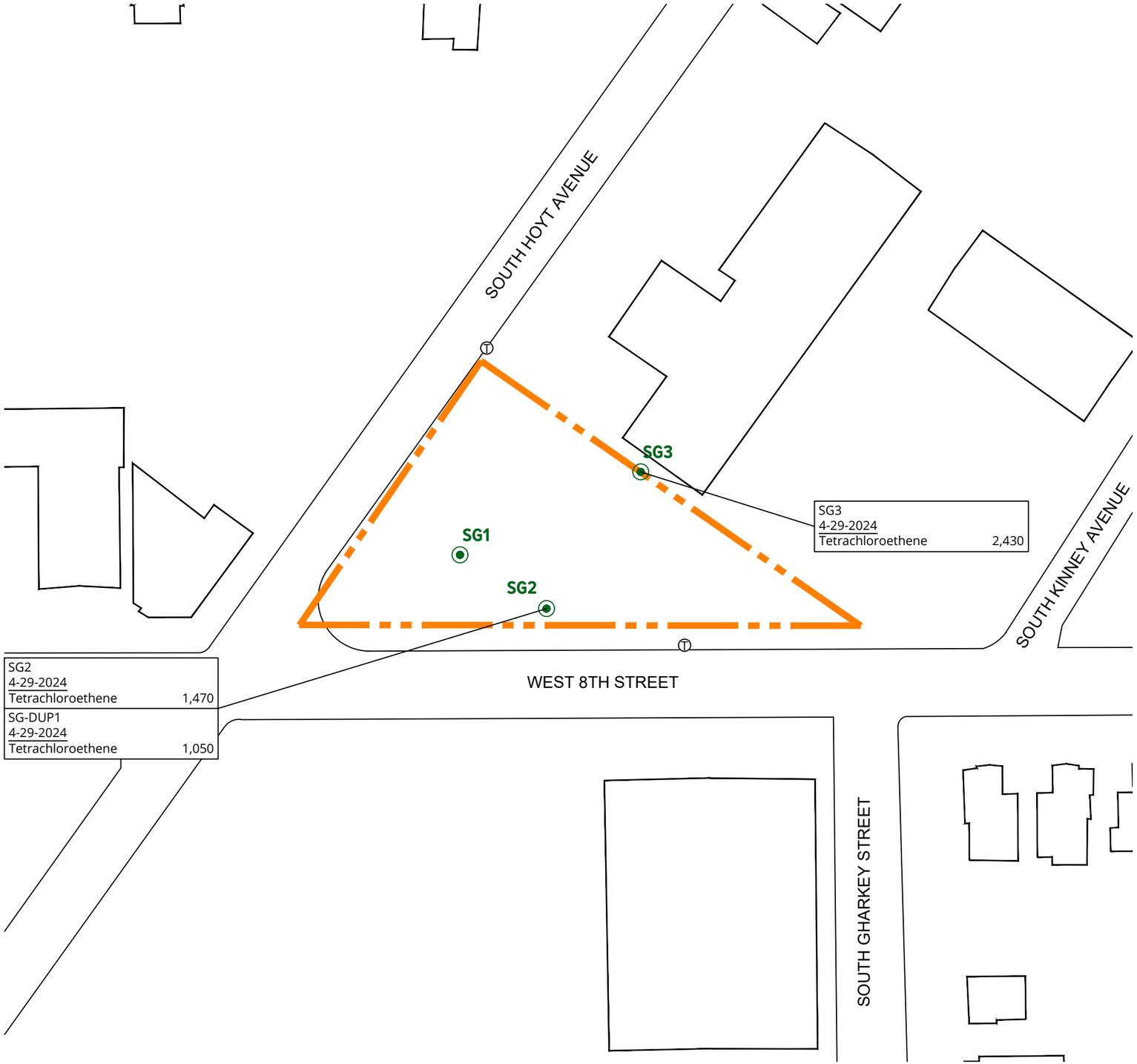
Figure No. 5



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0' 60' 120'

GRAPHIC SCALE: 1" = 60'

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- Ⓣ APPROXIMATE LOCATION OF POLE-MOUNTED TRANSFORMER
- APPROXIMATE SOIL GAS SAMPLE LOCATION

NOTES:
1. AERIAL IMAGE TAKEN FROM NEARMAP WITH AN IMAGE DATE OF 3-12-2024 AND SITE RECONNAISSANCE.
2. CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER CUBIC METER (μg/m³) AND EXCEED INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM) REMEDIATION CLOSURE GUIDE (RCG) CALCULATED RESIDENTIAL SOIL GAS SCREENING LEVELS.

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SOIL GAS ANALYTICAL RESULTS DIAGRAM

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Figure No. 6

TABLES

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
1400 BLOCK OF SOUTH HOYT
MUNCIE, INDIANA
SME PROJECT NO.: 089758.00.03B.005

Constituent		Published Levels						Chemical Analysis Results Sample Identification Depth (Feet) Date Collected Environmental Concern											
		Longterm				Short Term		SB1	SB1	SB2	SB2	SB3	SB3	SB4	SB4	SB5	SB5	S-DUP1	SB6	SB6	SB7	SB7
		Direct Contact Residential		Direct Contact Commercial / Industrial		Direct Contact Excavation		0' - 2'	11' - 13'	0' - 2'	13' - 15'	0' - 2'	8.5' - 10.5'	0' - 2'	13' - 15'	0' - 2'	9' - 11'	0' - 2'	0' - 2'	7' - 9'	0' - 2'	7' - 9'
								4/26/2024	4/26/2024	4/26/2024	4/26/2024	4/26/2024	4/26/2024	4/26/2024	4/26/2024	4/26/2024	4/26/2024	4/26/2024	4/26/2024	4/26/2024	4/26/2024	4/26/2024
VOCs																						
Ethylbenzene	100-41-4	NE		NE		500	S	<0.0063	<0.0047	<0.0053	<0.0056	<0.0050	<0.0061	<0.0050	<0.0038	<0.0048	**5.88**	<4.76	<0.0056	<0.0056	<0.0049	<0.0052
Isopropylbenzene (Cumene)	98-82-8	NE		NE		300	S	<0.0063	<0.0047	<0.0053	<0.0056	<0.0050	<0.0061	<0.0050	<0.0038	<0.0048	**6.17**	<4.76	<0.0056	<0.0056	<0.0049	<0.0052
Naphthalene	91-20-3	30	C	90	C	3,000	N	<0.0063	<0.0047	<0.0053	<0.0056	<0.0050	<0.0061	<0.0050	<0.0038	<0.0048	**13.7**	**7.82**	<0.0056	<0.0056	<0.0049	<0.0052
n-Butylbenzene	104-51-8	NE		NE		100	S	<0.0063	<0.0047	<0.0053	<0.0056	<0.0050	<0.0061	<0.0050	<0.0038	<0.0048	**9.87**	<4.76	<0.0056	<0.0056	<0.0049	<0.0052
n-Hexane	110-54-3	NE		NE		100	S	<0.0063	<0.0047	<0.0047	<0.0056	<0.0050	**0.0214**	<0.0050	<0.0038	<0.0048	**11.2**	<4.76	<0.0056	<0.0056	<0.0049	<0.0052
n-Propylbenzene	103-65-1	NE		NE		300	S	<0.0063	<0.0047	<0.0053	<0.0056	<0.0050	<0.0061	<0.0050	<0.0038	<0.0048	**19.9**	**7**	<0.0056	<0.0056	<0.0049	<0.0052
Other VOCs	CS	CS		CS		CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL
PAHs																						
1-Methylnaphthalene	90-12-0	300	C	400	S	400	S	**1.42**	<0.0058	**0.0087**	<0.0052	**0.0075**	<0.0050	**0.0439**	<0.0052	**0.0178**	**2.57**	**1.34**	**11.5**	<0.0053	<0.0059	<0.0059
2-Methylnaphthalene	91-57-6	300	N	3,000	N	7,000	N	**1.92**	<0.0058	**0.0102**	<0.0052	**0.0092**	<0.0050	**0.059**	<0.0052	**0.0273**	**5.57**	**2.9**	**14.8**	<0.0053	<0.0059	<0.0059
Acenaphthene	83-32-9	5,000	N	50,000	N	100,000	L	**0.0406**	<0.0058	<0.0055	<0.0052	<0.0056	<0.0050	<0.0052	<0.0052	<0.0053	**0.0212**	**0.0086**	**24.9**	<0.0053	<0.0059	<0.0059
Acenaphthylene	208-96-8	NE		NE		NE		**0.206**	<0.0058	<0.0055	<0.0052	<0.0056	<0.0050	<0.0052	<0.0052	**0.0055**	**0.0086**	<0.0056	**1.39**	<0.0053	<0.0059	<0.0059
Anthracene	120-12-7	30,000	N	100,000	L	100,000	L	**0.169**	<0.0058	<0.0055	<0.0052	<0.0056	<0.0050	<0.0052	<0.0052	**0.0087**	<0.0057	<0.0056	**44.9**	<0.0053	<0.0059	<0.0059
Benzo(a)anthracene	56-55-3	20	C	200	C	10,000	C	**0.664**	<0.0058	**0.0101**	<0.0052	**0.0117**	<0.0050	**0.0155**	<0.0052	**0.047**	<0.0057	<0.0056	**52.8**	<0.0053	<0.0059	<0.0059
Benzo(a)pyrene	50-32-8	2	C	20	C	500	N	**0.582**	<0.0058	**0.0112**	<0.0052	**0.015**	<0.0050	**0.0164**	<0.0052	**0.0597**	<0.0057	<0.0056	**49.1**	<0.0053	<0.0059	<0.0059
Benzo(b)fluoranthene	205-99-2	20	C	200	C	10,000	C	**0.766**	<0.0058	**0.0164**	<0.0052	**0.0205**	<0.0050	**0.0217**	<0.0052	**0.081**	<0.0057	<0.0056	**50.6**	<0.0053	<0.0059	<0.0059
Benzo(g,h,i)perylene	191-24-2	NE		NE		NE		**0.321**	<0.0058	**0.0083**	<0.0052	**0.01**	<0.0050	**0.0107**	**0.0056**	**0.0425**	<0.0057	<0.0056	**22**	<0.0053	<0.0059	<0.0059
Benzo(k)fluoranthene	207-08-9	200	C	2,000	C	100,000	L	**0.264**	<0.0058	<0.0055	<0.0052	**0.0071**	<0.0050	**0.0076**	<0.0052	**0.0308**	<0.0057	<0.0056	**24.3**	<0.0053	<0.0059	<0.0059
Chrysene	218-01-9	2,000	C	20,000	C	100,000	L	**0.65**	**0.0081**	**0.0119**	**0.008**	**0.0133**	<0.0050	**0.0174**	**0.0066**	**0.0556**	<0.0057	<0.0056	**44.8**	<0.0053	<0.0059	<0.0059
Dibenz(a,h)anthracene	53-70-3	2	C	20	C	1,000	C	**0.102**	<0.0058	<0.0055	<0.0052	<0.0056	<0.0050	<0.0052	<0.0052	**0.0106**	<0.0057	<0.0056	**6.26**	<0.0053	<0.0059	<0.0059
Fluoranthene	206-44-0	3,000	N	30,000	N	70,000	N	**1.22**	<0.0058	**0.0172**	<0.0052	**0.0205**	<0.0050	**0.0253**	<0.0052	**0.104**	<0.0057	<0.0056	**143**	<0.0053	<0.0059	<0.0059
Fluorene	86-73-7	3,000	N	30,000	N	70,000	N	**0.0766**	<0.0058	<0.0055	<0.0052	<0.0056	<0.0050	<0.0052	<0.0052	<0.0053	**0.0215**	**0.0114**	**26.4**	<0.0053	<0.0059	<0.0059
Indeno(1,2,3-cd)pyrene	193-39-5	20	C	200	C	10,000	C	**0.267**	<0.0058	**0.0067**	<0.0052	**0.0091**	<0.0050	**0.0085**	<0.0052	**0.0374**	<0.0057	<0.0056	**20.9**	<0.0053	<0.0059	<0.0059
Naphthalene	91-20-3	30	C	90	C	3,000	N	**1.84**	<0.0058	**0.0071**	<0.0052	**0.0061**	<0.0050	**0.0409**	<0.0052	**0.0176**	**2.84**	**1.45**	**22.5**	<0.0053	<0.0059	<0.0059
Phenanthrene	85-01-8	NE		NE		NE		**1.33**	<0.0058	**0.0137**	<0.0052	**0.0104**	<0.0050	**0.0304**	**0.0074**	**0.0536**	**0.0351**	**0.0158**	**198**	<0.0053	<0.0059	<0.0059
Pyrene	129-00-0	3,000	N	20,000	N	50,000	N	**1.18**	<0.0058	**0.0168**	<0.0052	**0.0188**	<0.0050	**0.025**	<0.0052	**0.0909**	**0.0074**	<0.0056	**135**	<0.0053	<0.0059	<0.0059
Other PAHs	CS	CS		CS		CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL
Metals																						
Arsenic	7440-38-2	10	C	30	C	900	N	**14.5**	**4.2**	**8.4**	**5.1**	**3.1**	**3.2**	**6.9**	**7.7**	**4**	**4.3**	**5.2**	**14.4**	**2.2**	**3.5**	**2.6**
Barium	7440-39-3	20,000	N	100,000	L	100,000	L	**195**	**22.5**	**67.7**	**14.8**	**65.2**	**10.6**	**49.4**	**34.1**	**32.4**	**12.1**	**16.6**	**158**	**17.9**	**76.7**	**25.2**
Cadmium	7440-43-9	10	N	100	N	200	N	**0.93**	<0.52	<0.57	<0.49	<0.56	<0.47	<0.49	<0.48	**0.95**	<0.55	<0.51	**1.9**	<0.50	<0.56	<0.57
Chromium, Total	7440-47-3	NE		NE		NE		**13.6**	**6.6**	**12.1**	**6**	**12.5**	**4.7**	**7.4**	**10.3**	**7.8**	**6.8**	**10**	**16.6**	**7.5**	**20.6**	**9.5**
Lead	7439-92-1	400		800		1,000		**85.5**	**5.3**	**39**	**4.1**	**32.2**	**5.1**	**53.7**	**6.3**	**92.9**	**8.2**	**12.2**	**235**	**4.9**	**13.8**	**6.9**
Mercury	7439-97-6	3	S	3	S	3	S	<0.24	<0.25	<0.23	<0.23	<0.22	<0.20	<0.22	<0.22	<0.23	<0.23	<0.24	**0.37**	<0.21	<0.25	<0.24
Selenium	7782-49-2	500	N	6,000	N	10,000	N	<1.1	<1.0	<1.1	<0.99	<1.1	<0.93	<0.97	<0.97	<1.0	<1.1	<1.0	<1.1	<1.0	<1.1	<1.1
Silver	7440-22-4	500	N	6,000	N	10,000	N	<0.57	<0.52	<0.57	<0.49	<0.56	<0.47	<0.49	<0.48	<0.50	<0.55	<0.51	<0.55	<0.50	<0.56	<0.57
All Other Metals	CS	CS		CS		CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL

Notes are found on the last page of this table.

TABLE 1

SUMMARY OF SOIL ANALYTICAL RESULTS
1400 BLOCK OF SOUTH HOYT
MUNCIE, INDIANA
SME PROJECT NO.: 089758.00.03B.005

Notes:

- Only analytes measured at concentrations above their respective Laboratory Reporting Limit in at least one sample are listed.
- Concentrations reported in milligrams per kilogram (mg/kg).
- Published Levels were taken from IDEM's Risk-Based Closure Guide (R2) Appendix A, Table 1, 2023. The levels were calculated as described in IDEM's R2 Chapter 3 and Appendix A, assuming a total HQ of 1 and risk level of 10-5.
- Results above RL are shown in **bold**. Results exceeding one or more criteria are shaded, as are the criteria which were exceeded.
- VOCs -Volatile Organic Compounds; PAHs - Polynuclear Aromatic Hydrocarbons.
- Refer to the analytical report for the full list of VOC, PAH, and Metal analytes.
- CS - Criterion is specific to individual constituent.
- <RL - concentrations of all non-listed constituents were below their respective Laboratory Reporting Limits.
- NA - Not applicable or not analyzed (not in assessment scope).
- NE - Not established.
- C = Carcinogenic endpoint
- L = Capped at 100,000 mg/kg (soil direct contact only)
- N = Noncarcinogenic endpoint
- S = Capped at soil saturation limit

Denotes chemical and concentration that exceeds IDEM Risk-Based Closure Guide Published Levels.

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
1400 BLOCK OF SOUTH HOYT
MUNCIE, INDIANA
SME PROJECT NO.: 089758.00.03B.005

Constituent		Indiana Groundwater: Published Levels		Chemical Analysis Results Sample Identification Depth (Feet) Date Collected							
		Residential Tap		SB1-GW	SB2-GW	SB3-GW	SB4-GW	SB5-GW	GW-DUP1	SB6-GW	SB7-GW
				4/29/2024	4/29/2024	4/29/2024	4/29/2024	4/29/2024	4/29/2024	4/29/2024	4/29/2024
1,2,4-Trimethylbenzene	95-63-6	60	N	<5.0	<5.0	<5.0	<5.0	**10.8**	**10.6**	<5.0	<5.0
1,3,5-Trimethylbenzene	108-67-8	60	N	<5.0	<5.0	<5.0	<5.0	**10.8**	**10.6**	<5.0	<5.0
Benzene	71-43-2	5	M	<5.0	<5.0	<5.0	<5.0	**5.7**	**5.9**	<5.0	<5.0
Ethylbenzene	100-41-4	700	M	<5.0	<5.0	<5.0	<5.0	**233**	**239**	<5.0	<5.0
Isopropylbenzene (Cumene)	98-82-8	500	N	<5.0	<5.0	<5.0	<5.0	**77.1**	**79.7**	<5.0	<5.0
Toluene	108-88-3	1,000	M	<5.0	<5.0	<5.0	<5.0	**15.1**	**15.4**	<5.0	<5.0
Xylene (Total)	1330-20-7	10,000	M	<10.0	<10.0	<10.0	<10.0	**98.6**	**101**	<10.0	<10.0
n-Butylbenzene	104-51-8	1,000	N	<5.0	<5.0	<5.0	<5.0	**10.2**	**10.1**	<5.0	<5.0
n-Hexane	110-54-3	2,000	N	<5.0	<5.0	<5.0	<5.0	**159**	**156**	**10.9**	<5.0
p-Isopropyltoluene	99-87-6	NE		<5.0	<5.0	<5.0	<5.0	**7.0**	**7.0**	<5.0	<5.0
sec-Butylbenzene	135-98-8	2,000	N	<5.0	<5.0	<5.0	<5.0	**5.9**	**6.0**	<5.0	<5.0
Other VOCs	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL
1-Methylnaphthalene	90-12-0	10	C	<1.0	<1.0	<0.99	<1.0	**20.4**	**20.6**	<0.99	<0.99
2-Methylnaphthalene	91-57-6	40	N	<1.0	<1.0	<0.99	<1.0	**34.5**	**34.7**	<0.99	<0.99
Naphthalene	91-20-3	1	C	<1.0	<1.0	<0.99	<1.0	**181**	**180**	<0.99	<0.99
All Other PAHs	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL
Arsenic	7440-38-2	10	M	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	**235**
Barium	7440-39-3	2,000	M	**188**	**126**	**136**	**46.4**	**277**	**190**	**305**	**791**
Cadmium	7440-43-9	NE		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10.0	<10.0
Chromium	7440-47-3	100	M	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	**54.8**	**448**
Lead	7439-92-1	15		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	**152**
Mercury	7439-97-6	2	M	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Selenium	7782-49-2	50	M	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<50.0
Silver	7440-22-4	90	N	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<50.0	<50.0
Other Metals	CS	CS		<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL

Notes are found on the last page of this table.

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
1400 BLOCK OF SOUTH HOYT
MUNCIE, INDIANA
SME PROJECT NO.: 089758.00.03B.005

Notes:

- Only analytes measured at concentrations above their respective Laboratory Reporting Limit in at least one sample are listed.
- Concentrations reported in micrograms per liter (µg/L).
- Published Levels were taken from IDEM's Risk-Based Closure Guide (R2) Appendix A, Table 1, 2023. The levels were calculated as described in IDEM's R2 Chapter 3 and Appendix A, assuming a total HQ of 1 and risk level of 10-5.
- Results above the laboratory reporting limit are shown in **BOLD**. Results exceeding one or more criteria are shaded, as are the criteria which were exceeded.
- VOCs - Volatile Organic Compounds
- PAHs - Polynuclear Aromatic Hydrocarbons
- PCBs - Polychlorinate Biphenyls
- Refer to the analytical report for the full list analytes.
- CS - Criterion is specific to individual constituent.
- <RL - concentrations of all non-listed constituents were below their respective Laboratory Reporting Limits.
- NA - Not applicable.
- NE - Not evaluated.
- C = Carcinogenic endpoint
- N = Noncarcinogenic endpoint
- M = Set to maximum contaminant limit (MCL; ground water only)

Denotes chemical and concentration that exceeds IDEM Risk-Based Closure Guide Published Levels.

TABLE 3
SUMMARY OF SOIL GAS ANALYTICAL RESULTS
1400 BLOCK OF SOUTH HOYT
MUNCIE, INDIANA
SME PROJECT NO.: 089758.00.03B.005

Constituent		Soil Gas or Conduit Exposure Published Levels						Chemical Analysis Results Sample Identification Depth (Feet) Date Collected Environmental Concern			
		Subslab / Deep Exterior / Conduit									
		Residential		Commercial		Large Commercial		SG1	SG-DUP 1	SG2	SG3
								04/29/2024	04/29/2024	04/29/2024	04/29/2024
VOCs											
1,1,1-Trichloroethane	71-55-6	200000	N	700000	N	7000000	N	**182**	<109	<1.09	<1.09
1,1-Dichloroethene	75-35-4	7000	N	30000	N	300000	N	**650**	<79.3	<0.793	<0.793
1,2,4-Trimethylbenzene	95-63-6	2000	N	9000	N	90000	N	**171**	**192**	**86.9**	**242**
1,3,5-Trimethylbenzene	108-67-8	2000	N	9000	N	90000	N	<98.2	<98.2	**38.9**	**87.4**
2,2,4-Trimethylpentane	25167-70-8	NE		NE		NE		<93.4	<93.4	**123**	**80.8**
2-Butanone (MEK)	78-93-3	200000	N	700000	N	7000000	N	<369	<369	**10.1**	<3.69
2-Propanol	67-63-0	7000	N	30000	N	300000	N	**1400**	**1470**	**3.61**	**5.26**
4-Ethyltoluene	622-96-8	NE		NE		NE		**183**	**213**	**116**	**61.3**
Acetone	67-64-1	NE		NE		NE		**4040**	**4160**	**33.7**	**14.3**
Benzene	71-43-2	100	C	500	C	5000	C	<63.9	<63.9	**40.2**	**15.3**
Carbon disulfide	75-15-0	20000	N	100000	N	1000000	N	**64.4**	**78.1**	**153**	**146**
Chloromethane	74-87-3	3000	N	10000	N	100000	N	<41.3	<41.3	**0.748**	**0.601**
Cyclohexane	110-82-7	200000	N	900000	N	9000000	N	**358**	**455**	**290**	**30.5**
Dibromochloromethane	124-48-1	NE		NE		NE		<98.9	<98.9	**2.02**	**2.43**
Ethanol	64-17-5	NE		NE		NE		**1400**	**1760**	**20.6**	**28.3**
Ethyl acetate	141-78-6	2000	N	10000	N	100000	N	<227	**242**	<2.27	**5.58**
Ethylbenzene	100-41-4	400	C	2000	C	20000	C	**170**	**200**	**94.1**	**154**
n-Heptane	142-82-5	10000	N	60000	N	600000	N	**1650**	**2260**	**679**	**125**
Isopropylbenzene	98-82-8	NE		NE		NE		<98.3	<98.3	**19.3**	**36.6**
m&p-Xylene	179601-23-1	NE		NE		NE		**572**	**655**	**264**	**551**
Methyl methacrylate	80-62-6	20000	N	100000	N	1000000	N	**224**	<81.9	<0.819	<0.819
Methyl-tert-butyl ether	1634-04-4	4000	C	20000	C	200000	C	<72.1	<72.1	**6.45**	**14**
Methylene Chloride	75-09-2	20000	N	90000	N	900000	N	**365**	**604**	**6.29**	**3.82**
n-Hexane	110-54-3	20000	N	100000	N	1000000	N	**1260**	**1640**	**1340**	**381**
o-Xylene	95-47-6	NE		NE		NE		**153**	**176**	**82.4**	**199**
Tetrachloroethene	127-18-4	1000	N	6000	N	60000	N	**957**	**1050**	**1470**	**2430**
Toluene	108-88-3	200000	N	700000	N	7000000	N	**493**	**599**	**603**	**930**
Xylenes, Total	1330-20-7	3000	N	10000	N	100000	N	**725**	**834**	**347**	**751**
Other VOCs	CS	CS		CS		CS		<RL	<RL	<RL	<RL

Notes are found on the last page of this table.

TABLE 3
SUMMARY OF SOIL GAS ANALYTICAL RESULTS
1400 BLOCK OF SOUTH HOYT
MUNCIE, INDIANA
SME PROJECT NO.: 089758.00.03B.005

Notes:

- Only analytes measured at concentrations above their respective Method Reporting Limit in at least one sample are listed.
- Concentrations reported in micrograms per cubic meter (µg/m^3).
- Results above the laboratory reporting limit are shown in **BOLD**. Results exceeding one or more criteria are shaded, as are the criteria which were exceeded.
- VOCs - Volatile Organic Compounds
- Refer to the analytical report for the full list analytes.
- CS - Criterion is specific to individual constituent.
- <RL - concentrations of all non-listed constituents were below their respective Method Reporting Limits.
- NA - Not applicable.
- NE - Not evaluated.
- Published Levels were taken from IDEM's Risk-Based Closure Guide (R2) Appendix A, Table 1, 2023. The levels were calculated as described in IDEM's R2 Chapter 3 and Appendix A, assuming a total HQ of 1 and risk level of 10-5.
- C = Carcinogenic endpoint
- N = Noncarcinogenic endpoint
- IDEM generally considers shallow soil gas to include samples collected no more than five feet below ground surface, and deep soil gas samples to include samples collected at more than five feet below ground surface.

Denotes chemical and concentration that exceeds IDEM Risk-Based Closure Guide Published Levels.

APPENDIX A
SOIL BORING LOGS

BORING SB1

BORING DEPTH: 19 FEET

PROJECT NAME: 1400 Blk S Hoyt Phase II
PROJECT NUMBER: 089758.00.03B.005
CLIENT: ECI - USEPA Brownfields
PROJECT LOCATION: Muncie, IN
DATE STARTED: 4/26/24 **COMPLETED:** 4/26/24
BORING METHOD: Direct Push
OPERATOR: SCS **RIG NO.:** ATV
LOGGED BY: AM **CHECKED BY:** MC

DEPTH (FEET)	SYMBOLIC PROFILE	ELEVATION: Not Surveyed PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE ANALYZED	TEMPORARY WELL SCREEN	REMARKS
0		0.3 TOPSOIL- Fine to Coarse SAND with Clay- Some Roots- Dark Brown- Moist (SP)						
		FILL- LEAN CLAY- Frequent Asphalt Fragments- Brown to Gray (CL)	LS1	24	<1			
		3.5			<1			
5			LS2	36	<1			
		LEAN CLAY with Gravel- Gray (CL)			<1			
10			LS3	36	<1			A groundwater sample was collected from a temporary monitoring well. The well screen was set between 9 feet and 19 feet below ground surface.
		13.0			<1			
		Fine SAND- Gray- Wet (SP)	LS4	42				
15		15.0			<1			
		SANDY LEAN CLAY- Frequent Gravel- Gray (CL)	LS5	36	<1			
		19.0						
		END OF BORING AT 19.0 FEET.						Compact Soil refusal encountered at 19 feet below ground surface.
20								

GROUNDWATER & BACKFILL INFORMATION

	DEPTH (FT)
▽ **DURING BORING:**	13.0
▼ **AT END OF BORING:**	9.6

BACKFILL METHOD: Well Installation

NOTES:
1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual.
3. Listed depths under the profile description are rounded to the nearest tenth of a foot (e.g. 5.75 = 5.8). Refer to the report and attachments for actual sample depths and/or intervals (where applicable).
4. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.
5. No odor noted or staining observed.

SME

BORING SB2

BORING DEPTH: 19 FEET

PROJECT NAME: 1400 Blk S Hoyt Phase II
PROJECT NUMBER: 089758.00.03B.005
CLIENT: ECI - USEPA Brownfields
PROJECT LOCATION: Muncie, IN
DATE STARTED: 4/26/24 **COMPLETED:** 4/26/24
BORING METHOD: Direct Push
OPERATOR: SCS **RIG NO.:** ATV
LOGGED BY: AM **CHECKED BY:** MC

ELEVATION: Not Surveyed

DEPTH (FEET)	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	REMARKS
0					
0.5	FILL- Fine to Medium SAND with Clay- Some Asphalt Fragments- Some Roots- Dark Brown- Moist (SP)	LS1	38	11.1	
				<1	
	LEAN CLAY- Occasional Gravel- Brown (CL)	LS2	36	<1	
5				<1	
8.3					
		LS3	28	<1	
10				<1	
	SANDY LEAN CLAY- Frequent Gravel 1' Fine SAND layer at 15.25'- Gray (CL)	LS4	44	<1	A groundwater sample was collected from a temporary monitoring well. The well screen was set between 14 feet and 19 feet below ground surface.
15				<1	
		LS5	48	<1	
19.0	END OF BORING AT 19.0 FEET.				Compact Soil refusal encountered at 19 feet below ground surface.
20					

SOIL ANALYTICAL SAMPLE ANALYZED

TEMPORARY WELL SCREEN

GROUNDWATER & BACKFILL INFORMATION

	DEPTH (FT)
▽ **DURING BORING:**	15.0
▼ **AT END OF BORING:**	9.4

BACKFILL METHOD: Well Installation

NOTES:
1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual.
3. Listed depths under the profile description are rounded to the nearest tenth of a foot (e.g. 5.75 = 5.8). Refer to the report and attachments for actual sample depths and/or intervals (where applicable).
4. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.
5. No odor noted or staining observed.

SME

BORING SB3

BORING DEPTH: 16 FEET

PROJECT NAME: 1400 Blk S Hoyt Phase II
PROJECT NUMBER: 089758.00.03B.005
CLIENT: ECI - USEPA Brownfields
PROJECT LOCATION: Muncie, IN

DATE STARTED: 4/26/24 **COMPLETED:** 4/26/24 **BORING METHOD:** Direct Push

OPERATOR: SCS **RIG NO.:** ATV **LOGGED BY:** AM **CHECKED BY:** MC

ELEVATION: Not Surveyed

DEPTH (FEET)	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE ANALYZED	TEMPORARY WELL SCREEN	REMARKS
0	0.5 FILL- Fine to Medium SAND with Clay- Some Asphalt Fragments- Some Roots- Dark Brown- Moist (SP)	LS1	36	1.3			
				<1			
5	LEAN CLAY with Gravel- Brown (CL)	LS2	36	<1			A groundwater sample was collected from a temporary monitoring well. The well screen was set between 6 feet and 16 feet below ground surface.
				<1			
10 ▽ ▼	10.5	LS3	36	<1			
	Fine to Coarse SAND- Gray- Wet (SP)			<1			
15	16.0	LS4	34	<1			
	END OF BORING AT 16.0 FEET.						
20							

GROUNDWATER & BACKFILL INFORMATION

	DEPTH (FT)
▽ **DURING BORING:**	10.5
▼ **AT END OF BORING:**	10.0

BACKFILL METHOD: Well Installation

NOTES:
1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual.
3. Listed depths under the profile description are rounded to the nearest tenth of a foot (e.g. 5.75 = 5.8). Refer to the report and attachments for actual sample depths and/or intervals (where applicable).
4. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.
5. No odor noted or staining observed.

SME

BORING SB4

BORING DEPTH: 20 FEET

PROJECT NAME: 1400 Blk S Hoyt Phase II
PROJECT NUMBER: 089758.00.03B.005
CLIENT: ECI - USEPA Brownfields
PROJECT LOCATION: Muncie, IN
DATE STARTED: 4/26/24 **COMPLETED:** 4/26/24
BORING METHOD: Direct Push
OPERATOR: SCS **RIG NO.:** ATV
LOGGED BY: AM **CHECKED BY:** MC

DEPTH (FEET)	SYMBOLIC PROFILE	ELEVATION: Not Surveyed PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE ANALYZED	TEMPORARY WELL SCREEN	REMARKS
0		0.2 TOPSOIL- Fine to Medium SAND with Clay- Some Roots- Dark Brown- Moist (SP)						
		FILL- Fine to Coarse SAND- Some Asphalt and Glass Fragments- Brown- Moist (SP)	LS1	38	<1			
		2.0			<1			
5		LEAN CLAY- Occasional Gravel- Brown (CL)	LS2	24	<1			
					<1			
		10.0	LS3	38	<1			A groundwater sample was collected from a temporary monitoring well. The well screen was set between 10 feet and 20 feet below ground surface.
10					<1			
			LS4	48	<1			
15		SANDY LEAN CLAY- Frequent Gravel 1' Fine SAND layer at 15'- Gray (CL)			<1			
			LS5	46	<1			
20		20.0 END OF BORING AT 20.0 FEET.						

GROUNDWATER & BACKFILL INFORMATION

	DEPTH (FT)
▽ **DURING BORING:**	15.0
▼ **AT END OF BORING:**	10.8

BACKFILL METHOD: Well Installation

NOTES:
1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual.
3. Listed depths under the profile description are rounded to the nearest tenth of a foot (e.g. 5.75 = 5.8). Refer to the report and attachments for actual sample depths and/or intervals (where applicable).
4. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.
5. No odor noted or staining observed.

SME

BORING SB5

BORING DEPTH: 16 FEET

PROJECT NAME: 1400 Blk S Hoyt Phase II
PROJECT NUMBER: 089758.00.03B.005
CLIENT: ECI - USEPA Brownfields
PROJECT LOCATION: Muncie, IN

DATE STARTED: 4/26/24 **COMPLETED:** 4/26/24 **BORING METHOD:** Direct Push

OPERATOR: SCS **RIG NO.:** ATV **LOGGED BY:** AM **CHECKED BY:** MC

DEPTH (FEET)	SYMBOLIC PROFILE	ELEVATION: Not Surveyed PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE ANALYZED	TEMPORARY WELL SCREEN	REMARKS
0		0.2 TOPSOIL- Fine to Medium SAND with Clay- Some Roots- Dark Brown- Moist (SP)						
		FILL- Fine to Coarse SAND with Clay- Frequent Gravel Some Asphalt and Glass Fragments- Brown- Moist (SP) 2.0	LS1	26	<1			
					<1			
5		LEAN CLAY- Frequent Gravel- Brown to Gray (CL)	LS2	28	<1			A groundwater sample was collected from a temporary monitoring well. The well screen was set between 6 feet and 16 feet below ground surface.
					<1			
					384			Strong Petroleum-type odor from 9 feet to 12 feet below ground surface.
10		10.0	LS3	24				
▽▼		Fine GRAVEL with Sand- Gray- Wet (GP)			1622			Black Staining from 11 feet to 12 feet below ground surface.
					<1			
		14.0	LS4	46				
15		SANDY LEAN CLAY- with Gravel- Gray (CL)			<1			
		16.0 END OF BORING AT 16.0 FEET.						
20								

GROUNDWATER & BACKFILL INFORMATION

	DEPTH (FT)
▽ **DURING BORING:**	11.0
▼ **AT END OF BORING:**	11.0

BACKFILL METHOD: Well Installation

NOTES:
1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual.
3. Listed depths under the profile description are rounded to the nearest tenth of a foot (e.g. 5.75 = 5.8). Refer to the report and attachments for actual sample depths and/or intervals (where applicable).
4. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.

SME

BORING SB6

BORING DEPTH: 15 FEET

PROJECT NAME: 1400 Blk S Hoyt Phase II
PROJECT NUMBER: 089758.00.03B.005
CLIENT: ECI - USEPA Brownfields
PROJECT LOCATION: Muncie, IN

DATE STARTED: 4/26/24 **COMPLETED:** 4/26/24 **BORING METHOD:** Direct Push

OPERATOR: SCS **RIG NO.:** ATV **LOGGED BY:** AM **CHECKED BY:** MC

DEPTH (FEET)	SYMBOLIC PROFILE	ELEVATION: Not Surveyed PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE ANALYZED	TEMPORARY WELL SCREEN	REMARKS
0		0.3 TOPSOIL- Fine to Medium SAND with Clay- Some Roots- Dark Brown- Moist (SP-SC)						
		1.8 FILL- Fine to Medium SAND with Clay- Some Coal, Ash, Glass and Brick Fragments- Black- Moist (SP-SC)	LS1	36	<1			
					<1			
5			LS2	38	<1			A groundwater sample was collected from a temporary monitoring well. The well screen was set between 5 feet and 15 feet below ground surface.
					<1			
		LEAN CLAY- Occasional Gravel 1.25' Coarse SAND layer at 9'- Brown (CL)						
10			LS3	22	<1			
					<1			
			LS4	48	<1			
15		15.0 END OF BORING AT 15.0 FEET.						Compact Soil refusal encountered at 15 feet below ground surface.
20								

GROUNDWATER & BACKFILL INFORMATION

	DEPTH (FT)
▽ **DURING BORING:**	9.0
▼ **AT END OF BORING:**	11.0

BACKFILL METHOD: Well Installation

NOTES:
1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual.
3. Listed depths under the profile description are rounded to the nearest tenth of a foot (e.g. 5.75 = 5.8). Refer to the report and attachments for actual sample depths and/or intervals (where applicable).
4. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.
5. No odor noted or staining observed.

SME

BORING SB7

BORING DEPTH: 16 FEET

PROJECT NAME: 1400 Blk S Hoyt Phase II
PROJECT NUMBER: 089758.00.03B.005
CLIENT: ECI - USEPA Brownfields
PROJECT LOCATION: Muncie, IN

DATE STARTED: 4/26/24 **COMPLETED:** 4/26/24 **BORING METHOD:** Direct Push

OPERATOR: SCS **RIG NO.:** ATV **LOGGED BY:** AM **CHECKED BY:** MC

ELEVATION: Not Surveyed

DEPTH (FEET)	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE ANALYZED	TEMPORARY WELL SCREEN	REMARKS
0	0.3 TOPSOIL- SAND with Clay- Frequent Gravel- Dark Brown- Moist (SP-SC)	LS1	30	<1			
				<1			
5	LEAN CLAY with Sand- Occasional Gravel- Brown (CL)	LS2	28	<1			A groundwater sample was collected from a temporary monitoring well. The well screen was set between 6 feet and 16 feet below ground surface.
				<1			
▽	9.0			<1			
▼ 10	Fine to Coarse SAND- Gray- Wet (SP)	LS3	40	<1			
				<1			
		LS4	42	<1			
15	16.0			<1			
	END OF BORING AT 16.0 FEET.						
20							

GROUNDWATER & BACKFILL INFORMATION

	DEPTH (FT)
▽ **DURING BORING:**	9.0
▼ **AT END OF BORING:**	9.8

BACKFILL METHOD: Well Installation

NOTES:
1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual.
3. Listed depths under the profile description are rounded to the nearest tenth of a foot (e.g. 5.75 = 5.8). Refer to the report and attachments for actual sample depths and/or intervals (where applicable).
4. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.
5. No odor noted or staining observed.

APPENDIX B
GROUNDWATER MONITORING LOGS

Low-Flow Test Report:

Test Date / Time: 4/29/2024 11:23:17 AM
Project: Habitat for Humanity
Operator Name: Amanda

Location Name: SB1 **Well Diameter: 1 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 5.75 ft** **Total Depth: 15.75 ft** **Initial Depth to Water: 9.63 ft**	**Pump Type: Grotech bladder pump** **Tubing Type: Dual bonded polyethylene** **Pump Intake From TOC: 13 ft** **Estimated Total Volume Pumped: 0.2 gal** **Flow Cell Volume: 130 ml** **Final Flow Rate: 110 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 500** **Serial Number: 792620**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.3 %	+/- 3 %	+/- 0.3	+/- 10 %	+/- 10	+/- 0.33	
4/29/2024 11:23 AM	00:00	7.05 pH	20.94 °C	1,086.6 µS/cm	5.11 mg/L	6,531.5 NTU	80.4 mV	9.69 ft	110.00 ml/min
4/29/2024 11:26 AM	03:00	6.84 pH	19.63 °C	999.50 µS/cm	4.71 mg/L	5,388.6 NTU	97.9 mV	9.69 ft	110.00 ml/min
4/29/2024 11:29 AM	06:00	6.85 pH	18.99 °C	979.65 µS/cm	4.21 mg/L	3,085.5 NTU	100.2 mV	9.69 ft	110.00 ml/min
4/29/2024 11:32 AM	09:00	6.88 pH	18.64 °C	960.03 µS/cm	3.86 mg/L	1,740.2 NTU	94.2 mV	9.69 ft	110.00 ml/min
4/29/2024 11:35 AM	12:00	6.92 pH	18.18 °C	947.16 µS/cm	3.49 mg/L	981.81 NTU	87.4 mV	9.69 ft	110.00 ml/min
4/29/2024 11:38 AM	15:00	6.94 pH	17.96 °C	941.51 µS/cm	3.13 mg/L	717.01 NTU	83.3 mV	9.69 ft	110.00 ml/min
4/29/2024 11:41 AM	18:00	6.96 pH	17.76 °C	932.48 µS/cm	2.80 mg/L	572.25 NTU	79.9 mV	9.69 ft	110.00 ml/min

Samples

Sample ID:	Description:
SB1-GW	Collected at 1145, slightly in color, no detectable odors

Low-Flow Test Report:

Test Date / Time: 4/29/2024 12:28:38 PM
Project: Habitat for Humanity
Operator Name: Amanda

Location Name: SB2 **Latitude: 40.18203457** **Longitude: -85.39414097** **Well Diameter: 1 ft** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 6.97 ft** **Total Depth: 16.97 ft** **Initial Depth to Water: 9.43 ft**	**Pump Type: Grotech bladder pump** **Tubing Type: Dual bonded polyethylene** **Pump Intake From TOC: 14 ft** **Estimated Total Volume Pumped: 0.2 gal** **Flow Cell Volume: 130 ml** **Final Flow Rate: 110 ml/min** **Final Draw Down: 0.23 ft**	**Instrument Used: Aqua TROLL 500** **Serial Number: 792620**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.3 %	+/- 3 %	+/- 0.3	+/- 10 %	+/- 10	+/- 0.33	
4/29/2024 12:28 PM	00:00	7.49 pH	22.28 °C	1,241.5 µS/cm	3.78 mg/L	496.80 NTU	89.5 mV	9.57 ft	110.00 ml/min
4/29/2024 12:31 PM	03:00	7.24 pH	21.62 °C	1,225.9 µS/cm	2.00 mg/L	464.67 NTU	72.5 mV	9.59 ft	110.00 ml/min
4/29/2024 12:34 PM	06:00	7.07 pH	20.92 °C	1,225.4 µS/cm	1.02 mg/L	454.25 NTU	-7.4 mV	9.59 ft	110.00 ml/min
4/29/2024 12:37 PM	09:00	7.00 pH	20.91 °C	1,223.5 µS/cm	0.61 mg/L	425.04 NTU	-22.2 mV	9.66 ft	110.00 ml/min
4/29/2024 12:40 PM	12:00	6.98 pH	20.55 °C	1,221.9 µS/cm	0.43 mg/L	394.35 NTU	-69.0 mV	9.66 ft	110.00 ml/min
4/29/2024 12:43 PM	15:00	6.97 pH	20.23 °C	1,220.7 µS/cm	0.34 mg/L	318.00 NTU	-85.1 mV	9.66 ft	110.00 ml/min

Samples

Sample ID:	Description:
SB2-GW	Collected at 1250, clear in color, no detectable odor

Low-Flow Test Report:

Test Date / Time: 4/29/2024 1:17:52 PM
Project: Habitat for Humanity
Operator Name: Amanda

Location Name: SB3 **Latitude: 40.18209381** **Longitude: -85.39435173** **Well Diameter: 1 in** **Casing Type: PVC** **Screen Length: 10 m** **Top of Screen: 5.27 m** **Total Depth: 15.27 m** **Initial Depth to Water: 10.02 ft**	**Pump Type: Grotech bladder pump** **Tubing Type: Dual bonded polyethylene** **Pump Intake From TOC: 13 ft** **Estimated Total Volume Pumped: 0.3 gal** **Flow Cell Volume: 130 ml** **Final Flow Rate: 110 ml/min** **Final Draw Down: -0.01 ft**	**Instrument Used: Aqua TROLL 500** **Serial Number: 792620**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.3 %	+/- 3 %	+/- 0.3	+/- 10 %	+/- 10	+/- 0.33	
4/29/2024 1:17 PM	00:00	7.10 pH	21.45 °C	818.29 µS/cm	4.52 mg/L	3,928.3 NTU	101.8 mV	10.02 ft	110.00 ml/min
4/29/2024 1:20 PM	03:00	6.76 pH	19.35 °C	776.74 µS/cm	3.24 mg/L	2,626.1 NTU	133.7 mV	10.02 ft	110.00 ml/min
4/29/2024 1:23 PM	06:00	6.78 pH	18.44 °C	776.29 µS/cm	3.03 mg/L	1,109.6 NTU	134.6 mV	10.01 ft	110.00 ml/min
4/29/2024 1:26 PM	09:00	6.89 pH	17.82 °C	769.53 µS/cm	2.96 mg/L	488.79 NTU	128.2 mV	10.01 ft	110.00 ml/min

Samples

Sample ID:	Description:
SB3-GW	Collected at 1340, clear in color, no detectable odor

Low-Flow Test Report:

Test Date / Time: 4/29/2024 2:23:57 PM
Project: Habitat for Humanity
Operator Name: Amanda

Location Name: SB4 **Latitude: 40.18212545** **Longitude: -85.39478191** **Well Diameter: 1 in** **Casing Type: PVC** **Screen Length: 10 m** **Top of Screen: 6.95 m** **Total Depth: 16.95 m** **Initial Depth to Water: 10.82 ft**	**Pump Type: Grotech bladder pump** **Tubing Type: Dual bonded polyethylene** **Pump Intake From TOC: 14 ft** **Estimated Total Volume Pumped: 0.3 gal** **Flow Cell Volume: 130 ml** **Final Flow Rate: 110 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 500** **Serial Number: 792620**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.3 %	+/- 3 %	+/- 0.3	+/- 10 %	+/- 10	+/- 0.33	
4/29/2024 2:23 PM	00:00	7.27 pH	19.65 °C	933.96 µS/cm	4.34 mg/L	440.98 NTU	91.7 mV	10.84 ft	110.00 ml/min
4/29/2024 2:26 PM	03:00	7.15 pH	18.24 °C	927.77 µS/cm	2.73 mg/L	469.55 NTU	53.8 mV	10.84 ft	110.00 ml/min
4/29/2024 2:29 PM	06:00	7.19 pH	18.01 °C	916.01 µS/cm	1.74 mg/L	435.82 NTU	-58.4 mV	10.84 ft	110.00 ml/min
4/29/2024 2:32 PM	09:00	7.21 pH	17.59 °C	897.38 µS/cm	1.14 mg/L	452.16 NTU	-106.9 mV	10.88 ft	110.00 ml/min
4/29/2024 2:35 PM	12:00	7.23 pH	17.43 °C	885.82 µS/cm	0.89 mg/L	416.03 NTU	-127.6 mV	10.88 ft	110.00 ml/min
4/29/2024 2:38 PM	15:00	7.24 pH	17.48 °C	880.86 µS/cm	1.02 mg/L	324.56 NTU	-139.6 mV	10.88 ft	110.00 ml/min

Samples

Sample ID:	Description:
SB4-GW	Collected at 1450, clear in color, no detectable odor

Low-Flow Test Report:

Test Date / Time: 4/29/2024 3:21:12 PM
Project: Habitat for Humanity
Operator Name: Amanda

Location Name: SB5 **Latitude: 40.18214192** **Longitude: -85.39465791** **Well Diameter: 1 in** **Casing Type: PVC** **Screen Length: 10 m** **Top of Screen: 4.23 m** **Total Depth: 14.23 m** **Initial Depth to Water: 11.01 ft**	**Pump Type: Grotech bladder pump** **Tubing Type: Dual bonded polyethylene** **Pump Intake From TOC: 14 ft** **Estimated Total Volume Pumped: 0.3 gal** **Flow Cell Volume: 130 ml** **Final Flow Rate: 110 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 500** **Serial Number: 792620**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.3 %	+/- 3 %	+/- 0.3	+/- 10 %	+/- 10	+/- 0.33	
4/29/2024 3:21 PM	00:00	6.84 pH	18.80 °C	845.75 µS/cm	2.79 mg/L	1,683.3 NTU	-98.9 mV	11.05 ft	110.00 ml/min
4/29/2024 3:24 PM	03:00	6.67 pH	17.95 °C	849.52 µS/cm	0.71 mg/L	2,174.4 NTU	-100.9 mV	11.05 ft	110.00 ml/min
4/29/2024 3:27 PM	06:00	6.71 pH	17.71 °C	843.64 µS/cm	0.28 mg/L	1,673.3 NTU	-117.9 mV	11.05 ft	110.00 ml/min
4/29/2024 3:30 PM	09:00	6.76 pH	17.47 °C	836.58 µS/cm	0.19 mg/L	1,186.5 NTU	-140.2 mV	11.05 ft	110.00 ml/min
4/29/2024 3:33 PM	12:00	6.78 pH	17.21 °C	827.11 µS/cm	0.15 mg/L	850.28 NTU	-154.8 mV	11.05 ft	110.00 ml/min

Samples

Sample ID:	Description:
SB5-GW	Collected at 1550, slightly silty in color, slight petroleum odor

Low-Flow Test Report:

Test Date / Time: 4/29/2024 4:26:12 PM
Project: Habitat for Humanity
Operator Name: Amanda

Location Name: SB6 **Latitude: 40.18228735** **Longitude: -85.39436783** **Well Diameter: 1 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 7.7 ft** **Total Depth: 17.7 ft** **Initial Depth to Water: 11 ft**	**Pump Type: Grotech bladder pump** **Tubing Type: Dual bonded polyethylene** **Pump Intake From TOC: 13.5 ft** **Estimated Total Volume Pumped: 0.2 gal** **Flow Cell Volume: 130 ml** **Final Flow Rate: 110 ml/min** **Final Draw Down: 0.22 ft**	**Instrument Used: Aqua TROLL 500** **Serial Number: 792620**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.3 %	+/- 3 %	+/- 0.3	+/- 10 %	+/- 10	+/- 0.33	
4/29/2024 4:26 PM	00:00	7.37 pH	20.42 °C	807.82 µS/cm	4.69 mg/L	1,969.1 NTU	-1.5 mV	11.22 ft	110.00 ml/min
4/29/2024 4:29 PM	03:00	7.19 pH	19.81 °C	805.78 µS/cm	3.35 mg/L	1,410.5 NTU	-24.1 mV	11.22 ft	110.00 ml/min
4/29/2024 4:32 PM	06:00	7.19 pH	19.88 °C	802.39 µS/cm	2.79 mg/L	1,071.5 NTU	-32.6 mV	11.22 ft	110.00 ml/min
4/29/2024 4:35 PM	09:00	7.21 pH	19.61 °C	800.17 µS/cm	2.31 mg/L	3,000.1 NTU	-40.3 mV	11.22 ft	110.00 ml/min
4/29/2024 4:38 PM	12:00	7.20 pH	19.48 °C	798.56 µS/cm	2.01 mg/L	4,110.6 NTU	-44.9 mV	11.22 ft	110.00 ml/min
4/29/2024 4:41 PM	15:00	7.18 pH	19.12 °C	791.03 µS/cm	1.83 mg/L	4,525.7 NTU	-48.8 mV	11.22 ft	110.00 ml/min

Samples

Sample ID:	Description:
SB6-GW	Collected at 1650, very silty in color, no detectable odor

Low-Flow Test Report:

Test Date / Time: 4/29/2024 5:25:31 PM
Project: Habitat for Humanity
Operator Name: Amanda

Location Name: SB7 **Latitude: 40.18243799** **Longitude: -85.39450787** **Well Diameter: 1 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 3.85 ft** **Total Depth: 13.85 ft** **Initial Depth to Water: 9.78 ft**	**Pump Type: Grotech bladder pump** **Tubing Type: Dual bonded polyethylene** **Pump Intake From TOC: 13 ft** **Estimated Total Volume Pumped: 0.3 ml** **Flow Cell Volume: 130 ml** **Final Flow Rate: 110 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 500** **Serial Number: 792620**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.3 %	+/- 3 %	+/- 0.3	+/- 10 %	+/- 10	+/- 0.33	
4/29/2024 5:25 PM	00:00	7.38 pH	19.47 °C	899.76 µS/cm	3.02 mg/L	1,487.6 NTU	-0.3 mV	9.78 ft	110.00 ml/min
4/29/2024 5:28 PM	03:00	7.25 pH	18.83 °C	896.13 µS/cm	1.56 mg/L	2,052.8 NTU	-40.5 mV	9.78 ft	110.00 ml/min
4/29/2024 5:31 PM	06:00	7.25 pH	18.60 °C	890.49 µS/cm	1.04 mg/L	2,742.1 NTU	-58.5 mV	9.78 ft	110.00 ml/min
4/29/2024 5:34 PM	09:00	7.26 pH	18.29 °C	884.92 µS/cm	0.78 mg/L	3,627.1 NTU	-69.1 mV	9.78 ft	110.00 ml/min
4/29/2024 5:37 PM	12:00	7.30 pH	18.21 °C	883.98 µS/cm	0.58 mg/L	3,088.5 NTU	-80.4 mV	9.78 ft	110.00 ml/min
4/29/2024 5:40 PM	15:00	7.25 pH	17.96 °C	874.09 µS/cm	0.32 mg/L	3,807.6 NTU	-96.3 mV	9.78 ft	110.00 ml/min
4/29/2024 5:43 PM	18:00	7.20 pH	17.86 °C	864.05 µS/cm	0.16 mg/L	4,571.4 NTU	-108.4 mV	9.78 ft	110.00 ml/min
4/29/2024 5:46 PM	21:00	7.18 pH	17.64 °C	857.48 µS/cm	0.09 mg/L	4,583.4 NTU	-113.4 mV	9.78 ft	110.00 ml/min

Samples

Sample ID:	Description:
SB7-GW	Collected at 1745, very silty in color, no detectable odor

APPENDIX C
SOIL GAS LOGS

SME

BORING SG1

BORING DEPTH: 6 FEET

PROJECT NAME: 1400 Blk S Hoyt Phase II
PROJECT NUMBER: 089758.00.03B.005
CLIENT: ECI - USEPA Brownfields
PROJECT LOCATION: Muncie, IN
DATE STARTED: 4/26/24 **COMPLETED:** 4/26/24
BORING METHOD: Direct Push
OPERATOR: SCS **RIG NO.:** ATV
LOGGED BY: AM **CHECKED BY:** MC

DEPTH (FEET)	SYMBOLIC PROFILE	ELEVATION: Not Surveyed PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE ANALYZED	TEMPORARY WELL SCREEN	REMARKS
0.0		0.3 TOPSOIL- Fine to Medium SAND with Clay- Some Roots- Dark Brown- Moist (SP)			2.2			
2.5		FILL- Fine to Coarse SAND with Clay- Frequent Gravel- Some Asphalt Fragments- Brown (SP)	LS1	28				
		3.0			1.1			
5.0		LEAN CLAY- Occasional Gravel- Brown (CL)	LS2	23	<1			
		6.0 END OF BORING AT 6.0 FEET.						
7.5								
10.0								

GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Soil Gas Probe/Well Installation

NOTES:
1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual.
3. Listed depths under the profile description are rounded to the nearest tenth of a foot (e.g. 5.75 = 5.8). Refer to the report and attachments for actual sample depths and/or intervals (where applicable).
4. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.
3. Listed depths under the profile description are rounded to the nearest tenth of a foot (e.g. 5.75 = 5.8). Referto the report and attachments for actual sample depths and/or intervals (where applicable).
4. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarilyrepresent the in-situ colors encountered.
5. No odor noted or staining observed.

SME

BORING SG2

BORING DEPTH: 6 FEET

PROJECT NAME: 1400 Blk S Hoyt Phase II
PROJECT NUMBER: 089758.00.03B.005
CLIENT: ECI - USEPA Brownfields
PROJECT LOCATION: Muncie, IN

DATE STARTED: 4/26/24 **COMPLETED:** 4/26/24 **BORING METHOD:** Direct Push

OPERATOR: SCS **RIG NO.:** ATV **LOGGED BY:** AM **CHECKED BY:** MC

DEPTH (FEET)	SYMBOLIC PROFILE	ELEVATION: Not Surveyed PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE ANALYZED	TEMPORARY WELL SCREEN	REMARKS
0.0		TOPSOIL- Fine to Medium SAND with Clay- Some Roots- Brown- Moist (SP)						
0.6					<1			
2.5		LEAN CLAY with Sand and Gravel- Brown (CL)	LS1	44				
					<1			
5.0			LS2	24	<1			
5.0		Fine to Coarse GRAVEL- Gray- Moist (GP)						
6.0		END OF BORING AT 6.0 FEET.						
7.5								
10.0								

GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Soil Gas Probe/Well Installation

NOTES:
1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual.
3. Listed depths under the profile description are rounded to the nearest tenth of a foot (e.g. 5.75 = 5.8). Refer to the report and attachments for actual sample depths and/or intervals (where applicable).
4. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.
3. Listed depths under the profile description are rounded to the nearest tenth of a foot (e.g. 5.75 = 5.8). Referto the report and attachments for actual sample depths and/or intervals (where applicable).
4. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarilyrepresent the in-situ colors encountered.
5. No odor noted or staining observed.

SME

BORING SG3

BORING DEPTH: 6 FEET

PROJECT NAME: 1400 Blk S Hoyt Phase II
PROJECT NUMBER: 089758.00.03B.005
CLIENT: ECI - USEPA Brownfields
PROJECT LOCATION: Muncie, IN

DATE STARTED: 4/26/24 **COMPLETED:** 4/26/24 **BORING METHOD:** Direct Push
OPERATOR: SCS **RIG NO.:** ATV **LOGGED BY:** AM **CHECKED BY:** MC

ELEVATION: Not Surveyed

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE/NO. INTERVAL	RECOVERY (inches)	PID (ppm)	SOIL ANALYTICAL SAMPLE ANALYZED	TEMPORARY WELL SCREEN	REMARKS
0.0								
		0.4 ASPHALT CONCRETE- Dark Brown- Moist						
					<1			
			LS1	25				
2.5		LEAN CLAY with Sand- Brown (CL)			<1			
			LS2	24	<1			
5.0		6.0						
		END OF BORING AT 6.0 FEET.						
7.5								
10.0								

GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Soil Gas Probe/Well Installation

NOTES:
1. Soil samples were classified according to ASTM D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) for environmental purposes only. Therefore, the boring logs and associated report(s) should not be used for geotechnical evaluation or design.
2. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual.
3. Listed depths under the profile description are rounded to the nearest tenth of a foot (e.g. 5.75 = 5.8). Refer to the report and attachments for actual sample depths and/or intervals (where applicable).
4. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.
3. Listed depths under the profile description are rounded to the nearest tenth of a foot (e.g. 5.75 = 5.8). Referto the report and attachments for actual sample depths and/or intervals (where applicable).
4. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarilyrepresent the in-situ colors encountered.
5. No odor noted or staining observed.

APPENDIX D
LABORATORY DATA REPORTS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

May 13, 2024

Mitch Cline
Soil and Materials Engineers, Inc.
11800 Exit 5 Parkway
Suite 106
Fishers, IN 46037

RE: Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Dear Mitch Cline:

Enclosed are the analytical results for sample(s) received by the laboratory on April 26, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Olivia Deck
olivia.deck@pacelabs.com
(317)228-3102
Project Manager

Enclosures

cc: SME EDD, SME
Amanda McCarty, Soil and Materials Engineers, Inc.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50371662001	**SB1 (0-2)**	Solid	04/26/24 09:30	04/26/24 15:07
50371662002	**SB1 (11-13)**	Solid	04/26/24 09:40	04/26/24 15:07
50371662003	**SB2 (0-2)**	Solid	04/26/24 10:10	04/26/24 15:07
50371662004	**SB2 (13-15)**	Solid	04/26/24 10:15	04/26/24 15:07
50371662005	**SB3 (8.5-10.5)**	Solid	04/26/24 10:40	04/26/24 15:07
50371662006	**SB3 (0-2)**	Solid	04/26/24 10:30	04/26/24 15:07
50371662007	**SB4 (0-2)**	Solid	04/26/24 11:00	04/26/24 15:07
50371662008	**SB4 (13-15)**	Solid	04/26/24 11:10	04/26/24 15:07
50371662009	**SB5 (0-2)**	Solid	04/26/24 11:30	04/26/24 15:07
50371662010	**SB5 (9-11)**	Solid	04/26/24 11:40	04/26/24 15:07
50371662011	**SB6 (0-2)**	Solid	04/26/24 12:15	04/26/24 15:07
50371662012	**SB6 (7-9)**	Solid	04/26/24 12:20	04/26/24 15:07
50371662013	**SB7 (0-2)**	Solid	04/26/24 13:00	04/26/24 15:07
50371662014	**SB7 (7-9)**	Solid	04/26/24 13:10	04/26/24 15:07
50371662015	**S-DUP1**	Solid	04/26/24 08:00	04/26/24 15:07
50371662016	**Trip Blank**	Solid	04/26/24 08:00	04/26/24 15:07

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50371662001	**SB1 (0-2)**	EPA 6010	ELK	7	PASI-I
		EPA 7471	EAE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	SLB	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50371662002	**SB1 (11-13)**	EPA 6010	ELK	7	PASI-I
		EPA 7471	EAE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	SLB	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50371662003	**SB2 (0-2)**	EPA 6010	ELK	7	PASI-I
		EPA 7471	EAE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	SLB	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50371662004	**SB2 (13-15)**	EPA 6010	ELK	7	PASI-I
		EPA 7471	EAE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	SLB	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50371662005	**SB3 (8.5-10.5)**	EPA 6010	ELK	7	PASI-I
		EPA 7471	EAE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	SLB	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50371662006	**SB3 (0-2)**	EPA 6010	ELK	7	PASI-I
		EPA 7471	EAE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	SLB	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50371662007	**SB4 (0-2)**	EPA 6010	ELK	7	PASI-I
		EPA 7471	EAE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	SLB	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50371662008	**SB4 (13-15)**	EPA 6010	ELK	7	PASI-I
		EPA 7471	EAE	1	PASI-I

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	SLB	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50371662009	**SB5 (0-2)**	EPA 6010	ELK	7	PASI-I
		EPA 7471	EAE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	SLB	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50371662010	**SB5 (9-11)**	EPA 6010	ELK	7	PASI-I
		EPA 7471	EAE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	SLB	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50371662011	**SB6 (0-2)**	EPA 6010	ELK	7	PASI-I
		EPA 7471	EAE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	SLB	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50371662012	**SB6 (7-9)**	EPA 6010	ELK	7	PASI-I
		EPA 7471	EAE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	SLB	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50371662013	**SB7 (0-2)**	EPA 6010	ELK	7	PASI-I
		EPA 7471	EAE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	SLB	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50371662014	**SB7 (7-9)**	EPA 6010	ELK	7	PASI-I
		EPA 7471	EAE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	SLB	73	PASI-I
		SM 2540G	QAK	1	PASI-I
50371662015	**S-DUP1**	EPA 6010	ELK	7	PASI-I
		EPA 7471	EAE	1	PASI-I
		EPA 8270 by SIM	JCM	20	PASI-I
		EPA 8260	SLB	73	PASI-I

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540G	QAK	1	PASI-I
50371662016	**Trip Blank**	EPA 8260	SLB	73	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50371662001	**SB1 (0-2)**					
EPA 6010	Arsenic	14.5	mg/kg	1.1	05/10/24 11:18	
EPA 6010	Barium	195	mg/kg	1.1	05/10/24 11:18	
EPA 6010	Cadmium	0.93	mg/kg	0.57	05/10/24 11:18	
EPA 6010	Chromium	13.6	mg/kg	1.1	05/10/24 11:18	
EPA 6010	Lead	85.5	mg/kg	1.1	05/10/24 11:18	
EPA 8270 by SIM	Acenaphthene	40.6	ug/kg	6.1	05/03/24 12:45	
EPA 8270 by SIM	Acenaphthylene	206	ug/kg	6.1	05/03/24 12:45	
EPA 8270 by SIM	Anthracene	169	ug/kg	6.1	05/03/24 12:45	
EPA 8270 by SIM	Benzo(a)anthracene	664	ug/kg	6.1	05/03/24 12:45	
EPA 8270 by SIM	Benzo(a)pyrene	582	ug/kg	6.1	05/03/24 12:45	
EPA 8270 by SIM	Benzo(b)fluoranthene	766	ug/kg	6.1	05/03/24 12:45	
EPA 8270 by SIM	Benzo(g,h,i)perylene	321	ug/kg	6.1	05/03/24 12:45	
EPA 8270 by SIM	Benzo(k)fluoranthene	264	ug/kg	6.1	05/03/24 12:45	
EPA 8270 by SIM	Chrysene	650	ug/kg	6.1	05/03/24 12:45	
EPA 8270 by SIM	Dibenz(a,h)anthracene	102	ug/kg	6.1	05/03/24 12:45	
EPA 8270 by SIM	Fluoranthene	1220	ug/kg	6.1	05/03/24 12:45	
EPA 8270 by SIM	Fluorene	76.6	ug/kg	6.1	05/03/24 12:45	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	267	ug/kg	6.1	05/03/24 12:45	
EPA 8270 by SIM	1-Methylnaphthalene	1420	ug/kg	6.1	05/03/24 12:45	
EPA 8270 by SIM	2-Methylnaphthalene	1920	ug/kg	6.1	05/03/24 12:45	
EPA 8270 by SIM	Naphthalene	1840	ug/kg	6.1	05/03/24 12:45	
EPA 8270 by SIM	Phenanthrene	1330	ug/kg	6.1	05/03/24 12:45	
EPA 8270 by SIM	Pyrene	1180	ug/kg	6.1	05/03/24 12:45	
SM 2540G	Percent Moisture	19.9	%	0.10	05/09/24 15:06	N2
50371662002	**SB1 (11-13)**					
EPA 6010	Arsenic	4.2	mg/kg	1.0	05/10/24 11:20	
EPA 6010	Barium	22.5	mg/kg	1.0	05/10/24 11:20	
EPA 6010	Chromium	6.6	mg/kg	1.0	05/10/24 11:20	
EPA 6010	Lead	5.3	mg/kg	1.0	05/10/24 11:20	
EPA 8270 by SIM	Chrysene	8.1	ug/kg	5.8	05/03/24 12:59	
SM 2540G	Percent Moisture	14.0	%	0.10	05/09/24 15:06	N2
50371662003	**SB2 (0-2)**					
EPA 6010	Arsenic	8.4	mg/kg	1.1	05/10/24 11:21	
EPA 6010	Barium	67.7	mg/kg	1.1	05/10/24 11:21	
EPA 6010	Chromium	12.1	mg/kg	1.1	05/10/24 11:21	
EPA 6010	Lead	39.0	mg/kg	1.1	05/10/24 11:21	
EPA 8270 by SIM	Benzo(a)anthracene	10.1	ug/kg	5.5	05/03/24 13:13	
EPA 8270 by SIM	Benzo(a)pyrene	11.2	ug/kg	5.5	05/03/24 13:13	
EPA 8270 by SIM	Benzo(b)fluoranthene	16.4	ug/kg	5.5	05/03/24 13:13	
EPA 8270 by SIM	Benzo(g,h,i)perylene	8.3	ug/kg	5.5	05/03/24 13:13	
EPA 8270 by SIM	Chrysene	11.9	ug/kg	5.5	05/03/24 13:13	
EPA 8270 by SIM	Fluoranthene	17.2	ug/kg	5.5	05/03/24 13:13	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	6.7	ug/kg	5.5	05/03/24 13:13	
EPA 8270 by SIM	1-Methylnaphthalene	8.7	ug/kg	5.5	05/03/24 13:13	
EPA 8270 by SIM	2-Methylnaphthalene	10.2	ug/kg	5.5	05/03/24 13:13	
EPA 8270 by SIM	Naphthalene	7.1	ug/kg	5.5	05/03/24 13:13	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50371662003	**SB2 (0-2)**					
EPA 8270 by SIM	Phenanthrene	13.7	ug/kg	5.5	05/03/24 13:13	
EPA 8270 by SIM	Pyrene	16.8	ug/kg	5.5	05/03/24 13:13	
SM 2540G	Percent Moisture	14.8	%	0.10	05/09/24 15:06	N2
50371662004	**SB2 (13-15)**					
EPA 6010	Arsenic	5.1	mg/kg	0.99	05/10/24 11:23	
EPA 6010	Barium	14.8	mg/kg	0.99	05/10/24 11:23	
EPA 6010	Chromium	6.0	mg/kg	0.99	05/10/24 11:23	
EPA 6010	Lead	4.1	mg/kg	0.99	05/10/24 11:23	
EPA 8270 by SIM	Chrysene	8.0	ug/kg	5.2	05/03/24 13:27	
SM 2540G	Percent Moisture	6.2	%	0.10	05/09/24 15:07	N2
50371662005	**SB3 (8.5-10.5)**					
EPA 6010	Arsenic	3.2	mg/kg	0.93	05/10/24 11:25	
EPA 6010	Barium	10.6	mg/kg	0.93	05/10/24 11:25	
EPA 6010	Chromium	4.7	mg/kg	0.93	05/10/24 11:25	
EPA 6010	Lead	5.1	mg/kg	0.93	05/10/24 11:25	
EPA 8260	n-Hexane	21.4	ug/kg	5.5	05/06/24 11:59	
SM 2540G	Percent Moisture	2.6	%	0.10	05/09/24 15:07	N2
50371662006	**SB3 (0-2)**					
EPA 6010	Arsenic	3.1	mg/kg	1.1	05/10/24 11:27	
EPA 6010	Barium	65.2	mg/kg	1.1	05/10/24 11:27	
EPA 6010	Chromium	12.5	mg/kg	1.1	05/10/24 11:27	
EPA 6010	Lead	32.2	mg/kg	1.1	05/10/24 11:27	
EPA 8270 by SIM	Benzo(a)anthracene	11.7	ug/kg	5.6	05/03/24 13:56	
EPA 8270 by SIM	Benzo(a)pyrene	15.0	ug/kg	5.6	05/03/24 13:56	
EPA 8270 by SIM	Benzo(b)fluoranthene	20.5	ug/kg	5.6	05/03/24 13:56	
EPA 8270 by SIM	Benzo(g,h,i)perylene	10.0	ug/kg	5.6	05/03/24 13:56	
EPA 8270 by SIM	Benzo(k)fluoranthene	7.1	ug/kg	5.6	05/03/24 13:56	
EPA 8270 by SIM	Chrysene	13.3	ug/kg	5.6	05/03/24 13:56	
EPA 8270 by SIM	Fluoranthene	20.5	ug/kg	5.6	05/03/24 13:56	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	9.1	ug/kg	5.6	05/03/24 13:56	
EPA 8270 by SIM	1-Methylnaphthalene	7.5	ug/kg	5.6	05/03/24 13:56	
EPA 8270 by SIM	2-Methylnaphthalene	9.2	ug/kg	5.6	05/03/24 13:56	
EPA 8270 by SIM	Naphthalene	6.1	ug/kg	5.6	05/03/24 13:56	
EPA 8270 by SIM	Phenanthrene	10.4	ug/kg	5.6	05/03/24 13:56	
EPA 8270 by SIM	Pyrene	18.8	ug/kg	5.6	05/03/24 13:56	
SM 2540G	Percent Moisture	14.7	%	0.10	05/09/24 15:07	N2
50371662007	**SB4 (0-2)**					
EPA 6010	Arsenic	6.9	mg/kg	0.97	05/10/24 11:28	
EPA 6010	Barium	49.4	mg/kg	0.97	05/10/24 11:28	
EPA 6010	Chromium	7.4	mg/kg	0.97	05/10/24 11:28	
EPA 6010	Lead	53.7	mg/kg	0.97	05/10/24 11:28	
EPA 8270 by SIM	Benzo(a)anthracene	15.5	ug/kg	5.2	05/03/24 14:10	
EPA 8270 by SIM	Benzo(a)pyrene	16.4	ug/kg	5.2	05/03/24 14:10	
EPA 8270 by SIM	Benzo(b)fluoranthene	21.7	ug/kg	5.2	05/03/24 14:10	
EPA 8270 by SIM	Benzo(g,h,i)perylene	10.7	ug/kg	5.2	05/03/24 14:10	

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

SUMMARY OF DETECTION

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50371662007	**SB4 (0-2)**					
EPA 8270 by SIM	Benzo(k)fluoranthene	7.6	ug/kg	5.2	05/03/24 14:10	
EPA 8270 by SIM	Chrysene	17.4	ug/kg	5.2	05/03/24 14:10	
EPA 8270 by SIM	Fluoranthene	25.3	ug/kg	5.2	05/03/24 14:10	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	8.5	ug/kg	5.2	05/03/24 14:10	
EPA 8270 by SIM	1-Methylnaphthalene	43.9	ug/kg	5.2	05/03/24 14:10	
EPA 8270 by SIM	2-Methylnaphthalene	59.0	ug/kg	5.2	05/03/24 14:10	
EPA 8270 by SIM	Naphthalene	40.9	ug/kg	5.2	05/03/24 14:10	
EPA 8270 by SIM	Phenanthrene	30.4	ug/kg	5.2	05/03/24 14:10	
EPA 8270 by SIM	Pyrene	25.0	ug/kg	5.2	05/03/24 14:10	
SM 2540G	Percent Moisture	9.0	%	0.10	05/09/24 15:07	N2
50371662008	**SB4 (13-15)**					
EPA 6010	Arsenic	7.7	mg/kg	0.97	05/10/24 11:40	
EPA 6010	Barium	34.1	mg/kg	0.97	05/10/24 11:40	
EPA 6010	Chromium	10.3	mg/kg	0.97	05/10/24 11:40	
EPA 6010	Lead	6.3	mg/kg	0.97	05/10/24 11:40	
EPA 8270 by SIM	Benzo(g,h,i)perylene	5.6	ug/kg	5.2	05/03/24 14:53	
EPA 8270 by SIM	Chrysene	6.6	ug/kg	5.2	05/03/24 14:53	
EPA 8270 by SIM	Phenanthrene	7.4	ug/kg	5.2	05/03/24 14:53	
SM 2540G	Percent Moisture	6.9	%	0.10	05/09/24 15:07	N2
50371662009	**SB5 (0-2)**					
EPA 6010	Arsenic	4.0	mg/kg	1.0	05/10/24 11:42	
EPA 6010	Barium	32.4	mg/kg	1.0	05/10/24 11:42	
EPA 6010	Cadmium	0.95	mg/kg	0.50	05/10/24 11:42	
EPA 6010	Chromium	7.8	mg/kg	1.0	05/10/24 11:42	
EPA 6010	Lead	92.9	mg/kg	1.0	05/10/24 11:42	
EPA 8270 by SIM	Acenaphthylene	5.5	ug/kg	5.3	05/03/24 15:36	
EPA 8270 by SIM	Anthracene	8.7	ug/kg	5.3	05/03/24 15:36	
EPA 8270 by SIM	Benzo(a)anthracene	47.0	ug/kg	5.3	05/03/24 15:36	
EPA 8270 by SIM	Benzo(a)pyrene	59.7	ug/kg	5.3	05/03/24 15:36	
EPA 8270 by SIM	Benzo(b)fluoranthene	81.0	ug/kg	5.3	05/03/24 15:36	
EPA 8270 by SIM	Benzo(g,h,i)perylene	42.5	ug/kg	5.3	05/03/24 15:36	
EPA 8270 by SIM	Benzo(k)fluoranthene	30.8	ug/kg	5.3	05/03/24 15:36	
EPA 8270 by SIM	Chrysene	55.6	ug/kg	5.3	05/03/24 15:36	
EPA 8270 by SIM	Dibenz(a,h)anthracene	10.6	ug/kg	5.3	05/03/24 15:36	
EPA 8270 by SIM	Fluoranthene	104	ug/kg	5.3	05/03/24 15:36	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	37.4	ug/kg	5.3	05/03/24 15:36	
EPA 8270 by SIM	1-Methylnaphthalene	17.8	ug/kg	5.3	05/03/24 15:36	
EPA 8270 by SIM	2-Methylnaphthalene	27.3	ug/kg	5.3	05/03/24 15:36	
EPA 8270 by SIM	Naphthalene	17.6	ug/kg	5.3	05/03/24 15:36	
EPA 8270 by SIM	Phenanthrene	53.6	ug/kg	5.3	05/03/24 15:36	
EPA 8270 by SIM	Pyrene	90.9	ug/kg	5.3	05/03/24 15:36	
SM 2540G	Percent Moisture	8.7	%	0.10	05/09/24 15:07	N2
50371662010	**SB5 (9-11)**					
EPA 6010	Arsenic	4.3	mg/kg	1.1	05/10/24 11:44	
EPA 6010	Barium	12.1	mg/kg	1.1	05/10/24 11:44	
EPA 6010	Chromium	6.8	mg/kg	1.1	05/10/24 11:44	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50371662010	**SB5 (9-11)**					
EPA 6010	Lead	8.2	mg/kg	1.1	05/10/24 11:44	
EPA 8270 by SIM	Acenaphthene	21.2	ug/kg	5.7	05/03/24 15:50	
EPA 8270 by SIM	Acenaphthylene	8.6	ug/kg	5.7	05/03/24 15:50	
EPA 8270 by SIM	Fluorene	21.5	ug/kg	5.7	05/03/24 15:50	
EPA 8270 by SIM	1-Methylnaphthalene	2570	ug/kg	5.7	05/03/24 15:50	
EPA 8270 by SIM	2-Methylnaphthalene	5570	ug/kg	5.7	05/03/24 15:50	
EPA 8270 by SIM	Naphthalene	2840	ug/kg	5.7	05/03/24 15:50	
EPA 8270 by SIM	Phenanthrene	35.1	ug/kg	5.7	05/03/24 15:50	
EPA 8270 by SIM	Pyrene	7.4	ug/kg	5.7	05/03/24 15:50	
EPA 8260	n-Butylbenzene	9870	ug/kg	4850	05/06/24 10:27	
EPA 8260	Ethylbenzene	5880	ug/kg	4850	05/03/24 02:23	
EPA 8260	n-Hexane	11200	ug/kg	4850	05/06/24 10:27	
EPA 8260	Isopropylbenzene (Cumene)	6170	ug/kg	4850	05/03/24 02:23	
EPA 8260	Naphthalene	13700	ug/kg	4850	05/03/24 02:23	
EPA 8260	n-Propylbenzene	19900	ug/kg	4850	05/06/24 10:27	
SM 2540G	Percent Moisture	13.1	%	0.10	05/09/24 15:07	N2
50371662011	**SB6 (0-2)**					
EPA 6010	Arsenic	14.4	mg/kg	1.1	05/10/24 11:45	
EPA 6010	Barium	158	mg/kg	1.1	05/10/24 11:45	
EPA 6010	Cadmium	1.9	mg/kg	0.55	05/10/24 11:45	
EPA 6010	Chromium	16.6	mg/kg	1.1	05/10/24 11:45	
EPA 6010	Lead	235	mg/kg	1.1	05/10/24 11:45	
EPA 7471	Mercury	0.37	mg/kg	0.24	05/09/24 18:41	
EPA 8270 by SIM	Acenaphthene	24900	ug/kg	58.4	05/03/24 16:04	
EPA 8270 by SIM	Acenaphthylene	1390	ug/kg	58.4	05/03/24 16:04	
EPA 8270 by SIM	Anthracene	44900	ug/kg	58.4	05/03/24 16:04	
EPA 8270 by SIM	Benzo(a)anthracene	52800	ug/kg	58.4	05/03/24 16:04	
EPA 8270 by SIM	Benzo(a)pyrene	49100	ug/kg	58.4	05/03/24 16:04	
EPA 8270 by SIM	Benzo(b)fluoranthene	50600	ug/kg	58.4	05/03/24 16:04	
EPA 8270 by SIM	Benzo(g,h,i)perylene	22000	ug/kg	58.4	05/03/24 16:04	
EPA 8270 by SIM	Benzo(k)fluoranthene	24300	ug/kg	58.4	05/03/24 16:04	
EPA 8270 by SIM	Chrysene	44800	ug/kg	58.4	05/03/24 16:04	
EPA 8270 by SIM	Dibenz(a,h)anthracene	6260	ug/kg	58.4	05/03/24 16:04	
EPA 8270 by SIM	Fluoranthene	143000	ug/kg	292	05/03/24 19:38	
EPA 8270 by SIM	Fluorene	26400	ug/kg	58.4	05/03/24 16:04	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	20900	ug/kg	58.4	05/03/24 16:04	
EPA 8270 by SIM	1-Methylnaphthalene	11500	ug/kg	58.4	05/03/24 16:04	
EPA 8270 by SIM	2-Methylnaphthalene	14800	ug/kg	58.4	05/03/24 16:04	
EPA 8270 by SIM	Naphthalene	22500	ug/kg	58.4	05/03/24 16:04	ED
EPA 8270 by SIM	Phenanthrene	198000	ug/kg	292	05/03/24 19:38	
EPA 8270 by SIM	Pyrene	135000	ug/kg	292	05/03/24 19:38	
SM 2540G	Percent Moisture	17.1	%	0.10	05/09/24 15:07	N2
50371662012	**SB6 (7-9)**					
EPA 6010	Arsenic	2.2	mg/kg	1.0	05/10/24 11:47	
EPA 6010	Barium	17.9	mg/kg	1.0	05/10/24 11:47	
EPA 6010	Chromium	7.5	mg/kg	1.0	05/10/24 11:47	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50371662012	**SB6 (7-9)**					
EPA 6010	Lead	4.9	mg/kg	1.0	05/10/24 11:47	
SM 2540G	Percent Moisture	10.9	%	0.10	05/09/24 15:07	N2
50371662013	**SB7 (0-2)**					
EPA 6010	Arsenic	3.5	mg/kg	1.1	05/10/24 11:49	
EPA 6010	Barium	76.7	mg/kg	1.1	05/10/24 11:49	
EPA 6010	Chromium	20.6	mg/kg	1.1	05/10/24 11:49	
EPA 6010	Lead	13.8	mg/kg	1.1	05/10/24 11:49	
SM 2540G	Percent Moisture	17.5	%	0.10	05/09/24 15:07	N2
50371662014	**SB7 (7-9)**					
EPA 6010	Arsenic	2.6	mg/kg	1.1	05/10/24 11:51	
EPA 6010	Barium	25.2	mg/kg	1.1	05/10/24 11:51	
EPA 6010	Chromium	9.5	mg/kg	1.1	05/10/24 11:51	
EPA 6010	Lead	6.9	mg/kg	1.1	05/10/24 11:51	
SM 2540G	Percent Moisture	18.4	%	0.10	05/09/24 15:07	N2
50371662015	**S-DUP1**					
EPA 6010	Arsenic	5.2	mg/kg	1.0	05/10/24 11:56	
EPA 6010	Barium	16.6	mg/kg	1.0	05/10/24 11:56	
EPA 6010	Chromium	10.0	mg/kg	1.0	05/10/24 11:56	
EPA 6010	Lead	12.2	mg/kg	1.0	05/10/24 11:56	
EPA 8270 by SIM	Acenaphthene	8.6	ug/kg	5.6	05/03/24 00:25	
EPA 8270 by SIM	Fluorene	11.4	ug/kg	5.6	05/03/24 00:25	
EPA 8270 by SIM	1-Methylnaphthalene	1340	ug/kg	5.6	05/03/24 00:25	
EPA 8270 by SIM	2-Methylnaphthalene	2900	ug/kg	5.6	05/03/24 00:25	
EPA 8270 by SIM	Naphthalene	1450	ug/kg	5.6	05/03/24 00:25	
EPA 8270 by SIM	Phenanthrene	15.8	ug/kg	5.6	05/03/24 00:25	
EPA 8260	Naphthalene	7820	ug/kg	4760	05/03/24 05:26	
EPA 8260	n-Propylbenzene	7000	ug/kg	4760	05/06/24 10:58	
SM 2540G	Percent Moisture	15.5	%	0.10	05/09/24 15:08	N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB1 (0-2) **Lab ID: 50371662001** Collected: 04/26/24 09:30 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Indianapolis							
Arsenic	**14.5**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:18	7440-38-2	
Barium	**195**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:18	7440-39-3	
Cadmium	**0.93**	mg/kg	0.57	1	05/09/24 15:40	05/10/24 11:18	7440-43-9	
Chromium	**13.6**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:18	7440-47-3	
Lead	**85.5**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:18	7439-92-1	
Selenium	ND	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:18	7782-49-2	
Silver	ND	mg/kg	0.57	1	05/09/24 15:40	05/10/24 11:18	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Indianapolis							
Mercury	ND	mg/kg	0.24	1	05/09/24 10:02	05/09/24 18:07	7439-97-6	
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	**40.6**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	83-32-9	
Acenaphthylene	**206**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	208-96-8	
Anthracene	**169**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	120-12-7	
Benzo(a)anthracene	**664**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	56-55-3	
Benzo(a)pyrene	**582**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	50-32-8	
Benzo(b)fluoranthene	**766**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	205-99-2	
Benzo(g,h,i)perylene	**321**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	191-24-2	
Benzo(k)fluoranthene	**264**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	207-08-9	
Chrysene	**650**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	218-01-9	
Dibenz(a,h)anthracene	**102**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	53-70-3	
Fluoranthene	**1220**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	206-44-0	
Fluorene	**76.6**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	86-73-7	
Indeno(1,2,3-cd)pyrene	**267**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	193-39-5	
1-Methylnaphthalene	**1420**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	90-12-0	
2-Methylnaphthalene	**1920**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	91-57-6	
Naphthalene	**1840**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	91-20-3	
Phenanthrene	**1330**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	85-01-8	
Pyrene	**1180**	ug/kg	6.1	1	05/02/24 14:27	05/03/24 12:45	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60	%.	16-93	1	05/02/24 14:27	05/03/24 12:45	321-60-8	
p-Terphenyl-d14 (S)	68	%.	19-115	1	05/02/24 14:27	05/03/24 12:45	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	126	1		05/03/24 04:10	67-64-1	
Acrolein	ND	ug/kg	126	1		05/03/24 04:10	107-02-8	
Acrylonitrile	ND	ug/kg	126	1		05/03/24 04:10	107-13-1	
Benzene	ND	ug/kg	6.3	1		05/03/24 04:10	71-43-2	
Bromobenzene	ND	ug/kg	6.3	1		05/03/24 04:10	108-86-1	
Bromochloromethane	ND	ug/kg	6.3	1		05/03/24 04:10	74-97-5	
Bromodichloromethane	ND	ug/kg	6.3	1		05/03/24 04:10	75-27-4	

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB1 (0-2) **Lab ID: 50371662001** Collected: 04/26/24 09:30 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/kg	6.3	1		05/03/24 04:10	75-25-2	
Bromomethane	ND	ug/kg	6.3	1		05/03/24 04:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	31.6	1		05/03/24 04:10	78-93-3	
n-Butylbenzene	ND	ug/kg	6.3	1		05/03/24 04:10	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.3	1		05/03/24 04:10	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.3	1		05/03/24 04:10	98-06-6	
Carbon disulfide	ND	ug/kg	12.6	1		05/03/24 04:10	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.3	1		05/03/24 04:10	56-23-5	
Chlorobenzene	ND	ug/kg	6.3	1		05/03/24 04:10	108-90-7	
Chloroethane	ND	ug/kg	6.3	1		05/03/24 04:10	75-00-3	
Chloroform	ND	ug/kg	6.3	1		05/03/24 04:10	67-66-3	
Chloromethane	ND	ug/kg	6.3	1		05/03/24 04:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.3	1		05/03/24 04:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.3	1		05/03/24 04:10	106-43-4	
Dibromochloromethane	ND	ug/kg	6.3	1		05/03/24 04:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.3	1		05/03/24 04:10	106-93-4	
Dibromomethane	ND	ug/kg	6.3	1		05/03/24 04:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.3	1		05/03/24 04:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.3	1		05/03/24 04:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.3	1		05/03/24 04:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	126	1		05/03/24 04:10	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	6.3	1		05/03/24 04:10	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.3	1		05/03/24 04:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.3	1		05/03/24 04:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.3	1		05/03/24 04:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.3	1		05/03/24 04:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.3	1		05/03/24 04:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.3	1		05/03/24 04:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.3	1		05/03/24 04:10	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.3	1		05/03/24 04:10	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.3	1		05/03/24 04:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.3	1		05/03/24 04:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.3	1		05/03/24 04:10	10061-02-6	
Ethylbenzene	ND	ug/kg	6.3	1		05/03/24 04:10	100-41-4	
Ethyl methacrylate	ND	ug/kg	126	1		05/03/24 04:10	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	6.3	1		05/03/24 04:10	87-68-3	
n-Hexane	ND	ug/kg	6.3	1		05/03/24 04:10	110-54-3	
2-Hexanone	ND	ug/kg	126	1		05/03/24 04:10	591-78-6	
Iodomethane	ND	ug/kg	126	1		05/03/24 04:10	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	6.3	1		05/03/24 04:10	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.3	1		05/03/24 04:10	99-87-6	
Methylene Chloride	ND	ug/kg	25.3	1		05/03/24 04:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	31.6	1		05/03/24 04:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.3	1		05/03/24 04:10	1634-04-4	
Naphthalene	ND	ug/kg	6.3	1		05/03/24 04:10	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB1 (0-2) **Lab ID: 50371662001** Collected: 04/26/24 09:30 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
	Pace Analytical Services - Indianapolis							
n-Propylbenzene	ND	ug/kg	6.3	1		05/03/24 04:10	103-65-1	
Styrene	ND	ug/kg	6.3	1		05/03/24 04:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.3	1		05/03/24 04:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.3	1		05/03/24 04:10	79-34-5	
Tetrachloroethene	ND	ug/kg	6.3	1		05/03/24 04:10	127-18-4	
Toluene	ND	ug/kg	6.3	1		05/03/24 04:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.3	1		05/03/24 04:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.3	1		05/03/24 04:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.3	1		05/03/24 04:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.3	1		05/03/24 04:10	79-00-5	
Trichloroethene	ND	ug/kg	6.3	1		05/03/24 04:10	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.3	1		05/03/24 04:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.3	1		05/03/24 04:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.3	1		05/03/24 04:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.3	1		05/03/24 04:10	108-67-8	
Vinyl acetate	ND	ug/kg	126	1		05/03/24 04:10	108-05-4	
Vinyl chloride	ND	ug/kg	6.3	1		05/03/24 04:10	75-01-4	
Xylene (Total)	ND	ug/kg	12.6	1		05/03/24 04:10	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	113	%.	75-135	1		05/03/24 04:10	1868-53-7	
Toluene-d8 (S)	113	%.	65-148	1		05/03/24 04:10	2037-26-5	
4-Bromofluorobenzene (S)	81	%.	63-132	1		05/03/24 04:10	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
	Pace Analytical Services - Indianapolis							
Percent Moisture	**19.9**	%	0.10	1		05/09/24 15:06		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB1 (11-13) **Lab ID: 50371662002** Collected: 04/26/24 09:40 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Indianapolis							
Arsenic	**4.2**	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:20	7440-38-2	
Barium	**22.5**	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:20	7440-39-3	
Cadmium	ND	mg/kg	0.52	1	05/09/24 15:40	05/10/24 11:20	7440-43-9	
Chromium	**6.6**	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:20	7440-47-3	
Lead	**5.3**	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:20	7439-92-1	
Selenium	ND	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:20	7782-49-2	
Silver	ND	mg/kg	0.52	1	05/09/24 15:40	05/10/24 11:20	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Indianapolis							
Mercury	ND	mg/kg	0.25	1	05/09/24 10:02	05/09/24 18:09	7439-97-6	
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	83-32-9	
Acenaphthylene	ND	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	208-96-8	
Anthracene	ND	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	207-08-9	
Chrysene	**8.1**	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	53-70-3	
Fluoranthene	ND	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	206-44-0	
Fluorene	ND	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	193-39-5	
1-Methylnaphthalene	ND	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	90-12-0	
2-Methylnaphthalene	ND	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	91-57-6	
Naphthalene	ND	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	91-20-3	
Phenanthrene	ND	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	85-01-8	
Pyrene	ND	ug/kg	5.8	1	05/02/24 14:27	05/03/24 12:59	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	67	%.	16-93	1	05/02/24 14:27	05/03/24 12:59	321-60-8	
p-Terphenyl-d14 (S)	81	%.	19-115	1	05/02/24 14:27	05/03/24 12:59	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	93.9	1		05/03/24 04:40	67-64-1	
Acrolein	ND	ug/kg	93.9	1		05/03/24 04:40	107-02-8	
Acrylonitrile	ND	ug/kg	93.9	1		05/03/24 04:40	107-13-1	
Benzene	ND	ug/kg	4.7	1		05/03/24 04:40	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		05/03/24 04:40	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		05/03/24 04:40	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		05/03/24 04:40	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB1 (11-13) **Lab ID: 50371662002** Collected: 04/26/24 09:40 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/kg	4.7	1		05/03/24 04:40	75-25-2	
Bromomethane	ND	ug/kg	4.7	1		05/03/24 04:40	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.5	1		05/03/24 04:40	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		05/03/24 04:40	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		05/03/24 04:40	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		05/03/24 04:40	98-06-6	
Carbon disulfide	ND	ug/kg	9.4	1		05/03/24 04:40	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.7	1		05/03/24 04:40	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		05/03/24 04:40	108-90-7	
Chloroethane	ND	ug/kg	4.7	1		05/03/24 04:40	75-00-3	
Chloroform	ND	ug/kg	4.7	1		05/03/24 04:40	67-66-3	
Chloromethane	ND	ug/kg	4.7	1		05/03/24 04:40	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		05/03/24 04:40	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		05/03/24 04:40	106-43-4	
Dibromochloromethane	ND	ug/kg	4.7	1		05/03/24 04:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		05/03/24 04:40	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		05/03/24 04:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		05/03/24 04:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		05/03/24 04:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		05/03/24 04:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	93.9	1		05/03/24 04:40	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.7	1		05/03/24 04:40	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		05/03/24 04:40	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		05/03/24 04:40	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		05/03/24 04:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		05/03/24 04:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		05/03/24 04:40	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		05/03/24 04:40	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		05/03/24 04:40	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		05/03/24 04:40	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		05/03/24 04:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		05/03/24 04:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		05/03/24 04:40	10061-02-6	
Ethylbenzene	ND	ug/kg	4.7	1		05/03/24 04:40	100-41-4	
Ethyl methacrylate	ND	ug/kg	93.9	1		05/03/24 04:40	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		05/03/24 04:40	87-68-3	
n-Hexane	ND	ug/kg	4.7	1		05/03/24 04:40	110-54-3	
2-Hexanone	ND	ug/kg	93.9	1		05/03/24 04:40	591-78-6	
Iodomethane	ND	ug/kg	93.9	1		05/03/24 04:40	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		05/03/24 04:40	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		05/03/24 04:40	99-87-6	
Methylene Chloride	ND	ug/kg	18.8	1		05/03/24 04:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.5	1		05/03/24 04:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		05/03/24 04:40	1634-04-4	
Naphthalene	ND	ug/kg	4.7	1		05/03/24 04:40	91-20-3	

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB1 (11-13) **Lab ID: 50371662002** Collected: 04/26/24 09:40 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
n-Propylbenzene	ND	ug/kg	4.7	1		05/03/24 04:40	103-65-1	
Styrene	ND	ug/kg	4.7	1		05/03/24 04:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		05/03/24 04:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		05/03/24 04:40	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		05/03/24 04:40	127-18-4	
Toluene	ND	ug/kg	4.7	1		05/03/24 04:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		05/03/24 04:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		05/03/24 04:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		05/03/24 04:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		05/03/24 04:40	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		05/03/24 04:40	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		05/03/24 04:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		05/03/24 04:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		05/03/24 04:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		05/03/24 04:40	108-67-8	
Vinyl acetate	ND	ug/kg	93.9	1		05/03/24 04:40	108-05-4	
Vinyl chloride	ND	ug/kg	4.7	1		05/03/24 04:40	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		05/03/24 04:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	122	%.	75-135	1		05/03/24 04:40	1868-53-7	
Toluene-d8 (S)	140	%.	65-148	1		05/03/24 04:40	2037-26-5	
4-Bromofluorobenzene (S)	74	%.	63-132	1		05/03/24 04:40	460-00-4	
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis							
Percent Moisture	**14.0**	%	0.10	1		05/09/24 15:06		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB2 (0-2) **Lab ID: 50371662003** Collected: 04/26/24 10:10 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Indianapolis							
Arsenic	**8.4**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:21	7440-38-2	
Barium	**67.7**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:21	7440-39-3	
Cadmium	ND	mg/kg	0.57	1	05/09/24 15:40	05/10/24 11:21	7440-43-9	
Chromium	**12.1**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:21	7440-47-3	
Lead	**39.0**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:21	7439-92-1	
Selenium	ND	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:21	7782-49-2	
Silver	ND	mg/kg	0.57	1	05/09/24 15:40	05/10/24 11:21	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Indianapolis							
Mercury	ND	mg/kg	0.23	1	05/09/24 10:02	05/09/24 18:12	7439-97-6	
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	83-32-9	
Acenaphthylene	ND	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	208-96-8	
Anthracene	ND	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	120-12-7	
Benzo(a)anthracene	**10.1**	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	56-55-3	
Benzo(a)pyrene	**11.2**	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	50-32-8	
Benzo(b)fluoranthene	**16.4**	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	205-99-2	
Benzo(g,h,i)perylene	**8.3**	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	207-08-9	
Chrysene	**11.9**	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	53-70-3	
Fluoranthene	**17.2**	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	206-44-0	
Fluorene	ND	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	86-73-7	
Indeno(1,2,3-cd)pyrene	**6.7**	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	193-39-5	
1-Methylnaphthalene	**8.7**	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	90-12-0	
2-Methylnaphthalene	**10.2**	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	91-57-6	
Naphthalene	**7.1**	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	91-20-3	
Phenanthrene	**13.7**	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	85-01-8	
Pyrene	**16.8**	ug/kg	5.5	1	05/02/24 14:27	05/03/24 13:13	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	57	%.	16-93	1	05/02/24 14:27	05/03/24 13:13	321-60-8	
p-Terphenyl-d14 (S)	66	%.	19-115	1	05/02/24 14:27	05/03/24 13:13	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	106	1		05/03/24 05:10	67-64-1	
Acrolein	ND	ug/kg	106	1		05/03/24 05:10	107-02-8	
Acrylonitrile	ND	ug/kg	106	1		05/03/24 05:10	107-13-1	
Benzene	ND	ug/kg	5.3	1		05/03/24 05:10	71-43-2	
Bromobenzene	ND	ug/kg	5.3	1		05/03/24 05:10	108-86-1	
Bromochloromethane	ND	ug/kg	5.3	1		05/03/24 05:10	74-97-5	
Bromodichloromethane	ND	ug/kg	5.3	1		05/03/24 05:10	75-27-4	

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB2 (0-2) **Lab ID: 50371662003** Collected: 04/26/24 10:10 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/kg	5.3	1		05/03/24 05:10	75-25-2	
Bromomethane	ND	ug/kg	5.3	1		05/03/24 05:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	26.4	1		05/03/24 05:10	78-93-3	
n-Butylbenzene	ND	ug/kg	5.3	1		05/03/24 05:10	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.3	1		05/03/24 05:10	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.3	1		05/03/24 05:10	98-06-6	
Carbon disulfide	ND	ug/kg	10.6	1		05/03/24 05:10	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.3	1		05/03/24 05:10	56-23-5	
Chlorobenzene	ND	ug/kg	5.3	1		05/03/24 05:10	108-90-7	
Chloroethane	ND	ug/kg	5.3	1		05/03/24 05:10	75-00-3	
Chloroform	ND	ug/kg	5.3	1		05/03/24 05:10	67-66-3	
Chloromethane	ND	ug/kg	5.3	1		05/03/24 05:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.3	1		05/03/24 05:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.3	1		05/03/24 05:10	106-43-4	
Dibromochloromethane	ND	ug/kg	5.3	1		05/03/24 05:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.3	1		05/03/24 05:10	106-93-4	
Dibromomethane	ND	ug/kg	5.3	1		05/03/24 05:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.3	1		05/03/24 05:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.3	1		05/03/24 05:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.3	1		05/03/24 05:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	106	1		05/03/24 05:10	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.3	1		05/03/24 05:10	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.3	1		05/03/24 05:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1		05/03/24 05:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.3	1		05/03/24 05:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.3	1		05/03/24 05:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1		05/03/24 05:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.3	1		05/03/24 05:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.3	1		05/03/24 05:10	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.3	1		05/03/24 05:10	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.3	1		05/03/24 05:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.3	1		05/03/24 05:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1		05/03/24 05:10	10061-02-6	
Ethylbenzene	ND	ug/kg	5.3	1		05/03/24 05:10	100-41-4	
Ethyl methacrylate	ND	ug/kg	106	1		05/03/24 05:10	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.3	1		05/03/24 05:10	87-68-3	
n-Hexane	ND	ug/kg	4.7	1		05/06/24 11:29	110-54-3	
2-Hexanone	ND	ug/kg	106	1		05/03/24 05:10	591-78-6	
Iodomethane	ND	ug/kg	106	1		05/03/24 05:10	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1		05/03/24 05:10	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.3	1		05/03/24 05:10	99-87-6	
Methylene Chloride	ND	ug/kg	21.1	1		05/03/24 05:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.4	1		05/03/24 05:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	1		05/03/24 05:10	1634-04-4	
Naphthalene	ND	ug/kg	5.3	1		05/03/24 05:10	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB2 (0-2) **Lab ID: 50371662003** Collected: 04/26/24 10:10 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
	Pace Analytical Services - Indianapolis							
n-Propylbenzene	ND	ug/kg	5.3	1		05/03/24 05:10	103-65-1	
Styrene	ND	ug/kg	5.3	1		05/03/24 05:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	1		05/03/24 05:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	1		05/03/24 05:10	79-34-5	
Tetrachloroethene	ND	ug/kg	5.3	1		05/03/24 05:10	127-18-4	
Toluene	ND	ug/kg	5.3	1		05/03/24 05:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	1		05/03/24 05:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	1		05/03/24 05:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1		05/03/24 05:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1		05/03/24 05:10	79-00-5	
Trichloroethene	ND	ug/kg	5.3	1		05/03/24 05:10	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.3	1		05/03/24 05:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.3	1		05/03/24 05:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	1		05/03/24 05:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	1		05/03/24 05:10	108-67-8	
Vinyl acetate	ND	ug/kg	106	1		05/03/24 05:10	108-05-4	
Vinyl chloride	ND	ug/kg	5.3	1		05/03/24 05:10	75-01-4	
Xylene (Total)	ND	ug/kg	10.6	1		05/03/24 05:10	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%.	75-135	1		05/03/24 05:10	1868-53-7	
Toluene-d8 (S)	102	%.	65-148	1		05/03/24 05:10	2037-26-5	
4-Bromofluorobenzene (S)	92	%.	63-132	1		05/03/24 05:10	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
	Pace Analytical Services - Indianapolis							
Percent Moisture	**14.8**	%	0.10	1		05/09/24 15:06		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB2 (13-15) **Lab ID: 50371662004** Collected: 04/26/24 10:15 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Indianapolis							
Arsenic	**5.1**	mg/kg	0.99	1	05/09/24 15:40	05/10/24 11:23	7440-38-2	
Barium	**14.8**	mg/kg	0.99	1	05/09/24 15:40	05/10/24 11:23	7440-39-3	
Cadmium	ND	mg/kg	0.49	1	05/09/24 15:40	05/10/24 11:23	7440-43-9	
Chromium	**6.0**	mg/kg	0.99	1	05/09/24 15:40	05/10/24 11:23	7440-47-3	
Lead	**4.1**	mg/kg	0.99	1	05/09/24 15:40	05/10/24 11:23	7439-92-1	
Selenium	ND	mg/kg	0.99	1	05/09/24 15:40	05/10/24 11:23	7782-49-2	
Silver	ND	mg/kg	0.49	1	05/09/24 15:40	05/10/24 11:23	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Indianapolis							
Mercury	ND	mg/kg	0.23	1	05/09/24 10:02	05/09/24 18:14	7439-97-6	
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	83-32-9	
Acenaphthylene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	208-96-8	
Anthracene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	207-08-9	
Chrysene	**8.0**	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	53-70-3	
Fluoranthene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	206-44-0	
Fluorene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	193-39-5	
1-Methylnaphthalene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	90-12-0	
2-Methylnaphthalene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	91-57-6	
Naphthalene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	91-20-3	
Phenanthrene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	85-01-8	
Pyrene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 13:27	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	62	%.	16-93	1	05/02/24 14:27	05/03/24 13:27	321-60-8	
p-Terphenyl-d14 (S)	77	%.	19-115	1	05/02/24 14:27	05/03/24 13:27	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	112	1		05/02/24 22:20	67-64-1	
Acrolein	ND	ug/kg	112	1		05/02/24 22:20	107-02-8	
Acrylonitrile	ND	ug/kg	112	1		05/02/24 22:20	107-13-1	
Benzene	ND	ug/kg	5.6	1		05/02/24 22:20	71-43-2	
Bromobenzene	ND	ug/kg	5.6	1		05/02/24 22:20	108-86-1	
Bromochloromethane	ND	ug/kg	5.6	1		05/02/24 22:20	74-97-5	
Bromodichloromethane	ND	ug/kg	5.6	1		05/02/24 22:20	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB2 (13-15) **Lab ID: 50371662004** Collected: 04/26/24 10:15 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/kg	5.6	1		05/02/24 22:20	75-25-2	
Bromomethane	ND	ug/kg	5.6	1		05/02/24 22:20	74-83-9	
2-Butanone (MEK)	ND	ug/kg	27.9	1		05/02/24 22:20	78-93-3	
n-Butylbenzene	ND	ug/kg	5.6	1		05/02/24 22:20	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.6	1		05/02/24 22:20	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.6	1		05/02/24 22:20	98-06-6	
Carbon disulfide	ND	ug/kg	11.2	1		05/02/24 22:20	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.6	1		05/02/24 22:20	56-23-5	
Chlorobenzene	ND	ug/kg	5.6	1		05/02/24 22:20	108-90-7	
Chloroethane	ND	ug/kg	5.6	1		05/02/24 22:20	75-00-3	
Chloroform	ND	ug/kg	5.6	1		05/02/24 22:20	67-66-3	
Chloromethane	ND	ug/kg	5.6	1		05/02/24 22:20	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.6	1		05/02/24 22:20	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.6	1		05/02/24 22:20	106-43-4	
Dibromochloromethane	ND	ug/kg	5.6	1		05/02/24 22:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.6	1		05/02/24 22:20	106-93-4	
Dibromomethane	ND	ug/kg	5.6	1		05/02/24 22:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.6	1		05/02/24 22:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.6	1		05/02/24 22:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.6	1		05/02/24 22:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	112	1		05/02/24 22:20	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.6	1		05/02/24 22:20	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.6	1		05/02/24 22:20	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.6	1		05/02/24 22:20	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.6	1		05/02/24 22:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.6	1		05/02/24 22:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.6	1		05/02/24 22:20	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.6	1		05/02/24 22:20	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.6	1		05/02/24 22:20	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.6	1		05/02/24 22:20	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.6	1		05/02/24 22:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.6	1		05/02/24 22:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.6	1		05/02/24 22:20	10061-02-6	
Ethylbenzene	ND	ug/kg	5.6	1		05/02/24 22:20	100-41-4	
Ethyl methacrylate	ND	ug/kg	112	1		05/02/24 22:20	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.6	1		05/02/24 22:20	87-68-3	
n-Hexane	ND	ug/kg	5.6	1		05/02/24 22:20	110-54-3	
2-Hexanone	ND	ug/kg	112	1		05/02/24 22:20	591-78-6	
Iodomethane	ND	ug/kg	112	1		05/02/24 22:20	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	5.6	1		05/02/24 22:20	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.6	1		05/02/24 22:20	99-87-6	
Methylene Chloride	ND	ug/kg	22.3	1		05/02/24 22:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	27.9	1		05/02/24 22:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.6	1		05/02/24 22:20	1634-04-4	
Naphthalene	ND	ug/kg	5.6	1		05/02/24 22:20	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB2 (13-15) **Lab ID: 50371662004** Collected: 04/26/24 10:15 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
	Pace Analytical Services - Indianapolis							
n-Propylbenzene	ND	ug/kg	5.6	1		05/02/24 22:20	103-65-1	
Styrene	ND	ug/kg	5.6	1		05/02/24 22:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.6	1		05/02/24 22:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.6	1		05/02/24 22:20	79-34-5	
Tetrachloroethene	ND	ug/kg	5.6	1		05/02/24 22:20	127-18-4	
Toluene	ND	ug/kg	5.6	1		05/02/24 22:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.6	1		05/02/24 22:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.6	1		05/02/24 22:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.6	1		05/02/24 22:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.6	1		05/02/24 22:20	79-00-5	
Trichloroethene	ND	ug/kg	5.6	1		05/02/24 22:20	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.6	1		05/02/24 22:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.6	1		05/02/24 22:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.6	1		05/02/24 22:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.6	1		05/02/24 22:20	108-67-8	
Vinyl acetate	ND	ug/kg	112	1		05/02/24 22:20	108-05-4	
Vinyl chloride	ND	ug/kg	5.6	1		05/02/24 22:20	75-01-4	
Xylene (Total)	ND	ug/kg	11.2	1		05/02/24 22:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	118	%.	75-135	1		05/02/24 22:20	1868-53-7	
Toluene-d8 (S)	120	%.	65-148	1		05/02/24 22:20	2037-26-5	
4-Bromofluorobenzene (S)	81	%.	63-132	1		05/02/24 22:20	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
	Pace Analytical Services - Indianapolis							
Percent Moisture	**6.2**	%	0.10	1		05/09/24 15:07		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB3 (8.5-10.5) **Lab ID: 50371662005** Collected: 04/26/24 10:40 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Indianapolis							
Arsenic	**3.2**	mg/kg	0.93	1	05/09/24 15:40	05/10/24 11:25	7440-38-2	
Barium	**10.6**	mg/kg	0.93	1	05/09/24 15:40	05/10/24 11:25	7440-39-3	
Cadmium	ND	mg/kg	0.47	1	05/09/24 15:40	05/10/24 11:25	7440-43-9	
Chromium	**4.7**	mg/kg	0.93	1	05/09/24 15:40	05/10/24 11:25	7440-47-3	
Lead	**5.1**	mg/kg	0.93	1	05/09/24 15:40	05/10/24 11:25	7439-92-1	
Selenium	ND	mg/kg	0.93	1	05/09/24 15:40	05/10/24 11:25	7782-49-2	
Silver	ND	mg/kg	0.47	1	05/09/24 15:40	05/10/24 11:25	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Indianapolis							
Mercury	ND	mg/kg	0.20	1	05/09/24 10:02	05/09/24 18:17	7439-97-6	
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	83-32-9	
Acenaphthylene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	208-96-8	
Anthracene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	207-08-9	
Chrysene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	53-70-3	
Fluoranthene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	206-44-0	
Fluorene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	193-39-5	
1-Methylnaphthalene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	90-12-0	
2-Methylnaphthalene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	91-57-6	
Naphthalene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	91-20-3	
Phenanthrene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	85-01-8	
Pyrene	ND	ug/kg	5.0	1	05/02/24 14:27	05/03/24 13:42	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	59	%.	16-93	1	05/02/24 14:27	05/03/24 13:42	321-60-8	
p-Terphenyl-d14 (S)	75	%.	19-115	1	05/02/24 14:27	05/03/24 13:42	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	122	1		05/02/24 22:50	67-64-1	
Acrolein	ND	ug/kg	122	1		05/02/24 22:50	107-02-8	
Acrylonitrile	ND	ug/kg	122	1		05/02/24 22:50	107-13-1	
Benzene	ND	ug/kg	6.1	1		05/02/24 22:50	71-43-2	
Bromobenzene	ND	ug/kg	6.1	1		05/02/24 22:50	108-86-1	
Bromochloromethane	ND	ug/kg	6.1	1		05/02/24 22:50	74-97-5	
Bromodichloromethane	ND	ug/kg	6.1	1		05/02/24 22:50	75-27-4	

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB3 (8.5-10.5) **Lab ID: 50371662005** Collected: 04/26/24 10:40 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/kg	6.1	1		05/02/24 22:50	75-25-2	
Bromomethane	ND	ug/kg	6.1	1		05/02/24 22:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	30.4	1		05/02/24 22:50	78-93-3	
n-Butylbenzene	ND	ug/kg	6.1	1		05/02/24 22:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.1	1		05/02/24 22:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.1	1		05/02/24 22:50	98-06-6	
Carbon disulfide	ND	ug/kg	12.2	1		05/02/24 22:50	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.1	1		05/02/24 22:50	56-23-5	
Chlorobenzene	ND	ug/kg	6.1	1		05/02/24 22:50	108-90-7	
Chloroethane	ND	ug/kg	6.1	1		05/02/24 22:50	75-00-3	
Chloroform	ND	ug/kg	6.1	1		05/02/24 22:50	67-66-3	
Chloromethane	ND	ug/kg	6.1	1		05/02/24 22:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.1	1		05/02/24 22:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.1	1		05/02/24 22:50	106-43-4	
Dibromochloromethane	ND	ug/kg	6.1	1		05/02/24 22:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.1	1		05/02/24 22:50	106-93-4	
Dibromomethane	ND	ug/kg	6.1	1		05/02/24 22:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.1	1		05/02/24 22:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.1	1		05/02/24 22:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.1	1		05/02/24 22:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	122	1		05/02/24 22:50	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	6.1	1		05/02/24 22:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.1	1		05/02/24 22:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.1	1		05/02/24 22:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.1	1		05/02/24 22:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.1	1		05/02/24 22:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.1	1		05/02/24 22:50	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.1	1		05/02/24 22:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.1	1		05/02/24 22:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.1	1		05/02/24 22:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.1	1		05/02/24 22:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.1	1		05/02/24 22:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.1	1		05/02/24 22:50	10061-02-6	
Ethylbenzene	ND	ug/kg	6.1	1		05/02/24 22:50	100-41-4	
Ethyl methacrylate	ND	ug/kg	122	1		05/02/24 22:50	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	6.1	1		05/02/24 22:50	87-68-3	
n-Hexane	**21.4**	ug/kg	5.5	1		05/06/24 11:59	110-54-3	
2-Hexanone	ND	ug/kg	122	1		05/02/24 22:50	591-78-6	
Iodomethane	ND	ug/kg	122	1		05/02/24 22:50	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	6.1	1		05/02/24 22:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.1	1		05/02/24 22:50	99-87-6	
Methylene Chloride	ND	ug/kg	24.3	1		05/02/24 22:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	30.4	1		05/02/24 22:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.1	1		05/02/24 22:50	1634-04-4	
Naphthalene	ND	ug/kg	6.1	1		05/02/24 22:50	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB3 (8.5-10.5) **Lab ID: 50371662005** Collected: 04/26/24 10:40 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
n-Propylbenzene	ND	ug/kg	6.1	1		05/02/24 22:50	103-65-1	
Styrene	ND	ug/kg	6.1	1		05/02/24 22:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.1	1		05/02/24 22:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.1	1		05/02/24 22:50	79-34-5	
Tetrachloroethene	ND	ug/kg	6.1	1		05/02/24 22:50	127-18-4	
Toluene	ND	ug/kg	6.1	1		05/02/24 22:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.1	1		05/02/24 22:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.1	1		05/02/24 22:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.1	1		05/02/24 22:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.1	1		05/02/24 22:50	79-00-5	
Trichloroethene	ND	ug/kg	6.1	1		05/02/24 22:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.1	1		05/02/24 22:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.1	1		05/02/24 22:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.1	1		05/02/24 22:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.1	1		05/02/24 22:50	108-67-8	
Vinyl acetate	ND	ug/kg	122	1		05/02/24 22:50	108-05-4	
Vinyl chloride	ND	ug/kg	6.1	1		05/02/24 22:50	75-01-4	
Xylene (Total)	ND	ug/kg	12.2	1		05/02/24 22:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	115	%.	75-135	1		05/02/24 22:50	1868-53-7	
Toluene-d8 (S)	132	%.	65-148	1		05/02/24 22:50	2037-26-5	
4-Bromofluorobenzene (S)	73	%.	63-132	1		05/02/24 22:50	460-00-4	
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis							
Percent Moisture	**2.6**	%	0.10	1		05/09/24 15:07		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
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ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB3 (0-2) **Lab ID: 50371662006** Collected: 04/26/24 10:30 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Indianapolis							
Arsenic	**3.1**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:27	7440-38-2	
Barium	**65.2**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:27	7440-39-3	
Cadmium	ND	mg/kg	0.56	1	05/09/24 15:40	05/10/24 11:27	7440-43-9	
Chromium	**12.5**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:27	7440-47-3	
Lead	**32.2**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:27	7439-92-1	
Selenium	ND	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:27	7782-49-2	
Silver	ND	mg/kg	0.56	1	05/09/24 15:40	05/10/24 11:27	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Indianapolis							
Mercury	ND	mg/kg	0.22	1	05/09/24 10:02	05/09/24 18:19	7439-97-6	
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	83-32-9	
Acenaphthylene	ND	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	208-96-8	
Anthracene	ND	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	120-12-7	
Benzo(a)anthracene	**11.7**	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	56-55-3	
Benzo(a)pyrene	**15.0**	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	50-32-8	
Benzo(b)fluoranthene	**20.5**	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	205-99-2	
Benzo(g,h,i)perylene	**10.0**	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	191-24-2	
Benzo(k)fluoranthene	**7.1**	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	207-08-9	
Chrysene	**13.3**	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	53-70-3	
Fluoranthene	**20.5**	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	206-44-0	
Fluorene	ND	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	86-73-7	
Indeno(1,2,3-cd)pyrene	**9.1**	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	193-39-5	
1-Methylnaphthalene	**7.5**	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	90-12-0	
2-Methylnaphthalene	**9.2**	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	91-57-6	
Naphthalene	**6.1**	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	91-20-3	
Phenanthrene	**10.4**	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	85-01-8	
Pyrene	**18.8**	ug/kg	5.6	1	05/02/24 14:27	05/03/24 13:56	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	59	%.	16-93	1	05/02/24 14:27	05/03/24 13:56	321-60-8	
p-Terphenyl-d14 (S)	73	%.	19-115	1	05/02/24 14:27	05/03/24 13:56	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	99.9	1		05/02/24 23:21	67-64-1	
Acrolein	ND	ug/kg	99.9	1		05/02/24 23:21	107-02-8	
Acrylonitrile	ND	ug/kg	99.9	1		05/02/24 23:21	107-13-1	
Benzene	ND	ug/kg	5.0	1		05/02/24 23:21	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		05/02/24 23:21	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		05/02/24 23:21	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		05/02/24 23:21	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB3 (0-2) **Lab ID: 50371662006** Collected: 04/26/24 10:30 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/kg	5.0	1		05/02/24 23:21	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		05/02/24 23:21	74-83-9	
2-Butanone (MEK)	ND	ug/kg	25.0	1		05/02/24 23:21	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		05/02/24 23:21	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		05/02/24 23:21	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		05/02/24 23:21	98-06-6	
Carbon disulfide	ND	ug/kg	10	1		05/02/24 23:21	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		05/02/24 23:21	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		05/02/24 23:21	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		05/02/24 23:21	75-00-3	
Chloroform	ND	ug/kg	5.0	1		05/02/24 23:21	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		05/02/24 23:21	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		05/02/24 23:21	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		05/02/24 23:21	106-43-4	
Dibromochloromethane	ND	ug/kg	5.0	1		05/02/24 23:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		05/02/24 23:21	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		05/02/24 23:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		05/02/24 23:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		05/02/24 23:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		05/02/24 23:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	99.9	1		05/02/24 23:21	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		05/02/24 23:21	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		05/02/24 23:21	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		05/02/24 23:21	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		05/02/24 23:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/02/24 23:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/02/24 23:21	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		05/02/24 23:21	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		05/02/24 23:21	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		05/02/24 23:21	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		05/02/24 23:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/02/24 23:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/02/24 23:21	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		05/02/24 23:21	100-41-4	
Ethyl methacrylate	ND	ug/kg	99.9	1		05/02/24 23:21	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		05/02/24 23:21	87-68-3	
n-Hexane	ND	ug/kg	5.0	1		05/02/24 23:21	110-54-3	
2-Hexanone	ND	ug/kg	99.9	1		05/02/24 23:21	591-78-6	
Iodomethane	ND	ug/kg	99.9	1		05/02/24 23:21	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		05/02/24 23:21	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		05/02/24 23:21	99-87-6	
Methylene Chloride	ND	ug/kg	20.0	1		05/02/24 23:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	25.0	1		05/02/24 23:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		05/02/24 23:21	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		05/02/24 23:21	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB3 (0-2) **Lab ID: 50371662006** Collected: 04/26/24 10:30 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
	Pace Analytical Services - Indianapolis							
n-Propylbenzene	ND	ug/kg	5.0	1		05/02/24 23:21	103-65-1	
Styrene	ND	ug/kg	5.0	1		05/02/24 23:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/02/24 23:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/02/24 23:21	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		05/02/24 23:21	127-18-4	
Toluene	ND	ug/kg	5.0	1		05/02/24 23:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		05/02/24 23:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		05/02/24 23:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		05/02/24 23:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		05/02/24 23:21	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		05/02/24 23:21	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		05/02/24 23:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		05/02/24 23:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		05/02/24 23:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		05/02/24 23:21	108-67-8	
Vinyl acetate	ND	ug/kg	99.9	1		05/02/24 23:21	108-05-4	
Vinyl chloride	ND	ug/kg	5.0	1		05/02/24 23:21	75-01-4	
Xylene (Total)	ND	ug/kg	10	1		05/02/24 23:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%.	75-135	1		05/02/24 23:21	1868-53-7	
Toluene-d8 (S)	100	%.	65-148	1		05/02/24 23:21	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	63-132	1		05/02/24 23:21	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
	Pace Analytical Services - Indianapolis							
Percent Moisture	**14.7**	%	0.10	1		05/09/24 15:07		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB4 (0-2) **Lab ID: 50371662007** Collected: 04/26/24 11:00 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Indianapolis							
Arsenic	**6.9**	mg/kg	0.97	1	05/09/24 15:40	05/10/24 11:28	7440-38-2	
Barium	**49.4**	mg/kg	0.97	1	05/09/24 15:40	05/10/24 11:28	7440-39-3	
Cadmium	ND	mg/kg	0.49	1	05/09/24 15:40	05/10/24 11:28	7440-43-9	
Chromium	**7.4**	mg/kg	0.97	1	05/09/24 15:40	05/10/24 11:28	7440-47-3	
Lead	**53.7**	mg/kg	0.97	1	05/09/24 15:40	05/10/24 11:28	7439-92-1	
Selenium	ND	mg/kg	0.97	1	05/09/24 15:40	05/10/24 11:28	7782-49-2	
Silver	ND	mg/kg	0.49	1	05/09/24 15:40	05/10/24 11:28	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Indianapolis							
Mercury	ND	mg/kg	0.22	1	05/09/24 10:02	05/09/24 18:26	7439-97-6	
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	83-32-9	
Acenaphthylene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	208-96-8	
Anthracene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	120-12-7	
Benzo(a)anthracene	**15.5**	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	56-55-3	
Benzo(a)pyrene	**16.4**	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	50-32-8	
Benzo(b)fluoranthene	**21.7**	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	205-99-2	
Benzo(g,h,i)perylene	**10.7**	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	191-24-2	
Benzo(k)fluoranthene	**7.6**	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	207-08-9	
Chrysene	**17.4**	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	53-70-3	
Fluoranthene	**25.3**	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	206-44-0	
Fluorene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	86-73-7	
Indeno(1,2,3-cd)pyrene	**8.5**	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	193-39-5	
1-Methylnaphthalene	**43.9**	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	90-12-0	
2-Methylnaphthalene	**59.0**	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	91-57-6	
Naphthalene	**40.9**	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	91-20-3	
Phenanthrene	**30.4**	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	85-01-8	
Pyrene	**25.0**	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:10	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	62	%.	16-93	1	05/02/24 14:27	05/03/24 14:10	321-60-8	
p-Terphenyl-d14 (S)	74	%.	19-115	1	05/02/24 14:27	05/03/24 14:10	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	100	1		05/02/24 23:51	67-64-1	
Acrolein	ND	ug/kg	100	1		05/02/24 23:51	107-02-8	
Acrylonitrile	ND	ug/kg	100	1		05/02/24 23:51	107-13-1	
Benzene	ND	ug/kg	5.0	1		05/02/24 23:51	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		05/02/24 23:51	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		05/02/24 23:51	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		05/02/24 23:51	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB4 (0-2) **Lab ID: 50371662007** Collected: 04/26/24 11:00 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/kg	5.0	1		05/02/24 23:51	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		05/02/24 23:51	74-83-9	
2-Butanone (MEK)	ND	ug/kg	25.1	1		05/02/24 23:51	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		05/02/24 23:51	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		05/02/24 23:51	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		05/02/24 23:51	98-06-6	
Carbon disulfide	ND	ug/kg	10.0	1		05/02/24 23:51	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		05/02/24 23:51	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		05/02/24 23:51	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		05/02/24 23:51	75-00-3	
Chloroform	ND	ug/kg	5.0	1		05/02/24 23:51	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		05/02/24 23:51	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		05/02/24 23:51	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		05/02/24 23:51	106-43-4	
Dibromochloromethane	ND	ug/kg	5.0	1		05/02/24 23:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		05/02/24 23:51	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		05/02/24 23:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		05/02/24 23:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		05/02/24 23:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		05/02/24 23:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	100	1		05/02/24 23:51	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		05/02/24 23:51	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		05/02/24 23:51	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		05/02/24 23:51	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		05/02/24 23:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/02/24 23:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/02/24 23:51	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		05/02/24 23:51	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		05/02/24 23:51	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		05/02/24 23:51	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		05/02/24 23:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/02/24 23:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/02/24 23:51	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		05/02/24 23:51	100-41-4	
Ethyl methacrylate	ND	ug/kg	100	1		05/02/24 23:51	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		05/02/24 23:51	87-68-3	
n-Hexane	ND	ug/kg	5.0	1		05/02/24 23:51	110-54-3	
2-Hexanone	ND	ug/kg	100	1		05/02/24 23:51	591-78-6	
Iodomethane	ND	ug/kg	100	1		05/02/24 23:51	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		05/02/24 23:51	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		05/02/24 23:51	99-87-6	
Methylene Chloride	ND	ug/kg	20.1	1		05/02/24 23:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	25.1	1		05/02/24 23:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		05/02/24 23:51	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		05/02/24 23:51	91-20-3	R1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB4 (0-2) **Lab ID: 50371662007** Collected: 04/26/24 11:00 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
	Pace Analytical Services - Indianapolis							
n-Propylbenzene	ND	ug/kg	5.0	1		05/02/24 23:51	103-65-1	
Styrene	ND	ug/kg	5.0	1		05/02/24 23:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/02/24 23:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/02/24 23:51	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		05/02/24 23:51	127-18-4	
Toluene	ND	ug/kg	5.0	1		05/02/24 23:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		05/02/24 23:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		05/02/24 23:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		05/02/24 23:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		05/02/24 23:51	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		05/02/24 23:51	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		05/02/24 23:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		05/02/24 23:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		05/02/24 23:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		05/02/24 23:51	108-67-8	
Vinyl acetate	ND	ug/kg	100	1		05/02/24 23:51	108-05-4	
Vinyl chloride	ND	ug/kg	5.0	1		05/02/24 23:51	75-01-4	
Xylene (Total)	ND	ug/kg	10.0	1		05/02/24 23:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110	%.	75-135	1		05/02/24 23:51	1868-53-7	
Toluene-d8 (S)	100	%.	65-148	1		05/02/24 23:51	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	63-132	1		05/02/24 23:51	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
	Pace Analytical Services - Indianapolis							
Percent Moisture	**9.0**	%	0.10	1		05/09/24 15:07		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB4 (13-15) **Lab ID: 50371662008** Collected: 04/26/24 11:10 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Indianapolis							
Arsenic	**7.7**	mg/kg	0.97	1	05/09/24 15:40	05/10/24 11:40	7440-38-2	
Barium	**34.1**	mg/kg	0.97	1	05/09/24 15:40	05/10/24 11:40	7440-39-3	
Cadmium	ND	mg/kg	0.48	1	05/09/24 15:40	05/10/24 11:40	7440-43-9	
Chromium	**10.3**	mg/kg	0.97	1	05/09/24 15:40	05/10/24 11:40	7440-47-3	
Lead	**6.3**	mg/kg	0.97	1	05/09/24 15:40	05/10/24 11:40	7439-92-1	
Selenium	ND	mg/kg	0.97	1	05/09/24 15:40	05/10/24 11:40	7782-49-2	
Silver	ND	mg/kg	0.48	1	05/09/24 15:40	05/10/24 11:40	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Indianapolis							
Mercury	ND	mg/kg	0.22	1	05/09/24 10:02	05/09/24 18:34	7439-97-6	
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	83-32-9	
Acenaphthylene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	208-96-8	
Anthracene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	205-99-2	
Benzo(g,h,i)perylene	**5.6**	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	207-08-9	
Chrysene	**6.6**	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	53-70-3	
Fluoranthene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	206-44-0	
Fluorene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	193-39-5	
1-Methylnaphthalene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	90-12-0	
2-Methylnaphthalene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	91-57-6	
Naphthalene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	91-20-3	
Phenanthrene	**7.4**	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	85-01-8	
Pyrene	ND	ug/kg	5.2	1	05/02/24 14:27	05/03/24 14:53	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	59	%.	16-93	1	05/02/24 14:27	05/03/24 14:53	321-60-8	
p-Terphenyl-d14 (S)	77	%.	19-115	1	05/02/24 14:27	05/03/24 14:53	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	75.2	1		05/03/24 01:22	67-64-1	
Acrolein	ND	ug/kg	75.2	1		05/03/24 01:22	107-02-8	
Acrylonitrile	ND	ug/kg	75.2	1		05/03/24 01:22	107-13-1	
Benzene	ND	ug/kg	3.8	1		05/03/24 01:22	71-43-2	
Bromobenzene	ND	ug/kg	3.8	1		05/03/24 01:22	108-86-1	
Bromochloromethane	ND	ug/kg	3.8	1		05/03/24 01:22	74-97-5	
Bromodichloromethane	ND	ug/kg	3.8	1		05/03/24 01:22	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB4 (13-15) **Lab ID: 50371662008** Collected: 04/26/24 11:10 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/kg	3.8	1		05/03/24 01:22	75-25-2	
Bromomethane	ND	ug/kg	3.8	1		05/03/24 01:22	74-83-9	
2-Butanone (MEK)	ND	ug/kg	18.8	1		05/03/24 01:22	78-93-3	
n-Butylbenzene	ND	ug/kg	3.8	1		05/03/24 01:22	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.8	1		05/03/24 01:22	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.8	1		05/03/24 01:22	98-06-6	
Carbon disulfide	ND	ug/kg	7.5	1		05/03/24 01:22	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.8	1		05/03/24 01:22	56-23-5	
Chlorobenzene	ND	ug/kg	3.8	1		05/03/24 01:22	108-90-7	
Chloroethane	ND	ug/kg	3.8	1		05/03/24 01:22	75-00-3	
Chloroform	ND	ug/kg	3.8	1		05/03/24 01:22	67-66-3	
Chloromethane	ND	ug/kg	3.8	1		05/03/24 01:22	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.8	1		05/03/24 01:22	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.8	1		05/03/24 01:22	106-43-4	
Dibromochloromethane	ND	ug/kg	3.8	1		05/03/24 01:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.8	1		05/03/24 01:22	106-93-4	
Dibromomethane	ND	ug/kg	3.8	1		05/03/24 01:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.8	1		05/03/24 01:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.8	1		05/03/24 01:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.8	1		05/03/24 01:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	75.2	1		05/03/24 01:22	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.8	1		05/03/24 01:22	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.8	1		05/03/24 01:22	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.8	1		05/03/24 01:22	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.8	1		05/03/24 01:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.8	1		05/03/24 01:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.8	1		05/03/24 01:22	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.8	1		05/03/24 01:22	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.8	1		05/03/24 01:22	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.8	1		05/03/24 01:22	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.8	1		05/03/24 01:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.8	1		05/03/24 01:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.8	1		05/03/24 01:22	10061-02-6	
Ethylbenzene	ND	ug/kg	3.8	1		05/03/24 01:22	100-41-4	
Ethyl methacrylate	ND	ug/kg	75.2	1		05/03/24 01:22	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.8	1		05/03/24 01:22	87-68-3	
n-Hexane	ND	ug/kg	3.8	1		05/03/24 01:22	110-54-3	
2-Hexanone	ND	ug/kg	75.2	1		05/03/24 01:22	591-78-6	
Iodomethane	ND	ug/kg	75.2	1		05/03/24 01:22	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	3.8	1		05/03/24 01:22	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.8	1		05/03/24 01:22	99-87-6	
Methylene Chloride	ND	ug/kg	15.0	1		05/03/24 01:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	18.8	1		05/03/24 01:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.8	1		05/03/24 01:22	1634-04-4	
Naphthalene	ND	ug/kg	3.8	1		05/03/24 01:22	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB4 (13-15) **Lab ID: 50371662008** Collected: 04/26/24 11:10 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
	Pace Analytical Services - Indianapolis							
n-Propylbenzene	ND	ug/kg	3.8	1		05/03/24 01:22	103-65-1	
Styrene	ND	ug/kg	3.8	1		05/03/24 01:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.8	1		05/03/24 01:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.8	1		05/03/24 01:22	79-34-5	
Tetrachloroethene	ND	ug/kg	3.8	1		05/03/24 01:22	127-18-4	
Toluene	ND	ug/kg	3.8	1		05/03/24 01:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.8	1		05/03/24 01:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.8	1		05/03/24 01:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.8	1		05/03/24 01:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.8	1		05/03/24 01:22	79-00-5	
Trichloroethene	ND	ug/kg	3.8	1		05/03/24 01:22	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.8	1		05/03/24 01:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.8	1		05/03/24 01:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.8	1		05/03/24 01:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.8	1		05/03/24 01:22	108-67-8	
Vinyl acetate	ND	ug/kg	75.2	1		05/03/24 01:22	108-05-4	
Vinyl chloride	ND	ug/kg	3.8	1		05/03/24 01:22	75-01-4	
Xylene (Total)	ND	ug/kg	7.5	1		05/03/24 01:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	117	%.	75-135	1		05/03/24 01:22	1868-53-7	
Toluene-d8 (S)	133	%.	65-148	1		05/03/24 01:22	2037-26-5	
4-Bromofluorobenzene (S)	80	%.	63-132	1		05/03/24 01:22	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
	Pace Analytical Services - Indianapolis							
Percent Moisture	**6.9**	%	0.10	1		05/09/24 15:07		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB5 (0-2) **Lab ID: 50371662009** Collected: 04/26/24 11:30 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Indianapolis							
Arsenic	**4.0**	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:42	7440-38-2	
Barium	**32.4**	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:42	7440-39-3	
Cadmium	**0.95**	mg/kg	0.50	1	05/09/24 15:40	05/10/24 11:42	7440-43-9	
Chromium	**7.8**	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:42	7440-47-3	
Lead	**92.9**	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:42	7439-92-1	
Selenium	ND	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:42	7782-49-2	
Silver	ND	mg/kg	0.50	1	05/09/24 15:40	05/10/24 11:42	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Indianapolis							
Mercury	ND	mg/kg	0.23	1	05/09/24 10:02	05/09/24 18:36	7439-97-6	
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	83-32-9	
Acenaphthylene	**5.5**	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	208-96-8	
Anthracene	**8.7**	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	120-12-7	
Benzo(a)anthracene	**47.0**	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	56-55-3	
Benzo(a)pyrene	**59.7**	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	50-32-8	
Benzo(b)fluoranthene	**81.0**	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	205-99-2	
Benzo(g,h,i)perylene	**42.5**	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	191-24-2	
Benzo(k)fluoranthene	**30.8**	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	207-08-9	
Chrysene	**55.6**	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	218-01-9	
Dibenz(a,h)anthracene	**10.6**	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	53-70-3	
Fluoranthene	**104**	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	206-44-0	
Fluorene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	86-73-7	
Indeno(1,2,3-cd)pyrene	**37.4**	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	193-39-5	
1-Methylnaphthalene	**17.8**	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	90-12-0	
2-Methylnaphthalene	**27.3**	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	91-57-6	
Naphthalene	**17.6**	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	91-20-3	
Phenanthrene	**53.6**	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	85-01-8	
Pyrene	**90.9**	ug/kg	5.3	1	05/02/24 14:27	05/03/24 15:36	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	58	%.	16-93	1	05/02/24 14:27	05/03/24 15:36	321-60-8	
p-Terphenyl-d14 (S)	67	%.	19-115	1	05/02/24 14:27	05/03/24 15:36	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	96.7	1		05/03/24 01:53	67-64-1	
Acrolein	ND	ug/kg	96.7	1		05/03/24 01:53	107-02-8	
Acrylonitrile	ND	ug/kg	96.7	1		05/03/24 01:53	107-13-1	
Benzene	ND	ug/kg	4.8	1		05/03/24 01:53	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		05/03/24 01:53	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		05/03/24 01:53	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		05/03/24 01:53	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB5 (0-2) **Lab ID: 50371662009** Collected: 04/26/24 11:30 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/kg	4.8	1		05/03/24 01:53	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		05/03/24 01:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	24.2	1		05/03/24 01:53	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		05/03/24 01:53	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		05/03/24 01:53	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		05/03/24 01:53	98-06-6	
Carbon disulfide	ND	ug/kg	9.7	1		05/03/24 01:53	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		05/03/24 01:53	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		05/03/24 01:53	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		05/03/24 01:53	75-00-3	
Chloroform	ND	ug/kg	4.8	1		05/03/24 01:53	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		05/03/24 01:53	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		05/03/24 01:53	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		05/03/24 01:53	106-43-4	
Dibromochloromethane	ND	ug/kg	4.8	1		05/03/24 01:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		05/03/24 01:53	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		05/03/24 01:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		05/03/24 01:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		05/03/24 01:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		05/03/24 01:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	96.7	1		05/03/24 01:53	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		05/03/24 01:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		05/03/24 01:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		05/03/24 01:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		05/03/24 01:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		05/03/24 01:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		05/03/24 01:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		05/03/24 01:53	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		05/03/24 01:53	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		05/03/24 01:53	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		05/03/24 01:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		05/03/24 01:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		05/03/24 01:53	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1		05/03/24 01:53	100-41-4	
Ethyl methacrylate	ND	ug/kg	96.7	1		05/03/24 01:53	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		05/03/24 01:53	87-68-3	
n-Hexane	ND	ug/kg	4.8	1		05/03/24 01:53	110-54-3	
2-Hexanone	ND	ug/kg	96.7	1		05/03/24 01:53	591-78-6	
Iodomethane	ND	ug/kg	96.7	1		05/03/24 01:53	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		05/03/24 01:53	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		05/03/24 01:53	99-87-6	
Methylene Chloride	ND	ug/kg	19.3	1		05/03/24 01:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	24.2	1		05/03/24 01:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		05/03/24 01:53	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		05/03/24 01:53	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB5 (0-2) **Lab ID: 50371662009** Collected: 04/26/24 11:30 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
n-Propylbenzene	ND	ug/kg	4.8	1		05/03/24 01:53	103-65-1	
Styrene	ND	ug/kg	4.8	1		05/03/24 01:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		05/03/24 01:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		05/03/24 01:53	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		05/03/24 01:53	127-18-4	
Toluene	ND	ug/kg	4.8	1		05/03/24 01:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		05/03/24 01:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		05/03/24 01:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		05/03/24 01:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		05/03/24 01:53	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		05/03/24 01:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		05/03/24 01:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		05/03/24 01:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		05/03/24 01:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		05/03/24 01:53	108-67-8	
Vinyl acetate	ND	ug/kg	96.7	1		05/03/24 01:53	108-05-4	
Vinyl chloride	ND	ug/kg	4.8	1		05/03/24 01:53	75-01-4	
Xylene (Total)	ND	ug/kg	9.7	1		05/03/24 01:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	75-135	1		05/03/24 01:53	1868-53-7	
Toluene-d8 (S)	108	%.	65-148	1		05/03/24 01:53	2037-26-5	
4-Bromofluorobenzene (S)	88	%.	63-132	1		05/03/24 01:53	460-00-4	
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis							
Percent Moisture	**8.7**	%	0.10	1		05/09/24 15:07		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB5 (9-11) **Lab ID: 50371662010** Collected: 04/26/24 11:40 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Indianapolis							
Arsenic	**4.3**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:44	7440-38-2	
Barium	**12.1**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:44	7440-39-3	
Cadmium	ND	mg/kg	0.55	1	05/09/24 15:40	05/10/24 11:44	7440-43-9	
Chromium	**6.8**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:44	7440-47-3	
Lead	**8.2**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:44	7439-92-1	
Selenium	ND	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:44	7782-49-2	
Silver	ND	mg/kg	0.55	1	05/09/24 15:40	05/10/24 11:44	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Indianapolis							
Mercury	ND	mg/kg	0.23	1	05/09/24 10:02	05/09/24 18:39	7439-97-6	
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	**21.2**	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	83-32-9	
Acenaphthylene	**8.6**	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	208-96-8	
Anthracene	ND	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	207-08-9	
Chrysene	ND	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	53-70-3	
Fluoranthene	ND	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	206-44-0	
Fluorene	**21.5**	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	193-39-5	
1-Methylnaphthalene	**2570**	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	90-12-0	
2-Methylnaphthalene	**5570**	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	91-57-6	
Naphthalene	**2840**	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	91-20-3	
Phenanthrene	**35.1**	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	85-01-8	
Pyrene	**7.4**	ug/kg	5.7	1	05/02/24 14:27	05/03/24 15:50	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60	%.	16-93	1	05/02/24 14:27	05/03/24 15:50	321-60-8	
p-Terphenyl-d14 (S)	77	%.	19-115	1	05/02/24 14:27	05/03/24 15:50	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	97100	1000		05/03/24 02:23	67-64-1	
Acrolein	ND	ug/kg	97100	1000		05/03/24 02:23	107-02-8	
Acrylonitrile	ND	ug/kg	97100	1000		05/03/24 02:23	107-13-1	
Benzene	ND	ug/kg	4850	1000		05/03/24 02:23	71-43-2	
Bromobenzene	ND	ug/kg	4850	1000		05/03/24 02:23	108-86-1	
Bromochloromethane	ND	ug/kg	4850	1000		05/03/24 02:23	74-97-5	
Bromodichloromethane	ND	ug/kg	4850	1000		05/03/24 02:23	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB5 (9-11) **Lab ID: 50371662010** Collected: 04/26/24 11:40 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/kg	4850	1000		05/03/24 02:23	75-25-2	
Bromomethane	ND	ug/kg	4850	1000		05/03/24 02:23	74-83-9	
2-Butanone (MEK)	ND	ug/kg	24300	1000		05/03/24 02:23	78-93-3	
n-Butylbenzene	**9870**	ug/kg	4850	1000		05/06/24 10:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	4850	1000		05/03/24 02:23	135-98-8	
tert-Butylbenzene	ND	ug/kg	4850	1000		05/03/24 02:23	98-06-6	
Carbon disulfide	ND	ug/kg	9710	1000		05/03/24 02:23	75-15-0	
Carbon tetrachloride	ND	ug/kg	4850	1000		05/03/24 02:23	56-23-5	
Chlorobenzene	ND	ug/kg	4850	1000		05/03/24 02:23	108-90-7	
Chloroethane	ND	ug/kg	4850	1000		05/03/24 02:23	75-00-3	
Chloroform	ND	ug/kg	4850	1000		05/03/24 02:23	67-66-3	
Chloromethane	ND	ug/kg	4850	1000		05/03/24 02:23	74-87-3	
2-Chlorotoluene	ND	ug/kg	4850	1000		05/03/24 02:23	95-49-8	
4-Chlorotoluene	ND	ug/kg	4850	1000		05/03/24 02:23	106-43-4	
Dibromochloromethane	ND	ug/kg	4850	1000		05/03/24 02:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4850	1000		05/03/24 02:23	106-93-4	
Dibromomethane	ND	ug/kg	4850	1000		05/03/24 02:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4850	1000		05/03/24 02:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4850	1000		05/03/24 02:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4850	1000		05/03/24 02:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	97100	1000		05/03/24 02:23	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4850	1000		05/03/24 02:23	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4850	1000		05/03/24 02:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4850	1000		05/03/24 02:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4850	1000		05/03/24 02:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4850	1000		05/03/24 02:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4850	1000		05/03/24 02:23	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4850	1000		05/03/24 02:23	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4850	1000		05/03/24 02:23	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4850	1000		05/03/24 02:23	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4850	1000		05/03/24 02:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4850	1000		05/03/24 02:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4850	1000		05/03/24 02:23	10061-02-6	
Ethylbenzene	**5880**	ug/kg	4850	1000		05/03/24 02:23	100-41-4	
Ethyl methacrylate	ND	ug/kg	97100	1000		05/03/24 02:23	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4850	1000		05/03/24 02:23	87-68-3	
n-Hexane	**11200**	ug/kg	4850	1000		05/06/24 10:27	110-54-3	
2-Hexanone	ND	ug/kg	97100	1000		05/03/24 02:23	591-78-6	
Iodomethane	ND	ug/kg	97100	1000		05/03/24 02:23	74-88-4	
Isopropylbenzene (Cumene)	**6170**	ug/kg	4850	1000		05/03/24 02:23	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4850	1000		05/03/24 02:23	99-87-6	
Methylene Chloride	ND	ug/kg	19400	1000		05/03/24 02:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	24300	1000		05/03/24 02:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4850	1000		05/03/24 02:23	1634-04-4	
Naphthalene	**13700**	ug/kg	4850	1000		05/03/24 02:23	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB5 (9-11) **Lab ID: 50371662010** Collected: 04/26/24 11:40 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
n-Propylbenzene	**19900**	ug/kg	4850	1000		05/06/24 10:27	103-65-1	
Styrene	ND	ug/kg	4850	1000		05/03/24 02:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4850	1000		05/03/24 02:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4850	1000		05/03/24 02:23	79-34-5	
Tetrachloroethene	ND	ug/kg	4850	1000		05/03/24 02:23	127-18-4	
Toluene	ND	ug/kg	4850	1000		05/03/24 02:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4850	1000		05/03/24 02:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4850	1000		05/03/24 02:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4850	1000		05/03/24 02:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4850	1000		05/03/24 02:23	79-00-5	
Trichloroethene	ND	ug/kg	4850	1000		05/03/24 02:23	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4850	1000		05/03/24 02:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4850	1000		05/03/24 02:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4850	1000		05/03/24 02:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4850	1000		05/03/24 02:23	108-67-8	
Vinyl acetate	ND	ug/kg	97100	1000		05/03/24 02:23	108-05-4	
Vinyl chloride	ND	ug/kg	4850	1000		05/03/24 02:23	75-01-4	
Xylene (Total)	ND	ug/kg	9710	1000		05/03/24 02:23	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	75-135	1000		05/03/24 02:23	1868-53-7	
Toluene-d8 (S)	102	%.	65-148	1000		05/03/24 02:23	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	63-132	1000		05/03/24 02:23	460-00-4	
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis							
Percent Moisture	**13.1**	%	0.10	1		05/09/24 15:07		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB6 (0-2) **Lab ID: 50371662011** Collected: 04/26/24 12:15 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Indianapolis							
Arsenic	**14.4**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:45	7440-38-2	
Barium	**158**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:45	7440-39-3	
Cadmium	**1.9**	mg/kg	0.55	1	05/09/24 15:40	05/10/24 11:45	7440-43-9	
Chromium	**16.6**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:45	7440-47-3	
Lead	**235**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:45	7439-92-1	
Selenium	ND	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:45	7782-49-2	
Silver	ND	mg/kg	0.55	1	05/09/24 15:40	05/10/24 11:45	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Indianapolis							
Mercury	**0.37**	mg/kg	0.24	1	05/09/24 10:02	05/09/24 18:41	7439-97-6	
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	**24900**	ug/kg	58.4	10	05/02/24 14:27	05/03/24 16:04	83-32-9	
Acenaphthylene	**1390**	ug/kg	58.4	10	05/02/24 14:27	05/03/24 16:04	208-96-8	
Anthracene	**44900**	ug/kg	58.4	10	05/02/24 14:27	05/03/24 16:04	120-12-7	
Benzo(a)anthracene	**52800**	ug/kg	58.4	10	05/02/24 14:27	05/03/24 16:04	56-55-3	
Benzo(a)pyrene	**49100**	ug/kg	58.4	10	05/02/24 14:27	05/03/24 16:04	50-32-8	
Benzo(b)fluoranthene	**50600**	ug/kg	58.4	10	05/02/24 14:27	05/03/24 16:04	205-99-2	
Benzo(g,h,i)perylene	**22000**	ug/kg	58.4	10	05/02/24 14:27	05/03/24 16:04	191-24-2	
Benzo(k)fluoranthene	**24300**	ug/kg	58.4	10	05/02/24 14:27	05/03/24 16:04	207-08-9	
Chrysene	**44800**	ug/kg	58.4	10	05/02/24 14:27	05/03/24 16:04	218-01-9	
Dibenz(a,h)anthracene	**6260**	ug/kg	58.4	10	05/02/24 14:27	05/03/24 16:04	53-70-3	
Fluoranthene	**143000**	ug/kg	292	50	05/02/24 14:27	05/03/24 19:38	206-44-0	
Fluorene	**26400**	ug/kg	58.4	10	05/02/24 14:27	05/03/24 16:04	86-73-7	
Indeno(1,2,3-cd)pyrene	**20900**	ug/kg	58.4	10	05/02/24 14:27	05/03/24 16:04	193-39-5	
1-Methylnaphthalene	**11500**	ug/kg	58.4	10	05/02/24 14:27	05/03/24 16:04	90-12-0	
2-Methylnaphthalene	**14800**	ug/kg	58.4	10	05/02/24 14:27	05/03/24 16:04	91-57-6	
Naphthalene	**22500**	ug/kg	58.4	10	05/02/24 14:27	05/03/24 16:04	91-20-3	ED
Phenanthrene	**198000**	ug/kg	292	50	05/02/24 14:27	05/03/24 19:38	85-01-8	
Pyrene	**135000**	ug/kg	292	50	05/02/24 14:27	05/03/24 19:38	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	47	%.	16-93	10	05/02/24 14:27	05/03/24 16:04	321-60-8	
p-Terphenyl-d14 (S)	63	%.	19-115	10	05/02/24 14:27	05/03/24 16:04	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	112	1		05/03/24 03:24	67-64-1	
Acrolein	ND	ug/kg	112	1		05/03/24 03:24	107-02-8	
Acrylonitrile	ND	ug/kg	112	1		05/03/24 03:24	107-13-1	
Benzene	ND	ug/kg	5.6	1		05/03/24 03:24	71-43-2	
Bromobenzene	ND	ug/kg	5.6	1		05/03/24 03:24	108-86-1	
Bromochloromethane	ND	ug/kg	5.6	1		05/03/24 03:24	74-97-5	
Bromodichloromethane	ND	ug/kg	5.6	1		05/03/24 03:24	75-27-4	

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB6 (0-2) **Lab ID: 50371662011** Collected: 04/26/24 12:15 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/kg	5.6	1		05/03/24 03:24	75-25-2	
Bromomethane	ND	ug/kg	5.6	1		05/03/24 03:24	74-83-9	
2-Butanone (MEK)	ND	ug/kg	27.9	1		05/03/24 03:24	78-93-3	
n-Butylbenzene	ND	ug/kg	5.6	1		05/03/24 03:24	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.6	1		05/03/24 03:24	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.6	1		05/03/24 03:24	98-06-6	
Carbon disulfide	ND	ug/kg	11.2	1		05/03/24 03:24	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.6	1		05/03/24 03:24	56-23-5	
Chlorobenzene	ND	ug/kg	5.6	1		05/03/24 03:24	108-90-7	
Chloroethane	ND	ug/kg	5.6	1		05/03/24 03:24	75-00-3	
Chloroform	ND	ug/kg	5.6	1		05/03/24 03:24	67-66-3	
Chloromethane	ND	ug/kg	5.6	1		05/03/24 03:24	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.6	1		05/03/24 03:24	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.6	1		05/03/24 03:24	106-43-4	
Dibromochloromethane	ND	ug/kg	5.6	1		05/03/24 03:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.6	1		05/03/24 03:24	106-93-4	
Dibromomethane	ND	ug/kg	5.6	1		05/03/24 03:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.6	1		05/03/24 03:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.6	1		05/03/24 03:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.6	1		05/03/24 03:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	112	1		05/03/24 03:24	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.6	1		05/03/24 03:24	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.6	1		05/03/24 03:24	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.6	1		05/03/24 03:24	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.6	1		05/03/24 03:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.6	1		05/03/24 03:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.6	1		05/03/24 03:24	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.6	1		05/03/24 03:24	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.6	1		05/03/24 03:24	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.6	1		05/03/24 03:24	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.6	1		05/03/24 03:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.6	1		05/03/24 03:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.6	1		05/03/24 03:24	10061-02-6	
Ethylbenzene	ND	ug/kg	5.6	1		05/03/24 03:24	100-41-4	
Ethyl methacrylate	ND	ug/kg	112	1		05/03/24 03:24	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.6	1		05/03/24 03:24	87-68-3	
n-Hexane	ND	ug/kg	5.6	1		05/03/24 03:24	110-54-3	
2-Hexanone	ND	ug/kg	112	1		05/03/24 03:24	591-78-6	
Iodomethane	ND	ug/kg	112	1		05/03/24 03:24	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	5.6	1		05/03/24 03:24	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.6	1		05/03/24 03:24	99-87-6	
Methylene Chloride	ND	ug/kg	22.3	1		05/03/24 03:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	27.9	1		05/03/24 03:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.6	1		05/03/24 03:24	1634-04-4	
Naphthalene	ND	ug/kg	5.6	1		05/03/24 03:24	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB6 (0-2) **Lab ID: 50371662011** Collected: 04/26/24 12:15 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
	Pace Analytical Services - Indianapolis							
n-Propylbenzene	ND	ug/kg	5.6	1		05/03/24 03:24	103-65-1	
Styrene	ND	ug/kg	5.6	1		05/03/24 03:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.6	1		05/03/24 03:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.6	1		05/03/24 03:24	79-34-5	
Tetrachloroethene	ND	ug/kg	5.6	1		05/03/24 03:24	127-18-4	
Toluene	ND	ug/kg	5.6	1		05/03/24 03:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.6	1		05/03/24 03:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.6	1		05/03/24 03:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.6	1		05/03/24 03:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.6	1		05/03/24 03:24	79-00-5	
Trichloroethene	ND	ug/kg	5.6	1		05/03/24 03:24	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.6	1		05/03/24 03:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.6	1		05/03/24 03:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.6	1		05/03/24 03:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.6	1		05/03/24 03:24	108-67-8	
Vinyl acetate	ND	ug/kg	112	1		05/03/24 03:24	108-05-4	
Vinyl chloride	ND	ug/kg	5.6	1		05/03/24 03:24	75-01-4	
Xylene (Total)	ND	ug/kg	11.2	1		05/03/24 03:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	115	%.	75-135	1		05/03/24 03:24	1868-53-7	
Toluene-d8 (S)	114	%.	65-148	1		05/03/24 03:24	2037-26-5	
4-Bromofluorobenzene (S)	85	%.	63-132	1		05/03/24 03:24	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
	Pace Analytical Services - Indianapolis							
Percent Moisture	**17.1**	%	0.10	1		05/09/24 15:07		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB6 (7-9) **Lab ID: 50371662012** Collected: 04/26/24 12:20 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Indianapolis							
Arsenic	**2.2**	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:47	7440-38-2	
Barium	**17.9**	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:47	7440-39-3	
Cadmium	ND	mg/kg	0.50	1	05/09/24 15:40	05/10/24 11:47	7440-43-9	
Chromium	**7.5**	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:47	7440-47-3	
Lead	**4.9**	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:47	7439-92-1	
Selenium	ND	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:47	7782-49-2	
Silver	ND	mg/kg	0.50	1	05/09/24 15:40	05/10/24 11:47	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Indianapolis							
Mercury	ND	mg/kg	0.21	1	05/09/24 10:02	05/09/24 18:44	7439-97-6	
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	83-32-9	
Acenaphthylene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	208-96-8	
Anthracene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	207-08-9	
Chrysene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	53-70-3	
Fluoranthene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	206-44-0	
Fluorene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	193-39-5	
1-Methylnaphthalene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	90-12-0	
2-Methylnaphthalene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	91-57-6	
Naphthalene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	91-20-3	
Phenanthrene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	85-01-8	
Pyrene	ND	ug/kg	5.3	1	05/02/24 14:27	05/03/24 16:18	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60	%.	16-93	1	05/02/24 14:27	05/03/24 16:18	321-60-8	
p-Terphenyl-d14 (S)	77	%.	19-115	1	05/02/24 14:27	05/03/24 16:18	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	111	1		05/03/24 03:54	67-64-1	
Acrolein	ND	ug/kg	111	1		05/03/24 03:54	107-02-8	
Acrylonitrile	ND	ug/kg	111	1		05/03/24 03:54	107-13-1	
Benzene	ND	ug/kg	5.6	1		05/03/24 03:54	71-43-2	
Bromobenzene	ND	ug/kg	5.6	1		05/03/24 03:54	108-86-1	
Bromochloromethane	ND	ug/kg	5.6	1		05/03/24 03:54	74-97-5	
Bromodichloromethane	ND	ug/kg	5.6	1		05/03/24 03:54	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB6 (7-9) **Lab ID: 50371662012** Collected: 04/26/24 12:20 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/kg	5.6	1		05/03/24 03:54	75-25-2	
Bromomethane	ND	ug/kg	5.6	1		05/03/24 03:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	27.8	1		05/03/24 03:54	78-93-3	
n-Butylbenzene	ND	ug/kg	5.6	1		05/03/24 03:54	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.6	1		05/03/24 03:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.6	1		05/03/24 03:54	98-06-6	
Carbon disulfide	ND	ug/kg	11.1	1		05/03/24 03:54	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.6	1		05/03/24 03:54	56-23-5	
Chlorobenzene	ND	ug/kg	5.6	1		05/03/24 03:54	108-90-7	
Chloroethane	ND	ug/kg	5.6	1		05/03/24 03:54	75-00-3	
Chloroform	ND	ug/kg	5.6	1		05/03/24 03:54	67-66-3	
Chloromethane	ND	ug/kg	5.6	1		05/03/24 03:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.6	1		05/03/24 03:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.6	1		05/03/24 03:54	106-43-4	
Dibromochloromethane	ND	ug/kg	5.6	1		05/03/24 03:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.6	1		05/03/24 03:54	106-93-4	
Dibromomethane	ND	ug/kg	5.6	1		05/03/24 03:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.6	1		05/03/24 03:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.6	1		05/03/24 03:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.6	1		05/03/24 03:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	111	1		05/03/24 03:54	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.6	1		05/03/24 03:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.6	1		05/03/24 03:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.6	1		05/03/24 03:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.6	1		05/03/24 03:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.6	1		05/03/24 03:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.6	1		05/03/24 03:54	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.6	1		05/03/24 03:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.6	1		05/03/24 03:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.6	1		05/03/24 03:54	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.6	1		05/03/24 03:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.6	1		05/03/24 03:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.6	1		05/03/24 03:54	10061-02-6	
Ethylbenzene	ND	ug/kg	5.6	1		05/03/24 03:54	100-41-4	
Ethyl methacrylate	ND	ug/kg	111	1		05/03/24 03:54	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.6	1		05/03/24 03:54	87-68-3	
n-Hexane	ND	ug/kg	5.6	1		05/03/24 03:54	110-54-3	
2-Hexanone	ND	ug/kg	111	1		05/03/24 03:54	591-78-6	
Iodomethane	ND	ug/kg	111	1		05/03/24 03:54	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	5.6	1		05/03/24 03:54	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.6	1		05/03/24 03:54	99-87-6	
Methylene Chloride	ND	ug/kg	22.2	1		05/03/24 03:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	27.8	1		05/03/24 03:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.6	1		05/03/24 03:54	1634-04-4	
Naphthalene	ND	ug/kg	5.6	1		05/03/24 03:54	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB6 (7-9) **Lab ID: 50371662012** Collected: 04/26/24 12:20 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
	Pace Analytical Services - Indianapolis							
n-Propylbenzene	ND	ug/kg	5.6	1		05/03/24 03:54	103-65-1	
Styrene	ND	ug/kg	5.6	1		05/03/24 03:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.6	1		05/03/24 03:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.6	1		05/03/24 03:54	79-34-5	
Tetrachloroethene	ND	ug/kg	5.6	1		05/03/24 03:54	127-18-4	
Toluene	ND	ug/kg	5.6	1		05/03/24 03:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.6	1		05/03/24 03:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.6	1		05/03/24 03:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.6	1		05/03/24 03:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.6	1		05/03/24 03:54	79-00-5	
Trichloroethene	ND	ug/kg	5.6	1		05/03/24 03:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.6	1		05/03/24 03:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.6	1		05/03/24 03:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.6	1		05/03/24 03:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.6	1		05/03/24 03:54	108-67-8	
Vinyl acetate	ND	ug/kg	111	1		05/03/24 03:54	108-05-4	
Vinyl chloride	ND	ug/kg	5.6	1		05/03/24 03:54	75-01-4	
Xylene (Total)	ND	ug/kg	11.1	1		05/03/24 03:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	114	%.	75-135	1		05/03/24 03:54	1868-53-7	
Toluene-d8 (S)	119	%.	65-148	1		05/03/24 03:54	2037-26-5	
4-Bromofluorobenzene (S)	80	%.	63-132	1		05/03/24 03:54	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
	Pace Analytical Services - Indianapolis							
Percent Moisture	**10.9**	%	0.10	1		05/09/24 15:07		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB7 (0-2) **Lab ID: 50371662013** Collected: 04/26/24 13:00 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Indianapolis							
Arsenic	**3.5**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:49	7440-38-2	
Barium	**76.7**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:49	7440-39-3	
Cadmium	ND	mg/kg	0.56	1	05/09/24 15:40	05/10/24 11:49	7440-43-9	
Chromium	**20.6**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:49	7440-47-3	
Lead	**13.8**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:49	7439-92-1	
Selenium	ND	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:49	7782-49-2	
Silver	ND	mg/kg	0.56	1	05/09/24 15:40	05/10/24 11:49	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Indianapolis							
Mercury	ND	mg/kg	0.25	1	05/09/24 10:02	05/09/24 18:46	7439-97-6	
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	83-32-9	
Acenaphthylene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	208-96-8	
Anthracene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	207-08-9	
Chrysene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	53-70-3	
Fluoranthene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	206-44-0	
Fluorene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	193-39-5	
1-Methylnaphthalene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	90-12-0	
2-Methylnaphthalene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	91-57-6	
Naphthalene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	91-20-3	
Phenanthrene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	85-01-8	
Pyrene	ND	ug/kg	5.9	1	05/02/24 14:27	05/03/24 16:33	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	54	%.	16-93	1	05/02/24 14:27	05/03/24 16:33	321-60-8	
p-Terphenyl-d14 (S)	60	%.	19-115	1	05/02/24 14:27	05/03/24 16:33	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	98.9	1		05/03/24 04:25	67-64-1	
Acrolein	ND	ug/kg	98.9	1		05/03/24 04:25	107-02-8	
Acrylonitrile	ND	ug/kg	98.9	1		05/03/24 04:25	107-13-1	
Benzene	ND	ug/kg	4.9	1		05/03/24 04:25	71-43-2	
Bromobenzene	ND	ug/kg	4.9	1		05/03/24 04:25	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		05/03/24 04:25	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		05/03/24 04:25	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB7 (0-2) **Lab ID: 50371662013** Collected: 04/26/24 13:00 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/kg	4.9	1		05/03/24 04:25	75-25-2	
Bromomethane	ND	ug/kg	4.9	1		05/03/24 04:25	74-83-9	
2-Butanone (MEK)	ND	ug/kg	24.7	1		05/03/24 04:25	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		05/03/24 04:25	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		05/03/24 04:25	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		05/03/24 04:25	98-06-6	
Carbon disulfide	ND	ug/kg	9.9	1		05/03/24 04:25	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.9	1		05/03/24 04:25	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		05/03/24 04:25	108-90-7	
Chloroethane	ND	ug/kg	4.9	1		05/03/24 04:25	75-00-3	
Chloroform	ND	ug/kg	4.9	1		05/03/24 04:25	67-66-3	
Chloromethane	ND	ug/kg	4.9	1		05/03/24 04:25	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		05/03/24 04:25	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		05/03/24 04:25	106-43-4	
Dibromochloromethane	ND	ug/kg	4.9	1		05/03/24 04:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		05/03/24 04:25	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		05/03/24 04:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		05/03/24 04:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		05/03/24 04:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		05/03/24 04:25	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	98.9	1		05/03/24 04:25	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.9	1		05/03/24 04:25	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		05/03/24 04:25	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		05/03/24 04:25	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	1		05/03/24 04:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		05/03/24 04:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		05/03/24 04:25	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		05/03/24 04:25	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		05/03/24 04:25	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		05/03/24 04:25	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		05/03/24 04:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		05/03/24 04:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		05/03/24 04:25	10061-02-6	
Ethylbenzene	ND	ug/kg	4.9	1		05/03/24 04:25	100-41-4	
Ethyl methacrylate	ND	ug/kg	98.9	1		05/03/24 04:25	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		05/03/24 04:25	87-68-3	
n-Hexane	ND	ug/kg	4.9	1		05/03/24 04:25	110-54-3	
2-Hexanone	ND	ug/kg	98.9	1		05/03/24 04:25	591-78-6	
Iodomethane	ND	ug/kg	98.9	1		05/03/24 04:25	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		05/03/24 04:25	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		05/03/24 04:25	99-87-6	
Methylene Chloride	ND	ug/kg	19.8	1		05/03/24 04:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	24.7	1		05/03/24 04:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		05/03/24 04:25	1634-04-4	
Naphthalene	ND	ug/kg	4.9	1		05/03/24 04:25	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB7 (0-2) **Lab ID: 50371662013** Collected: 04/26/24 13:00 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
	Pace Analytical Services - Indianapolis							
n-Propylbenzene	ND	ug/kg	4.9	1		05/03/24 04:25	103-65-1	
Styrene	ND	ug/kg	4.9	1		05/03/24 04:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		05/03/24 04:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		05/03/24 04:25	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	1		05/03/24 04:25	127-18-4	
Toluene	ND	ug/kg	4.9	1		05/03/24 04:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		05/03/24 04:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		05/03/24 04:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		05/03/24 04:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		05/03/24 04:25	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		05/03/24 04:25	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		05/03/24 04:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		05/03/24 04:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		05/03/24 04:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		05/03/24 04:25	108-67-8	
Vinyl acetate	ND	ug/kg	98.9	1		05/03/24 04:25	108-05-4	
Vinyl chloride	ND	ug/kg	4.9	1		05/03/24 04:25	75-01-4	
Xylene (Total)	ND	ug/kg	9.9	1		05/03/24 04:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	111	%.	75-135	1		05/03/24 04:25	1868-53-7	
Toluene-d8 (S)	101	%.	65-148	1		05/03/24 04:25	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	63-132	1		05/03/24 04:25	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
	Pace Analytical Services - Indianapolis							
Percent Moisture	**17.5**	%	0.10	1		05/09/24 15:07		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB7 (7-9) **Lab ID: 50371662014** Collected: 04/26/24 13:10 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Indianapolis							
Arsenic	**2.6**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:51	7440-38-2	
Barium	**25.2**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:51	7440-39-3	
Cadmium	ND	mg/kg	0.57	1	05/09/24 15:40	05/10/24 11:51	7440-43-9	
Chromium	**9.5**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:51	7440-47-3	
Lead	**6.9**	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:51	7439-92-1	
Selenium	ND	mg/kg	1.1	1	05/09/24 15:40	05/10/24 11:51	7782-49-2	
Silver	ND	mg/kg	0.57	1	05/09/24 15:40	05/10/24 11:51	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Indianapolis							
Mercury	ND	mg/kg	0.24	1	05/09/24 10:02	05/09/24 18:48	7439-97-6	
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	83-32-9	
Acenaphthylene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	208-96-8	
Anthracene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	207-08-9	
Chrysene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	53-70-3	
Fluoranthene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	206-44-0	
Fluorene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	193-39-5	
1-Methylnaphthalene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	90-12-0	
2-Methylnaphthalene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	91-57-6	
Naphthalene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	91-20-3	
Phenanthrene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	85-01-8	
Pyrene	ND	ug/kg	5.9	1	05/01/24 19:01	05/03/24 00:11	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	66	%.	16-93	1	05/01/24 19:01	05/03/24 00:11	321-60-8	
p-Terphenyl-d14 (S)	90	%.	19-115	1	05/01/24 19:01	05/03/24 00:11	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	103	1		05/03/24 04:55	67-64-1	
Acrolein	ND	ug/kg	103	1		05/03/24 04:55	107-02-8	
Acrylonitrile	ND	ug/kg	103	1		05/03/24 04:55	107-13-1	
Benzene	ND	ug/kg	5.2	1		05/03/24 04:55	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		05/03/24 04:55	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		05/03/24 04:55	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		05/03/24 04:55	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB7 (7-9) **Lab ID: 50371662014** Collected: 04/26/24 13:10 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/kg	5.2	1		05/03/24 04:55	75-25-2	
Bromomethane	ND	ug/kg	5.2	1		05/03/24 04:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	25.8	1		05/03/24 04:55	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		05/03/24 04:55	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1		05/03/24 04:55	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		05/03/24 04:55	98-06-6	
Carbon disulfide	ND	ug/kg	10.3	1		05/03/24 04:55	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.2	1		05/03/24 04:55	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		05/03/24 04:55	108-90-7	
Chloroethane	ND	ug/kg	5.2	1		05/03/24 04:55	75-00-3	
Chloroform	ND	ug/kg	5.2	1		05/03/24 04:55	67-66-3	
Chloromethane	ND	ug/kg	5.2	1		05/03/24 04:55	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		05/03/24 04:55	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		05/03/24 04:55	106-43-4	
Dibromochloromethane	ND	ug/kg	5.2	1		05/03/24 04:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		05/03/24 04:55	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		05/03/24 04:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		05/03/24 04:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		05/03/24 04:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		05/03/24 04:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	103	1		05/03/24 04:55	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.2	1		05/03/24 04:55	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		05/03/24 04:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		05/03/24 04:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		05/03/24 04:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		05/03/24 04:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		05/03/24 04:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		05/03/24 04:55	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		05/03/24 04:55	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		05/03/24 04:55	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		05/03/24 04:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		05/03/24 04:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		05/03/24 04:55	10061-02-6	
Ethylbenzene	ND	ug/kg	5.2	1		05/03/24 04:55	100-41-4	
Ethyl methacrylate	ND	ug/kg	103	1		05/03/24 04:55	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		05/03/24 04:55	87-68-3	
n-Hexane	ND	ug/kg	5.2	1		05/03/24 04:55	110-54-3	
2-Hexanone	ND	ug/kg	103	1		05/03/24 04:55	591-78-6	
Iodomethane	ND	ug/kg	103	1		05/03/24 04:55	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		05/03/24 04:55	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		05/03/24 04:55	99-87-6	
Methylene Chloride	ND	ug/kg	20.7	1		05/03/24 04:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	25.8	1		05/03/24 04:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		05/03/24 04:55	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		05/03/24 04:55	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: SB7 (7-9) **Lab ID: 50371662014** Collected: 04/26/24 13:10 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
	Pace Analytical Services - Indianapolis							
n-Propylbenzene	ND	ug/kg	5.2	1		05/03/24 04:55	103-65-1	
Styrene	ND	ug/kg	5.2	1		05/03/24 04:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		05/03/24 04:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		05/03/24 04:55	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		05/03/24 04:55	127-18-4	
Toluene	ND	ug/kg	5.2	1		05/03/24 04:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		05/03/24 04:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		05/03/24 04:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		05/03/24 04:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		05/03/24 04:55	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		05/03/24 04:55	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		05/03/24 04:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		05/03/24 04:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		05/03/24 04:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		05/03/24 04:55	108-67-8	
Vinyl acetate	ND	ug/kg	103	1		05/03/24 04:55	108-05-4	
Vinyl chloride	ND	ug/kg	5.2	1		05/03/24 04:55	75-01-4	
Xylene (Total)	ND	ug/kg	10.3	1		05/03/24 04:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	118	%.	75-135	1		05/03/24 04:55	1868-53-7	
Toluene-d8 (S)	122	%.	65-148	1		05/03/24 04:55	2037-26-5	
4-Bromofluorobenzene (S)	78	%.	63-132	1		05/03/24 04:55	460-00-4	
Percent Moisture	Analytical Method: SM 2540G							
	Pace Analytical Services - Indianapolis							
Percent Moisture	**18.4**	%	0.10	1		05/09/24 15:07		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: S-DUP1 **Lab ID: 50371662015** Collected: 04/26/24 08:00 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Indianapolis							
Arsenic	**5.2**	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:56	7440-38-2	
Barium	**16.6**	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:56	7440-39-3	
Cadmium	ND	mg/kg	0.51	1	05/09/24 15:40	05/10/24 11:56	7440-43-9	
Chromium	**10.0**	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:56	7440-47-3	
Lead	**12.2**	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:56	7439-92-1	
Selenium	ND	mg/kg	1.0	1	05/09/24 15:40	05/10/24 11:56	7782-49-2	
Silver	ND	mg/kg	0.51	1	05/09/24 15:40	05/10/24 11:56	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471 Pace Analytical Services - Indianapolis							
Mercury	ND	mg/kg	0.24	1	05/09/24 10:02	05/09/24 18:58	7439-97-6	
8270 PAH Soil by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Indianapolis							
Acenaphthene	**8.6**	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	83-32-9	
Acenaphthylene	ND	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	208-96-8	
Anthracene	ND	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	207-08-9	
Chrysene	ND	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	53-70-3	
Fluoranthene	ND	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	206-44-0	
Fluorene	**11.4**	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	193-39-5	
1-Methylnaphthalene	**1340**	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	90-12-0	
2-Methylnaphthalene	**2900**	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	91-57-6	
Naphthalene	**1450**	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	91-20-3	
Phenanthrene	**15.8**	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	85-01-8	
Pyrene	ND	ug/kg	5.6	1	05/01/24 19:01	05/03/24 00:25	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	63	%.	16-93	1	05/01/24 19:01	05/03/24 00:25	321-60-8	
p-Terphenyl-d14 (S)	90	%.	19-115	1	05/01/24 19:01	05/03/24 00:25	1718-51-0	
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	95200	1000		05/03/24 05:26	67-64-1	
Acrolein	ND	ug/kg	95200	1000		05/03/24 05:26	107-02-8	
Acrylonitrile	ND	ug/kg	95200	1000		05/03/24 05:26	107-13-1	
Benzene	ND	ug/kg	4760	1000		05/03/24 05:26	71-43-2	
Bromobenzene	ND	ug/kg	4760	1000		05/03/24 05:26	108-86-1	
Bromochloromethane	ND	ug/kg	4760	1000		05/03/24 05:26	74-97-5	
Bromodichloromethane	ND	ug/kg	4760	1000		05/03/24 05:26	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: S-DUP1 **Lab ID: 50371662015** Collected: 04/26/24 08:00 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/kg	4760	1000		05/03/24 05:26	75-25-2	
Bromomethane	ND	ug/kg	4760	1000		05/03/24 05:26	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23800	1000		05/03/24 05:26	78-93-3	
n-Butylbenzene	ND	ug/kg	4760	1000		05/03/24 05:26	104-51-8	
sec-Butylbenzene	ND	ug/kg	4760	1000		05/03/24 05:26	135-98-8	
tert-Butylbenzene	ND	ug/kg	4760	1000		05/03/24 05:26	98-06-6	
Carbon disulfide	ND	ug/kg	9520	1000		05/03/24 05:26	75-15-0	
Carbon tetrachloride	ND	ug/kg	4760	1000		05/03/24 05:26	56-23-5	
Chlorobenzene	ND	ug/kg	4760	1000		05/03/24 05:26	108-90-7	
Chloroethane	ND	ug/kg	4760	1000		05/03/24 05:26	75-00-3	
Chloroform	ND	ug/kg	4760	1000		05/03/24 05:26	67-66-3	
Chloromethane	ND	ug/kg	4760	1000		05/03/24 05:26	74-87-3	
2-Chlorotoluene	ND	ug/kg	4760	1000		05/03/24 05:26	95-49-8	
4-Chlorotoluene	ND	ug/kg	4760	1000		05/03/24 05:26	106-43-4	
Dibromochloromethane	ND	ug/kg	4760	1000		05/03/24 05:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4760	1000		05/03/24 05:26	106-93-4	
Dibromomethane	ND	ug/kg	4760	1000		05/03/24 05:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4760	1000		05/03/24 05:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4760	1000		05/03/24 05:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4760	1000		05/03/24 05:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	95200	1000		05/03/24 05:26	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4760	1000		05/03/24 05:26	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4760	1000		05/03/24 05:26	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4760	1000		05/03/24 05:26	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4760	1000		05/03/24 05:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4760	1000		05/03/24 05:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4760	1000		05/03/24 05:26	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4760	1000		05/03/24 05:26	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4760	1000		05/03/24 05:26	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4760	1000		05/03/24 05:26	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4760	1000		05/03/24 05:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4760	1000		05/03/24 05:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4760	1000		05/03/24 05:26	10061-02-6	
Ethylbenzene	ND	ug/kg	4760	1000		05/03/24 05:26	100-41-4	
Ethyl methacrylate	ND	ug/kg	95200	1000		05/03/24 05:26	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4760	1000		05/03/24 05:26	87-68-3	
n-Hexane	ND	ug/kg	4760	1000		05/03/24 05:26	110-54-3	
2-Hexanone	ND	ug/kg	95200	1000		05/03/24 05:26	591-78-6	
Iodomethane	ND	ug/kg	95200	1000		05/03/24 05:26	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4760	1000		05/03/24 05:26	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4760	1000		05/03/24 05:26	99-87-6	
Methylene Chloride	ND	ug/kg	19000	1000		05/03/24 05:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23800	1000		05/03/24 05:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4760	1000		05/03/24 05:26	1634-04-4	
Naphthalene	**7820**	ug/kg	4760	1000		05/03/24 05:26	91-20-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: S-DUP1 **Lab ID: 50371662015** Collected: 04/26/24 08:00 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
n-Propylbenzene	**7000**	ug/kg	4760	1000		05/06/24 10:58	103-65-1	
Styrene	ND	ug/kg	4760	1000		05/03/24 05:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4760	1000		05/03/24 05:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4760	1000		05/03/24 05:26	79-34-5	
Tetrachloroethene	ND	ug/kg	4760	1000		05/03/24 05:26	127-18-4	
Toluene	ND	ug/kg	4760	1000		05/03/24 05:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4760	1000		05/03/24 05:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4760	1000		05/03/24 05:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4760	1000		05/03/24 05:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4760	1000		05/03/24 05:26	79-00-5	
Trichloroethene	ND	ug/kg	4760	1000		05/03/24 05:26	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4760	1000		05/03/24 05:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4760	1000		05/03/24 05:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4760	1000		05/03/24 05:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4760	1000		05/03/24 05:26	108-67-8	
Vinyl acetate	ND	ug/kg	95200	1000		05/03/24 05:26	108-05-4	
Vinyl chloride	ND	ug/kg	4760	1000		05/03/24 05:26	75-01-4	
Xylene (Total)	ND	ug/kg	9520	1000		05/03/24 05:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	75-135	1000		05/03/24 05:26	1868-53-7	
Toluene-d8 (S)	101	%.	65-148	1000		05/03/24 05:26	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	63-132	1000		05/03/24 05:26	460-00-4	
Percent Moisture	Analytical Method: SM 2540G Pace Analytical Services - Indianapolis							
Percent Moisture	**15.5**	%	0.10	1		05/09/24 15:08		N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: Trip Blank **Lab ID: 50371662016** Collected: 04/26/24 08:00 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/kg	100	1		05/03/24 05:56	67-64-1	
Acrolein	ND	ug/kg	100	1		05/03/24 05:56	107-02-8	
Acrylonitrile	ND	ug/kg	100	1		05/03/24 05:56	107-13-1	
Benzene	ND	ug/kg	5.0	1		05/03/24 05:56	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		05/03/24 05:56	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		05/03/24 05:56	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		05/03/24 05:56	75-27-4	
Bromoform	ND	ug/kg	5.0	1		05/03/24 05:56	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		05/03/24 05:56	74-83-9	
2-Butanone (MEK)	ND	ug/kg	25.0	1		05/03/24 05:56	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		05/03/24 05:56	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		05/03/24 05:56	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		05/03/24 05:56	98-06-6	
Carbon disulfide	ND	ug/kg	10.0	1		05/03/24 05:56	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		05/03/24 05:56	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		05/03/24 05:56	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		05/03/24 05:56	75-00-3	
Chloroform	ND	ug/kg	5.0	1		05/03/24 05:56	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		05/03/24 05:56	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		05/03/24 05:56	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		05/03/24 05:56	106-43-4	
Dibromochloromethane	ND	ug/kg	5.0	1		05/03/24 05:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		05/03/24 05:56	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		05/03/24 05:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		05/03/24 05:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		05/03/24 05:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		05/03/24 05:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	100	1		05/03/24 05:56	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		05/03/24 05:56	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		05/03/24 05:56	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		05/03/24 05:56	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		05/03/24 05:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/03/24 05:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		05/03/24 05:56	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		05/03/24 05:56	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		05/03/24 05:56	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		05/03/24 05:56	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		05/03/24 05:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/03/24 05:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		05/03/24 05:56	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		05/03/24 05:56	100-41-4	
Ethyl methacrylate	ND	ug/kg	100	1		05/03/24 05:56	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		05/03/24 05:56	87-68-3	
n-Hexane	ND	ug/kg	5.0	1		05/03/24 05:56	110-54-3	
2-Hexanone	ND	ug/kg	100	1		05/03/24 05:56	591-78-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Sample: Trip Blank **Lab ID: 50371662016** Collected: 04/26/24 08:00 Received: 04/26/24 15:07 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Iodomethane	ND	ug/kg	100	1		05/03/24 05:56	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		05/03/24 05:56	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		05/03/24 05:56	99-87-6	
Methylene Chloride	ND	ug/kg	20.0	1		05/03/24 05:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	25.0	1		05/03/24 05:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		05/03/24 05:56	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		05/03/24 05:56	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		05/03/24 05:56	103-65-1	
Styrene	ND	ug/kg	5.0	1		05/03/24 05:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/03/24 05:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		05/03/24 05:56	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		05/03/24 05:56	127-18-4	
Toluene	ND	ug/kg	5.0	1		05/03/24 05:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		05/03/24 05:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		05/03/24 05:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		05/03/24 05:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		05/03/24 05:56	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		05/03/24 05:56	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		05/03/24 05:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		05/03/24 05:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		05/03/24 05:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		05/03/24 05:56	108-67-8	
Vinyl acetate	ND	ug/kg	100	1		05/03/24 05:56	108-05-4	
Vinyl chloride	ND	ug/kg	5.0	1		05/03/24 05:56	75-01-4	
Xylene (Total)	ND	ug/kg	10.0	1		05/03/24 05:56	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	111	%.	75-135	1		05/03/24 05:56	1868-53-7	
Toluene-d8 (S)	97	%.	65-148	1		05/03/24 05:56	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	63-132	1		05/03/24 05:56	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

QC Batch: 788543
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50371662001, 50371662002, 50371662003, 50371662004, 50371662005, 50371662006, 50371662007, 50371662008, 50371662009, 50371662010, 50371662011, 50371662012, 50371662013, 50371662014, 50371662015

METHOD BLANK: 3607109
Matrix: Solid
Associated Lab Samples: 50371662001, 50371662002, 50371662003, 50371662004, 50371662005, 50371662006, 50371662007, 50371662008, 50371662009, 50371662010, 50371662011, 50371662012, 50371662013, 50371662014, 50371662015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.20	05/09/24 18:02	

LABORATORY CONTROL SAMPLE: 3607110

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.5	0.51	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3607111 3607112

Parameter	Units	50371662007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.53	0.55	0.55	0.59	99	101	75-125	6	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

QC Batch: 787735 — Analysis Method: EPA 6010
QC Batch Method: EPA 3050 — Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50371662001, 50371662002, 50371662003, 50371662004, 50371662005, 50371662006, 50371662007, 50371662008, 50371662009, 50371662010, 50371662011, 50371662012, 50371662013, 50371662014, 50371662015

METHOD BLANK: 3603453 — Matrix: Solid
Associated Lab Samples: 50371662001, 50371662002, 50371662003, 50371662004, 50371662005, 50371662006, 50371662007, 50371662008, 50371662009, 50371662010, 50371662011, 50371662012, 50371662013, 50371662014, 50371662015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	05/10/24 11:16	
Barium	mg/kg	ND	1.0	05/10/24 11:16	
Cadmium	mg/kg	ND	0.50	05/10/24 11:16	
Chromium	mg/kg	ND	1.0	05/10/24 11:16	
Lead	mg/kg	ND	1.0	05/10/24 11:16	
Selenium	mg/kg	ND	1.0	05/10/24 11:16	
Silver	mg/kg	ND	0.50	05/10/24 11:16	

LABORATORY CONTROL SAMPLE: 3603454

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	50.7	101	80-120	
Barium	mg/kg	50	50.0	100	80-120	
Cadmium	mg/kg	50	48.0	96	80-120	
Chromium	mg/kg	50	50.4	101	80-120	
Lead	mg/kg	50	47.4	95	80-120	
Selenium	mg/kg	50	48.7	97	80-120	
Silver	mg/kg	25	25.6	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3603455 3603456

Parameter	Units	50371662007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	6.9	53.5	54.4	60.4	63.4	100	104	75-125	5	20	
Barium	mg/kg	49.4	53.5	54.4	94.4	96.0	84	86	75-125	2	20	
Cadmium	mg/kg	ND	53.5	54.4	51.4	52.5	95	96	75-125	2	20	
Chromium	mg/kg	7.4	53.5	54.4	57.4	56.6	93	91	75-125	1	20	
Lead	mg/kg	53.7	53.5	54.4	97.2	80.5	81	49	75-125	19	20	M0
Selenium	mg/kg	ND	53.5	54.4	49.6	51.0	93	94	75-125	3	20	
Silver	mg/kg	ND	26.8	27.1	28.0	28.7	104	106	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

QC Batch: 787856
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50371662001, 50371662002, 50371662003

METHOD BLANK: 3604006 Matrix: Solid
Associated Lab Samples: 50371662001, 50371662002, 50371662003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	05/02/24 21:34	
1,1,1-Trichloroethane	ug/kg	ND	5.0	05/02/24 21:34	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	05/02/24 21:34	
1,1,2-Trichloroethane	ug/kg	ND	5.0	05/02/24 21:34	
1,1-Dichloroethane	ug/kg	ND	5.0	05/02/24 21:34	
1,1-Dichloroethene	ug/kg	ND	5.0	05/02/24 21:34	
1,1-Dichloropropene	ug/kg	ND	5.0	05/02/24 21:34	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	05/02/24 21:34	
1,2,3-Trichloropropane	ug/kg	ND	5.0	05/02/24 21:34	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	05/02/24 21:34	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	05/02/24 21:34	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	05/02/24 21:34	
1,2-Dichlorobenzene	ug/kg	ND	5.0	05/02/24 21:34	
1,2-Dichloroethane	ug/kg	ND	5.0	05/02/24 21:34	
1,2-Dichloropropane	ug/kg	ND	5.0	05/02/24 21:34	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	05/02/24 21:34	
1,3-Dichlorobenzene	ug/kg	ND	5.0	05/02/24 21:34	
1,3-Dichloropropane	ug/kg	ND	5.0	05/02/24 21:34	
1,4-Dichlorobenzene	ug/kg	ND	5.0	05/02/24 21:34	
2,2-Dichloropropane	ug/kg	ND	5.0	05/02/24 21:34	
2-Butanone (MEK)	ug/kg	ND	25.0	05/02/24 21:34	
2-Chlorotoluene	ug/kg	ND	5.0	05/02/24 21:34	
2-Hexanone	ug/kg	ND	100	05/02/24 21:34	
4-Chlorotoluene	ug/kg	ND	5.0	05/02/24 21:34	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	05/02/24 21:34	
Acetone	ug/kg	ND	100	05/02/24 21:34	
Acrolein	ug/kg	ND	100	05/02/24 21:34	
Acrylonitrile	ug/kg	ND	100	05/02/24 21:34	
Benzene	ug/kg	ND	5.0	05/02/24 21:34	
Bromobenzene	ug/kg	ND	5.0	05/02/24 21:34	
Bromochloromethane	ug/kg	ND	5.0	05/02/24 21:34	
Bromodichloromethane	ug/kg	ND	5.0	05/02/24 21:34	
Bromoform	ug/kg	ND	5.0	05/02/24 21:34	
Bromomethane	ug/kg	ND	5.0	05/02/24 21:34	
Carbon disulfide	ug/kg	ND	10.0	05/02/24 21:34	
Carbon tetrachloride	ug/kg	ND	5.0	05/02/24 21:34	
Chlorobenzene	ug/kg	ND	5.0	05/02/24 21:34	
Chloroethane	ug/kg	ND	5.0	05/02/24 21:34	
Chloroform	ug/kg	ND	5.0	05/02/24 21:34	
Chloromethane	ug/kg	ND	5.0	05/02/24 21:34	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

METHOD BLANK: 3604006 Matrix: Solid
Associated Lab Samples: 50371662001, 50371662002, 50371662003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/kg	ND	5.0	05/02/24 21:34	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	05/02/24 21:34	
Dibromochloromethane	ug/kg	ND	5.0	05/02/24 21:34	
Dibromomethane	ug/kg	ND	5.0	05/02/24 21:34	
Dichlorodifluoromethane	ug/kg	ND	5.0	05/02/24 21:34	
Ethyl methacrylate	ug/kg	ND	100	05/02/24 21:34	
Ethylbenzene	ug/kg	ND	5.0	05/02/24 21:34	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	05/02/24 21:34	
Iodomethane	ug/kg	ND	100	05/02/24 21:34	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	05/02/24 21:34	
Methyl-tert-butyl ether	ug/kg	ND	5.0	05/02/24 21:34	
Methylene Chloride	ug/kg	ND	20.0	05/02/24 21:34	
n-Butylbenzene	ug/kg	ND	5.0	05/02/24 21:34	
n-Hexane	ug/kg	ND	5.0	05/02/24 21:34	
n-Propylbenzene	ug/kg	ND	5.0	05/02/24 21:34	
Naphthalene	ug/kg	ND	5.0	05/02/24 21:34	
p-Isopropyltoluene	ug/kg	ND	5.0	05/02/24 21:34	
sec-Butylbenzene	ug/kg	ND	5.0	05/02/24 21:34	
Styrene	ug/kg	ND	5.0	05/02/24 21:34	
tert-Butylbenzene	ug/kg	ND	5.0	05/02/24 21:34	
Tetrachloroethene	ug/kg	ND	5.0	05/02/24 21:34	
Toluene	ug/kg	ND	5.0	05/02/24 21:34	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	05/02/24 21:34	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	05/02/24 21:34	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	05/02/24 21:34	
Trichloroethene	ug/kg	ND	5.0	05/02/24 21:34	
Trichlorofluoromethane	ug/kg	ND	5.0	05/02/24 21:34	
Vinyl acetate	ug/kg	ND	100	05/02/24 21:34	
Vinyl chloride	ug/kg	ND	5.0	05/02/24 21:34	
Xylene (Total)	ug/kg	ND	10.0	05/02/24 21:34	
4-Bromofluorobenzene (S)	%.	99	63-132	05/02/24 21:34	
Dibromofluoromethane (S)	%.	105	75-135	05/02/24 21:34	1d
Toluene-d8 (S)	%.	98	65-148	05/02/24 21:34	

LABORATORY CONTROL SAMPLE: 3604007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	42.5	85	67-134	
1,1,2,2-Tetrachloroethane	ug/kg	50	50.3	101	67-122	
1,1-Dichloroethene	ug/kg	50	44.3	89	57-140	
1,2,4-Trimethylbenzene	ug/kg	50	44.0	88	60-122	
1,2-Dibromoethane (EDB)	ug/kg	50	53.0	106	71-126	
1,2-Dichloroethane	ug/kg	50	49.5	99	67-129	
1,2-Dichloropropane	ug/kg	50	46.8	94	71-123	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

LABORATORY CONTROL SAMPLE: 3604007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	50	46.3	93	69-125	
Chlorobenzene	ug/kg	50	43.7	87	68-122	
Chloroform	ug/kg	50	46.8	94	71-124	
cis-1,2-Dichloroethene	ug/kg	50	48.0	96	70-123	
Ethylbenzene	ug/kg	50	43.5	87	65-124	
Isopropylbenzene (Cumene)	ug/kg	50	42.2	84	65-126	
Methyl-tert-butyl ether	ug/kg	50	55.4	111	69-128	
n-Hexane	ug/kg	50	36.8	74	55-123	
Naphthalene	ug/kg	50	43.4	87	60-133	
Tetrachloroethene	ug/kg	50	40.1	80	62-128	
Toluene	ug/kg	50	42.4	85	60-122	
trans-1,2-Dichloroethene	ug/kg	50	44.3	89	67-124	
Trichloroethene	ug/kg	50	44.0	88	68-128	
Vinyl chloride	ug/kg	50	48.0	96	52-142	
Xylene (Total)	ug/kg	100	86.0	86	62-122	
4-Bromofluorobenzene (S)	%.			101	63-132	
Dibromofluoromethane (S)	%.			104	75-135	
Toluene-d8 (S)	%.			97	65-148	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

QC Batch: 787857 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50371662004, 50371662005, 50371662006, 50371662007, 50371662008, 50371662009, 50371662010, 50371662011, 50371662012, 50371662013, 50371662014, 50371662015, 50371662016

METHOD BLANK: 3604011 Matrix: Solid
Associated Lab Samples: 50371662004, 50371662005, 50371662006, 50371662007, 50371662008, 50371662009, 50371662010, 50371662011, 50371662012, 50371662013, 50371662014, 50371662015, 50371662016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	05/02/24 21:49	
1,1,1-Trichloroethane	ug/kg	ND	5.0	05/02/24 21:49	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	05/02/24 21:49	
1,1,2-Trichloroethane	ug/kg	ND	5.0	05/02/24 21:49	
1,1-Dichloroethane	ug/kg	ND	5.0	05/02/24 21:49	
1,1-Dichloroethene	ug/kg	ND	5.0	05/02/24 21:49	
1,1-Dichloropropene	ug/kg	ND	5.0	05/02/24 21:49	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	05/02/24 21:49	
1,2,3-Trichloropropane	ug/kg	ND	5.0	05/02/24 21:49	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	05/02/24 21:49	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	05/02/24 21:49	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	05/02/24 21:49	
1,2-Dichlorobenzene	ug/kg	ND	5.0	05/02/24 21:49	
1,2-Dichloroethane	ug/kg	ND	5.0	05/02/24 21:49	
1,2-Dichloropropane	ug/kg	ND	5.0	05/02/24 21:49	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	05/02/24 21:49	
1,3-Dichlorobenzene	ug/kg	ND	5.0	05/02/24 21:49	
1,3-Dichloropropane	ug/kg	ND	5.0	05/02/24 21:49	
1,4-Dichlorobenzene	ug/kg	ND	5.0	05/02/24 21:49	
2,2-Dichloropropane	ug/kg	ND	5.0	05/02/24 21:49	
2-Butanone (MEK)	ug/kg	ND	25.0	05/02/24 21:49	
2-Chlorotoluene	ug/kg	ND	5.0	05/02/24 21:49	
2-Hexanone	ug/kg	ND	100	05/02/24 21:49	
4-Chlorotoluene	ug/kg	ND	5.0	05/02/24 21:49	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	05/02/24 21:49	
Acetone	ug/kg	ND	100	05/02/24 21:49	
Acrolein	ug/kg	ND	100	05/02/24 21:49	
Acrylonitrile	ug/kg	ND	100	05/02/24 21:49	
Benzene	ug/kg	ND	5.0	05/02/24 21:49	
Bromobenzene	ug/kg	ND	5.0	05/02/24 21:49	
Bromochloromethane	ug/kg	ND	5.0	05/02/24 21:49	
Bromodichloromethane	ug/kg	ND	5.0	05/02/24 21:49	
Bromoform	ug/kg	ND	5.0	05/02/24 21:49	
Bromomethane	ug/kg	ND	5.0	05/02/24 21:49	
Carbon disulfide	ug/kg	ND	10.0	05/02/24 21:49	
Carbon tetrachloride	ug/kg	ND	5.0	05/02/24 21:49	
Chlorobenzene	ug/kg	ND	5.0	05/02/24 21:49	
Chloroethane	ug/kg	ND	5.0	05/02/24 21:49	
Chloroform	ug/kg	ND	5.0	05/02/24 21:49	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

METHOD BLANK: 3604011 Matrix: Solid

Associated Lab Samples: 50371662004, 50371662005, 50371662006, 50371662007, 50371662008, 50371662009, 50371662010, 50371662011, 50371662012, 50371662013, 50371662014, 50371662015, 50371662016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/kg	ND	5.0	05/02/24 21:49	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	05/02/24 21:49	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	05/02/24 21:49	
Dibromochloromethane	ug/kg	ND	5.0	05/02/24 21:49	
Dibromomethane	ug/kg	ND	5.0	05/02/24 21:49	
Dichlorodifluoromethane	ug/kg	ND	5.0	05/02/24 21:49	
Ethyl methacrylate	ug/kg	ND	100	05/02/24 21:49	
Ethylbenzene	ug/kg	ND	5.0	05/02/24 21:49	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	05/02/24 21:49	
Iodomethane	ug/kg	ND	100	05/02/24 21:49	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	05/02/24 21:49	
Methyl-tert-butyl ether	ug/kg	ND	5.0	05/02/24 21:49	
Methylene Chloride	ug/kg	ND	20.0	05/02/24 21:49	
n-Butylbenzene	ug/kg	ND	5.0	05/02/24 21:49	
n-Hexane	ug/kg	ND	5.0	05/02/24 21:49	
n-Propylbenzene	ug/kg	ND	5.0	05/02/24 21:49	
Naphthalene	ug/kg	ND	5.0	05/02/24 21:49	
p-Isopropyltoluene	ug/kg	ND	5.0	05/02/24 21:49	
sec-Butylbenzene	ug/kg	ND	5.0	05/02/24 21:49	
Styrene	ug/kg	ND	5.0	05/02/24 21:49	
tert-Butylbenzene	ug/kg	ND	5.0	05/02/24 21:49	
Tetrachloroethene	ug/kg	ND	5.0	05/02/24 21:49	
Toluene	ug/kg	ND	5.0	05/02/24 21:49	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	05/02/24 21:49	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	05/02/24 21:49	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	05/02/24 21:49	
Trichloroethene	ug/kg	ND	5.0	05/02/24 21:49	
Trichlorofluoromethane	ug/kg	ND	5.0	05/02/24 21:49	
Vinyl acetate	ug/kg	ND	100	05/02/24 21:49	
Vinyl chloride	ug/kg	ND	5.0	05/02/24 21:49	
Xylene (Total)	ug/kg	ND	10.0	05/02/24 21:49	
4-Bromofluorobenzene (S)	%.	103	63-132	05/02/24 21:49	
Dibromofluoromethane (S)	%.	106	75-135	05/02/24 21:49	
Toluene-d8 (S)	%.	97	65-148	05/02/24 21:49	

LABORATORY CONTROL SAMPLE: 3604012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	44.7	89	67-134	
1,1,2,2-Tetrachloroethane	ug/kg	50	52.6	105	67-122	
1,1-Dichloroethene	ug/kg	50	46.7	93	57-140	
1,2,4-Trimethylbenzene	ug/kg	50	46.6	93	60-122	
1,2-Dibromoethane (EDB)	ug/kg	50	56.4	113	71-126	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

LABORATORY CONTROL SAMPLE: 3604012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/kg	50	49.3	99	67-129	
1,2-Dichloropropane	ug/kg	50	49.4	99	71-123	
Benzene	ug/kg	50	47.3	95	69-125	
Chlorobenzene	ug/kg	50	47.4	95	68-122	
Chloroform	ug/kg	50	47.9	96	71-124	
cis-1,2-Dichloroethene	ug/kg	50	47.9	96	70-123	
Ethylbenzene	ug/kg	50	46.2	92	65-124	
Isopropylbenzene (Cumene)	ug/kg	50	43.8	88	65-126	
Methyl-tert-butyl ether	ug/kg	50	58.7	117	69-128	
n-Hexane	ug/kg	50	42.4	85	55-123	
Naphthalene	ug/kg	50	46.7	93	60-133	
Tetrachloroethene	ug/kg	50	43.7	87	62-128	
Toluene	ug/kg	50	45.4	91	60-122	
trans-1,2-Dichloroethene	ug/kg	50	44.9	90	67-124	
Trichloroethene	ug/kg	50	43.8	88	68-128	
Vinyl chloride	ug/kg	50	45.9	92	52-142	
Xylene (Total)	ug/kg	100	92.3	92	62-122	
4-Bromofluorobenzene (S)	%.			103	63-132	
Dibromofluoromethane (S)	%.			100	75-135	
Toluene-d8 (S)	%.			98	65-148	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3604013 3604014

Parameter	Units	50371662007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	ND	55.6	66.7	61.9	66.1	111	99	52-148	7	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	55.6	66.7	57.8	58.6	104	88	24-166	1	20	
1,1-Dichloroethene	ug/kg	ND	55.6	66.7	63.5	69.2	114	104	39-162	9	20	
1,2,4-Trimethylbenzene	ug/kg	ND	55.6	66.7	35.0	35.4	63	53	12-157	1	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	55.6	66.7	55.7	64.6	100	97	36-141	15	20	
1,2-Dichloroethane	ug/kg	ND	55.6	66.7	58.5	65.1	105	98	48-138	11	20	
1,2-Dichloropropane	ug/kg	ND	55.6	66.7	54.7	61.7	99	93	45-140	12	20	
Benzene	ug/kg	ND	55.6	66.7	54.2	60.1	98	90	48-137	10	20	
Chlorobenzene	ug/kg	ND	55.6	66.7	39.0	44.7	70	67	28-136	14	20	
Chloroform	ug/kg	ND	55.6	66.7	58.7	64.4	106	97	54-136	9	20	
cis-1,2-Dichloroethene	ug/kg	ND	55.6	66.7	53.9	61.1	97	92	52-132	12	20	
Ethylbenzene	ug/kg	ND	55.6	66.7	39.5	42.5	71	63	24-150	7	20	
Isopropylbenzene (Cumene)	ug/kg	ND	55.6	66.7	34.4	36.6	62	55	30-144	6	20	
Methyl-tert-butyl ether	ug/kg	ND	55.6	66.7	72.9	80.4	131	121	57-141	10	20	
n-Hexane	ug/kg	ND	55.6	66.7	57.4	60.2	103	90	22-150	5	20	
Naphthalene	ug/kg	ND	55.6	66.7	23.1	30.8	42	46	10-132	28	20	R1
Tetrachloroethene	ug/kg	ND	55.6	66.7	43.2	44.9	78	67	26-159	4	20	
Toluene	ug/kg	ND	55.6	66.7	47.5	51.6	83	75	28-150	8	20	
trans-1,2-Dichloroethene	ug/kg	ND	55.6	66.7	52.3	58.9	94	88	50-134	12	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3604013 3604014

Parameter	Units	50371662007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichloroethene	ug/kg	ND	55.6	66.7	47.2	52.9	85	79	33-155	11	20	
Vinyl chloride	ug/kg	ND	55.6	66.7	65.3	72.4	117	109	37-161	10	20	
Xylene (Total)	ug/kg	ND	111	133	77.3	84.7	70	64	25-142	9	20	
4-Bromofluorobenzene (S)	%.						96	100	63-132			
Dibromofluoromethane (S)	%.						105	107	75-135			
Toluene-d8 (S)	%.						104	100	65-148			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

QC Batch: 787678
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 Soil PAH by SIM
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50371662001, 50371662002, 50371662003, 50371662004, 50371662005, 50371662006, 50371662007, 50371662008, 50371662009, 50371662010, 50371662011, 50371662012, 50371662013

METHOD BLANK: 3603076 Matrix: Solid
Associated Lab Samples: 50371662001, 50371662002, 50371662003, 50371662004, 50371662005, 50371662006, 50371662007, 50371662008, 50371662009, 50371662010, 50371662011, 50371662012, 50371662013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	05/03/24 12:16	
2-Methylnaphthalene	ug/kg	ND	5.0	05/03/24 12:16	
Acenaphthene	ug/kg	ND	5.0	05/03/24 12:16	
Acenaphthylene	ug/kg	ND	5.0	05/03/24 12:16	
Anthracene	ug/kg	ND	5.0	05/03/24 12:16	
Benzo(a)anthracene	ug/kg	ND	5.0	05/03/24 12:16	
Benzo(a)pyrene	ug/kg	ND	5.0	05/03/24 12:16	
Benzo(b)fluoranthene	ug/kg	ND	5.0	05/03/24 12:16	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	05/03/24 12:16	
Benzo(k)fluoranthene	ug/kg	ND	5.0	05/03/24 12:16	
Chrysene	ug/kg	ND	5.0	05/03/24 12:16	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	05/03/24 12:16	
Fluoranthene	ug/kg	ND	5.0	05/03/24 12:16	
Fluorene	ug/kg	ND	5.0	05/03/24 12:16	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	05/03/24 12:16	
Naphthalene	ug/kg	ND	5.0	05/03/24 12:16	
Phenanthrene	ug/kg	ND	5.0	05/03/24 12:16	
Pyrene	ug/kg	ND	5.0	05/03/24 12:16	
2-Fluorobiphenyl (S)	%.	66	16-93	05/03/24 12:16	
p-Terphenyl-d14 (S)	%.	86	19-115	05/03/24 12:16	

LABORATORY CONTROL SAMPLE: 3603077

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	667	506	76	49-116	
2-Methylnaphthalene	ug/kg	667	481	72	48-116	
Acenaphthene	ug/kg	667	457	69	48-118	
Acenaphthylene	ug/kg	667	506	76	50-123	
Anthracene	ug/kg	667	439	66	45-123	
Benzo(a)anthracene	ug/kg	667	491	74	52-131	
Benzo(a)pyrene	ug/kg	667	518	78	56-135	
Benzo(b)fluoranthene	ug/kg	667	503	75	52-139	
Benzo(g,h,i)perylene	ug/kg	667	442	66	49-132	
Benzo(k)fluoranthene	ug/kg	667	500	75	55-134	
Chrysene	ug/kg	667	459	69	52-127	
Dibenz(a,h)anthracene	ug/kg	667	482	72	51-137	
Fluoranthene	ug/kg	667	484	73	53-136	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

LABORATORY CONTROL SAMPLE: 3603077

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/kg	667	483	72	52-124	
Indeno(1,2,3-cd)pyrene	ug/kg	667	474	71	49-139	
Naphthalene	ug/kg	667	468	70	45-110	
Phenanthrene	ug/kg	667	474	71	52-124	
Pyrene	ug/kg	667	526	79	53-129	
2-Fluorobiphenyl (S)	%.			64	16-93	
p-Terphenyl-d14 (S)	%.			79	19-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3603078 3603079

Parameter	Units	50371662007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	43.9	700	723	559	583	74	75	20-133	4	20	
2-Methylnaphthalene	ug/kg	59.0	700	723	554	579	71	72	16-136	4	20	
Acenaphthene	ug/kg	ND	700	723	463	498	66	69	30-119	7	20	
Acenaphthylene	ug/kg	ND	700	723	515	551	74	76	34-117	7	20	
Anthracene	ug/kg	ND	700	723	438	495	63	69	16-129	12	20	
Benzo(a)anthracene	ug/kg	15.5	700	723	489	572	68	77	20-136	16	20	
Benzo(a)pyrene	ug/kg	16.4	700	723	527	620	73	84	20-142	16	20	
Benzo(b)fluoranthene	ug/kg	21.7	700	723	499	585	68	78	17-141	16	20	
Benzo(g,h,i)perylene	ug/kg	10.7	700	723	421	495	59	67	14-130	16	20	
Benzo(k)fluoranthene	ug/kg	7.6	700	723	516	613	73	84	19-142	17	20	
Chrysene	ug/kg	17.4	700	723	472	556	65	74	22-131	16	20	
Dibenz(a,h)anthracene	ug/kg	ND	700	723	450	525	64	73	27-124	15	20	
Fluoranthene	ug/kg	25.3	700	723	519	624	71	83	12-155	18	20	
Fluorene	ug/kg	ND	700	723	487	534	70	74	25-135	9	20	
Indeno(1,2,3-cd)pyrene	ug/kg	8.5	700	723	453	522	64	71	18-133	14	20	
Naphthalene	ug/kg	40.9	700	723	514	525	68	67	11-130	2	20	
Phenanthrene	ug/kg	30.4	700	723	526	607	71	80	11-147	14	20	
Pyrene	ug/kg	25.0	700	723	560	664	76	88	11-154	17	20	
2-Fluorobiphenyl (S)	%.						63	62	16-93			
p-Terphenyl-d14 (S)	%.						75	76	19-115			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

QC Batch: 787704
QC Batch Method: EPA 3546
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 Soil PAH by SIM
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50371662014, 50371662015

METHOD BLANK: 3603196 Matrix: Solid
Associated Lab Samples: 50371662014, 50371662015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	05/02/24 23:42	
2-Methylnaphthalene	ug/kg	ND	5.0	05/02/24 23:42	
Acenaphthene	ug/kg	ND	5.0	05/02/24 23:42	
Acenaphthylene	ug/kg	ND	5.0	05/02/24 23:42	
Anthracene	ug/kg	ND	5.0	05/02/24 23:42	
Benzo(a)anthracene	ug/kg	ND	5.0	05/02/24 23:42	
Benzo(a)pyrene	ug/kg	ND	5.0	05/02/24 23:42	
Benzo(b)fluoranthene	ug/kg	ND	5.0	05/02/24 23:42	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	05/02/24 23:42	
Benzo(k)fluoranthene	ug/kg	ND	5.0	05/02/24 23:42	
Chrysene	ug/kg	ND	5.0	05/02/24 23:42	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	05/02/24 23:42	
Fluoranthene	ug/kg	ND	5.0	05/02/24 23:42	
Fluorene	ug/kg	ND	5.0	05/02/24 23:42	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	05/02/24 23:42	
Naphthalene	ug/kg	ND	5.0	05/02/24 23:42	
Phenanthrene	ug/kg	ND	5.0	05/02/24 23:42	
Pyrene	ug/kg	ND	5.0	05/02/24 23:42	
2-Fluorobiphenyl (S)	%.	75	16-93	05/02/24 23:42	
p-Terphenyl-d14 (S)	%.	95	19-115	05/02/24 23:42	

LABORATORY CONTROL SAMPLE: 3603197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	667	554	83	49-116	
2-Methylnaphthalene	ug/kg	667	530	79	48-116	
Acenaphthene	ug/kg	667	508	76	48-118	
Acenaphthylene	ug/kg	667	564	85	50-123	
Anthracene	ug/kg	667	493	74	45-123	
Benzo(a)anthracene	ug/kg	667	574	86	52-131	
Benzo(a)pyrene	ug/kg	667	625	94	56-135	
Benzo(b)fluoranthene	ug/kg	667	605	91	52-139	
Benzo(g,h,i)perylene	ug/kg	667	538	81	49-132	
Benzo(k)fluoranthene	ug/kg	667	593	89	55-134	
Chrysene	ug/kg	667	536	80	52-127	
Dibenz(a,h)anthracene	ug/kg	667	580	87	51-137	
Fluoranthene	ug/kg	667	566	85	53-136	
Fluorene	ug/kg	667	546	82	52-124	
Indeno(1,2,3-cd)pyrene	ug/kg	667	570	86	49-139	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

LABORATORY CONTROL SAMPLE: 3603197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	667	513	77	45-110	
Phenanthrene	ug/kg	667	540	81	52-124	
Pyrene	ug/kg	667	619	93	53-129	
2-Fluorobiphenyl (S)	%.			75	16-93	
p-Terphenyl-d14 (S)	%.			100	19-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3603198 3603199

Parameter	Units	50371722001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	ND	760	745	573	592	75	79	20-133	3	20	
2-Methylnaphthalene	ug/kg	ND	760	745	552	563	73	76	16-136	2	20	
Acenaphthene	ug/kg	ND	760	745	517	543	68	73	30-119	5	20	
Acenaphthylene	ug/kg	ND	760	745	576	605	76	81	34-117	5	20	
Anthracene	ug/kg	ND	760	745	465	503	61	67	16-129	8	20	
Benzo(a)anthracene	ug/kg	ND	760	745	506	555	67	75	20-136	9	20	
Benzo(a)pyrene	ug/kg	ND	760	745	539	589	71	79	20-142	9	20	
Benzo(b)fluoranthene	ug/kg	ND	760	745	521	575	69	77	17-141	10	20	
Benzo(g,h,i)perylene	ug/kg	ND	760	745	453	504	60	68	14-130	11	20	
Benzo(k)fluoranthene	ug/kg	ND	760	745	502	555	66	74	19-142	10	20	
Chrysene	ug/kg	ND	760	745	486	533	64	71	22-131	9	20	
Dibenz(a,h)anthracene	ug/kg	ND	760	745	504	553	66	74	27-124	9	20	
Fluoranthene	ug/kg	ND	760	745	519	569	68	76	12-155	9	20	
Fluorene	ug/kg	ND	760	745	548	578	72	78	25-135	5	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	760	745	478	530	63	71	18-133	10	20	
Naphthalene	ug/kg	ND	760	745	533	548	70	73	11-130	3	20	
Phenanthrene	ug/kg	ND	760	745	519	562	68	75	11-147	8	20	
Pyrene	ug/kg	ND	760	745	558	600	73	80	11-154	7	20	
2-Fluorobiphenyl (S)	%.						66	67	16-93			
p-Terphenyl-d14 (S)	%.						76	77	19-115			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

QC Batch:	788953	Analysis Method:	SM 2540G
QC Batch Method:	SM 2540G	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50371662001, 50371662002, 50371662003, 50371662004, 50371662005, 50371662006, 50371662007, 50371662008, 50371662009, 50371662010, 50371662011, 50371662012, 50371662013, 50371662014, 50371662015

SAMPLE DUPLICATE: 3609265

Parameter	Units	50371662007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.0	9.2	2	10	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Neither matrix spike nor matrix precision data could be provided for this analytical batch due to insufficient sample volume.
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50371662001	**SB1 (0-2)**	EPA 3050	787735	EPA 6010	789238
50371662002	**SB1 (11-13)**	EPA 3050	787735	EPA 6010	789238
50371662003	**SB2 (0-2)**	EPA 3050	787735	EPA 6010	789238
50371662004	**SB2 (13-15)**	EPA 3050	787735	EPA 6010	789238
50371662005	**SB3 (8.5-10.5)**	EPA 3050	787735	EPA 6010	789238
50371662006	**SB3 (0-2)**	EPA 3050	787735	EPA 6010	789238
50371662007	**SB4 (0-2)**	EPA 3050	787735	EPA 6010	789238
50371662008	**SB4 (13-15)**	EPA 3050	787735	EPA 6010	789238
50371662009	**SB5 (0-2)**	EPA 3050	787735	EPA 6010	789238
50371662010	**SB5 (9-11)**	EPA 3050	787735	EPA 6010	789238
50371662011	**SB6 (0-2)**	EPA 3050	787735	EPA 6010	789238
50371662012	**SB6 (7-9)**	EPA 3050	787735	EPA 6010	789238
50371662013	**SB7 (0-2)**	EPA 3050	787735	EPA 6010	789238
50371662014	**SB7 (7-9)**	EPA 3050	787735	EPA 6010	789238
50371662015	**S-DUP1**	EPA 3050	787735	EPA 6010	789238
50371662001	**SB1 (0-2)**	EPA 7471	788543	EPA 7471	789062
50371662002	**SB1 (11-13)**	EPA 7471	788543	EPA 7471	789062
50371662003	**SB2 (0-2)**	EPA 7471	788543	EPA 7471	789062
50371662004	**SB2 (13-15)**	EPA 7471	788543	EPA 7471	789062
50371662005	**SB3 (8.5-10.5)**	EPA 7471	788543	EPA 7471	789062
50371662006	**SB3 (0-2)**	EPA 7471	788543	EPA 7471	789062
50371662007	**SB4 (0-2)**	EPA 7471	788543	EPA 7471	789062
50371662008	**SB4 (13-15)**	EPA 7471	788543	EPA 7471	789062
50371662009	**SB5 (0-2)**	EPA 7471	788543	EPA 7471	789062
50371662010	**SB5 (9-11)**	EPA 7471	788543	EPA 7471	789062
50371662011	**SB6 (0-2)**	EPA 7471	788543	EPA 7471	789062
50371662012	**SB6 (7-9)**	EPA 7471	788543	EPA 7471	789062
50371662013	**SB7 (0-2)**	EPA 7471	788543	EPA 7471	789062
50371662014	**SB7 (7-9)**	EPA 7471	788543	EPA 7471	789062
50371662015	**S-DUP1**	EPA 7471	788543	EPA 7471	789062
50371662001	**SB1 (0-2)**	EPA 3546	787678	EPA 8270 by SIM	788128
50371662002	**SB1 (11-13)**	EPA 3546	787678	EPA 8270 by SIM	788128
50371662003	**SB2 (0-2)**	EPA 3546	787678	EPA 8270 by SIM	788128
50371662004	**SB2 (13-15)**	EPA 3546	787678	EPA 8270 by SIM	788128
50371662005	**SB3 (8.5-10.5)**	EPA 3546	787678	EPA 8270 by SIM	788128
50371662006	**SB3 (0-2)**	EPA 3546	787678	EPA 8270 by SIM	788128
50371662007	**SB4 (0-2)**	EPA 3546	787678	EPA 8270 by SIM	788128
50371662008	**SB4 (13-15)**	EPA 3546	787678	EPA 8270 by SIM	788128
50371662009	**SB5 (0-2)**	EPA 3546	787678	EPA 8270 by SIM	788128
50371662010	**SB5 (9-11)**	EPA 3546	787678	EPA 8270 by SIM	788128
50371662011	**SB6 (0-2)**	EPA 3546	787678	EPA 8270 by SIM	788128
50371662012	**SB6 (7-9)**	EPA 3546	787678	EPA 8270 by SIM	788128
50371662013	**SB7 (0-2)**	EPA 3546	787678	EPA 8270 by SIM	788128
50371662014	**SB7 (7-9)**	EPA 3546	787704	EPA 8270 by SIM	788126
50371662015	**S-DUP1**	EPA 3546	787704	EPA 8270 by SIM	788126
50371662001	**SB1 (0-2)**	EPA 8260	787856		
50371662002	**SB1 (11-13)**	EPA 8260	787856		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1400 Block of S Hoyt
Pace Project No.: 50371662

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50371662003	**SB2 (0-2)**	EPA 8260	787856		
50371662004	**SB2 (13-15)**	EPA 8260	787857		
50371662005	**SB3 (8.5-10.5)**	EPA 8260	787857		
50371662006	**SB3 (0-2)**	EPA 8260	787857		
50371662007	**SB4 (0-2)**	EPA 8260	787857		
50371662008	**SB4 (13-15)**	EPA 8260	787857		
50371662009	**SB5 (0-2)**	EPA 8260	787857		
50371662010	**SB5 (9-11)**	EPA 8260	787857		
50371662011	**SB6 (0-2)**	EPA 8260	787857		
50371662012	**SB6 (7-9)**	EPA 8260	787857		
50371662013	**SB7 (0-2)**	EPA 8260	787857		
50371662014	**SB7 (7-9)**	EPA 8260	787857		
50371662015	**S-DUP1**	EPA 8260	787857		
50371662016	**Trip Blank**	EPA 8260	787857		
50371662001	**SB1 (0-2)**	SM 2540G	788953		
50371662002	**SB1 (11-13)**	SM 2540G	788953		
50371662003	**SB2 (0-2)**	SM 2540G	788953		
50371662004	**SB2 (13-15)**	SM 2540G	788953		
50371662005	**SB3 (8.5-10.5)**	SM 2540G	788953		
50371662006	**SB3 (0-2)**	SM 2540G	788953		
50371662007	**SB4 (0-2)**	SM 2540G	788953		
50371662008	**SB4 (13-15)**	SM 2540G	788953		
50371662009	**SB5 (0-2)**	SM 2540G	788953		
50371662010	**SB5 (9-11)**	SM 2540G	788953		
50371662011	**SB6 (0-2)**	SM 2540G	788953		
50371662012	**SB6 (7-9)**	SM 2540G	788953		
50371662013	**SB7 (0-2)**	SM 2540G	788953		
50371662014	**SB7 (7-9)**	SM 2540G	788953		
50371662015	**S-DUP1**	SM 2540G	788953		

Docusign Envelope ID: 8736B9F2-08F1-4966-B8AD-EAFEC4C33200

Pace® Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

WO# : 50371662

50371662

Company Name:	Soil and Materials Engineers, Inc.
Street Address:	11800 Exit 5 Parkway, Fishers, IN 46037
Customer Project #:	089758.00.03B.005
Project Name:	1400 Block of S Hoyt
Site Collection Info/Facility ID (as applicable):	
Contact/Report To:	Cline, Mitch
Phone #:	317-876-0200
E-Mail:	mitch.cline@sme-usa.com
Cc E-Mail:	rob.walker@sme-usa.com
Invoice To:	
Invoice E-Mail:	
Purchase Order # (if applicable):	
Quote #:	
County / State origin of sample(s):	Indiana

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

Data Deliverables: [ ] Level II [ ] Level III [X] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested: Standard

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

Specify Container Size **: 8 | 10 | 10

Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

Identify Container Preservative Type***: 10 | 1 | 1

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: **Olivia Deck**; AcctNum / Client ID: ; Table #: ; Profile / Template: **10807-8**; Prelog / Bottle Ord. ID: **1174502**

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	VOC 8260	PAH 8270	RCRA 8 6010/7470	Lab Filtered RCRA 8 6010/7470	Sample Comment
SB1 (0-2)	SS	G	4/26/24	0930						X	X	X		001
SB1 (11-13)	↓	↓	↓	0940						↓	↓	↓		002
SB2 (0-2)	↓	↓	↓	1010						↓	↓	↓		003
SB2 (13-15)	↓	↓	↓	1015						↓	↓	↓		004
SB3 (8.5-10.5)	↓	↓	↓	1040						↓	↓	↓		005
SB3 (0-2)	↓	↓	↓	1030						↓	↓	↓		006
SB4 (0-2)	↓	↓	↓	1100						↓	↓	↓		007
☆ → MS/MSD-1	↓	↓	↓	1100						↓	↓	↓		008
SB4 (13-15)	↓	↓	↓	1110						↓	↓	↓		009
SB5 (0-2)	↓	↓	↓	1130						↓	↓	↓		010

Additional Instructions from Pace®:
* Terracore vials must be frozen in lab within 48hrs of collection.

Collected By: (Printed Name) Amanda McCarty
Signature: [signature]

Customer Remarks / Special Conditions / Possible Hazards: ☆ Level 4 QA/QC ☆ SB4(0-2) = MS/MSD-1 ☆

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	B	+0.1	2.1	2.2	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / SME	4/26/24 1507	[signature] / PACE	4-26-24 1507

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 1 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Pace® Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Soil and Materials Engineers, Inc.	Contact/Report To:	Cline, Mitch
Street Address:	11800 Exit 5 Parkway, Fishers, IN 46037	Phone #:	317-876-0200
		E-Mail:	mitch.cline@sme-usa.com
		Cc E-Mail:	rob.walker@sme-usa.com
Customer Project #:	089758.00.03B.005	Invoice To:	
Project Name:	1400 Block of S Hoyt	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Indiana

Data Deliverables: [ ] Level II [ ] Level III [X] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested: Standard

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: B | 10 | 10

Identify Container Preservative Type***: 10 | 1 | 1

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	VOC 8260	PAH 8270	RCRA 8 6010/7470	Lab Filtered RCRA 8 6010/7470	Sample Comment
SB5 (9-11)	SS	G	4/26/24	1140						X	X	X		011
SB6 (0-2)				1215										012
SB6 (7-9)				1220										013
SB7 (0-2)				1300										014
SB7 (7-9)				1310										015
S-DUP1				—										016
TRIP BLANK	OT													017

****Container Size:** (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

***** Preservative Types:** (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: **Olivia Deck**

AcctNum / Client ID:

Table #:

Profile / Template: **10807-8**

Prelog / Bottle Ord. ID: **1174502**

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
*** Terracore vials must be frozen in lab within 48hrs of collection.**

Collected By:
(Printed Name) Amanda McLarty
Signature:

Customer Remarks / Special Conditions / Possible Hazards:
★ level 4 QA/QC ★

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	B	+0.1	2.1	2.2	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
SME	4/26/24 1507	PACE	4-26-24 1507
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 2 of 2

F-IN-Q-290-rev.25, 25Apr2024

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 04.26.2024 1520

1. **Courier:** FED EX UPS X CLIENT PACE NOW/JETT OTHER _____
2. **Custody Seal on Cooler/Box Present:** Yes X No
   (If yes)Seals Intact: Yes No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C D E F G H
4. **Cooler Temperature(s):** 2.1 | 2.2 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
5. **Packing Material:** Bubble Wrap X Bubble Bags None Other _____
6. **Ice Type:** X Wet Blue None
7. **Was the PM notified of out of temp cooler?:** Yes No
   Cooler temp should be above freezing to 6°C
8. **EZ Bottle Order?** Yes X No
   EZ Bottle Order Number:

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.**			
Short Hold Time Analysis (48 hours or less)? **Analysis:** DITC	X	NMS X 4.26.24	**Circle:** **HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			X
Time 5035A TC placed in Freezer or Short Holds To Lab DITC	Time: 1535			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
Rush TAT Requested (4 days or less):		X	Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Custody Signatures Present?	X		Headspace Wisconsin Sulfide?			X
Containers Intact?:	X		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent X
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X		Trip Blank Present?	Y		
Extra labels on Terracore Vials? (soils only)		X	Trip Blank Custody Seals?:	Y		

COMMENTS:

COC PAGE 1 of 2

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix
1	1		4																									SL
2	1		1																									〃
3																												〃
4																												〃
5																												〃
6	1		1																									〃
7	2		8																									1
8																												
9	1		4																									SL
10	1		1																									SL
11																												
12																												

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
Red	Yellow	Green	Black
HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
BP3R	250mL Unpres. FF SO4/OH buffer
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

COC PAGE 2 of 2

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix
1	1		4																									SL
2	↓		↓																									↓
3																												
4																												
5																												
6	↓		↓																									
7			3																									↓
8																												
9																												
10																												
11																												
12																												

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
Red	Yellow	Green	Black
HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

May 08, 2024

Mitch Cline
Soil and Materials Engineers, Inc.
11800 Exit 5 Parkway
Suite 106
Fishers, IN 46037

RE: Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Dear Mitch Cline:

Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Olivia Deck
olivia.deck@pacelabs.com
(317)228-3102
Project Manager

Enclosures

cc: SME EDD, SME
Amanda McCarty, Soil and Materials Engineers, Inc.

Pace Analytical Services, LLC
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(317)228-3100

CERTIFICATIONS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Ohio VAP Certified Laboratory #: CL0065
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50371887001	**SB1-GW**	Water	04/29/24 11:45	04/30/24 15:20
50371887002	**SB2-GW**	Water	04/29/24 12:50	04/30/24 15:20
50371887003	**SB3-GW**	Water	04/29/24 13:40	04/30/24 15:20
50371887004	**SB4-GW**	Water	04/29/24 14:50	04/30/24 15:20
50371887005	**SB5-GW**	Water	04/29/24 15:50	04/30/24 15:20
50371887006	**SB6-GW**	Water	04/29/24 16:50	04/30/24 15:20
50371887007	**SB7-GW**	Water	04/29/24 15:45	04/30/24 15:20
50371887008	**GW-DUP1**	Water	04/29/24 08:00	04/30/24 15:20
50371887009	**Trip Blank**	Water	04/29/24 08:00	04/30/24 15:20

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SAMPLE ANALYTE COUNT

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50371887001	**SB1-GW**	EPA 6010	JPK	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 8260	TAY	73	PASI-I
50371887002	**SB2-GW**	EPA 6010	JPK	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 8260	TAY	73	PASI-I
50371887003	**SB3-GW**	EPA 6010	JPK	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 8260	TAY	73	PASI-I
50371887004	**SB4-GW**	EPA 6010	JPK	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 8260	TAY	73	PASI-I
50371887005	**SB5-GW**	EPA 6010	JPK	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 8260	TAY	73	PASI-I
50371887006	**SB6-GW**	EPA 6010	JPK	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 8260	TAY	73	PASI-I
50371887007	**SB7-GW**	EPA 6010	JPK	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 8260	TAY	73	PASI-I
50371887008	**GW-DUP1**	EPA 6010	JPK	7	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 8270 by SIM 40E	GRM	20	PASI-I
		EPA 8260	TAY	73	PASI-I
50371887009	**Trip Blank**	EPA 8260	TAY	73	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50371887001	**SB1-GW**					
EPA 6010	Barium	126	ug/L	10.0	05/04/24 00:44	
50371887002	**SB2-GW**					
EPA 6010	Barium	136	ug/L	10.0	05/04/24 00:50	
50371887003	**SB3-GW**					
EPA 6010	Barium	46.4	ug/L	10.0	05/04/24 00:52	
50371887004	**SB4-GW**					
EPA 6010	Barium	277	ug/L	10.0	05/04/24 01:01	
50371887005	**SB5-GW**					
EPA 6010	Barium	190	ug/L	10.0	05/04/24 01:03	
EPA 8270 by SIM 40E	1-Methylnaphthalene	20.4	ug/L	0.99	05/01/24 20:17	
EPA 8270 by SIM 40E	2-Methylnaphthalene	34.5	ug/L	0.99	05/01/24 20:17	
EPA 8270 by SIM 40E	Naphthalene	181	ug/L	0.99	05/01/24 20:17	
EPA 8260	Benzene	5.7	ug/L	5.0	05/03/24 02:45	
EPA 8260	n-Butylbenzene	10.2	ug/L	5.0	05/03/24 02:45	
EPA 8260	sec-Butylbenzene	5.9	ug/L	5.0	05/03/24 02:45	
EPA 8260	Ethylbenzene	233	ug/L	5.0	05/03/24 02:45	
EPA 8260	n-Hexane	159	ug/L	5.0	05/03/24 02:45	
EPA 8260	Isopropylbenzene (Cumene)	77.1	ug/L	5.0	05/03/24 02:45	
EPA 8260	p-Isopropyltoluene	7.0	ug/L	5.0	05/03/24 02:45	
EPA 8260	Naphthalene	182	ug/L	5.0	05/03/24 02:45	
EPA 8260	Toluene	15.1	ug/L	5.0	05/03/24 02:45	
EPA 8260	1,2,4-Trimethylbenzene	10.8	ug/L	5.0	05/03/24 02:45	
EPA 8260	1,3,5-Trimethylbenzene	10.3	ug/L	5.0	05/03/24 02:45	
EPA 8260	Xylene (Total)	98.6	ug/L	10.0	05/03/24 02:45	
50371887006	**SB6-GW**					
EPA 6010	Barium	305	ug/L	50.0	05/04/24 01:04	
EPA 6010	Chromium	54.8	ug/L	50.0	05/04/24 01:04	
EPA 8260	n-Hexane	10.9	ug/L	5.0	05/03/24 03:09	
50371887007	**SB7-GW**					
EPA 6010	Arsenic	235	ug/L	50.0	05/04/24 01:06	
EPA 6010	Barium	791	ug/L	50.0	05/04/24 01:06	
EPA 6010	Chromium	448	ug/L	50.0	05/04/24 01:06	
EPA 6010	Lead	152	ug/L	50.0	05/04/24 01:06	
50371887008	**GW-DUP1**					
EPA 6010	Barium	188	ug/L	10.0	05/04/24 01:12	
EPA 8270 by SIM 40E	1-Methylnaphthalene	20.6	ug/L	1.0	05/01/24 20:49	
EPA 8270 by SIM 40E	2-Methylnaphthalene	34.7	ug/L	1.0	05/01/24 20:49	
EPA 8270 by SIM 40E	Naphthalene	180	ug/L	1.0	05/01/24 20:49	
EPA 8260	Benzene	5.9	ug/L	5.0	05/03/24 03:55	
EPA 8260	n-Butylbenzene	10.1	ug/L	5.0	05/03/24 03:55	
EPA 8260	sec-Butylbenzene	6.0	ug/L	5.0	05/03/24 03:55	
EPA 8260	Ethylbenzene	239	ug/L	5.0	05/03/24 03:55	
EPA 8260	n-Hexane	156	ug/L	5.0	05/03/24 03:55	

Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

SUMMARY OF DETECTION

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50371887008	**GW-DUP1**					
EPA 8260	Isopropylbenzene (Cumene)	79.7	ug/L	5.0	05/03/24 03:55	
EPA 8260	p-Isopropyltoluene	7.0	ug/L	5.0	05/03/24 03:55	
EPA 8260	Naphthalene	182	ug/L	5.0	05/03/24 03:55	
EPA 8260	Toluene	15.4	ug/L	5.0	05/03/24 03:55	
EPA 8260	1,2,4-Trimethylbenzene	10.6	ug/L	5.0	05/03/24 03:55	
EPA 8260	1,3,5-Trimethylbenzene	10.5	ug/L	5.0	05/03/24 03:55	
EPA 8260	Xylene (Total)	101	ug/L	10.0	05/03/24 03:55	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB1-GW **Lab ID: 50371887001** Collected: 04/29/24 11:45 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Arsenic	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:44	7440-38-2	
Barium	**126**	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:44	7440-39-3	
Cadmium	ND	ug/L	2.0	1	05/03/24 07:49	05/04/24 00:44	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:44	7440-47-3	
Lead	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:44	7439-92-1	
Selenium	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:44	7782-49-2	
Silver	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:44	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	05/07/24 20:03	05/08/24 09:18	7439-97-6	
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:12	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:12	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 19:12	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 19:12	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 19:12	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 19:12	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 19:12	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 19:12	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/01/24 11:00	05/01/24 19:12	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 19:12	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:12	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:12	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 19:12	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:12	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:12	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:12	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:12	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:12	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	82	%.	43-129	1	05/01/24 11:00	05/01/24 19:12	321-60-8	
p-Terphenyl-d14 (S)	105	%.	64-162	1	05/01/24 11:00	05/01/24 19:12	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		05/03/24 01:36	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/03/24 01:36	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/03/24 01:36	107-13-1	
Benzene	ND	ug/L	5.0	1		05/03/24 01:36	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/03/24 01:36	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/03/24 01:36	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/03/24 01:36	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB1-GW **Lab ID: 50371887001** Collected: 04/29/24 11:45 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/L	5.0	1		05/03/24 01:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/03/24 01:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/03/24 01:36	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/03/24 01:36	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/03/24 01:36	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/03/24 01:36	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/03/24 01:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/24 01:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/03/24 01:36	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/03/24 01:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/03/24 01:36	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/03/24 01:36	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 01:36	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 01:36	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/03/24 01:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/03/24 01:36	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/03/24 01:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 01:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 01:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 01:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/03/24 01:36	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/03/24 01:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/03/24 01:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/03/24 01:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/24 01:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 01:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 01:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 01:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/03/24 01:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 01:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/03/24 01:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 01:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 01:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/03/24 01:36	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/03/24 01:36	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/03/24 01:36	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/03/24 01:36	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/03/24 01:36	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/03/24 01:36	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/03/24 01:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/03/24 01:36	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/03/24 01:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/03/24 01:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/03/24 01:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/03/24 01:36	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/03/24 01:36	103-65-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB1-GW **Lab ID: 50371887001** Collected: 04/29/24 11:45 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Styrene	ND	ug/L	5.0	1		05/03/24 01:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 01:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 01:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/24 01:36	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/24 01:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 01:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 01:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/24 01:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/03/24 01:36	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/03/24 01:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/03/24 01:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/03/24 01:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/03/24 01:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/03/24 01:36	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/03/24 01:36	108-05-4	L1
Vinyl chloride	ND	ug/L	2.0	1		05/03/24 01:36	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/24 01:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	82-128	1		05/03/24 01:36	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	79-124	1		05/03/24 01:36	460-00-4	
Toluene-d8 (S)	102	%.	73-122	1		05/03/24 01:36	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB2-GW **Lab ID: 50371887002** Collected: 04/29/24 12:50 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Arsenic	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:50	7440-38-2	
Barium	**136**	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:50	7440-39-3	
Cadmium	ND	ug/L	2.0	1	05/03/24 07:49	05/04/24 00:50	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:50	7440-47-3	
Lead	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:50	7439-92-1	
Selenium	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:50	7782-49-2	
Silver	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:50	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	05/07/24 20:03	05/08/24 09:20	7439-97-6	
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:23	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:23	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 19:23	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 19:23	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 19:23	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 19:23	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 19:23	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 19:23	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/01/24 11:00	05/01/24 19:23	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 19:23	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:23	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:23	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 19:23	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:23	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:23	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:23	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:23	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 19:23	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	93	%.	43-129	1	05/01/24 11:00	05/01/24 19:23	321-60-8	
p-Terphenyl-d14 (S)	101	%.	64-162	1	05/01/24 11:00	05/01/24 19:23	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		05/03/24 01:59	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/03/24 01:59	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/03/24 01:59	107-13-1	
Benzene	ND	ug/L	5.0	1		05/03/24 01:59	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/03/24 01:59	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/03/24 01:59	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/03/24 01:59	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB2-GW **Lab ID: 50371887002** Collected: 04/29/24 12:50 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/L	5.0	1		05/03/24 01:59	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/03/24 01:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/03/24 01:59	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/03/24 01:59	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/03/24 01:59	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/03/24 01:59	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/03/24 01:59	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/24 01:59	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/03/24 01:59	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/03/24 01:59	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/03/24 01:59	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/03/24 01:59	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 01:59	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 01:59	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/03/24 01:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/03/24 01:59	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/03/24 01:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 01:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 01:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 01:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/03/24 01:59	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/03/24 01:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/03/24 01:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/03/24 01:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/24 01:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 01:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 01:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 01:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/03/24 01:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 01:59	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/03/24 01:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 01:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 01:59	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/03/24 01:59	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/03/24 01:59	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/03/24 01:59	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/03/24 01:59	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/03/24 01:59	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/03/24 01:59	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/03/24 01:59	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/03/24 01:59	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/03/24 01:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/03/24 01:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/03/24 01:59	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/03/24 01:59	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/03/24 01:59	103-65-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB2-GW **Lab ID: 50371887002** Collected: 04/29/24 12:50 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Styrene	ND	ug/L	5.0	1		05/03/24 01:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 01:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 01:59	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/24 01:59	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/24 01:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 01:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 01:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/24 01:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/03/24 01:59	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/03/24 01:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/03/24 01:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/03/24 01:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/03/24 01:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/03/24 01:59	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/03/24 01:59	108-05-4	L1
Vinyl chloride	ND	ug/L	2.0	1		05/03/24 01:59	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/24 01:59	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	82-128	1		05/03/24 01:59	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	79-124	1		05/03/24 01:59	460-00-4	
Toluene-d8 (S)	101	%.	73-122	1		05/03/24 01:59	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB3-GW **Lab ID: 50371887003** Collected: 04/29/24 13:40 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Arsenic	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:52	7440-38-2	
Barium	**46.4**	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:52	7440-39-3	
Cadmium	ND	ug/L	2.0	1	05/03/24 07:49	05/04/24 00:52	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:52	7440-47-3	
Lead	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:52	7439-92-1	
Selenium	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:52	7782-49-2	
Silver	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 00:52	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	05/07/24 20:03	05/08/24 09:23	7439-97-6	
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 19:34	83-32-9	
Acenaphthylene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 19:34	208-96-8	
Anthracene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 19:34	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 19:34	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 19:34	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 19:34	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 19:34	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 19:34	207-08-9	
Chrysene	ND	ug/L	0.49	1	05/01/24 11:00	05/01/24 19:34	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 19:34	53-70-3	
Fluoranthene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 19:34	206-44-0	
Fluorene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 19:34	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 19:34	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 19:34	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 19:34	91-57-6	
Naphthalene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 19:34	91-20-3	
Phenanthrene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 19:34	85-01-8	
Pyrene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 19:34	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	96	%.	43-129	1	05/01/24 11:00	05/01/24 19:34	321-60-8	
p-Terphenyl-d14 (S)	104	%.	64-162	1	05/01/24 11:00	05/01/24 19:34	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		05/03/24 06:14	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/03/24 06:14	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/03/24 06:14	107-13-1	
Benzene	ND	ug/L	5.0	1		05/03/24 06:14	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/03/24 06:14	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/03/24 06:14	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/03/24 06:14	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB3-GW **Lab ID: 50371887003** Collected: 04/29/24 13:40 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/L	5.0	1		05/03/24 06:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/03/24 06:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/03/24 06:14	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/03/24 06:14	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/03/24 06:14	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/03/24 06:14	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/03/24 06:14	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/24 06:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/03/24 06:14	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/03/24 06:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/03/24 06:14	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/03/24 06:14	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 06:14	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 06:14	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/03/24 06:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/03/24 06:14	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/03/24 06:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 06:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 06:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 06:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/03/24 06:14	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/03/24 06:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/03/24 06:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/03/24 06:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/24 06:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 06:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 06:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 06:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/03/24 06:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 06:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/03/24 06:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 06:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 06:14	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/03/24 06:14	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/03/24 06:14	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/03/24 06:14	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/03/24 06:14	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/03/24 06:14	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/03/24 06:14	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/03/24 06:14	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/03/24 06:14	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/03/24 06:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/03/24 06:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/03/24 06:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/03/24 06:14	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/03/24 06:14	103-65-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB3-GW **Lab ID: 50371887003** Collected: 04/29/24 13:40 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Styrene	ND	ug/L	5.0	1		05/03/24 06:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 06:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 06:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/24 06:14	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/24 06:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 06:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 06:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/24 06:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/03/24 06:14	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/03/24 06:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/03/24 06:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/03/24 06:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/03/24 06:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/03/24 06:14	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/03/24 06:14	108-05-4	L1
Vinyl chloride	ND	ug/L	2.0	1		05/03/24 06:14	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/24 06:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	82-128	1		05/03/24 06:14	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	79-124	1		05/03/24 06:14	460-00-4	
Toluene-d8 (S)	101	%.	73-122	1		05/03/24 06:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB4-GW **Lab ID: 50371887004** Collected: 04/29/24 14:50 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Arsenic	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:01	7440-38-2	
Barium	**277**	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:01	7440-39-3	
Cadmium	ND	ug/L	2.0	1	05/03/24 07:49	05/04/24 01:01	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:01	7440-47-3	
Lead	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:01	7439-92-1	
Selenium	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:01	7782-49-2	
Silver	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:01	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	05/07/24 20:03	05/08/24 09:30	7439-97-6	
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:06	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:06	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 20:06	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 20:06	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 20:06	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 20:06	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 20:06	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 20:06	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/01/24 11:00	05/01/24 20:06	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 20:06	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:06	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:06	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 20:06	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:06	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:06	91-57-6	
Naphthalene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:06	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:06	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:06	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	91	%.	43-129	1	05/01/24 11:00	05/01/24 20:06	321-60-8	
p-Terphenyl-d14 (S)	100	%.	64-162	1	05/01/24 11:00	05/01/24 20:06	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		05/03/24 02:22	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/03/24 02:22	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/03/24 02:22	107-13-1	
Benzene	ND	ug/L	5.0	1		05/03/24 02:22	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/03/24 02:22	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/03/24 02:22	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/03/24 02:22	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB4-GW **Lab ID: 50371887004** Collected: 04/29/24 14:50 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/L	5.0	1		05/03/24 02:22	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/03/24 02:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/03/24 02:22	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/03/24 02:22	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/03/24 02:22	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/03/24 02:22	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/03/24 02:22	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/24 02:22	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/03/24 02:22	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/03/24 02:22	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/03/24 02:22	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/03/24 02:22	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 02:22	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 02:22	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/03/24 02:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/03/24 02:22	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/03/24 02:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 02:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 02:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 02:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/03/24 02:22	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/03/24 02:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/03/24 02:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/03/24 02:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/24 02:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 02:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 02:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 02:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/03/24 02:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 02:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/03/24 02:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 02:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 02:22	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/03/24 02:22	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/03/24 02:22	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/03/24 02:22	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/03/24 02:22	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/03/24 02:22	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/03/24 02:22	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/03/24 02:22	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/03/24 02:22	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/03/24 02:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/03/24 02:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/03/24 02:22	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/03/24 02:22	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/03/24 02:22	103-65-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB4-GW **Lab ID: 50371887004** Collected: 04/29/24 14:50 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Styrene	ND	ug/L	5.0	1		05/03/24 02:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 02:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 02:22	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/24 02:22	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/24 02:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 02:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 02:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/24 02:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/03/24 02:22	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/03/24 02:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/03/24 02:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/03/24 02:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/03/24 02:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/03/24 02:22	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/03/24 02:22	108-05-4	L1
Vinyl chloride	ND	ug/L	2.0	1		05/03/24 02:22	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/24 02:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	82-128	1		05/03/24 02:22	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	79-124	1		05/03/24 02:22	460-00-4	
Toluene-d8 (S)	101	%.	73-122	1		05/03/24 02:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB5-GW **Lab ID: 50371887005** Collected: 04/29/24 15:50 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Arsenic	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:03	7440-38-2	
Barium	**190**	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:03	7440-39-3	
Cadmium	ND	ug/L	2.0	1	05/03/24 07:49	05/04/24 01:03	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:03	7440-47-3	
Lead	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:03	7439-92-1	
Selenium	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:03	7782-49-2	
Silver	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:03	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	05/07/24 20:03	05/08/24 09:33	7439-97-6	
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:17	83-32-9	
Acenaphthylene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:17	208-96-8	
Anthracene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:17	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:17	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:17	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:17	207-08-9	
Chrysene	ND	ug/L	0.49	1	05/01/24 11:00	05/01/24 20:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:17	53-70-3	
Fluoranthene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:17	206-44-0	
Fluorene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:17	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:17	193-39-5	
1-Methylnaphthalene	**20.4**	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:17	90-12-0	
2-Methylnaphthalene	**34.5**	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:17	91-57-6	
Naphthalene	**181**	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:17	91-20-3	
Phenanthrene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:17	85-01-8	
Pyrene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:17	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	96	%.	43-129	1	05/01/24 11:00	05/01/24 20:17	321-60-8	
p-Terphenyl-d14 (S)	110	%.	64-162	1	05/01/24 11:00	05/01/24 20:17	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		05/03/24 02:45	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/03/24 02:45	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/03/24 02:45	107-13-1	
Benzene	**5.7**	ug/L	5.0	1		05/03/24 02:45	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/03/24 02:45	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/03/24 02:45	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/03/24 02:45	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB5-GW **Lab ID: 50371887005** Collected: 04/29/24 15:50 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/L	5.0	1		05/03/24 02:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/03/24 02:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/03/24 02:45	78-93-3	
n-Butylbenzene	**10.2**	ug/L	5.0	1		05/03/24 02:45	104-51-8	
sec-Butylbenzene	**5.9**	ug/L	5.0	1		05/03/24 02:45	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/03/24 02:45	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/03/24 02:45	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/24 02:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/03/24 02:45	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/03/24 02:45	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/03/24 02:45	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/03/24 02:45	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 02:45	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 02:45	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/03/24 02:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/03/24 02:45	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/03/24 02:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 02:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 02:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 02:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/03/24 02:45	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/03/24 02:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/03/24 02:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/03/24 02:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/24 02:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 02:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 02:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 02:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/03/24 02:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 02:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/03/24 02:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 02:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 02:45	10061-02-6	
Ethylbenzene	**233**	ug/L	5.0	1		05/03/24 02:45	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/03/24 02:45	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/03/24 02:45	87-68-3	
n-Hexane	**159**	ug/L	5.0	1		05/03/24 02:45	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/03/24 02:45	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/03/24 02:45	74-88-4	
Isopropylbenzene (Cumene)	**77.1**	ug/L	5.0	1		05/03/24 02:45	98-82-8	
p-Isopropyltoluene	**7.0**	ug/L	5.0	1		05/03/24 02:45	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/03/24 02:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/03/24 02:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/03/24 02:45	1634-04-4	
Naphthalene	**182**	ug/L	5.0	1		05/03/24 02:45	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/03/24 02:45	103-65-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB5-GW **Lab ID: 50371887005** Collected: 04/29/24 15:50 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Styrene	ND	ug/L	5.0	1		05/03/24 02:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 02:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 02:45	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/24 02:45	127-18-4	
Toluene	**15.1**	ug/L	5.0	1		05/03/24 02:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 02:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 02:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/24 02:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/03/24 02:45	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/03/24 02:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/03/24 02:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/03/24 02:45	96-18-4	
1,2,4-Trimethylbenzene	**10.8**	ug/L	5.0	1		05/03/24 02:45	95-63-6	
1,3,5-Trimethylbenzene	**10.3**	ug/L	5.0	1		05/03/24 02:45	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/03/24 02:45	108-05-4	L1
Vinyl chloride	ND	ug/L	2.0	1		05/03/24 02:45	75-01-4	
Xylene (Total)	**98.6**	ug/L	10.0	1		05/03/24 02:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	82-128	1		05/03/24 02:45	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	79-124	1		05/03/24 02:45	460-00-4	
Toluene-d8 (S)	105	%.	73-122	1		05/03/24 02:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB6-GW **Lab ID: 50371887006** Collected: 04/29/24 16:50 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Arsenic	ND	ug/L	50.0	1	05/03/24 07:49	05/04/24 01:04	7440-38-2	
Barium	**305**	ug/L	50.0	1	05/03/24 07:49	05/04/24 01:04	7440-39-3	
Cadmium	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:04	7440-43-9	
Chromium	**54.8**	ug/L	50.0	1	05/03/24 07:49	05/04/24 01:04	7440-47-3	
Lead	ND	ug/L	50.0	1	05/03/24 07:49	05/04/24 01:04	7439-92-1	
Selenium	ND	ug/L	50.0	1	05/03/24 07:49	05/04/24 01:04	7782-49-2	
Silver	ND	ug/L	50.0	1	05/03/24 07:49	05/04/24 01:04	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	05/07/24 20:03	05/08/24 09:35	7439-97-6	
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:28	83-32-9	
Acenaphthylene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:28	208-96-8	
Anthracene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:28	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:28	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:28	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/01/24 11:00	05/01/24 20:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:28	53-70-3	
Fluoranthene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:28	206-44-0	
Fluorene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:28	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:28	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:28	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:28	91-57-6	
Naphthalene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:28	91-20-3	
Phenanthrene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:28	85-01-8	
Pyrene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:28	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	91	%.	43-129	1	05/01/24 11:00	05/01/24 20:28	321-60-8	
p-Terphenyl-d14 (S)	101	%.	64-162	1	05/01/24 11:00	05/01/24 20:28	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		05/03/24 03:09	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/03/24 03:09	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/03/24 03:09	107-13-1	
Benzene	ND	ug/L	5.0	1		05/03/24 03:09	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/03/24 03:09	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/03/24 03:09	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/03/24 03:09	75-27-4	

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB6-GW **Lab ID: 50371887006** Collected: 04/29/24 16:50 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/L	5.0	1		05/03/24 03:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/03/24 03:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/03/24 03:09	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/03/24 03:09	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/03/24 03:09	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/03/24 03:09	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/03/24 03:09	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/24 03:09	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/03/24 03:09	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/03/24 03:09	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/03/24 03:09	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/03/24 03:09	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 03:09	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 03:09	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/03/24 03:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/03/24 03:09	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/03/24 03:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 03:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 03:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 03:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/03/24 03:09	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/03/24 03:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/03/24 03:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/03/24 03:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/24 03:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 03:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 03:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 03:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/03/24 03:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 03:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/03/24 03:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 03:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 03:09	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/03/24 03:09	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/03/24 03:09	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/03/24 03:09	87-68-3	
n-Hexane	**10.9**	ug/L	5.0	1		05/03/24 03:09	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/03/24 03:09	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/03/24 03:09	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/03/24 03:09	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/03/24 03:09	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/03/24 03:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/03/24 03:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/03/24 03:09	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/03/24 03:09	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/03/24 03:09	103-65-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB6-GW **Lab ID: 50371887006** Collected: 04/29/24 16:50 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Styrene	ND	ug/L	5.0	1		05/03/24 03:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 03:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 03:09	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/24 03:09	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/24 03:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 03:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 03:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/24 03:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/03/24 03:09	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/03/24 03:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/03/24 03:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/03/24 03:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/03/24 03:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/03/24 03:09	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/03/24 03:09	108-05-4	L1
Vinyl chloride	ND	ug/L	2.0	1		05/03/24 03:09	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/24 03:09	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	82-128	1		05/03/24 03:09	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	79-124	1		05/03/24 03:09	460-00-4	
Toluene-d8 (S)	101	%.	73-122	1		05/03/24 03:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB7-GW **Lab ID: 50371887007** Collected: 04/29/24 15:45 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Arsenic	**235**	ug/L	50.0	1	05/03/24 07:49	05/04/24 01:06	7440-38-2	
Barium	**791**	ug/L	50.0	1	05/03/24 07:49	05/04/24 01:06	7440-39-3	
Cadmium	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:06	7440-43-9	
Chromium	**448**	ug/L	50.0	1	05/03/24 07:49	05/04/24 01:06	7440-47-3	
Lead	**152**	ug/L	50.0	1	05/03/24 07:49	05/04/24 01:06	7439-92-1	
Selenium	ND	ug/L	50.0	1	05/03/24 07:49	05/04/24 01:06	7782-49-2	
Silver	ND	ug/L	50.0	1	05/03/24 07:49	05/04/24 01:06	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	05/07/24 20:03	05/08/24 09:45	7439-97-6	
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:38	83-32-9	
Acenaphthylene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:38	208-96-8	
Anthracene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:38	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:38	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:38	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:38	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/01/24 11:00	05/01/24 20:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:38	53-70-3	
Fluoranthene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:38	206-44-0	
Fluorene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:38	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.099	1	05/01/24 11:00	05/01/24 20:38	193-39-5	
1-Methylnaphthalene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:38	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:38	91-57-6	
Naphthalene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:38	91-20-3	
Phenanthrene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:38	85-01-8	
Pyrene	ND	ug/L	0.99	1	05/01/24 11:00	05/01/24 20:38	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	96	%.	43-129	1	05/01/24 11:00	05/01/24 20:38	321-60-8	
p-Terphenyl-d14 (S)	104	%.	64-162	1	05/01/24 11:00	05/01/24 20:38	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		05/03/24 03:32	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/03/24 03:32	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/03/24 03:32	107-13-1	
Benzene	ND	ug/L	5.0	1		05/03/24 03:32	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/03/24 03:32	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/03/24 03:32	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/03/24 03:32	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB7-GW **Lab ID: 50371887007** Collected: 04/29/24 15:45 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/L	5.0	1		05/03/24 03:32	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/03/24 03:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/03/24 03:32	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/03/24 03:32	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/03/24 03:32	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/03/24 03:32	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/03/24 03:32	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/24 03:32	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/03/24 03:32	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/03/24 03:32	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/03/24 03:32	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/03/24 03:32	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 03:32	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 03:32	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/03/24 03:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/03/24 03:32	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/03/24 03:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 03:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 03:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 03:32	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/03/24 03:32	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/03/24 03:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/03/24 03:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/03/24 03:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/24 03:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 03:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 03:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 03:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/03/24 03:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 03:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/03/24 03:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 03:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 03:32	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/03/24 03:32	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/03/24 03:32	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/03/24 03:32	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/03/24 03:32	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/03/24 03:32	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/03/24 03:32	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/03/24 03:32	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/03/24 03:32	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/03/24 03:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/03/24 03:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/03/24 03:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/03/24 03:32	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/03/24 03:32	103-65-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: SB7-GW **Lab ID: 50371887007** Collected: 04/29/24 15:45 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Styrene	ND	ug/L	5.0	1		05/03/24 03:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 03:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 03:32	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/24 03:32	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/24 03:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 03:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 03:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/24 03:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/03/24 03:32	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/03/24 03:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/03/24 03:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/03/24 03:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/03/24 03:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/03/24 03:32	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/03/24 03:32	108-05-4	L1
Vinyl chloride	ND	ug/L	2.0	1		05/03/24 03:32	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/24 03:32	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	82-128	1		05/03/24 03:32	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	79-124	1		05/03/24 03:32	460-00-4	
Toluene-d8 (S)	101	%.	73-122	1		05/03/24 03:32	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: GW-DUP1 **Lab ID: 50371887008** Collected: 04/29/24 08:00 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Pace Analytical Services - Indianapolis							
Arsenic	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:12	7440-38-2	
Barium	**188**	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:12	7440-39-3	
Cadmium	ND	ug/L	2.0	1	05/03/24 07:49	05/04/24 01:12	7440-43-9	
Chromium	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:12	7440-47-3	
Lead	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:12	7439-92-1	
Selenium	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:12	7782-49-2	
Silver	ND	ug/L	10.0	1	05/03/24 07:49	05/04/24 01:12	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	05/07/24 20:03	05/08/24 09:47	7439-97-6	
8270 PAH by 3511	Analytical Method: EPA 8270 by SIM 40E Preparation Method: EPA 3511 Pace Analytical Services - Indianapolis							
Acenaphthene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:49	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:49	208-96-8	
Anthracene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 20:49	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 20:49	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 20:49	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 20:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 20:49	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 20:49	207-08-9	
Chrysene	ND	ug/L	0.50	1	05/01/24 11:00	05/01/24 20:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 20:49	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:49	206-44-0	
Fluorene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:49	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	05/01/24 11:00	05/01/24 20:49	193-39-5	
1-Methylnaphthalene	**20.6**	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:49	90-12-0	
2-Methylnaphthalene	**34.7**	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:49	91-57-6	
Naphthalene	**180**	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:49	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:49	85-01-8	
Pyrene	ND	ug/L	1.0	1	05/01/24 11:00	05/01/24 20:49	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	95	%.	43-129	1	05/01/24 11:00	05/01/24 20:49	321-60-8	
p-Terphenyl-d14 (S)	109	%.	64-162	1	05/01/24 11:00	05/01/24 20:49	1718-51-0	
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		05/03/24 03:55	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/03/24 03:55	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/03/24 03:55	107-13-1	
Benzene	**5.9**	ug/L	5.0	1		05/03/24 03:55	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/03/24 03:55	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/03/24 03:55	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/03/24 03:55	75-27-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: GW-DUP1 **Lab ID: 50371887008** Collected: 04/29/24 08:00 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Bromoform	ND	ug/L	5.0	1		05/03/24 03:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/03/24 03:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/03/24 03:55	78-93-3	
n-Butylbenzene	**10.1**	ug/L	5.0	1		05/03/24 03:55	104-51-8	
sec-Butylbenzene	**6.0**	ug/L	5.0	1		05/03/24 03:55	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/03/24 03:55	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/03/24 03:55	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/24 03:55	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/03/24 03:55	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/03/24 03:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/03/24 03:55	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/03/24 03:55	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 03:55	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 03:55	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/03/24 03:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/03/24 03:55	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/03/24 03:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 03:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 03:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 03:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/03/24 03:55	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/03/24 03:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/03/24 03:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/03/24 03:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/24 03:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 03:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 03:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 03:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/03/24 03:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 03:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/03/24 03:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 03:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 03:55	10061-02-6	
Ethylbenzene	**239**	ug/L	5.0	1		05/03/24 03:55	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/03/24 03:55	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/03/24 03:55	87-68-3	
n-Hexane	**156**	ug/L	5.0	1		05/03/24 03:55	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/03/24 03:55	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/03/24 03:55	74-88-4	
Isopropylbenzene (Cumene)	**79.7**	ug/L	5.0	1		05/03/24 03:55	98-82-8	
p-Isopropyltoluene	**7.0**	ug/L	5.0	1		05/03/24 03:55	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/03/24 03:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/03/24 03:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/03/24 03:55	1634-04-4	
Naphthalene	**182**	ug/L	5.0	1		05/03/24 03:55	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/03/24 03:55	103-65-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: GW-DUP1 **Lab ID: 50371887008** Collected: 04/29/24 08:00 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Styrene	ND	ug/L	5.0	1		05/03/24 03:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 03:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 03:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/24 03:55	127-18-4	
Toluene	**15.4**	ug/L	5.0	1		05/03/24 03:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 03:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 03:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/24 03:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/03/24 03:55	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/03/24 03:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/03/24 03:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/03/24 03:55	96-18-4	
1,2,4-Trimethylbenzene	**10.6**	ug/L	5.0	1		05/03/24 03:55	95-63-6	
1,3,5-Trimethylbenzene	**10.5**	ug/L	5.0	1		05/03/24 03:55	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/03/24 03:55	108-05-4	L1
Vinyl chloride	ND	ug/L	2.0	1		05/03/24 03:55	75-01-4	
Xylene (Total)	**101**	ug/L	10.0	1		05/03/24 03:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	82-128	1		05/03/24 03:55	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	79-124	1		05/03/24 03:55	460-00-4	
Toluene-d8 (S)	104	%.	73-122	1		05/03/24 03:55	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: Trip Blank **Lab ID: 50371887009** Collected: 04/29/24 08:00 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Acetone	ND	ug/L	100	1		05/03/24 00:27	67-64-1	
Acrolein	ND	ug/L	50.0	1		05/03/24 00:27	107-02-8	
Acrylonitrile	ND	ug/L	100	1		05/03/24 00:27	107-13-1	
Benzene	ND	ug/L	5.0	1		05/03/24 00:27	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		05/03/24 00:27	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		05/03/24 00:27	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/03/24 00:27	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/03/24 00:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/03/24 00:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		05/03/24 00:27	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		05/03/24 00:27	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		05/03/24 00:27	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		05/03/24 00:27	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		05/03/24 00:27	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/24 00:27	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/03/24 00:27	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/03/24 00:27	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/03/24 00:27	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/03/24 00:27	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 00:27	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		05/03/24 00:27	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		05/03/24 00:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/03/24 00:27	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		05/03/24 00:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 00:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 00:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/03/24 00:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		05/03/24 00:27	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		05/03/24 00:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/03/24 00:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/03/24 00:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/24 00:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 00:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/24 00:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 00:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		05/03/24 00:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		05/03/24 00:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		05/03/24 00:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 00:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/03/24 00:27	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/03/24 00:27	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		05/03/24 00:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		05/03/24 00:27	87-68-3	
n-Hexane	ND	ug/L	5.0	1		05/03/24 00:27	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		05/03/24 00:27	591-78-6	
Iodomethane	ND	ug/L	10.0	1		05/03/24 00:27	74-88-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Sample: Trip Blank **Lab ID: 50371887009** Collected: 04/29/24 08:00 Received: 04/30/24 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Indianapolis							
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/03/24 00:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/03/24 00:27	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/03/24 00:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		05/03/24 00:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		05/03/24 00:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		05/03/24 00:27	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		05/03/24 00:27	103-65-1	
Styrene	ND	ug/L	5.0	1		05/03/24 00:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 00:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/03/24 00:27	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/24 00:27	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/24 00:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 00:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		05/03/24 00:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/24 00:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/03/24 00:27	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/03/24 00:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/03/24 00:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/03/24 00:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/03/24 00:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/03/24 00:27	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		05/03/24 00:27	108-05-4	L1
Vinyl chloride	ND	ug/L	2.0	1		05/03/24 00:27	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/24 00:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	82-128	1		05/03/24 00:27	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	79-124	1		05/03/24 00:27	460-00-4	
Toluene-d8 (S)	101	%.	73-122	1		05/03/24 00:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

QC Batch: 788505 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50371887001, 50371887002, 50371887003, 50371887004, 50371887005, 50371887006, 50371887007, 50371887008

METHOD BLANK: 3606927 Matrix: Water
Associated Lab Samples: 50371887001, 50371887002, 50371887003, 50371887004, 50371887005, 50371887006, 50371887007, 50371887008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	05/08/24 08:49	

LABORATORY CONTROL SAMPLE: 3606928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3606929 3606930

Parameter	Units	50371887003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.0	4.9	100	97	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

QC Batch: 787495
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50371887001, 50371887002, 50371887003, 50371887004, 50371887005, 50371887006, 50371887007, 50371887008

METHOD BLANK: 3602471 Matrix: Water
Associated Lab Samples: 50371887001, 50371887002, 50371887003, 50371887004, 50371887005, 50371887006, 50371887007, 50371887008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	05/04/24 00:28	
Barium	ug/L	ND	10.0	05/04/24 00:28	
Cadmium	ug/L	ND	2.0	05/04/24 00:28	
Chromium	ug/L	ND	10.0	05/04/24 00:28	
Lead	ug/L	ND	10.0	05/04/24 00:28	
Selenium	ug/L	ND	10.0	05/04/24 00:28	
Silver	ug/L	ND	10.0	05/04/24 00:28	

LABORATORY CONTROL SAMPLE: 3602472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1000	1010	101	80-120	
Barium	ug/L	1000	984	98	80-120	
Cadmium	ug/L	1000	976	98	80-120	
Chromium	ug/L	1000	1010	101	80-120	
Lead	ug/L	1000	958	96	80-120	
Selenium	ug/L	1000	979	98	80-120	
Silver	ug/L	500	501	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3602473 3602474

Parameter	Units	50371887003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	1000	1000	1010	1030	101	103	75-125	2	20	
Barium	ug/L	46.4	1000	1000	1010	1020	97	97	75-125	0	20	
Cadmium	ug/L	ND	1000	1000	967	980	97	98	75-125	1	20	
Chromium	ug/L	ND	1000	1000	977	990	98	99	75-125	1	20	
Lead	ug/L	ND	1000	1000	912	927	91	93	75-125	2	20	
Selenium	ug/L	ND	1000	1000	983	983	98	98	75-125	0	20	
Silver	ug/L	ND	500	500	492	500	98	100	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

QC Batch: 787883 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50371887001, 50371887002, 50371887003, 50371887004, 50371887005, 50371887006, 50371887007, 50371887008, 50371887009

METHOD BLANK: 3604145 Matrix: Water
Associated Lab Samples: 50371887001, 50371887002, 50371887003, 50371887004, 50371887005, 50371887006, 50371887007, 50371887008, 50371887009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/02/24 23:41	
1,1,1-Trichloroethane	ug/L	ND	5.0	05/02/24 23:41	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/02/24 23:41	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/02/24 23:41	
1,1-Dichloroethane	ug/L	ND	5.0	05/02/24 23:41	
1,1-Dichloroethene	ug/L	ND	5.0	05/02/24 23:41	
1,1-Dichloropropene	ug/L	ND	5.0	05/02/24 23:41	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	05/02/24 23:41	
1,2,3-Trichloropropane	ug/L	ND	5.0	05/02/24 23:41	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/02/24 23:41	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	05/02/24 23:41	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/02/24 23:41	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/02/24 23:41	
1,2-Dichloroethane	ug/L	ND	5.0	05/02/24 23:41	
1,2-Dichloropropane	ug/L	ND	5.0	05/02/24 23:41	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	05/02/24 23:41	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/02/24 23:41	
1,3-Dichloropropane	ug/L	ND	5.0	05/02/24 23:41	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/02/24 23:41	
2,2-Dichloropropane	ug/L	ND	5.0	05/02/24 23:41	
2-Butanone (MEK)	ug/L	ND	25.0	05/02/24 23:41	
2-Chlorotoluene	ug/L	ND	5.0	05/02/24 23:41	
2-Hexanone	ug/L	ND	25.0	05/02/24 23:41	
4-Chlorotoluene	ug/L	ND	5.0	05/02/24 23:41	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	05/02/24 23:41	
Acetone	ug/L	ND	100	05/02/24 23:41	
Acrolein	ug/L	ND	50.0	05/02/24 23:41	
Acrylonitrile	ug/L	ND	100	05/02/24 23:41	
Benzene	ug/L	ND	5.0	05/02/24 23:41	
Bromobenzene	ug/L	ND	5.0	05/02/24 23:41	
Bromochloromethane	ug/L	ND	5.0	05/02/24 23:41	
Bromodichloromethane	ug/L	ND	5.0	05/02/24 23:41	
Bromoform	ug/L	ND	5.0	05/02/24 23:41	
Bromomethane	ug/L	ND	5.0	05/02/24 23:41	
Carbon disulfide	ug/L	ND	10.0	05/02/24 23:41	
Carbon tetrachloride	ug/L	ND	5.0	05/02/24 23:41	
Chlorobenzene	ug/L	ND	5.0	05/02/24 23:41	
Chloroethane	ug/L	ND	5.0	05/02/24 23:41	
Chloroform	ug/L	ND	5.0	05/02/24 23:41	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

METHOD BLANK: 3604145 Matrix: Water

Associated Lab Samples: 50371887001, 50371887002, 50371887003, 50371887004, 50371887005, 50371887006, 50371887007, 50371887008, 50371887009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/L	ND	5.0	05/02/24 23:41	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/02/24 23:41	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/02/24 23:41	
Dibromochloromethane	ug/L	ND	5.0	05/02/24 23:41	
Dibromomethane	ug/L	ND	5.0	05/02/24 23:41	
Dichlorodifluoromethane	ug/L	ND	5.0	05/02/24 23:41	
Ethyl methacrylate	ug/L	ND	100	05/02/24 23:41	
Ethylbenzene	ug/L	ND	5.0	05/02/24 23:41	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/02/24 23:41	
Iodomethane	ug/L	ND	10.0	05/02/24 23:41	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	05/02/24 23:41	
Methyl-tert-butyl ether	ug/L	ND	4.0	05/02/24 23:41	
Methylene Chloride	ug/L	ND	5.0	05/02/24 23:41	
n-Butylbenzene	ug/L	ND	5.0	05/02/24 23:41	
n-Hexane	ug/L	ND	5.0	05/02/24 23:41	
n-Propylbenzene	ug/L	ND	5.0	05/02/24 23:41	
Naphthalene	ug/L	ND	5.0	05/02/24 23:41	
p-Isopropyltoluene	ug/L	ND	5.0	05/02/24 23:41	
sec-Butylbenzene	ug/L	ND	5.0	05/02/24 23:41	
Styrene	ug/L	ND	5.0	05/02/24 23:41	
tert-Butylbenzene	ug/L	ND	5.0	05/02/24 23:41	
Tetrachloroethene	ug/L	ND	5.0	05/02/24 23:41	
Toluene	ug/L	ND	5.0	05/02/24 23:41	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/02/24 23:41	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/02/24 23:41	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	05/02/24 23:41	
Trichloroethene	ug/L	ND	5.0	05/02/24 23:41	
Trichlorofluoromethane	ug/L	ND	5.0	05/02/24 23:41	
Vinyl acetate	ug/L	ND	50.0	05/02/24 23:41	
Vinyl chloride	ug/L	ND	2.0	05/02/24 23:41	
Xylene (Total)	ug/L	ND	10.0	05/02/24 23:41	
4-Bromofluorobenzene (S)	%.	100	79-124	05/02/24 23:41	
Dibromofluoromethane (S)	%.	98	82-128	05/02/24 23:41	
Toluene-d8 (S)	%.	102	73-122	05/02/24 23:41	

LABORATORY CONTROL SAMPLE: 3604146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.3	113	81-130	
1,1,1-Trichloroethane	ug/L	50	55.3	111	71-126	
1,1,2,2-Tetrachloroethane	ug/L	50	57.1	114	70-126	
1,1,2-Trichloroethane	ug/L	50	53.9	108	79-125	
1,1-Dichloroethane	ug/L	50	53.8	108	79-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

LABORATORY CONTROL SAMPLE: 3604146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	55.2	110	71-130	
1,1-Dichloropropene	ug/L	50	55.8	112	78-144	
1,2,3-Trichlorobenzene	ug/L	50	51.9	104	57-146	
1,2,3-Trichloropropane	ug/L	50	56.1	112	74-127	
1,2,4-Trichlorobenzene	ug/L	50	52.6	105	62-136	
1,2,4-Trimethylbenzene	ug/L	50	55.8	112	69-120	
1,2-Dibromoethane (EDB)	ug/L	50	53.9	108	80-120	
1,2-Dichlorobenzene	ug/L	50	51.5	103	79-123	
1,2-Dichloroethane	ug/L	50	50.9	102	72-123	
1,2-Dichloropropane	ug/L	50	54.8	110	76-125	
1,3,5-Trimethylbenzene	ug/L	50	54.8	110	71-120	
1,3-Dichlorobenzene	ug/L	50	52.7	105	78-117	
1,3-Dichloropropane	ug/L	50	52.4	105	77-126	
1,4-Dichlorobenzene	ug/L	50	50.6	101	79-116	
2,2-Dichloropropane	ug/L	50	50.8	102	48-138	
2-Butanone (MEK)	ug/L	250	284	113	67-135	
2-Chlorotoluene	ug/L	50	53.0	106	75-122	
2-Hexanone	ug/L	250	275	110	65-135	
4-Chlorotoluene	ug/L	50	52.9	106	77-120	
4-Methyl-2-pentanone (MIBK)	ug/L	250	286	114	69-136	
Acetone	ug/L	250	273	109	34-156	
Acrolein	ug/L	1000	1060	106	59-191	
Acrylonitrile	ug/L	250	275	110	67-146	
Benzene	ug/L	50	53.8	108	76-122	
Bromobenzene	ug/L	50	52.5	105	75-121	
Bromochloromethane	ug/L	50	52.5	105	73-119	
Bromodichloromethane	ug/L	50	54.5	109	80-126	
Bromoform	ug/L	50	60.1	120	77-124	
Bromomethane	ug/L	50	59.9	120	10-175	
Carbon disulfide	ug/L	50	52.9	106	69-121	
Carbon tetrachloride	ug/L	50	58.4	117	73-127	
Chlorobenzene	ug/L	50	51.6	103	76-118	
Chloroethane	ug/L	50	57.3	115	36-162	
Chloroform	ug/L	50	52.2	104	78-121	
Chloromethane	ug/L	50	50.7	101	37-143	
cis-1,2-Dichloroethene	ug/L	50	51.7	103	77-123	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	76-132	
Dibromochloromethane	ug/L	50	56.4	113	79-130	
Dibromomethane	ug/L	50	51.6	103	79-124	
Dichlorodifluoromethane	ug/L	50	42.0	84	29-126	
Ethyl methacrylate	ug/L	50	57.8J	116	78-137	
Ethylbenzene	ug/L	50	53.4	107	76-120	
Hexachloro-1,3-butadiene	ug/L	50	47.5	95	60-131	
Iodomethane	ug/L	50	53.2	106	10-148	
Isopropylbenzene (Cumene)	ug/L	50	54.2	108	71-124	
Methyl-tert-butyl ether	ug/L	50	54.3	109	71-121	
Methylene Chloride	ug/L	50	56.7	113	71-121	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

LABORATORY CONTROL SAMPLE: 3604146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
n-Butylbenzene	ug/L	50	55.1	110	68-131	
n-Hexane	ug/L	50	51.5	103	51-126	
n-Propylbenzene	ug/L	50	53.8	108	67-127	
Naphthalene	ug/L	50	54.6	109	62-143	
p-Isopropyltoluene	ug/L	50	54.3	109	72-124	
sec-Butylbenzene	ug/L	50	55.6	111	71-126	
Styrene	ug/L	50	52.5	105	80-121	
tert-Butylbenzene	ug/L	50	55.3	111	71-128	
Tetrachloroethene	ug/L	50	53.5	107	71-122	
Toluene	ug/L	50	53.7	107	74-118	
trans-1,2-Dichloroethene	ug/L	50	54.3	109	75-122	
trans-1,3-Dichloropropene	ug/L	50	56.7	113	77-126	
trans-1,4-Dichloro-2-butene	ug/L	50	56.8J	114	53-136	
Trichloroethene	ug/L	50	53.6	107	74-125	
Trichlorofluoromethane	ug/L	50	52.0	104	64-138	
Vinyl acetate	ug/L	200	329	165	74-154	L1
Vinyl chloride	ug/L	50	55.0	110	55-139	
Xylene (Total)	ug/L	100	104	104	73-119	
4-Bromofluorobenzene (S)	%.			100	79-124	
Dibromofluoromethane (S)	%.			98	82-128	
Toluene-d8 (S)	%.			100	73-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3604147 3604148

Parameter	Units	50371887003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	60.5	59.1	121	118	47-139	2	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	62.6	59.9	125	120	47-145	4	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	61.2	57.3	122	115	49-133	6	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	59.8	55.7	120	111	52-136	7	20	
1,1-Dichloroethane	ug/L	ND	50	50	60.3	57.5	121	115	52-137	5	20	
1,1-Dichloroethene	ug/L	ND	50	50	63.3	60.6	127	121	53-144	4	20	
1,1-Dichloropropene	ug/L	ND	50	50	62.0	60.6	124	121	49-150	2	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	51.8	50.5	104	101	20-153	3	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	61.0	56.5	122	113	47-134	8	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	51.0	51.2	102	102	23-141	0	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	58.7	56.8	117	114	41-131	3	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	57.7	54.8	115	110	55-133	5	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	54.5	52.7	109	105	43-133	3	20	
1,2-Dichloroethane	ug/L	ND	50	50	54.3	52.8	109	106	50-138	3	20	
1,2-Dichloropropane	ug/L	ND	50	50	59.5	57.3	119	115	54-139	4	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	58.5	56.5	117	113	39-133	3	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	54.7	53.2	109	106	41-131	3	20	
1,3-Dichloropropane	ug/L	ND	50	50	56.9	54.6	114	109	50-136	4	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	52.8	51.4	106	103	41-131	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3604147 3604148

Parameter	Units	50371887003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,2-Dichloropropane	ug/L	ND	50	50	45.1	42.6	90	85	17-141	6	20	
2-Butanone (MEK)	ug/L	ND	250	250	303	285	121	114	45-138	6	20	
2-Chlorotoluene	ug/L	ND	50	50	57.2	55.2	114	110	36-141	3	20	
2-Hexanone	ug/L	ND	250	250	297	277	119	111	45-135	7	20	
4-Chlorotoluene	ug/L	ND	50	50	56.7	54.5	113	109	38-134	4	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	311	289	124	116	46-138	7	20	
Acetone	ug/L	ND	250	250	301	277	120	110	25-151	8	20	
Acrolein	ug/L	ND	1000	1000	1020	938	102	94	36-168	9	20	
Acrylonitrile	ug/L	ND	250	250	294	275	118	110	47-147	7	20	
Benzene	ug/L	ND	50	50	59.7	57.0	119	114	53-138	5	20	
Bromobenzene	ug/L	ND	50	50	56.6	54.5	113	109	47-130	4	20	
Bromochloromethane	ug/L	ND	50	50	57.4	54.6	115	109	52-130	5	20	
Bromodichloromethane	ug/L	ND	50	50	58.5	57.1	117	114	50-146	2	20	
Bromoform	ug/L	ND	50	50	62.0	60.9	124	122	45-132	2	20	
Bromomethane	ug/L	ND	50	50	60.8	64.1	122	128	10-173	5	20	
Carbon disulfide	ug/L	ND	50	50	57.4	55.8	115	112	47-133	3	20	
Carbon tetrachloride	ug/L	ND	50	50	64.9	63.3	130	127	43-148	2	20	
Chlorobenzene	ug/L	ND	50	50	56.8	54.2	114	108	52-131	5	20	
Chloroethane	ug/L	ND	50	50	64.5	61.5	129	123	25-169	5	20	
Chloroform	ug/L	ND	50	50	57.7	55.2	115	110	54-138	4	20	
Chloromethane	ug/L	ND	50	50	57.1	55.1	114	110	33-137	4	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	56.6	54.1	113	108	50-141	5	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	57.8	55.8	116	112	47-135	4	20	
Dibromochloromethane	ug/L	ND	50	50	59.4	57.9	119	116	48-139	3	20	
Dibromomethane	ug/L	ND	50	50	55.2	53.0	110	106	51-141	4	20	
Dichlorodifluoromethane	ug/L	ND	50	50	45.9	43.8	92	88	15-130	5	20	
Ethyl methacrylate	ug/L	ND	50	50	61.8J	58.4J	124	117	51-142		20	
Ethylbenzene	ug/L	ND	50	50	59.0	56.7	118	113	50-136	4	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	47.4	49.8	95	100	15-141	5	20	
Iodomethane	ug/L	ND	50	50	47.8	52.8	96	106	10-145	10	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	59.3	57.2	119	114	46-137	4	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	59.1	55.9	118	112	47-135	5	20	
Methylene Chloride	ug/L	ND	50	50	57.5	54.9	115	110	48-131	5	20	
n-Butylbenzene	ug/L	ND	50	50	54.5	55.9	109	112	30-138	2	20	
n-Hexane	ug/L	ND	50	50	50.6	56.2	101	112	35-137	10	20	
n-Propylbenzene	ug/L	ND	50	50	57.4	55.3	115	111	37-135	4	20	
Naphthalene	ug/L	ND	50	50	56.7	53.6	113	107	34-152	6	20	
p-Isopropyltoluene	ug/L	ND	50	50	55.6	55.6	111	111	35-136	0	20	
sec-Butylbenzene	ug/L	ND	50	50	57.7	57.3	115	115	36-137	1	20	
Styrene	ug/L	ND	50	50	56.9	54.8	114	110	46-136	4	20	
tert-Butylbenzene	ug/L	ND	50	50	59.8	57.2	120	114	40-137	4	20	
Tetrachloroethene	ug/L	ND	50	50	58.5	57.2	117	114	44-138	2	20	
Toluene	ug/L	ND	50	50	59.8	56.9	120	114	52-132	5	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	59.6	57.2	119	114	50-137	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3604147 3604148

Parameter	Units	50371887003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
trans-1,3-Dichloropropene	ug/L	ND	50	50	57.4	56.8	115	114	46-130	1	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	50	50	58.9J	56.1J	118	112	24-134		20	
Trichloroethene	ug/L	ND	50	50	59.0	56.5	118	113	49-140	4	20	
Trichlorofluoromethane	ug/L	ND	50	50	60.1	56.8	120	114	44-153	6	20	
Vinyl acetate	ug/L	ND	200	200	274	253	137	127	32-142	8	20	
Vinyl chloride	ug/L	ND	50	50	62.0	58.6	124	117	41-147	6	20	
Xylene (Total)	ug/L	ND	100	100	113	109	113	109	44-138	4	20	
4-Bromofluorobenzene (S)	%.						99	100	79-124			
Dibromofluoromethane (S)	%.						98	98	82-128			
Toluene-d8 (S)	%.						100	101	73-122			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

QC Batch: 787557
QC Batch Method: EPA 3511
Analysis Method: EPA 8270 by SIM 40E
Analysis Description: 8270 Water PAH 40 by SIM MSSV
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50371887001, 50371887002, 50371887003, 50371887004, 50371887005, 50371887006, 50371887007, 50371887008

METHOD BLANK: 3602635 Matrix: Water
Associated Lab Samples: 50371887001, 50371887002, 50371887003, 50371887004, 50371887005, 50371887006, 50371887007, 50371887008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	05/01/24 17:36	
2-Methylnaphthalene	ug/L	ND	1.0	05/01/24 17:36	
Acenaphthene	ug/L	ND	1.0	05/01/24 17:36	
Acenaphthylene	ug/L	ND	1.0	05/01/24 17:36	
Anthracene	ug/L	ND	0.10	05/01/24 17:36	
Benzo(a)anthracene	ug/L	ND	0.10	05/01/24 17:36	
Benzo(a)pyrene	ug/L	ND	0.10	05/01/24 17:36	
Benzo(b)fluoranthene	ug/L	ND	0.10	05/01/24 17:36	
Benzo(g,h,i)perylene	ug/L	ND	0.10	05/01/24 17:36	
Benzo(k)fluoranthene	ug/L	ND	0.10	05/01/24 17:36	
Chrysene	ug/L	ND	0.50	05/01/24 17:36	
Dibenz(a,h)anthracene	ug/L	ND	0.10	05/01/24 17:36	
Fluoranthene	ug/L	ND	1.0	05/01/24 17:36	
Fluorene	ug/L	ND	1.0	05/01/24 17:36	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	05/01/24 17:36	
Naphthalene	ug/L	ND	1.0	05/01/24 17:36	
Phenanthrene	ug/L	ND	1.0	05/01/24 17:36	
Pyrene	ug/L	ND	1.0	05/01/24 17:36	
2-Fluorobiphenyl (S)	%.	74	43-129	05/01/24 17:36	
p-Terphenyl-d14 (S)	%.	88	64-162	05/01/24 17:36	

LABORATORY CONTROL SAMPLE: 3602636

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	25	25.9	104	55-123	
2-Methylnaphthalene	ug/L	25	23.2	93	49-116	
Acenaphthene	ug/L	25	25.7	103	65-121	
Acenaphthylene	ug/L	25	26.9	108	57-131	
Anthracene	ug/L	25	19.2	77	45-133	
Benzo(a)anthracene	ug/L	25	26.8	107	74-147	
Benzo(a)pyrene	ug/L	25	29.1	117	79-132	
Benzo(b)fluoranthene	ug/L	25	29.1	117	80-157	
Benzo(g,h,i)perylene	ug/L	25	30.6	122	70-131	
Benzo(k)fluoranthene	ug/L	25	32.2	129	71-158	
Chrysene	ug/L	25	29.5	118	65-135	
Dibenz(a,h)anthracene	ug/L	25	33.2	133	75-141	
Fluoranthene	ug/L	25	31.3	125	85-139	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

LABORATORY CONTROL SAMPLE: 3602636

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/L	25	28.0	112	74-129	
Indeno(1,2,3-cd)pyrene	ug/L	25	29.2	117	65-133	
Naphthalene	ug/L	25	23.9	96	60-114	
Phenanthrene	ug/L	25	30.5	122	82-128	
Pyrene	ug/L	25	27.0	108	70-145	
2-Fluorobiphenyl (S)	%.			81	43-129	
p-Terphenyl-d14 (S)	%.			87	64-162	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3602637 3602638

Parameter	Units	50371887003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	ND	24.9	24.8	28.8	28.0	116	113	35-144	3	20	
2-Methylnaphthalene	ug/L	ND	24.9	24.8	26.4	25.8	106	104	38-130	2	20	
Acenaphthene	ug/L	ND	24.9	24.8	27.5	27.2	110	110	52-131	1	20	
Acenaphthylene	ug/L	ND	24.9	24.8	28.5	28.1	114	113	57-120	2	20	
Anthracene	ug/L	ND	24.9	24.8	20.6	18.9	82	76	43-123	8	20	
Benzo(a)anthracene	ug/L	ND	24.9	24.8	26.9	27.3	108	110	79-132	2	20	
Benzo(a)pyrene	ug/L	ND	24.9	24.8	30.7	30.5	123	123	75-125	1	20	
Benzo(b)fluoranthene	ug/L	ND	24.9	24.8	31.1	31.0	125	125	79-149	0	20	
Benzo(g,h,i)perylene	ug/L	ND	24.9	24.8	31.4	31.1	126	126	48-156	1	20	
Benzo(k)fluoranthene	ug/L	ND	24.9	24.8	31.1	31.0	125	125	81-150	0	20	
Chrysene	ug/L	ND	24.9	24.8	29.3	29.3	118	118	78-130	0	20	
Dibenz(a,h)anthracene	ug/L	ND	24.9	24.8	34.3	29.4	137	119	62-149	15	20	
Fluoranthene	ug/L	ND	24.9	24.8	31.3	30.2	125	122	74-141	4	20	
Fluorene	ug/L	ND	24.9	24.8	29.5	29.2	118	118	56-145	1	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	24.9	24.8	30.2	29.9	121	121	51-146	1	20	
Naphthalene	ug/L	ND	24.9	24.8	26.2	25.4	105	103	31-147	3	20	
Phenanthrene	ug/L	ND	24.9	24.8	30.4	29.9	122	121	77-130	2	20	
Pyrene	ug/L	ND	24.9	24.8	27.6	27.9	111	113	75-150	1	20	
2-Fluorobiphenyl (S)	%.						95	92	43-129			
p-Terphenyl-d14 (S)	%.						98	96	64-162			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1400 Block of S Hoyt
Pace Project No.: 50371887

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50371887001	**SB1-GW**	EPA 3010	787495	EPA 6010	788154
50371887002	**SB2-GW**	EPA 3010	787495	EPA 6010	788154
50371887003	**SB3-GW**	EPA 3010	787495	EPA 6010	788154
50371887004	**SB4-GW**	EPA 3010	787495	EPA 6010	788154
50371887005	**SB5-GW**	EPA 3010	787495	EPA 6010	788154
50371887006	**SB6-GW**	EPA 3010	787495	EPA 6010	788154
50371887007	**SB7-GW**	EPA 3010	787495	EPA 6010	788154
50371887008	**GW-DUP1**	EPA 3010	787495	EPA 6010	788154
50371887001	**SB1-GW**	EPA 7470	788505	EPA 7470	788644
50371887002	**SB2-GW**	EPA 7470	788505	EPA 7470	788644
50371887003	**SB3-GW**	EPA 7470	788505	EPA 7470	788644
50371887004	**SB4-GW**	EPA 7470	788505	EPA 7470	788644
50371887005	**SB5-GW**	EPA 7470	788505	EPA 7470	788644
50371887006	**SB6-GW**	EPA 7470	788505	EPA 7470	788644
50371887007	**SB7-GW**	EPA 7470	788505	EPA 7470	788644
50371887008	**GW-DUP1**	EPA 7470	788505	EPA 7470	788644
50371887001	**SB1-GW**	EPA 3511	787557	EPA 8270 by SIM 40E	787710
50371887002	**SB2-GW**	EPA 3511	787557	EPA 8270 by SIM 40E	787710
50371887003	**SB3-GW**	EPA 3511	787557	EPA 8270 by SIM 40E	787710
50371887004	**SB4-GW**	EPA 3511	787557	EPA 8270 by SIM 40E	787710
50371887005	**SB5-GW**	EPA 3511	787557	EPA 8270 by SIM 40E	787710
50371887006	**SB6-GW**	EPA 3511	787557	EPA 8270 by SIM 40E	787710
50371887007	**SB7-GW**	EPA 3511	787557	EPA 8270 by SIM 40E	787710
50371887008	**GW-DUP1**	EPA 3511	787557	EPA 8270 by SIM 40E	787710
50371887001	**SB1-GW**	EPA 8260	787883		
50371887002	**SB2-GW**	EPA 8260	787883		
50371887003	**SB3-GW**	EPA 8260	787883		
50371887004	**SB4-GW**	EPA 8260	787883		
50371887005	**SB5-GW**	EPA 8260	787883		
50371887006	**SB6-GW**	EPA 8260	787883		
50371887007	**SB7-GW**	EPA 8260	787883		
50371887008	**GW-DUP1**	EPA 8260	787883		
50371887009	**Trip Blank**	EPA 8260	787883		

Pace® Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

WO# : 50371887

50371887

Company Name:	Soil and Materials Engineers, Inc.	Contact/Report To:	Cline, Mitch
Street Address:	11800 Exit 5 Parkway, Fishers, IN 46037	Phone #:	317-876-0200
		E-Mail:	mitch.cline@sme-usa.com
		Cc E-Mail:	rob.walker@sme-usa.com
Customer Project #:	089758.00.03B.005		
Project Name:	1400 Block of S Hoyt	Invoice To:	
		Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Indiana

Data Deliverables: [ ] Level II [ ] Level III [X] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested: Standard

Field Filtered (if applicable): [ ] Yes [X] No

Analysis: RCRA 8

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 6 6 3 3

Identify Container Preservative Type***: 4 1 2 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Olivia Deck; AcctNum / Client ID:; Table #:; Profile / Template: 10807-8; Prelog / Bottle Ord. ID: 1174502

Preservation non-conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	VOC 8260	PAH 8270	RCRA 8 6010/7470	Lab Filtered RCRA 8 6010/7470	Sample Comment
SB1-GW	GW	G	4/29/24	1145			8			X	X	X	X	001
SB2-GW				1250										002
SB3-GW				1340										003
LD MS/MSD-1				1340										~~004~~
SB4-GW				1450										004
SB5-GW				1550										005
SB6-GW				1650										006
SB7-GW				1545										007
GW-DUP1				—										008
TRIP blank	OT						3							009

Additional Instructions from Pace®:
*** Terracore vials must be frozen in lab within 48hrs of collection.**

Collected By: (Printed Name) Amanda McClarty

Signature:

Customer Remarks / Special Conditions / Possible Hazards: ☆ Filter + HOLD diss. RCRA ☆

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	F	-.2	2.3	2.1	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
SME	4/29/24 1905	SME cold storage	4/29/24 1905
SME cold storage	4/30/24 1450	Pace	4/30/24 1450
Pace	4/30/24 1520	PACE	4/30/24 1520

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 1 of 1

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: TW 4/30/24 1600

1. **Courier:** ☐ FED EX ☐ UPS ☐ CLIENT ☑ PACE ☐ NOW/JETT ☐ OTHER _____
2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☑ No
   (If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C D E F G H
4. **Cooler Temperature(s):** 2.3 / 2.1 (Initial/Corrected) **RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)**

5. **Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other ZPLC
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **Was the PM notified of out of temp cooler?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C
8. **EZ Bottle Order?** ☐ Yes ☑ No
   If yes but not on COC what is the EZ Bottle Order Number?:

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** Circle: **HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form	✓		
Short Hold Time Analysis (48 hours or less)? Analysis:		✓				
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details		✓	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?	✓		
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:	✓		

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

** Place a RED dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit	Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/ZnAc >9
1				3		3												1	1									WT	✓			
2				3		3												1	1										↓			
3				6		6												2	2										✓			
4																																
5				3		3												1	1										✓			
6				↓		↓												↓	↓										↓			
7																													✓			
8																													7			
9						↓												↓	↓										✓			
10				↓		X																					↘		✓			
11						TW	4/30																									
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

ANALYTICAL REPORT

May 08, 2024

Soil & Materials Engineeers

Sample Delivery Group:	L1731355
Samples Received:	05/01/2024
Project Number:	089758.00.03B.005
Description:	1400 Blk S Hoyt Phase II
Site:	MUNCIE, IN
Report To:	Mitch Cline 11800 Exit 5 Parkway, Suite 106 Fishers, IN 46037

Entire Report Reviewed By:

Andi R Jones
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

SG3 L1731355-01 Air

Collected by: Amanda McCarty
Collected date/time: 04/29/24 12:04
Received date/time: 05/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2278229	1	05/02/24 03:51	05/02/24 03:51	MNP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2278934	10	05/02/24 17:49	05/02/24 17:49	GH	Mt. Juliet, TN

SG2 L1731355-02 Air

Collected by: Amanda McCarty
Collected date/time: 04/29/24 12:54
Received date/time: 05/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2278229	1	05/02/24 04:34	05/02/24 04:34	MNP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2279821	10	05/03/24 14:44	05/03/24 14:44	GH	Mt. Juliet, TN

SG1 L1731355-03 Air

Collected by: Amanda McCarty
Collected date/time: 04/29/24 13:37
Received date/time: 05/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2279821	100	05/04/24 03:13	05/04/24 03:13	GH	Mt. Juliet, TN

SG-DUP 1 L1731355-04 Air

Collected by: Amanda McCarty
Collected date/time: 04/29/24 00:00
Received date/time: 05/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2279821	100	05/04/24 03:51	05/04/24 03:51	GH	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Andi R Jones
Project Manager

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	6.00	14.3		1	WG2278229
Benzene	71-43-2	78.10	0.200	0.639	4.79	15.3		1	WG2278229
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2278229
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2278229
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2278229
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2278229
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2278229
Carbon disulfide	75-15-0	76.10	0.200	0.622	46.9	146		1	WG2278229
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2278229
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2278229
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2278229
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2278229
Chloromethane	74-87-3	50.50	0.200	0.413	0.291	0.601		1	WG2278229
Cyclohexane	110-82-7	84.20	0.200	0.689	8.86	30.5		1	WG2278229
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2278229
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2278229
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2278229
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2278229
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2278229
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2278229
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2278229
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2278229
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2278229
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2278229
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2278229
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2278229
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2278229
Ethanol	64-17-5	46.10	2.50	4.71	15.0	28.3		1	WG2278229
Ethylbenzene	100-41-4	106	0.200	0.867	35.5	154		1	WG2278229
4-Ethyltoluene	622-96-8	120	0.200	0.982	12.5	61.3		1	WG2278229
Ethyl acetate	141-78-6	88	0.630	2.27	1.55	5.58		1	WG2278229
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.378	2.12		1	WG2278229
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.491	2.43		1	WG2278229
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2278229
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2278229
Heptane	142-82-5	100	0.200	0.818	30.5	125		1	WG2278229
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2278229
n-Hexane	110-54-3	86.20	6.30	22.2	108	381		10	WG2278934
Isopropylbenzene	98-82-8	120.20	0.200	0.983	7.45	36.6		1	WG2278229
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.10	3.82		1	WG2278229
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2278229
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG2278229
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2278229
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2278229
MTBE	1634-04-4	88.10	0.200	0.721	3.89	14.0		1	WG2278229
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2278229
2-Propanol	67-63-0	60.10	1.25	3.07	2.14	5.26		1	WG2278229
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2278229
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2278229
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2278229
Tetrachloroethylene	127-18-4	166	2.00	13.6	358	2430		10	WG2278934
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2278229
Toluene	108-88-3	92.10	5.00	18.8	247	930		10	WG2278934
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2278229
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2278229
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2278229

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Collected date/time: 04/29/24 12:04

L1731355

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2278229
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	49.3	242		1	WG2278229
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	17.8	87.4		1	WG2278229
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	17.3	80.8		1	WG2278229
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2278229
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2278229
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2278229
Xylenes, Total	1330-20-7	106.16	0.600	2.61	173	751		1	WG2278229
m&p-Xylene	179601-23-1	106	0.400	1.73	127	551		1	WG2278229
o-Xylene	95-47-6	106	0.200	0.867	46.0	199		1	WG2278229
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*107*				WG2278229
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*98.4*				WG2278934

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	14.2	33.7		1	WG2278229
Benzene	71-43-2	78.10	0.200	0.639	12.6	40.2		1	WG2278229
Benzyl Chloride	100-44-7	127	2.00	10.4	ND	ND		10	WG2279821
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2278229
Bromoform	75-25-2	253	6.00	62.1	ND	ND		10	WG2279821
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2278229
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2278229
Carbon disulfide	75-15-0	76.10	0.200	0.622	49.2	153		1	WG2278229
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2278229
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2278229
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2278229
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2278229
Chloromethane	74-87-3	50.50	0.200	0.413	0.362	0.748		1	WG2278229
Cyclohexane	110-82-7	84.20	0.200	0.689	84.3	290		1	WG2278229
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2278229
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2278229
1,2-Dichlorobenzene	95-50-1	147	2.00	12.0	ND	ND		10	WG2279821
1,3-Dichlorobenzene	541-73-1	147	2.00	12.0	ND	ND		10	WG2279821
1,4-Dichlorobenzene	106-46-7	147	2.00	12.0	ND	ND		10	WG2279821
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2278229
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2278229
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2278229
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2278229
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2278229
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2278229
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2278229
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2278229
Ethanol	64-17-5	46.10	2.50	4.71	10.9	20.6		1	WG2278229
Ethylbenzene	100-41-4	106	2.00	8.67	21.7	94.1		10	WG2279821
4-Ethyltoluene	622-96-8	120	2.00	9.82	23.6	116		10	WG2279821
Ethyl acetate	141-78-6	88	0.630	2.27	ND	ND		1	WG2278229
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.595	3.34		1	WG2278229
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.409	2.02		1	WG2278229
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2278229
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2278229
Heptane	142-82-5	100	2.00	8.18	166	679		10	WG2279821
Hexachloro-1,3-butadiene	87-68-3	261	6.30	67.3	ND	ND		10	WG2279821
n-Hexane	110-54-3	86.20	6.30	22.2	380	1340		10	WG2279821
Isopropylbenzene	98-82-8	120.20	2.00	9.83	3.92	19.3		10	WG2279821
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.81	6.29		1	WG2278229
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2278229
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	3.41	10.1		1	WG2278229
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2278229
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2278229
MTBE	1634-04-4	88.10	0.200	0.721	1.79	6.45		1	WG2278229
Naphthalene	91-20-3	128	6.30	33.0	ND	ND		10	WG2279821
2-Propanol	67-63-0	60.10	1.25	3.07	1.47	3.61		1	WG2278229
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2278229
Styrene	100-42-5	104	2.00	8.51	ND	ND		10	WG2279821
1,1,2,2-Tetrachloroethane	79-34-5	168	2.00	13.7	ND	ND		10	WG2279821
Tetrachloroethylene	127-18-4	166	2.00	13.6	216	1470		10	WG2279821
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2278229
Toluene	108-88-3	92.10	5.00	18.8	160	603		10	WG2279821
1,2,4-Trichlorobenzene	120-82-1	181	6.30	46.6	ND	ND		10	WG2279821
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2278229
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2278229

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Collected date/time: 04/29/24 12:54

L1731355

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2278229
1,2,4-Trimethylbenzene	95-63-6	120	2.00	9.82	17.7	86.9		10	WG2279821
1,3,5-Trimethylbenzene	108-67-8	120	2.00	9.82	7.92	38.9		10	WG2279821
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	26.4	123		1	WG2278229
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2278229
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2278229
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2278229
Xylenes, Total	1330-20-7	106.16	6.00	26.1	80.0	347		10	WG2279821
m&p-Xylene	179601-23-1	106	4.00	17.3	61.0	264		10	WG2279821
o-Xylene	95-47-6	106	2.00	8.67	19.0	82.4		10	WG2279821
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*107*				WG2278229
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*97.3*				WG2279821

Sample Narrative:

L1731355-02 WG2279821: Elevated RL due to sample matrix interference.

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	125	297	1700	4040		100	WG2279821
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2279821
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2279821
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2279821
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2279821
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2279821
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2279821
Carbon disulfide	75-15-0	76.10	20.0	62.2	20.7	64.4		100	WG2279821
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2279821
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2279821
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2279821
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2279821
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2279821
Cyclohexane	110-82-7	84.20	20.0	68.9	104	358		100	WG2279821
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2279821
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2279821
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2279821
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2279821
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2279821
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2279821
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2279821
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	164	650		100	WG2279821
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2279821
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2279821
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2279821
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2279821
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2279821
Ethanol	64-17-5	46.10	250	471	741	1400		100	WG2279821
Ethylbenzene	100-41-4	106	20.0	86.7	39.3	170		100	WG2279821
4-Ethyltoluene	622-96-8	120	20.0	98.2	37.2	183		100	WG2279821
Ethyl acetate	141-78-6	88	63.0	227	ND	ND		100	WG2279821
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2279821
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2279821
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2279821
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2279821
Heptane	142-82-5	100	20.0	81.8	403	1650		100	WG2279821
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2279821
n-Hexane	110-54-3	86.20	63.0	222	358	1260		100	WG2279821
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2279821
Methylene Chloride	75-09-2	84.90	20.0	69.4	105	365		100	WG2279821
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2279821
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2279821
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2279821
Methyl methacrylate	80-62-6	100.12	20.0	81.9	54.8	224		100	WG2279821
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2279821
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2279821
2-Propanol	67-63-0	60.10	125	307	570	1400		100	WG2279821
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2279821
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2279821
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2279821
Tetrachloroethylene	127-18-4	166	20.0	136	141	957		100	WG2279821
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2279821
Toluene	108-88-3	92.10	50.0	188	131	493		100	WG2279821
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2279821
1,1,1-Trichloroethane	71-55-6	133	20.0	109	33.4	182		100	WG2279821
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2279821

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2279821
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	34.9	171		100	WG2279821
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2279821
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2279821
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2279821
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2279821
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2279821
Xylenes, Total	1330-20-7	106.16	60.0	261	167	725		100	WG2279821
m&p-Xylene	179601-23-1	106	40.0	173	132	572		100	WG2279821
o-Xylene	95-47-6	106	20.0	86.7	35.2	153		100	WG2279821
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*95.9*				WG2279821

Sample Narrative:

L1731355-03 WG2279821: Elevated RL due to sample matrix interference.

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	125	297	1750	4160		100	WG2279821
Benzene	71-43-2	78.10	20.0	63.9	ND	ND		100	WG2279821
Benzyl Chloride	100-44-7	127	20.0	104	ND	ND		100	WG2279821
Bromodichloromethane	75-27-4	164	20.0	134	ND	ND		100	WG2279821
Bromoform	75-25-2	253	60.0	621	ND	ND		100	WG2279821
Bromomethane	74-83-9	94.90	20.0	77.6	ND	ND		100	WG2279821
1,3-Butadiene	106-99-0	54.10	200	443	ND	ND		100	WG2279821
Carbon disulfide	75-15-0	76.10	20.0	62.2	25.1	78.1		100	WG2279821
Carbon tetrachloride	56-23-5	154	20.0	126	ND	ND		100	WG2279821
Chlorobenzene	108-90-7	113	20.0	92.4	ND	ND		100	WG2279821
Chloroethane	75-00-3	64.50	20.0	52.8	ND	ND		100	WG2279821
Chloroform	67-66-3	119	20.0	97.3	ND	ND		100	WG2279821
Chloromethane	74-87-3	50.50	20.0	41.3	ND	ND		100	WG2279821
Cyclohexane	110-82-7	84.20	20.0	68.9	132	455		100	WG2279821
Dibromochloromethane	124-48-1	208	20.0	170	ND	ND		100	WG2279821
1,2-Dibromoethane	106-93-4	188	20.0	154	ND	ND		100	WG2279821
1,2-Dichlorobenzene	95-50-1	147	20.0	120	ND	ND		100	WG2279821
1,3-Dichlorobenzene	541-73-1	147	20.0	120	ND	ND		100	WG2279821
1,4-Dichlorobenzene	106-46-7	147	20.0	120	ND	ND		100	WG2279821
1,2-Dichloroethane	107-06-2	99	20.0	81.0	ND	ND		100	WG2279821
1,1-Dichloroethane	75-34-3	98	20.0	80.2	ND	ND		100	WG2279821
1,1-Dichloroethene	75-35-4	96.90	20.0	79.3	ND	ND		100	WG2279821
cis-1,2-Dichloroethene	156-59-2	96.90	20.0	79.3	ND	ND		100	WG2279821
trans-1,2-Dichloroethene	156-60-5	96.90	20.0	79.3	ND	ND		100	WG2279821
1,2-Dichloropropane	78-87-5	113	20.0	92.4	ND	ND		100	WG2279821
cis-1,3-Dichloropropene	10061-01-5	111	20.0	90.8	ND	ND		100	WG2279821
trans-1,3-Dichloropropene	10061-02-6	111	20.0	90.8	ND	ND		100	WG2279821
Ethanol	64-17-5	46.10	250	471	936	1760		100	WG2279821
Ethylbenzene	100-41-4	106	20.0	86.7	46.1	200		100	WG2279821
4-Ethyltoluene	622-96-8	120	20.0	98.2	43.3	213		100	WG2279821
Ethyl acetate	141-78-6	88	63.0	227	67.3	242		100	WG2279821
Trichlorofluoromethane	75-69-4	137.40	20.0	112	ND	ND		100	WG2279821
Dichlorodifluoromethane	75-71-8	120.92	20.0	98.9	ND	ND		100	WG2279821
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	20.0	153	ND	ND		100	WG2279821
1,2-Dichlorotetrafluoroethane	76-14-2	171	20.0	140	ND	ND		100	WG2279821
Heptane	142-82-5	100	20.0	81.8	553	2260		100	WG2279821
Hexachloro-1,3-butadiene	87-68-3	261	63.0	673	ND	ND		100	WG2279821
n-Hexane	110-54-3	86.20	63.0	222	466	1640		100	WG2279821
Isopropylbenzene	98-82-8	120.20	20.0	98.3	ND	ND		100	WG2279821
Methylene Chloride	75-09-2	84.90	20.0	69.4	174	604		100	WG2279821
Methyl Butyl Ketone	591-78-6	100	125	511	ND	ND		100	WG2279821
2-Butanone (MEK)	78-93-3	72.10	125	369	ND	ND		100	WG2279821
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	125	512	ND	ND		100	WG2279821
Methyl methacrylate	80-62-6	100.12	20.0	81.9	ND	ND		100	WG2279821
MTBE	1634-04-4	88.10	20.0	72.1	ND	ND		100	WG2279821
Naphthalene	91-20-3	128	63.0	330	ND	ND		100	WG2279821
2-Propanol	67-63-0	60.10	125	307	598	1470		100	WG2279821
Propene	115-07-1	42.10	125	215	ND	ND		100	WG2279821
Styrene	100-42-5	104	20.0	85.1	ND	ND		100	WG2279821
1,1,2,2-Tetrachloroethane	79-34-5	168	20.0	137	ND	ND		100	WG2279821
Tetrachloroethylene	127-18-4	166	20.0	136	154	1050		100	WG2279821
Tetrahydrofuran	109-99-9	72.10	20.0	59.0	ND	ND		100	WG2279821
Toluene	108-88-3	92.10	50.0	188	159	599		100	WG2279821
1,2,4-Trichlorobenzene	120-82-1	181	63.0	466	ND	ND		100	WG2279821
1,1,1-Trichloroethane	71-55-6	133	20.0	109	ND	ND		100	WG2279821
1,1,2-Trichloroethane	79-00-5	133	20.0	109	ND	ND		100	WG2279821

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Trichloroethylene	79-01-6	131	20.0	107	ND	ND		100	WG2279821
1,2,4-Trimethylbenzene	95-63-6	120	20.0	98.2	39.1	192		100	WG2279821
1,3,5-Trimethylbenzene	108-67-8	120	20.0	98.2	ND	ND		100	WG2279821
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	ND	ND		100	WG2279821
Vinyl chloride	75-01-4	62.50	20.0	51.1	ND	ND		100	WG2279821
Vinyl Bromide	593-60-2	106.95	20.0	87.5	ND	ND		100	WG2279821
Vinyl acetate	108-05-4	86.10	63.0	222	ND	ND		100	WG2279821
Xylenes, Total	1330-20-7	106.16	60.0	261	192	834		100	WG2279821
m&p-Xylene	179601-23-1	106	40.0	173	151	655		100	WG2279821
o-Xylene	95-47-6	106	20.0	86.7	40.7	176		100	WG2279821
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*96.6*				WG2279821

Sample Narrative:

L1731355-04 WG2279821: Elevated RL due to sample matrix interference.

Method Blank (MB)

(MB) R4064812-3 05/01/24 10:27

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
Ethanol	U		0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Ethyl acetate	U		0.100	0.630
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25

Method Blank (MB)

(MB) R4064812-3 05/01/24 10:27

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrahydrofuran	U		0.0734	0.200
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.630
Xylenes, Total	U		0.135	0.600
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	*100*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4064812-1 05/01/24 09:01 • (LCSD) R4064812-2 05/01/24 09:44

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.79	3.81	101	102	70.0-130			0.526	25
Benzene	3.75	3.62	3.64	96.5	97.1	70.0-130			0.551	25
Benzyl Chloride	3.75	3.83	3.76	102	100	70.0-152			1.84	25
Bromodichloromethane	3.75	3.51	3.66	93.6	97.6	70.0-130			4.18	25
Bromoform	3.75	3.47	3.48	92.5	92.8	70.0-130			0.288	25
Bromomethane	3.75	3.42	3.47	91.2	92.5	70.0-130			1.45	25
1,3-Butadiene	3.75	3.83	3.84	102	102	70.0-130			0.261	25
Carbon disulfide	3.75	3.47	3.52	92.5	93.9	70.0-130			1.43	25
Carbon tetrachloride	3.75	3.53	3.58	94.1	95.5	70.0-130			1.41	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4064812-1 05/01/24 09:01 • (LCSD) R4064812-2 05/01/24 09:44

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chlorobenzene	3.75	3.36	3.48	89.6	92.8	70.0-130			3.51	25
Chloroethane	3.75	3.54	3.53	94.4	94.1	70.0-130			0.283	25
Chloroform	3.75	3.53	3.62	94.1	96.5	70.0-130			2.52	25
Chloromethane	3.75	3.64	3.66	97.1	97.6	70.0-130			0.548	25
Cyclohexane	3.75	3.91	3.94	104	105	70.0-130			0.764	25
Dibromochloromethane	3.75	3.37	3.49	89.9	93.1	70.0-130			3.50	25
1,2-Dibromoethane	3.75	3.53	3.59	94.1	95.7	70.0-130			1.69	25
1,2-Dichlorobenzene	3.75	3.57	3.63	95.2	96.8	70.0-130			1.67	25
1,3-Dichlorobenzene	3.75	3.58	3.55	95.5	94.7	70.0-130			0.842	25
1,4-Dichlorobenzene	3.75	3.66	3.67	97.6	97.9	70.0-130			0.273	25
1,2-Dichloroethane	3.75	3.49	3.48	93.1	92.8	70.0-130			0.287	25
1,1-Dichloroethane	3.75	3.66	3.71	97.6	98.9	70.0-130			1.36	25
1,1-Dichloroethene	3.75	3.51	3.52	93.6	93.9	70.0-130			0.284	25
cis-1,2-Dichloroethene	3.75	3.80	3.80	101	101	70.0-130			0.000	25
trans-1,2-Dichloroethene	3.75	3.71	3.75	98.9	100	70.0-130			1.07	25
1,2-Dichloropropane	3.75	3.74	3.65	99.7	97.3	70.0-130			2.44	25
cis-1,3-Dichloropropene	3.75	3.94	3.92	105	105	70.0-130			0.509	25
trans-1,3-Dichloropropene	3.75	3.65	3.61	97.3	96.3	70.0-130			1.10	25
Ethanol	3.75	3.78	3.53	101	94.1	55.0-148			6.84	25
Ethylbenzene	3.75	3.59	3.74	95.7	99.7	70.0-130			4.09	25
4-Ethyltoluene	3.75	3.79	3.86	101	103	70.0-130			1.83	25
Ethyl acetate	3.75	3.74	3.67	99.7	97.9	70.0-130			1.89	25
Trichlorofluoromethane	3.75	3.45	3.54	92.0	94.4	70.0-130			2.58	25
Dichlorodifluoromethane	3.75	3.71	3.83	98.9	102	64.0-139			3.18	25
1,1,2-Trichlorotrifluoroethane	3.75	3.37	3.40	89.9	90.7	70.0-130			0.886	25
1,2-Dichlorotetrafluoroethane	3.75	3.60	3.61	96.0	96.3	70.0-130			0.277	25
Heptane	3.75	3.80	3.78	101	101	70.0-130			0.528	25
Hexachloro-1,3-butadiene	3.75	3.49	3.56	93.1	94.9	70.0-151			1.99	25
Isopropylbenzene	3.75	3.95	3.82	105	102	70.0-130			3.35	25
Methylene Chloride	3.75	3.55	3.63	94.7	96.8	70.0-130			2.23	25
Methyl Butyl Ketone	3.75	3.74	3.72	99.7	99.2	70.0-149			0.536	25
2-Butanone (MEK)	3.75	3.97	3.80	106	101	70.0-130			4.38	25
4-Methyl-2-pentanone (MIBK)	3.75	4.01	4.01	107	107	70.0-139			0.000	25
Methyl methacrylate	3.75	3.80	3.75	101	100	70.0-130			1.32	25
MTBE	3.75	3.84	3.82	102	102	70.0-130			0.522	25
Naphthalene	3.75	3.87	3.91	103	104	70.0-159			1.03	25
2-Propanol	3.75	3.91	3.76	104	100	70.0-139			3.91	25
Propene	3.75	3.83	3.86	102	103	64.0-144			0.780	25
Styrene	3.75	3.94	3.74	105	99.7	70.0-130			5.21	25
1,1,2,2-Tetrachloroethane	3.75	3.57	3.64	95.2	97.1	70.0-130			1.94	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4064812-1 05/01/24 09:01 • (LCSD) R4064812-2 05/01/24 09:44

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Tetrahydrofuran	3.75	3.89	3.81	104	102	70.0-137			2.08	25
1,2,4-Trichlorobenzene	3.75	3.60	3.75	96.0	100	70.0-160			4.08	25
1,1,1-Trichloroethane	3.75	3.56	3.59	94.9	95.7	70.0-130			0.839	25
1,1,2-Trichloroethane	3.75	3.42	3.47	91.2	92.5	70.0-130			1.45	25
Trichloroethylene	3.75	3.72	3.70	99.2	98.7	70.0-130			0.539	25
1,2,4-Trimethylbenzene	3.75	3.96	3.95	106	105	70.0-130			0.253	25
1,3,5-Trimethylbenzene	3.75	3.78	3.88	101	103	70.0-130			2.61	25
2,2,4-Trimethylpentane	3.75	3.80	3.91	101	104	70.0-130			2.85	25
Vinyl chloride	3.75	3.58	3.62	95.5	96.5	70.0-130			1.11	25
Vinyl Bromide	3.75	3.59	3.66	95.7	97.6	70.0-130			1.93	25
Vinyl acetate	3.75	4.05	4.03	108	107	70.0-130			0.495	25
Xylenes, Total	11.3	11.4	11.6	101	103	70.0-130			1.74	25
m&p-Xylene	7.50	7.53	7.80	100	104	70.0-130			3.52	25
o-Xylene	3.75	3.90	3.81	104	102	70.0-130			2.33	25
(S) 1,4-Bromofluorobenzene				*97.9*	*97.3*	*60.0-140*				

Method Blank (MB)

(MB) R4065178-3 05/02/24 09:49

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
n-Hexane	U		0.206	0.630
Tetrachloroethylene	U		0.0814	0.200
Toluene	U		0.0870	0.500
(S) 1,4-Bromofluorobenzene	*91.7*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4065178-1 05/02/24 08:47 • (LCSD) R4065178-2 05/02/24 09:19

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
n-Hexane	3.75	3.80	3.76	101	100	70.0-130			1.06	25
Tetrachloroethylene	3.75	3.80	3.69	101	98.4	70.0-130			2.94	25
Toluene	3.75	3.68	3.65	98.1	97.3	70.0-130			0.819	25
(S) 1,4-Bromofluorobenzene				*100*	*101*	*60.0-140*				

Method Blank (MB)

(MB) R4065813-3 05/03/24 11:07

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
Ethanol	U		0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Ethyl acetate	U		0.100	0.630
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200

Method Blank (MB)

(MB) R4065813-3 05/03/24 11:07

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	U		0.0932	1.25
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.630
Xylenes, Total	U		0.135	0.600
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	*94.6*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4065813-1 05/03/24 09:48 • (LCSD) R4065813-2 05/03/24 10:28

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	4.11	4.19	110	112	70.0-130			1.93	25
Benzene	3.75	4.39	4.41	117	118	70.0-130			0.455	25
Benzyl Chloride	3.75	4.28	4.28	114	114	70.0-152			0.000	25
Bromodichloromethane	3.75	4.35	4.33	116	115	70.0-130			0.461	25
Bromoform	3.75	4.42	4.41	118	118	70.0-130			0.227	25
Bromomethane	3.75	4.50	4.54	120	121	70.0-130			0.885	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4065813-1 05/03/24 09:48 • (LCSD) R4065813-2 05/03/24 10:28

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,3-Butadiene	3.75	4.38	4.32	117	115	70.0-130			1.38	25
Carbon disulfide	3.75	4.36	4.38	116	117	70.0-130			0.458	25
Carbon tetrachloride	3.75	4.32	4.32	115	115	70.0-130			0.000	25
Chlorobenzene	3.75	4.46	4.47	119	119	70.0-130			0.224	25
Chloroethane	3.75	4.30	4.27	115	114	70.0-130			0.700	25
Chloroform	3.75	4.32	4.36	115	116	70.0-130			0.922	25
Chloromethane	3.75	4.43	4.43	118	118	70.0-130			0.000	25
Cyclohexane	3.75	4.26	4.31	114	115	70.0-130			1.17	25
Dibromochloromethane	3.75	4.36	4.35	116	116	70.0-130			0.230	25
1,2-Dibromoethane	3.75	4.45	4.43	119	118	70.0-130			0.450	25
1,2-Dichlorobenzene	3.75	4.47	4.49	119	120	70.0-130			0.446	25
1,3-Dichlorobenzene	3.75	4.48	4.49	119	120	70.0-130			0.223	25
1,4-Dichlorobenzene	3.75	4.43	4.47	118	119	70.0-130			0.899	25
1,2-Dichloroethane	3.75	4.26	4.25	114	113	70.0-130			0.235	25
1,1-Dichloroethane	3.75	4.33	4.37	115	117	70.0-130			0.920	25
1,1-Dichloroethene	3.75	4.25	4.28	113	114	70.0-130			0.703	25
cis-1,2-Dichloroethene	3.75	4.31	4.31	115	115	70.0-130			0.000	25
trans-1,2-Dichloroethene	3.75	4.23	4.26	113	114	70.0-130			0.707	25
1,2-Dichloropropane	3.75	4.35	4.36	116	116	70.0-130			0.230	25
cis-1,3-Dichloropropene	3.75	4.32	4.39	115	117	70.0-130			1.61	25
trans-1,3-Dichloropropene	3.75	4.29	4.33	114	115	70.0-130			0.928	25
Ethanol	3.75	3.75	3.79	100	101	55.0-148			1.06	25
Ethylbenzene	3.75	4.38	4.39	117	117	70.0-130			0.228	25
4-Ethyltoluene	3.75	4.47	4.47	119	119	70.0-130			0.000	25
Ethyl acetate	3.75	4.19	4.17	112	111	70.0-130			0.478	25
Trichlorofluoromethane	3.75	4.35	4.37	116	117	70.0-130			0.459	25
Dichlorodifluoromethane	3.75	4.53	4.14	121	110	64.0-139			9.00	25
1,1,2-Trichlorotrifluoroethane	3.75	4.35	4.39	116	117	70.0-130			0.915	25
1,2-Dichlorotetrafluoroethane	3.75	4.48	4.52	119	121	70.0-130			0.889	25
Heptane	3.75	4.25	4.29	113	114	70.0-130			0.937	25
Hexachloro-1,3-butadiene	3.75	4.43	4.47	118	119	70.0-151			0.899	25
n-Hexane	3.75	4.23	4.28	113	114	70.0-130			1.18	25
Isopropylbenzene	3.75	4.44	4.45	118	119	70.0-130			0.225	25
Methylene Chloride	3.75	4.21	4.23	112	113	70.0-130			0.474	25
Methyl Butyl Ketone	3.75	4.14	4.13	110	110	70.0-149			0.242	25
2-Butanone (MEK)	3.75	4.28	4.29	114	114	70.0-130			0.233	25
4-Methyl-2-pentanone (MIBK)	3.75	4.29	4.27	114	114	70.0-139			0.467	25
Methyl methacrylate	3.75	4.23	4.22	113	113	70.0-130			0.237	25
MTBE	3.75	4.30	4.28	115	114	70.0-130			0.466	25
Naphthalene	3.75	4.21	4.33	112	115	70.0-159			2.81	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4065813-1 05/03/24 09:48 • (LCSD) R4065813-2 05/03/24 10:28

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2-Propanol	3.75	4.32	4.30	115	115	70.0-139			0.464	25
Propene	3.75	4.12	4.15	110	111	64.0-144			0.726	25
Styrene	3.75	4.35	4.37	116	117	70.0-130			0.459	25
1,1,2,2-Tetrachloroethane	3.75	4.44	4.44	118	118	70.0-130			0.000	25
Tetrachloroethylene	3.75	4.47	4.52	119	121	70.0-130			1.11	25
Tetrahydrofuran	3.75	4.26	4.25	114	113	70.0-137			0.235	25
Toluene	3.75	4.37	4.37	117	117	70.0-130			0.000	25
1,2,4-Trichlorobenzene	3.75	4.12	4.27	110	114	70.0-160			3.58	25
1,1,1-Trichloroethane	3.75	4.28	4.35	114	116	70.0-130			1.62	25
1,1,2-Trichloroethane	3.75	4.42	4.39	118	117	70.0-130			0.681	25
Trichloroethylene	3.75	4.37	4.40	117	117	70.0-130			0.684	25
1,2,4-Trimethylbenzene	3.75	4.42	4.45	118	119	70.0-130			0.676	25
1,3,5-Trimethylbenzene	3.75	4.50	4.50	120	120	70.0-130			0.000	25
2,2,4-Trimethylpentane	3.75	4.30	4.33	115	115	70.0-130			0.695	25
Vinyl chloride	3.75	4.63	4.67	123	125	70.0-130			0.860	25
Vinyl Bromide	3.75	4.36	4.33	116	115	70.0-130			0.690	25
Vinyl acetate	3.75	4.05	3.91	108	104	70.0-130			3.52	25
Xylenes, Total	11.3	13.1	13.2	116	117	70.0-130			0.760	25
m&p-Xylene	7.50	8.79	8.85	117	118	70.0-130			0.680	25
o-Xylene	3.75	4.35	4.38	116	117	70.0-130			0.687	25
(S) 1,4-Bromofluorobenzene				*96.3*	*96.7*	*60.0-140*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Docusign Envelope ID: 8736B9F2-08F1-4966-B8AD-EAFEC4C33200

L-203

Pace® Location Requested (City/State):

Air CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY

Sample Receipt Checklist
COC Seal Present/Intact: Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Unused:
Size: 1L 6L 1.4L
Tage Color: G W P B
Tubing Shunt
T/P#:

Company Name: **Soil & Materials Engineeers**	Contact/Report To: **Mitch Cline**
Street Address: **11800 Exit 5 Parkway, Suite 106 Fishers, IN 46037**	Phone #: **317-876-0200**
	E-Mail: **mitch.cline@sme-usa.com;debbie.sherwood@sme-usa.com:amanda.mccartv@sme-usa.com**
City, State Zip:	Cc E-Mail:
Customer Project #: **089758.00.03B.005**	Invoice to:
Project Name: **1400 Blk S Hoyt Phase II**	Invoice E-Mail:
Site Collection Info/Facility ID (as applicable): **SOIMATIIN-08975800 MUNCIE, IN**	Purchase Order # (if applicable):
	Quote #:
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET	State origin of sample(s): Indiana

Field Information

Analyses Requested

TY 4/19/24

Proj. Manager: **4089 - Andi R Jones**

AcctNum / Client ID: **SOIMATIIN**

Table #:

Profile / Template: **T251209**

Prelog / Bottle Ord. ID: **P1069625**

Lab Use Only

Data Deliverables:
[ ] Level II [ ] Level III [X] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (CAA, RCRA, etc.) as applicable:

Rush (Pre-approval required): 2 Day 3 day 5 day Other

Permit # as applicable:

Date Results Requested: standard

Units for Reporting: (ug/m³) PPBV mg/m³ PPMV

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection Date	Begin Collection Time	End Collection Date	End Collection Time	Canister Pressure / Vacuum: Start Pressure / Vacuum (in Hg)	Canister Pressure / Vacuum: End Pressure / Vacuum (in Hg)	PUF / FILTER: Duration (minutes)	PUF / FILTER: Flow Rate m³/min or L/min	PUF / FILTER: Total Volume Sampled m³ or L	TO-15 Summa				Sample Comment
SG3	SV	22364	21056	4/29	1200	4/29	1204	-26	-4	4	L/min	1L	X				L1731355-01
SG2	SV	22382	20846	4/29	1246	4/29	1254	-27.5	-4	8	L/min	1L	X				02
SG1	SV	22060	20972	4/29	1333	4/29	1337	-24	-4	4	L/min	1L	X				03
SG - DUP1	SV	07974	21782	4/29	[redacted]	4/29	[redacted]	-25	-4	4	L/min	1L	X				04
					am		am										

Customer Remarks / Special Conditions / Possible Hazards:

Collected By:
Printed Name: Amanda McCarty
Signature:

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Amanda McCarty ISME	4/29/24 1600			
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: In- Person Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: Cont-4 AmB	FedEX UPS Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 5/1/24 0900	Page: 1 of: 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ANALYTICAL REPORT

May 08, 2024

Soil & Materials Engineeers

Sample Delivery Group:	L1731355
Samples Received:	05/01/2024
Project Number:	089758.00.03B.005
Description:	1400 Blk S Hoyt Phase II
Site:	MUNCIE, IN
Report To:	Mitch Cline 11800 Exit 5 Parkway, Suite 106 Fishers, IN 46037

Entire Report Reviewed By:

Andi R Jones
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

SG3 L1731355-01 Air

Collected by: Amanda McCarty
Collected date/time: 04/29/24 12:04
Received date/time: 05/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2278229	1	05/02/24 03:51	05/02/24 03:51	MNP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2278934	10	05/02/24 17:49	05/02/24 17:49	GH	Mt. Juliet, TN

SG2 L1731355-02 Air

Collected by: Amanda McCarty
Collected date/time: 04/29/24 12:54
Received date/time: 05/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2278229	1	05/02/24 04:34	05/02/24 04:34	MNP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2279821	10	05/03/24 14:44	05/03/24 14:44	GH	Mt. Juliet, TN

SG1 L1731355-03 Air

Collected by: Amanda McCarty
Collected date/time: 04/29/24 13:37
Received date/time: 05/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2279821	100	05/04/24 03:13	05/04/24 03:13	GH	Mt. Juliet, TN

SG-DUP 1 L1731355-04 Air

Collected by: Amanda McCarty
Collected date/time: 04/29/24 00:00
Received date/time: 05/01/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2279821	100	05/04/24 03:51	05/04/24 03:51	GH	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Andi R Jones
Project Manager

Report Revision History

Level II Report - Version 1: 05/08/24 11:47

TO-15 Volatile Organic Compounds (MS)

2A-OR SURROGATE RECOVERY

Analytical Method: TO-15 **SDG:** L1731355
Matrix: Air

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 *% Rec.*	TOT Out
SG3	L1731355-01	AIRMS13	0501_25	107	0
SG3	L1731355-01	AIRMS8	0502_14	98.4	0
SG2	L1731355-02	AIRMS13	0501_26	107	0
SG2	L1731355-02	AIRMS16	0503_05	97.3	0
SG1	L1731355-03	AIRMS16	0503_24	95.9	0
SG-DUP 1	L1731355-04	AIRMS16	0503_25	96.6	0
BLANK	R4064812-3	AIRMS13	0501_04	100	0
BLANK	R4065813-3	AIRMS16	0503_04	94.6	0
BLANK	R4065178-3	AIRMS8	0502_04	91.7	0
LCS	R4064812-1	AIRMS13	0501_02	97.9	0
LCS	R4065813-1	AIRMS16	0503_02	96.3	0
LCS	R4065178-1	AIRMS8	0502_02	100	0
LCSD	R4064812-2	AIRMS13	0501_03	97.3	0
LCSD	R4065813-2	AIRMS16	0503_03	96.7	0
LCSD	R4065178-2	AIRMS8	0502_03	101	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	1,4-Bromofluorobenzene	60.0 - 140

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1731355-01,02

SAMPLE NO.:
R4064812-1
R4064812-2

LCS Sample / File ID:	R4064812-1 / 0501_02	**SDG:**	L1731355
LCSD Sample / File ID:	R4064812-2 / 0501_03	**Analytical Batch:**	WG2278229
Instrument ID:	AIRMS13	**Dilution Factor:**	1
Analytical Method:	TO-15	**Matrix:**	Air

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	ppbv	*ppbv*	*ppbv*	*%*	*%*	*%*	*%*	*%*
Acetone	3.75	3.79	3.81	101	102	70.0 - 130	0.526	25
Benzene	3.75	3.62	3.64	96.5	97.1	70.0 - 130	0.551	25
Benzyl Chloride	3.75	3.83	3.76	102	100	70.0 - 152	1.84	25
Bromodichloromethane	3.75	3.51	3.66	93.6	97.6	70.0 - 130	4.18	25
Bromoform	3.75	3.47	3.48	92.5	92.8	70.0 - 130	0.288	25
Bromomethane	3.75	3.42	3.47	91.2	92.5	70.0 - 130	1.45	25
1,3-Butadiene	3.75	3.83	3.84	102	102	70.0 - 130	0.261	25
Carbon disulfide	3.75	3.47	3.52	92.5	93.9	70.0 - 130	1.43	25
Carbon tetrachloride	3.75	3.53	3.58	94.1	95.5	70.0 - 130	1.41	25
Chlorobenzene	3.75	3.36	3.48	89.6	92.8	70.0 - 130	3.51	25
Chloroethane	3.75	3.54	3.53	94.4	94.1	70.0 - 130	0.283	25
Chloroform	3.75	3.53	3.62	94.1	96.5	70.0 - 130	2.52	25
Chloromethane	3.75	3.64	3.66	97.1	97.6	70.0 - 130	0.548	25
Cyclohexane	3.75	3.91	3.94	104	105	70.0 - 130	0.764	25
Dibromochloromethane	3.75	3.37	3.49	89.9	93.1	70.0 - 130	3.50	25
1,2-Dibromoethane	3.75	3.53	3.59	94.1	95.7	70.0 - 130	1.69	25
1,2-Dichlorobenzene	3.75	3.57	3.63	95.2	96.8	70.0 - 130	1.67	25
1,3-Dichlorobenzene	3.75	3.58	3.55	95.5	94.7	70.0 - 130	0.842	25
1,4-Dichlorobenzene	3.75	3.66	3.67	97.6	97.9	70.0 - 130	0.273	25
1,2-Dichloroethane	3.75	3.49	3.48	93.1	92.8	70.0 - 130	0.287	25
1,1-Dichloroethane	3.75	3.66	3.71	97.6	98.9	70.0 - 130	1.36	25
1,1-Dichloroethene	3.75	3.51	3.52	93.6	93.9	70.0 - 130	0.284	25
cis-1,2-Dichloroethene	3.75	3.80	3.80	101	101	70.0 - 130	0.000	25
trans-1,2-Dichloroethene	3.75	3.71	3.75	98.9	100	70.0 - 130	1.07	25
1,2-Dichloropropane	3.75	3.74	3.65	99.7	97.3	70.0 - 130	2.44	25
cis-1,3-Dichloropropene	3.75	3.94	3.92	105	105	70.0 - 130	0.509	25
trans-1,3-Dichloropropene	3.75	3.65	3.61	97.3	96.3	70.0 - 130	1.10	25
Ethanol	3.75	3.78	3.53	101	94.1	55.0 - 148	6.84	25
Ethylbenzene	3.75	3.59	3.74	95.7	99.7	70.0 - 130	4.09	25
4-Ethyltoluene	3.75	3.79	3.86	101	103	70.0 - 130	1.83	25
Ethyl acetate	3.75	3.74	3.67	99.7	97.9	70.0 - 130	1.89	25
Trichlorofluoromethane	3.75	3.45	3.54	92.0	94.4	70.0 - 130	2.58	25
Dichlorodifluoromethane	3.75	3.71	3.83	98.9	102	64.0 - 139	3.18	25
1,1,2-Trichlorotrifluoroethane	3.75	3.37	3.40	89.9	90.7	70.0 - 130	0.886	25
1,2-Dichlorotetrafluoroethane	3.75	3.60	3.61	96.0	96.3	70.0 - 130	0.277	25
Heptane	3.75	3.80	3.78	101	101	70.0 - 130	0.528	25
Hexachloro-1,3-butadiene	3.75	3.49	3.56	93.1	94.9	70.0 - 151	1.99	25
Isopropylbenzene	3.75	3.95	3.82	105	102	70.0 - 130	3.35	25
Methylene Chloride	3.75	3.55	3.63	94.7	96.8	70.0 - 130	2.23	25
Methyl Butyl Ketone	3.75	3.74	3.72	99.7	99.2	70.0 - 149	0.536	25
2-Butanone (MEK)	3.75	3.97	3.80	106	101	70.0 - 130	4.38	25
4-Methyl-2-pentanone (MIBK)	3.75	4.01	4.01	107	107	70.0 - 139	0.000	25

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1731355-01,02

SAMPLE NO.:
R4064812-1
R4064812-2

LCS Sample / File ID:	R4064812-1 / 0501_02	**SDG:**	L1731355
LCSD Sample / File ID:	R4064812-2 / 0501_03	**Analytical Batch:**	WG2278229
Instrument ID:	AIRMS13	**Dilution Factor:**	1
Analytical Method:	TO-15	**Matrix:**	Air

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	ppbv	*ppbv*	*ppbv*	*%*	*%*	*%*	*%*	*%*
Methyl methacrylate	3.75	3.80	3.75	101	100	70.0 - 130	1.32	25
MTBE	3.75	3.84	3.82	102	102	70.0 - 130	0.522	25
Naphthalene	3.75	3.87	3.91	103	104	70.0 - 159	1.03	25
2-Propanol	3.75	3.91	3.76	104	100	70.0 - 139	3.91	25
Propene	3.75	3.83	3.86	102	103	64.0 - 144	0.780	25
Styrene	3.75	3.94	3.74	105	99.7	70.0 - 130	5.21	25
1,1,2,2-Tetrachloroethane	3.75	3.57	3.64	95.2	97.1	70.0 - 130	1.94	25
Tetrahydrofuran	3.75	3.89	3.81	104	102	70.0 - 137	2.08	25
1,2,4-Trichlorobenzene	3.75	3.60	3.75	96.0	100	70.0 - 160	4.08	25
1,1,1-Trichloroethane	3.75	3.56	3.59	94.9	95.7	70.0 - 130	0.839	25
1,1,2-Trichloroethane	3.75	3.42	3.47	91.2	92.5	70.0 - 130	1.45	25
Trichloroethylene	3.75	3.72	3.70	99.2	98.7	70.0 - 130	0.539	25
1,2,4-Trimethylbenzene	3.75	3.96	3.95	106	105	70.0 - 130	0.253	25
1,3,5-Trimethylbenzene	3.75	3.78	3.88	101	103	70.0 - 130	2.61	25
2,2,4-Trimethylpentane	3.75	3.80	3.91	101	104	70.0 - 130	2.85	25
Vinyl chloride	3.75	3.58	3.62	95.5	96.5	70.0 - 130	1.11	25
Vinyl Bromide	3.75	3.59	3.66	95.7	97.6	70.0 - 130	1.93	25
Vinyl acetate	3.75	4.05	4.03	108	107	70.0 - 130	0.495	25
Xylenes, Total	11.3	11.4	11.6	101	103	70.0 - 130	1.74	25
m&p-Xylene	7.50	7.53	7.80	100	104	70.0 - 130	3.52	25
o-Xylene	3.75	3.90	3.81	104	102	70.0 - 130	2.33	25

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1731355-01

SAMPLE NO.:
R4065178-1
R4065178-2

LCS Sample / File ID:	R4065178-1 / 0502_02	**SDG:**	L1731355
LCSD Sample / File ID:	R4065178-2 / 0502_03	**Analytical Batch:**	WG2278934
Instrument ID:	AIRMS8	**Dilution Factor:**	1
Analytical Method:	TO-15	**Matrix:**	Air

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	ppbv	*ppbv*	*ppbv*	*%*	*%*	*%*	*%*	*%*
n-Hexane	3.75	3.80	3.76	101	100	70.0 - 130	1.06	25
Tetrachloroethylene	3.75	3.80	3.69	101	98.4	70.0 - 130	2.94	25
Toluene	3.75	3.68	3.65	98.1	97.3	70.0 - 130	0.819	25

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1731355-02,03,04

SAMPLE NO.:
R4065813-1
R4065813-2

LCS Sample / File ID:	R4065813-1 / 0503_02	**SDG:**	L1731355
LCSD Sample / File ID:	R4065813-2 / 0503_03	**Analytical Batch:**	WG2279821
Instrument ID:	AIRMS16	**Dilution Factor:**	1
Analytical Method:	TO-15	**Matrix:**	Air

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	ppbv	*ppbv*	*ppbv*	*%*	*%*	*%*	*%*	*%*
Acetone	3.75	4.11	4.19	110	112	70.0 - 130	1.93	25
Benzene	3.75	4.39	4.41	117	118	70.0 - 130	0.455	25
Benzyl Chloride	3.75	4.28	4.28	114	114	70.0 - 152	0.000	25
Bromodichloromethane	3.75	4.35	4.33	116	115	70.0 - 130	0.461	25
Bromoform	3.75	4.42	4.41	118	118	70.0 - 130	0.227	25
Bromomethane	3.75	4.50	4.54	120	121	70.0 - 130	0.885	25
1,3-Butadiene	3.75	4.38	4.32	117	115	70.0 - 130	1.38	25
Carbon disulfide	3.75	4.36	4.38	116	117	70.0 - 130	0.458	25
Carbon tetrachloride	3.75	4.32	4.32	115	115	70.0 - 130	0.000	25
Chlorobenzene	3.75	4.46	4.47	119	119	70.0 - 130	0.224	25
Chloroethane	3.75	4.30	4.27	115	114	70.0 - 130	0.700	25
Chloroform	3.75	4.32	4.36	115	116	70.0 - 130	0.922	25
Chloromethane	3.75	4.43	4.43	118	118	70.0 - 130	0.000	25
Cyclohexane	3.75	4.26	4.31	114	115	70.0 - 130	1.17	25
Dibromochloromethane	3.75	4.36	4.35	116	116	70.0 - 130	0.230	25
1,2-Dibromoethane	3.75	4.45	4.43	119	118	70.0 - 130	0.450	25
1,2-Dichlorobenzene	3.75	4.47	4.49	119	120	70.0 - 130	0.446	25
1,3-Dichlorobenzene	3.75	4.48	4.49	119	120	70.0 - 130	0.223	25
1,4-Dichlorobenzene	3.75	4.43	4.47	118	119	70.0 - 130	0.899	25
1,2-Dichloroethane	3.75	4.26	4.25	114	113	70.0 - 130	0.235	25
1,1-Dichloroethane	3.75	4.33	4.37	115	117	70.0 - 130	0.920	25
1,1-Dichloroethene	3.75	4.25	4.28	113	114	70.0 - 130	0.703	25
cis-1,2-Dichloroethene	3.75	4.31	4.31	115	115	70.0 - 130	0.000	25
trans-1,2-Dichloroethene	3.75	4.23	4.26	113	114	70.0 - 130	0.707	25
1,2-Dichloropropane	3.75	4.35	4.36	116	116	70.0 - 130	0.230	25
cis-1,3-Dichloropropene	3.75	4.32	4.39	115	117	70.0 - 130	1.61	25
trans-1,3-Dichloropropene	3.75	4.29	4.33	114	115	70.0 - 130	0.928	25
Ethanol	3.75	3.75	3.79	100	101	55.0 - 148	1.06	25
Ethylbenzene	3.75	4.38	4.39	117	117	70.0 - 130	0.228	25
4-Ethyltoluene	3.75	4.47	4.47	119	119	70.0 - 130	0.000	25
Ethyl acetate	3.75	4.19	4.17	112	111	70.0 - 130	0.478	25
Trichlorofluoromethane	3.75	4.35	4.37	116	117	70.0 - 130	0.459	25
Dichlorodifluoromethane	3.75	4.53	4.14	121	110	64.0 - 139	9.00	25
1,1,2-Trichlorotrifluoroethane	3.75	4.35	4.39	116	117	70.0 - 130	0.915	25
1,2-Dichlorotetrafluoroethane	3.75	4.48	4.52	119	121	70.0 - 130	0.889	25
Heptane	3.75	4.25	4.29	113	114	70.0 - 130	0.937	25
Hexachloro-1,3-butadiene	3.75	4.43	4.47	118	119	70.0 - 151	0.899	25
n-Hexane	3.75	4.23	4.28	113	114	70.0 - 130	1.18	25
Isopropylbenzene	3.75	4.44	4.45	118	119	70.0 - 130	0.225	25
Methylene Chloride	3.75	4.21	4.23	112	113	70.0 - 130	0.474	25
Methyl Butyl Ketone	3.75	4.14	4.13	110	110	70.0 - 149	0.242	25
2-Butanone (MEK)	3.75	4.28	4.29	114	114	70.0 - 130	0.233	25

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1731355-02,03,04

SAMPLE NO.:
R4065813-1
R4065813-2

LCS Sample / File ID:	R4065813-1 / 0503_02	**SDG:**	L1731355
LCSD Sample / File ID:	R4065813-2 / 0503_03	**Analytical Batch:**	WG2279821
Instrument ID:	AIRMS16	**Dilution Factor:**	1
Analytical Method:	TO-15	**Matrix:**	Air

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	ppbv	*ppbv*	*ppbv*	*%*	*%*	*%*	*%*	*%*
4-Methyl-2-pentanone (MIBK)	3.75	4.29	4.27	114	114	70.0 - 139	0.467	25
Methyl methacrylate	3.75	4.23	4.22	113	113	70.0 - 130	0.237	25
MTBE	3.75	4.30	4.28	115	114	70.0 - 130	0.466	25
Naphthalene	3.75	4.21	4.33	112	115	70.0 - 159	2.81	25
2-Propanol	3.75	4.32	4.30	115	115	70.0 - 139	0.464	25
Propene	3.75	4.12	4.15	110	111	64.0 - 144	0.726	25
Styrene	3.75	4.35	4.37	116	117	70.0 - 130	0.459	25
1,1,2,2-Tetrachloroethane	3.75	4.44	4.44	118	118	70.0 - 130	0.000	25
Tetrachloroethylene	3.75	4.47	4.52	119	121	70.0 - 130	1.11	25
Tetrahydrofuran	3.75	4.26	4.25	114	113	70.0 - 137	0.235	25
Toluene	3.75	4.37	4.37	117	117	70.0 - 130	0.000	25
1,2,4-Trichlorobenzene	3.75	4.12	4.27	110	114	70.0 - 160	3.58	25
1,1,1-Trichloroethane	3.75	4.28	4.35	114	116	70.0 - 130	1.62	25
1,1,2-Trichloroethane	3.75	4.42	4.39	118	117	70.0 - 130	0.681	25
Trichloroethylene	3.75	4.37	4.40	117	117	70.0 - 130	0.684	25
1,2,4-Trimethylbenzene	3.75	4.42	4.45	118	119	70.0 - 130	0.676	25
1,3,5-Trimethylbenzene	3.75	4.50	4.50	120	120	70.0 - 130	0.000	25
2,2,4-Trimethylpentane	3.75	4.30	4.33	115	115	70.0 - 130	0.695	25
Vinyl chloride	3.75	4.63	4.67	123	125	70.0 - 130	0.860	25
Vinyl Bromide	3.75	4.36	4.33	116	115	70.0 - 130	0.690	25
Vinyl acetate	3.75	4.05	3.91	108	104	70.0 - 130	3.52	25
Xylenes, Total	11.3	13.1	13.2	116	117	70.0 - 130	0.760	25
m&p-Xylene	7.50	8.79	8.85	117	118	70.0 - 130	0.680	25
o-Xylene	3.75	4.35	4.38	116	117	70.0 - 130	0.687	25

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

4A-OR

METHOD BLANK

SAMPLE NO.:
R4064812-3

Lab Sample ID:	R4064812-3	**SDG:**	L1731355
Lab File ID:	0501_04	**Preparation Date/Time:**	05/01/24 10:27
Instrument ID:	AIRMS13	**Analysis Date/Time:**	05/01/24 10:27
Analytical Batch:	WG2278229	**Dilution Factor:**	1
Analytical Method:	TO-15	**Matrix:**	Air

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R4064812-1	AIRMS13	0501_02	05/01/24 09:01
LCSD	R4064812-2	AIRMS13	0501_03	05/01/24 09:44
SG3	L1731355-01	AIRMS13	0501_25	05/02/24 03:51
SG2	L1731355-02	AIRMS13	0501_26	05/02/24 04:34

Lab Sample ID:	R4065813-3	**SDG:**	L1731355
Lab File ID:	0503_04	**Preparation Date/Time:**	05/03/24 11:07
Instrument ID:	AIRMS16	**Analysis Date/Time:**	05/03/24 11:07
Analytical Batch:	WG2279821	**Dilution Factor:**	1
Analytical Method:	TO-15	**Matrix:**	Air

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R4065813-1	AIRMS16	0503_02	05/03/24 09:48
LCSD	R4065813-2	AIRMS16	0503_03	05/03/24 10:28
SG2	L1731355-02	AIRMS16	0503_05	05/03/24 14:44
SG1	L1731355-03	AIRMS16	0503_24	05/04/24 03:13
SG-DUP 1	L1731355-04	AIRMS16	0503_25	05/04/24 03:51

Sample Narrative:

Elevated RL due to sample matrix interference.

4A-OR

METHOD BLANK

SAMPLE NO.:
R4065178-3

Lab Sample ID:	R4065178-3	**SDG:**	L1731355
Lab File ID:	0502_04	**Preparation Date/Time:**	05/02/24 09:49
Instrument ID:	AIRMS8	**Analysis Date/Time:**	05/02/24 09:49
Analytical Batch:	WG2278934	**Dilution Factor:**	1
Analytical Method:	TO-15	**Matrix:**	Air

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R4065178-1	AIRMS8	0502_02	05/02/24 08:47
LCSD	R4065178-2	AIRMS8	0502_03	05/02/24 09:19
SG3	L1731355-01	AIRMS8	0502_14	05/02/24 17:49

Sample Narrative:

Elevated RL due to sample matrix interference.

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0426B_01	**SDG:**	L1731355
Instrument ID:	AIRMS8	**Analytical Method:**	TO-15
Analysis Date/Time:	04/26/24 16:01		

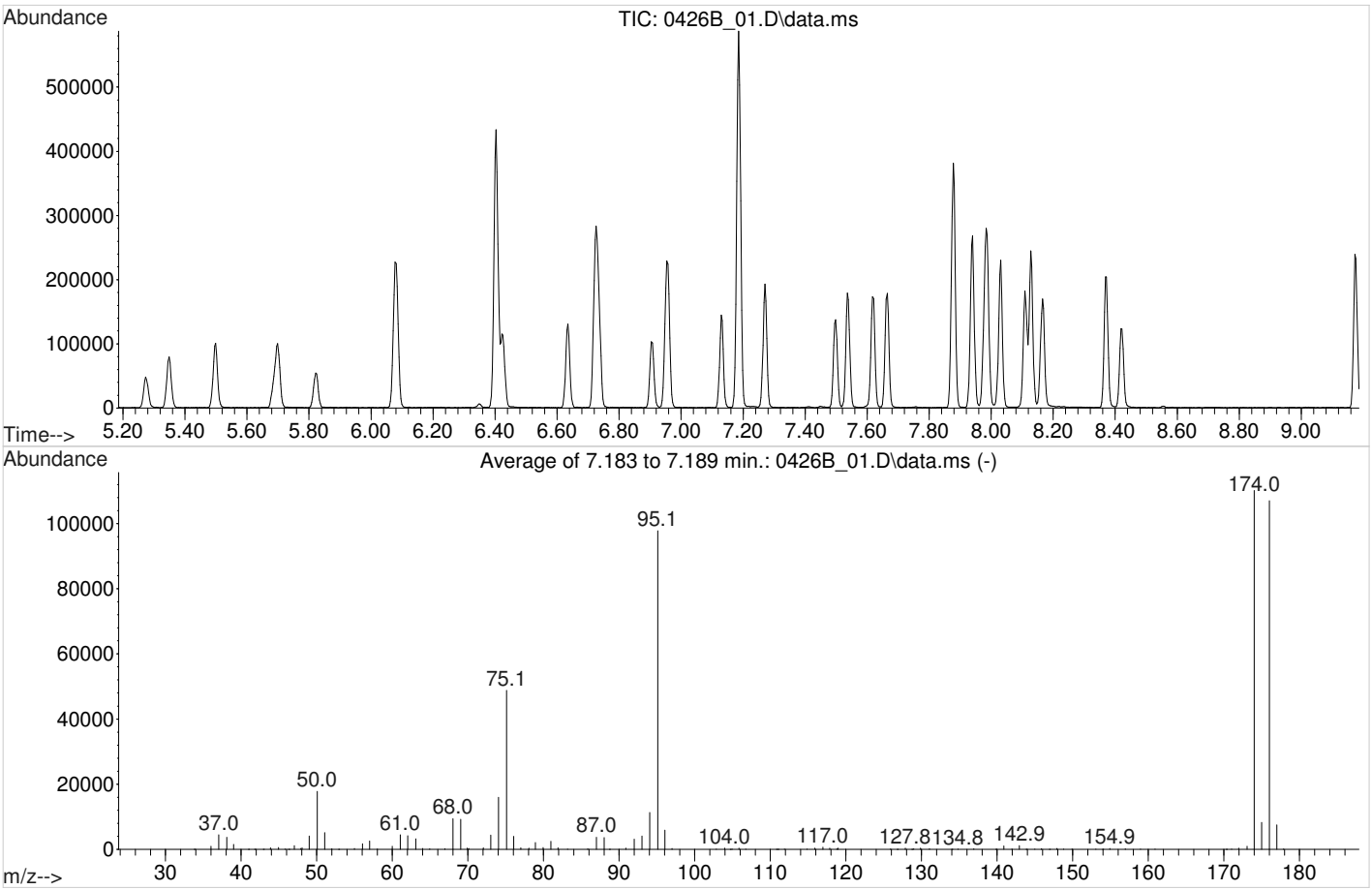
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
50	95	8	40	18
75	95	30	66	50
95	95	100	100	100
96	95	5	9	6
173	174	0	2	1
174	95	50	120	113
175	174	4	9	8
176	174	93	101	97
177	176	5	9	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-0.19	0.19	0426B_03	04/26/24 16:58
STD-0.31	0.31	0426B_04	04/26/24 17:26
STD-0.63	0.63	0426B_05	04/26/24 17:54
STD-1.25	1.25	0426B_06	04/26/24 18:22
STD-2.5	2.5	0426B_07	04/26/24 18:51
STD-3.75	3.75	0426B_08	04/26/24 19:23
STD-10.0	10.0	0426B_09	04/26/24 19:52
STD-25	25	0426B_10	04/26/24 20:22
STD-50	50	0426B_11	04/26/24 20:55
STD-100	100	0426B_12	04/26/24 21:35
SSCV	AIRMS8042624B0426B_14720243	0426B_14	04/26/24 22:39

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_01.D
Acq On : 26 Apr 2024 04:01 pm
Operator :
Sample : ICV AMS 3.75 ppbv 24D26988
Misc : 24D25866
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Title :
Last Update : Sat Apr 27 04:23:41 2024



Spectrum Information: Average of 7.183 to 7.189 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.2	17810	PASS
75	95	30	66	49.9	48763	PASS
95	95	100	100	100.0	97819	PASS
96	95	5	9	6.0	5911	PASS
173	174	0.00	2	0.8	930	PASS
174	95	50	120	112.6	110176	PASS
175	174	4	9	7.5	8296	PASS
176	174	93	101	97.2	107043	PASS
177	176	5	9	7.0	7522	PASS

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0502_01T	**SDG:**	L1731355
Instrument ID:	AIRMS8	**Analytical Method:**	TO-15
Analysis Date/Time:	05/02/24 08:15		

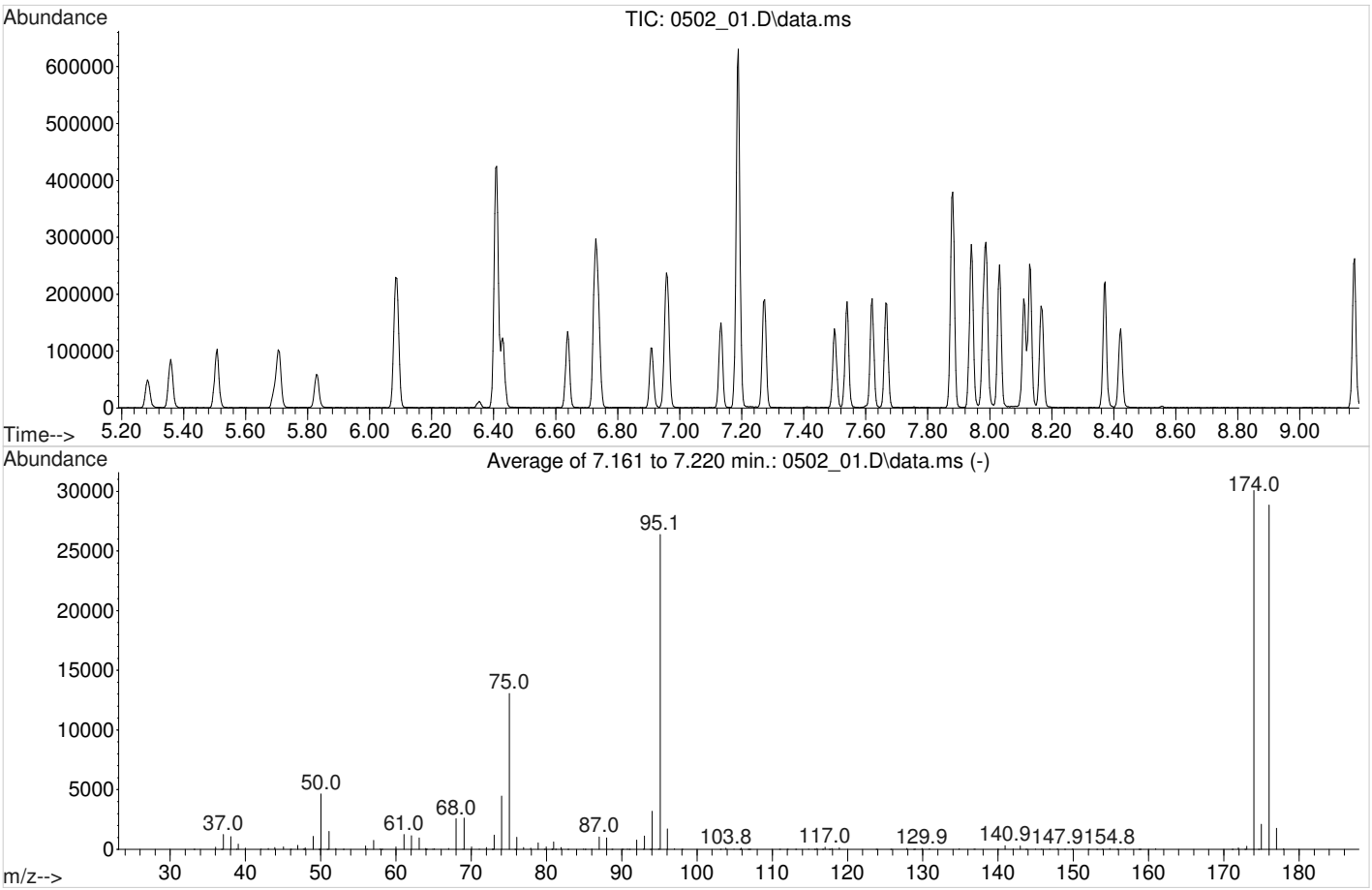
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
50	95	8	40	18
75	95	30	66	50
95	95	100	100	100
96	95	5	9	6
173	174	0	2	1
174	95	50	120	114
175	174	4	9	7
176	174	93	101	96
177	176	5	9	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	AIRMS80502240502_01720243	0502_01	05/02/24 08:15
LCS	R4065178-1	0502_02	05/02/24 08:47
LCSD	R4065178-2	0502_03	05/02/24 09:19
BLANK	R4065178-3	0502_04	05/02/24 09:49
SG3	L1731355-01	0502_14	05/02/24 17:49

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_01.D
Acq On : 02 May 2024 08:15 am
Operator :
Sample : ICV AMS 3.75 ppbv 24D26988
Misc : 24D25866
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Title :
Last Update : Sat Apr 27 10:43:03 2024



Spectrum Information: Average of 7.161 to 7.220 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.6	4638	PASS
75	95	30	66	49.5	13070	PASS
95	95	100	100	100.0	26391	PASS
96	95	5	9	6.5	1710	PASS
173	174	0.00	2	0.9	267	PASS
174	95	50	120	114.0	30074	PASS
175	174	4	9	7.0	2102	PASS
176	174	93	101	95.9	28855	PASS
177	176	5	9	6.1	1773	PASS

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID: 0430A_02
Instrument ID: AIRMS13
Analysis Date/Time: 04/30/24 15:43

SDG: L1731355
Analytical Method: TO-15

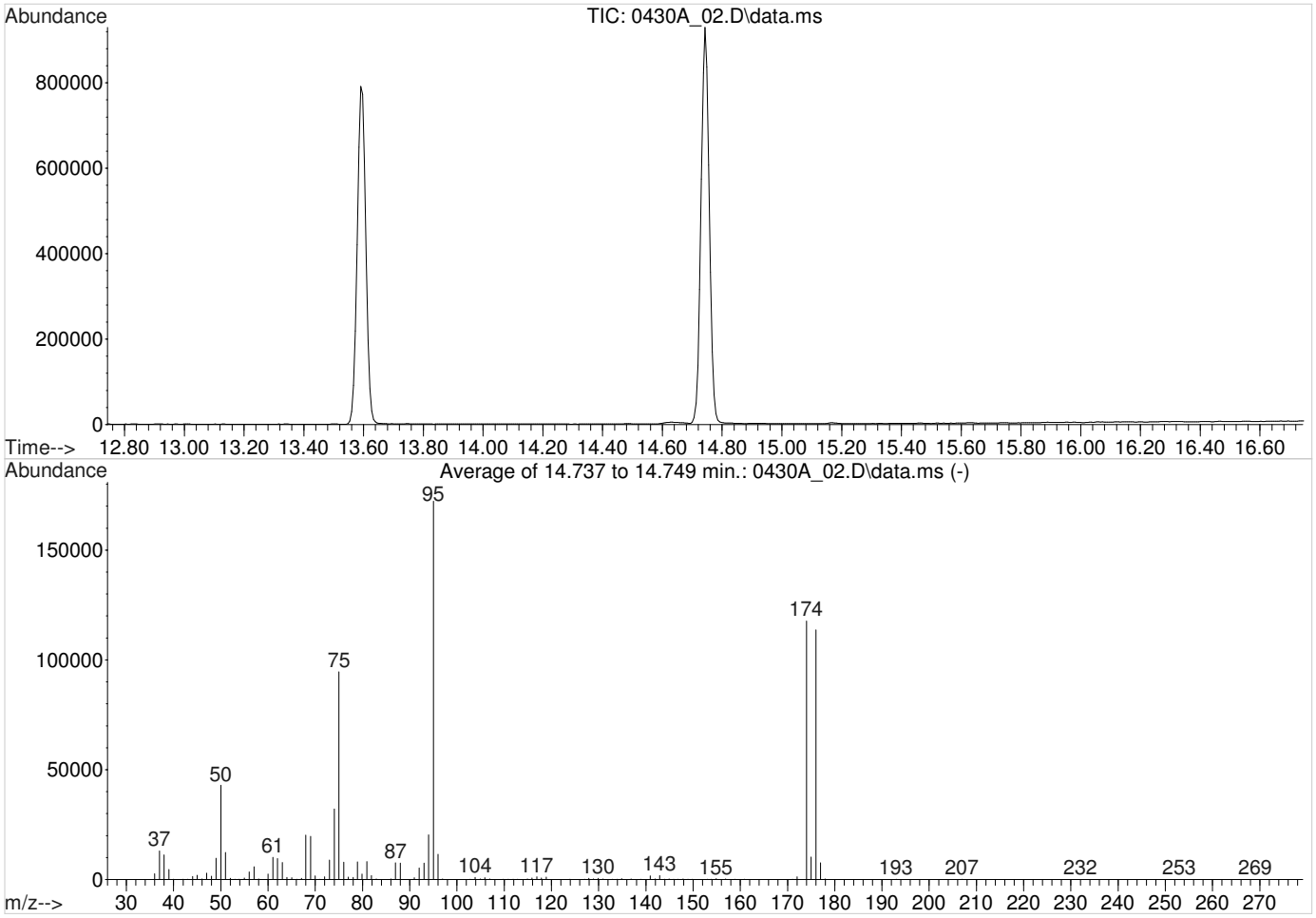
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
50	95	8	40	25
75	95	30	66	55
95	95	100	100	100
96	95	5	9	7
173	174	0	2	0
174	95	50	120	68
175	174	4	9	9
176	174	93	101	96
177	176	5	9	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-.19	.19	0430A_03	04/30/24 16:23
STD-.31	.31	0430A_04	04/30/24 17:04
STD-.63	.63	0430A_05	04/30/24 17:45
STD-1.25	1.25	0430A_06	04/30/24 18:26
STD-2.5	2.5	0430A_07	04/30/24 19:09
STD-3.75	3.75	0430A_08	04/30/24 19:52
STD-10	10	0430A_09	04/30/24 20:34
STD-25	25	0430A_10	04/30/24 21:16
STD-50	50	0430A_11	04/30/24 22:02
STD-100	100	0430A_12	04/30/24 22:51
SSCV	AIRMS13043024A0430A_14721112	0430A_14	05/01/24 00:18

```
Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_02.D
Acq On    : 30 Apr 2024   3:43 pm
Operator  :
Sample    : INSTBLK
Misc      : 24D29341
ALS Vial  : 2   Sample Multiplier: 1

Integration File: rteint.p

Method    : C:\msdchem\1\methods\TOAIRMS13D30X.M
Title     :
Last Update  : Thu Apr 25 08:52:19 2024
```



Spectrum Information: Average of 14.737 to 14.749 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.9	42899	PASS
75	95	30	66	54.9	94520	PASS
95	95	100	100	100.0	172245	PASS
96	95	5	9	6.6	11450	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	68.3	117712	PASS
175	174	4	9	8.7	10267	PASS
176	174	93	101	96.5	113648	PASS
177	176	5	9	6.7	7624	PASS

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0501_01T	**SDG:**	L1731355
Instrument ID:	AIRMS13	**Analytical Method:**	TO-15
Analysis Date/Time:	05/01/24 08:17		

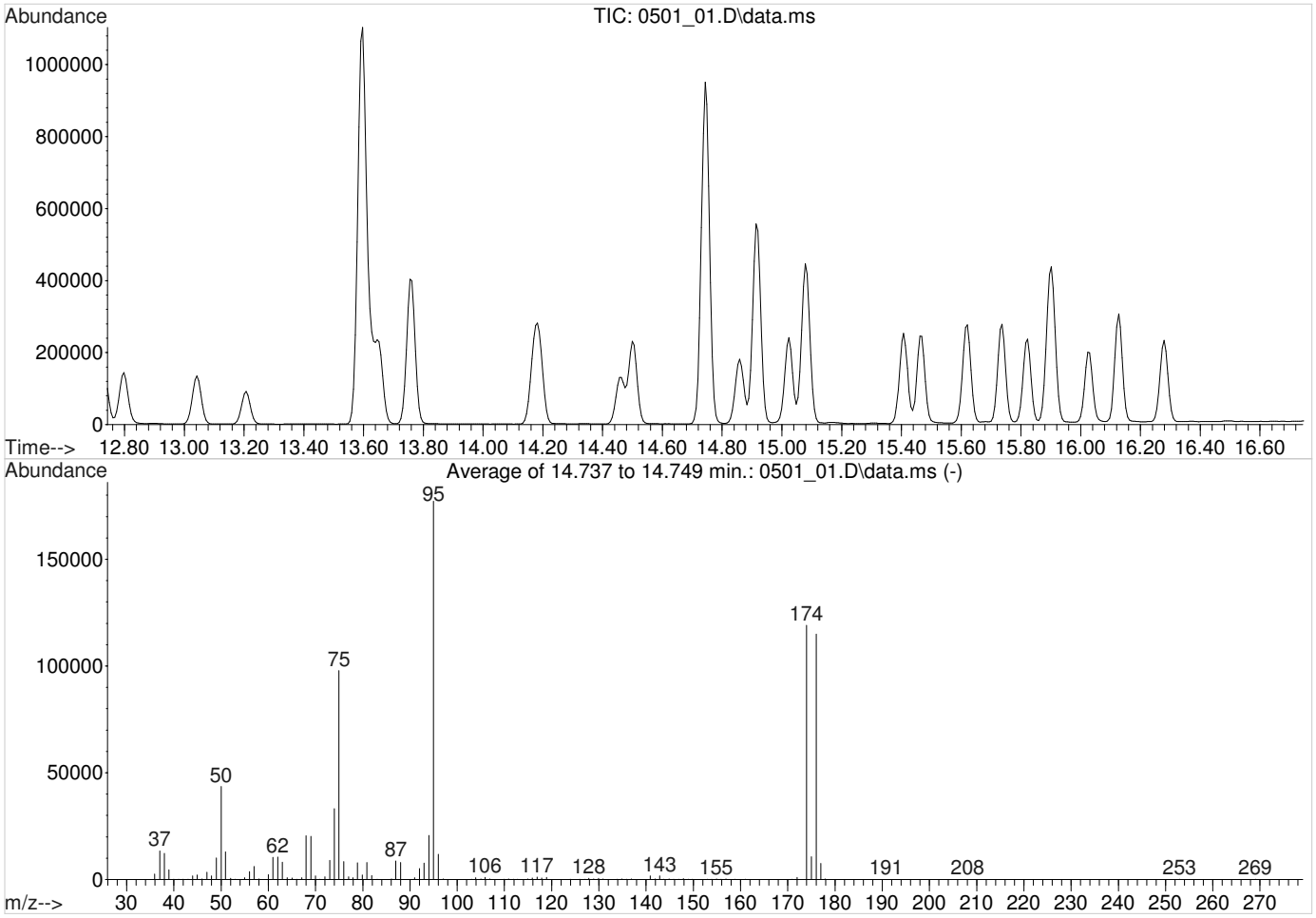
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
50	95	8	40	25
75	95	30	66	55
95	95	100	100	100
96	95	5	9	7
173	174	0	2	0
174	95	50	120	67
175	174	4	9	9
176	174	93	101	97
177	176	5	9	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	AIRMS130501240501_01721112	0501_01	05/01/24 08:17
LCS	R4064812-1	0501_02	05/01/24 09:01
LCSD	R4064812-2	0501_03	05/01/24 09:44
BLANK	R4064812-3	0501_04	05/01/24 10:27
SG3	L1731355-01	0501_25	05/02/24 03:51
SG2	L1731355-02	0501_26	05/02/24 04:34

```
Data Path : C:\msdchem\1\data\050124\
Data File : 0501_01.D
Acq On    :  1 May 2024   8:17 am
Operator  :
Sample    : ICV AMS 3.75 ppbv 24D28181
Misc      : 24D29341
ALS Vial  : 1   Sample Multiplier: 1

Integration File: rteint.p

Method    : C:\msdchem\1\methods\TOAIRMS13D30X.M
Title     :
Last Update  : Wed May 01 08:16:57 2024
```



Spectrum Information: Average of 14.737 to 14.749 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.6	43549	PASS
75	95	30	66	55.2	97899	PASS
95	95	100	100	100.0	177195	PASS
96	95	5	9	6.7	11789	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	67.2	119077	PASS
175	174	4	9	9.0	10707	PASS
176	174	93	101	96.6	115019	PASS
177	176	5	9	6.5	7503	PASS

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0426_02	**SDG:**	L1731355
Instrument ID:	AIRMS16	**Analytical Method:**	TO-15
Analysis Date/Time:	04/26/24 09:40		

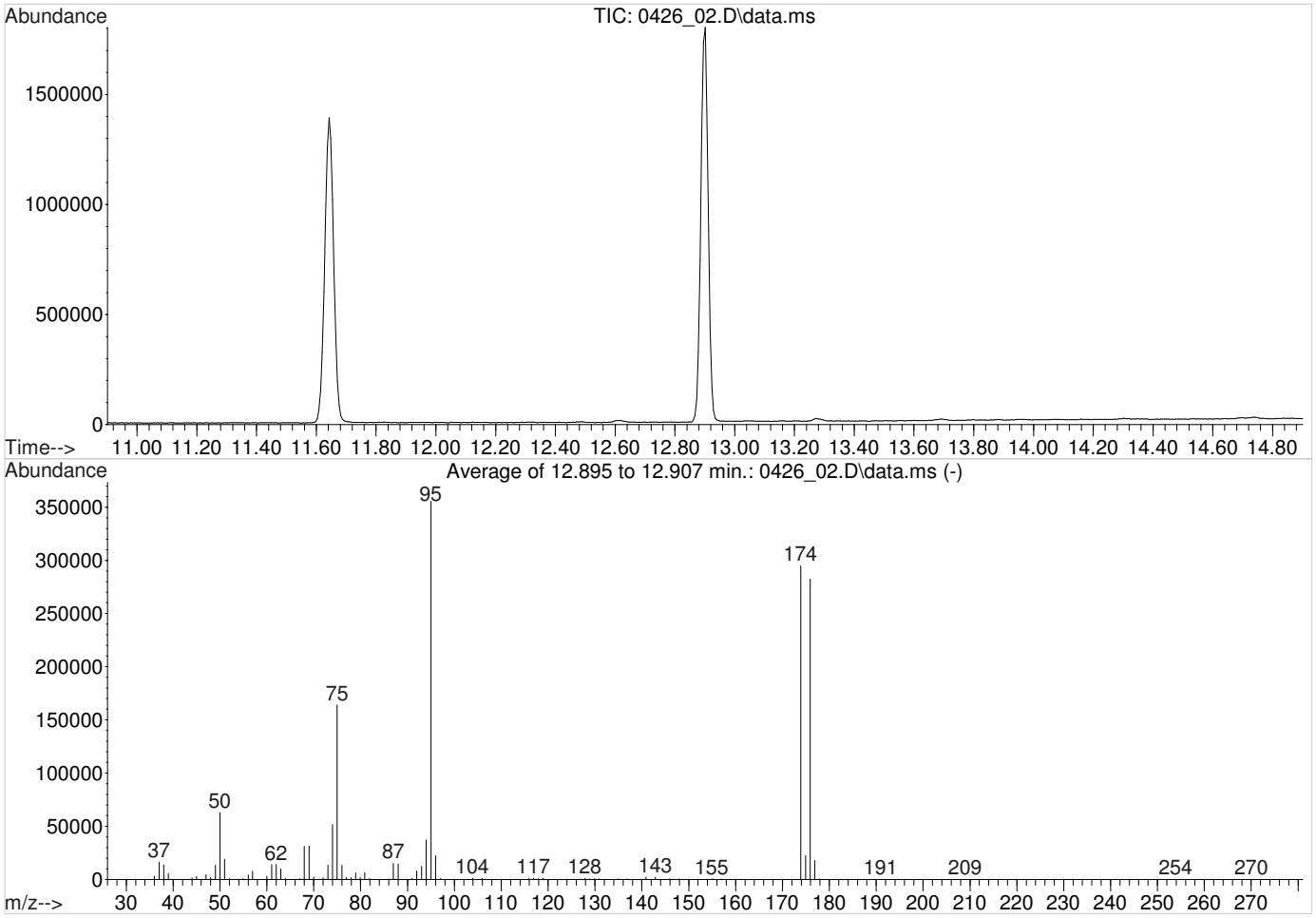
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
50	95	8	40	18
75	95	30	66	46
95	95	100	100	100
96	95	5	9	6
173	174	0	2	0
174	95	50	120	83
175	174	4	9	8
176	174	93	101	96
177	176	5	9	6

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-.19	.19	0426_11	04/26/24 18:53
STD-.31	.31	0426_12	04/26/24 19:30
STD-.63	.63	0426_13	04/26/24 20:06
STD-1.25	1.25	0426_14	04/26/24 20:43
STD-2.5	2.5	0426_15	04/26/24 21:21
STD-3.75	3.75	0426_16	04/26/24 22:01
STD-10	10	0426_17	04/26/24 22:37
STD-25	25	0426_18	04/26/24 23:15
STD-50	50	0426_19	04/26/24 23:56
STD-100	100	0426_20	04/27/24 00:41
SSCV	AIRMS160426240426_22720184	0426_22	04/27/24 02:00

```
Data Path : C:\msdchem\1\data\042624\
Data File : 0426_02.D
Acq On    : 26 Apr 2024   9:40 am
Operator  :
Sample    : INSTBLK
Misc      : 24D22236
ALS Vial  : 2   Sample Multiplier: 1

Integration File: rteint.p

Method    : C:\msdchem\1\methods\TOAIRMS16D26X.M
Title     :
Last Update  : Sat Apr 27 07:23:45 2024
```



Spectrum Information: Average of 12.895 to 12.907 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.7	62909	PASS
75	95	30	66	46.1	164032	PASS
95	95	100	100	100.0	355563	PASS
96	95	5	9	6.3	22389	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	82.9	294784	PASS
175	174	4	9	7.6	22531	PASS
176	174	93	101	95.8	282389	PASS
177	176	5	9	6.4	18064	PASS

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0503_01T	**SDG:**	L1731355
Instrument ID:	AIRMS16	**Analytical Method:**	TO-15
Analysis Date/Time:	05/03/24 09:08		

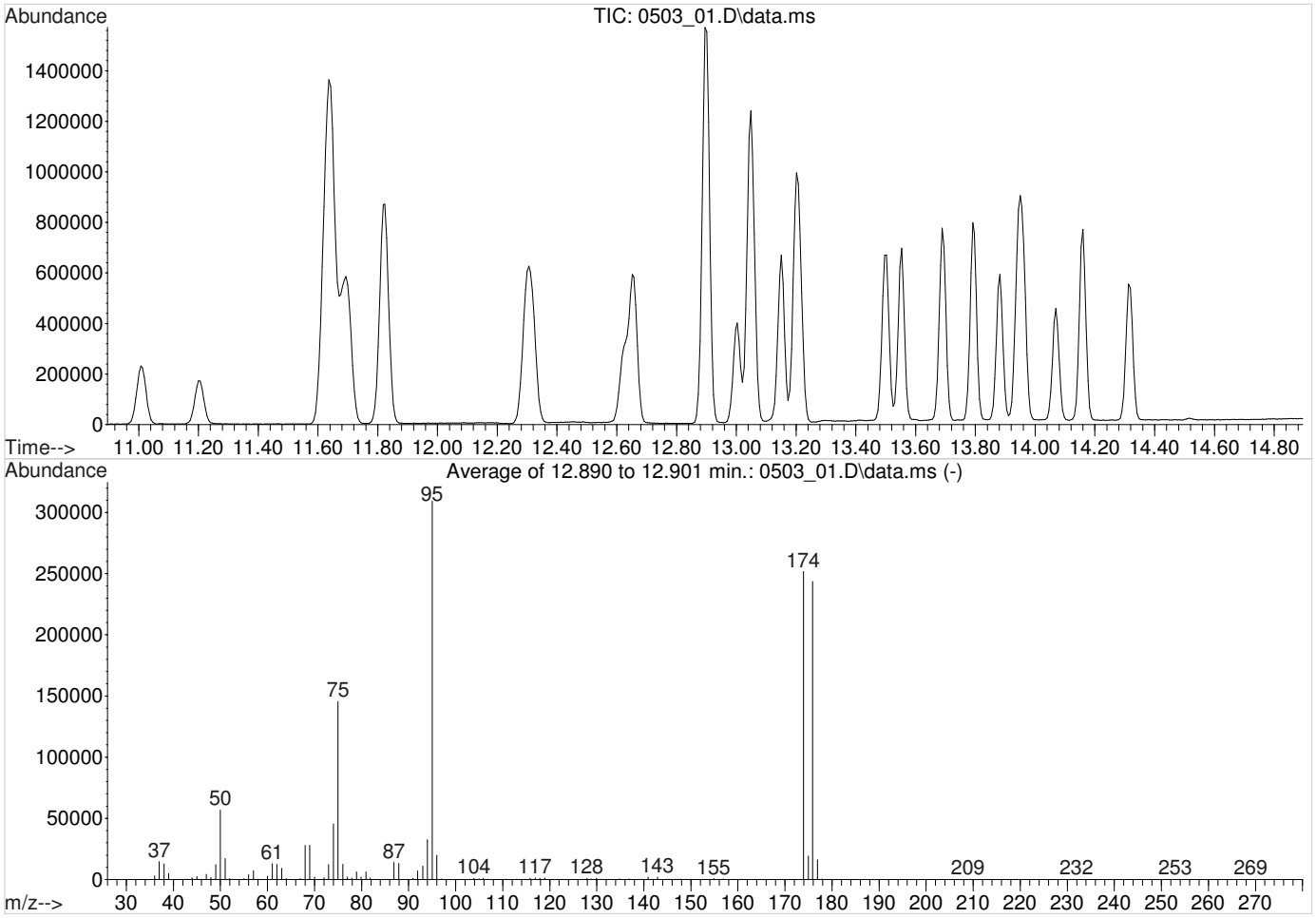
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
50	95	8	40	18
75	95	30	66	47
95	95	100	100	100
96	95	5	9	6
173	174	0	2	0
174	95	50	120	81
175	174	4	9	8
176	174	93	101	97
177	176	5	9	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	AIRMS160503240503_01720184	0503_01	05/03/24 09:08
LCS	R4065813-1	0503_02	05/03/24 09:48
LCSD	R4065813-2	0503_03	05/03/24 10:28
BLANK	R4065813-3	0503_04	05/03/24 11:07
SG2	L1731355-02	0503_05	05/03/24 14:44
SG1	L1731355-03	0503_24	05/04/24 03:13
SG-DUP 1	L1731355-04	0503_25	05/04/24 03:51

```
Data Path : C:\msdchem\1\data\050324\
Data File : 0503_01.D
Acq On    :  3 May 2024   9:08 am
Operator  :
Sample    : ICV AMS 3.75 ppbv 24D12755
Misc      : 24D22236
ALS Vial  : 1   Sample Multiplier: 1

Integration File: rteint.p

Method    : C:\msdchem\1\methods\TOAIRMS16D26X.M
Title     :
Last Update  : Sat Apr 27 07:55:11 2024
```



Spectrum Information: Average of 12.890 to 12.901 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.4	56744	PASS
75	95	30	66	47.1	145528	PASS
95	95	100	100	100.0	309163	PASS
96	95	5	9	6.4	19880	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	81.4	251712	PASS
175	174	4	9	7.6	19216	PASS
176	174	93	101	96.8	243563	PASS
177	176	5	9	6.7	16254	PASS

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1731355	**Analytical Method:**	TO-15
Instrument ID:	AIRMS8	**Calibration Start Date:**	04/26/24 16:58
Std File:	0502_01	**Calibration End Date:**	04/26/24 21:35
		Std Analysis Date:	05/02/24 08:15

Sample ID	File ID	DFB		BCM		CB	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		185061	4.19	49078	3.22	144997	6.41
UPPER LIMIT		219865		60669		174913	
LOWER LIMIT		94228		26001		74963	
LCS R4065178-1 WG2278934 1x	0502_02	164733	4.19	45116	3.22	131496	6.41
LCSD R4065178-2 WG2278934 1x	0502_03	163100	4.19	44575	3.22	128774	6.41
BLANK R4065178-3 WG2278934 1x	0502_04	154636	4.19	44597	3.22	123099	6.41
L1731355-01 WG2278934 10x	0502_14	126540	4.19	31930	3.23	111349	6.41

DFB - 1,4-DIFLUOROBENZENE BCM - BROMOCHLOROMETHANE
CB - CHLOROBENZENE-D5

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1731355	**Analytical Method:**	TO-15
Instrument ID:	AIRMS13	**Calibration Start Date:**	04/30/24 16:23
Std File:	0501_01	**Calibration End Date:**	04/30/24 22:51
		Std Analysis Date:	05/01/24 08:17

Sample ID	File ID	DFB		BCM		CB	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		594554	10.45	153986	9.43	451314	13.60
UPPER LIMIT		745358		197192		598591	
LOWER LIMIT		319439		84511		256539	
LCS R4064812-1 WG2278229 1x	0501_02	552096	10.44	141913	9.43	430495	13.59
LCSD R4064812-2 WG2278229 1x	0501_03	539815	10.44	138502	9.43	421073	13.59
BLANK R4064812-3 WG2278229 1x	0501_04	533865	10.45	137505	9.43	396257	13.59
L1731355-01 WG2278229 1x	0501_25	476912	10.45	119986	9.44	403671	13.60
L1731355-02 WG2278229 1x	0501_26	714697	10.45	182759	9.44	611088*	13.60

DFB - 1,4-DIFLUOROBENZENE BCM - BROMOCHLOROMETHANE
CB - CHLOROBENZENE-D5

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1731355	**Analytical Method:**	TO-15
Instrument ID:	AIRMS16	**Calibration Start Date:**	04/26/24 18:53
Std File:	0503_01	**Calibration End Date:**	04/27/24 00:41
		Std Analysis Date:	05/03/24 09:08

Sample ID	File ID	DFB		BCM		CB	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		908205	8.54	214629	7.71	820429	11.64
UPPER LIMIT		1421897		334183		1260240	
LOWER LIMIT		609385		143221		540103	
LCS R4065813-1 WG2279821 1x	0503_02	925173	8.54	219726	7.71	835018	11.64
LCSD R4065813-2 WG2279821 1x	0503_03	935659	8.54	220784	7.71	837345	11.64
BLANK R4065813-3 WG2279821 1x	0503_04	913827	8.54	216000	7.71	815101	11.64
L1731355-02 WG2279821 10x	0503_05	892742	8.54	213258	7.71	795968	11.64
L1731355-03 WG2279821 100x	0503_24	899118	8.54	210415	7.71	799396	11.64
L1731355-04 WG2279821 100x	0503_25	907508	8.54	213580	7.71	813280	11.64

DFB - 1,4-DIFLUOROBENZENE BCM - BROMOCHLOROMETHANE
CB - CHLOROBENZENE-D5

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: SG3

Lab Sample ID:	L1731355-01	**SDG:**	L1731355
Client Sample ID:	SG3	**Collected Date/Time:**	04/29/24 12:04
Lab File ID:	0501_25	**Received Date/Time:**	05/01/24 09:00
Instrument ID:	AIRMS13	**Preparation Date/Time:**	05/02/24 03:51
Analytical Batch:	WG2278229	**Analysis Date/Time:**	05/02/24 03:51
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
Acetone	67-64-1	7.16	6.00		0.584	1.25
Benzene	71-43-2	10.07	4.79		0.0715	0.200
Benzyl Chloride	100-44-7	0	ND		0.0598	0.200
Bromodichloromethane	75-27-4	0	ND		0.0702	0.200
Bromoform	75-25-2	0	ND		0.0732	0.600
Bromomethane	74-83-9	0	ND		0.0982	0.200
1,3-Butadiene	106-99-0	0	ND		0.104	2.00
Carbon disulfide	75-15-0	7.35	46.9		0.102	0.200
Carbon tetrachloride	56-23-5	9.82	ND		0.0732	0.200
Chlorobenzene	108-90-7	0	ND		0.0832	0.200
Chloroethane	75-00-3	0	ND		0.0996	0.200
Chloroform	67-66-3	0	ND		0.0717	0.200
Chloromethane	74-87-3	4.81	0.291		0.103	0.200
Cyclohexane	110-82-7	9.68	8.86		0.0753	0.200
Dibromochloromethane	124-48-1	0	ND		0.0727	0.200
1,2-Dibromoethane	106-93-4	0	ND		0.0721	0.200
1,2-Dichlorobenzene	95-50-1	0	ND		0.128	0.200
1,3-Dichlorobenzene	541-73-1	0	ND		0.182	0.200
1,4-Dichlorobenzene	106-46-7	0	ND		0.0557	0.200
1,2-Dichloroethane	107-06-2	0	ND		0.0700	0.200
1,1-Dichloroethane	75-34-3	0	ND		0.0723	0.200
1,1-Dichloroethene	75-35-4	0	ND		0.0762	0.200
cis-1,2-Dichloroethene	156-59-2	0	ND		0.0784	0.200
trans-1,2-Dichloroethene	156-60-5	0	ND		0.0673	0.200
1,2-Dichloropropane	78-87-5	0	ND		0.0760	0.200
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.0689	0.200
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.0728	0.200
Ethanol	64-17-5	6.59	15.0		0.265	2.50
Ethylbenzene	100-41-4	13.65	35.5		0.0835	0.200
4-Ethyltoluene	622-96-8	15.02	12.5		0.0783	0.200
Ethyl acetate	141-78-6	9.12	1.55		0.100	0.630
Trichlorofluoromethane	75-69-4	6.23	0.378		0.0819	0.200
Dichlorodifluoromethane	75-71-8	4.35	0.491		0.137	0.200
1,1,2-Trichlorotrifluoroethane	76-13-1	6.93	ND		0.0793	0.200
1,2-Dichlorotetrafluoroethane	76-14-2	0	ND		0.0890	0.200
Heptane	142-82-5	10.14	30.5		0.104	0.200
Hexachloro-1,3-butadiene	87-68-3	0	ND		0.105	0.630
Isopropylbenzene	98-82-8	14.50	7.45		0.0777	0.200
Methylene Chloride	75-09-2	7.70	1.10		0.0979	0.200
Methyl Butyl Ketone	591-78-6	0	ND		0.133	1.25
2-Butanone (MEK)	78-93-3	9.16	ND		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.0765	1.25
Methyl methacrylate	80-62-6	0	ND		0.0876	0.200

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: SG3

Lab Sample ID:	L1731355-01	**SDG:**	L1731355
Client Sample ID:	SG3	**Collected Date/Time:**	04/29/24 12:04
Lab File ID:	0501_25	**Received Date/Time:**	05/01/24 09:00
Instrument ID:	AIRMS13	**Preparation Date/Time:**	05/02/24 03:51
Analytical Batch:	WG2278229	**Analysis Date/Time:**	05/02/24 03:51
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
MTBE	1634-04-4	7.93	3.89		0.0647	0.200
Naphthalene	91-20-3	18.24	ND		0.350	0.630
2-Propanol	67-63-0	7.29	2.14		0.264	1.25
Propene	115-07-1	0	ND		0.0932	1.25
Styrene	100-42-5	0	ND		0.0788	0.200
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.0743	0.200
Tetrahydrofuran	109-99-9	0	ND		0.0734	0.200
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.148	0.630
1,1,1-Trichloroethane	71-55-6	0	ND		0.0736	0.200
1,1,2-Trichloroethane	79-00-5	0	ND		0.0775	0.200
Trichloroethylene	79-01-6	0	ND		0.0680	0.200
1,2,4-Trimethylbenzene	95-63-6	15.47	49.3		0.0764	0.200
1,3,5-Trimethylbenzene	108-67-8	15.08	17.8		0.0779	0.200
2,2,4-Trimethylpentane	540-84-1	9.98	17.3		0.133	0.200
Vinyl chloride	75-01-4	0	ND		0.0949	0.200
Vinyl Bromide	593-60-2	0	ND		0.0852	0.200
Vinyl acetate	108-05-4	0	ND		0.116	0.630
Xylenes, Total	1330-20-7	14.17	173		0.135	0.600
m&p-Xylene	179601-23-1	13.76	127		0.135	0.400
o-Xylene	95-47-6	14.17	46.0		0.0828	0.200

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_25.D
Acq On : 2 May 2024 3:51 am
Operator :
Sample : L1731355-01 1x WG2278229
Misc : 24D29341
ALS Vial : 25 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 02 08:50:15 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.439	130	119986	4.0000000	ppbv		0.00
50) 1,4-Difluorobenzene	10.445	114	476912	4.0000000	ppbv		0.00
74) Chlorobenzene-d5	13.597	117	403671	4.0000000	ppbv	#	0.00
System Monitoring Compounds							
88) 1,4-Bromofluorobenzene	14.743	95	352399	4.2980701	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 107.45%				
Target Compounds							Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	283220652m	3474.9819791	ppbv		
3) TPH-GRO (C5-C10)	10.430	TIC	294965329m	4279.0457703	ppbv		
4) THC as Gas (C4-C12)	10.430	TIC	470657400m	6293.1795081	ppbv		
6) BUTANE	4.983	43	776149	39.4308833	ppbv		99
7) 1,1-DIFLUOROETHANE	4.294	65	70450	11.4004126	ppbv		99
8) Dichlorodifluoromethane	4.355	85	11227	0.4911390	ppbv		99
9) CHLORODIFLUOROMETHANE	4.410	67	848	0.3326902	ppbv		75
11) Chloromethane	4.806	50	3151	0.2910188	ppbv		94
16) ISOPENTANE	5.903	43	397923	28.2674313	ppbv		96
18) Trichlorofluoromethane	6.226	101	9976	0.3781096	ppbv		98
19) PENTANE	6.306	43	1050031	50.6981094	ppbv		99
20) Ethanol	6.586	45	76552	15.0094627	ppbv		99
21) ACROLEIN	6.940	56	7779	1.5546907	ppbv		85
22) 1,1,2-Trichlorotrifluo...	6.928	101	2457	0.1210562	ppbv		96
24) Acetone	7.159	58	30800	6.0029462	ppbv		86
26) 2-Propanol	7.287	45	46753	2.1421196	ppbv	#	88
27) Carbon Disulfide	7.354	76	1437298	46.9373500	ppbv		99
28) Allyl Chloride	7.354	76	1421894	341.9301763	ppbv	#	1
29) METHYL ACETATE	7.543	43	760180	30.8675880	ppbv	#	64
30) ACETONITRILE	7.543	41	392217	32.1167412	ppbv	#	38
31) Methylene Chloride	7.696	49	16845	1.0971479	ppbv	#	94
32) TERT-BUTYL ALCOHOL	7.781	59	8153	0.3731988	ppbv	#	52
33) Methyl Tert-Butyl Ether	7.933	73	93879	3.8924008	ppbv		97
35) ACRYLONITRILE	8.080	53	5403	0.5782582	ppbv	#	49
36) n-Hexane	8.159	57	1609227	108.1447787	ppbv		97
39) DI-ISOPROPYL ETHER	8.421	45	1872	0.0511272	ppbv	#	30
41) ETHYL ACETATE	9.122	70	4032	1.5491028	ppbv	#	1
42) 2-Butanone (MEK)	9.159	72	2857	0.6223816	ppbv		93
46) Cyclohexane	9.677	84	90795	8.8636078	ppbv	#	1
48) Carbon Tetrachloride	9.823	117	3580	0.1793525	ppbv		98
49) 2,2,4-Trimethylpentane	9.982	57	821908	17.2457016	ppbv	#	82
51) Benzene	10.073	78	152609	4.7889254	ppbv		97
52) TERT-AMYL METHYL ETHER	10.079	73	5809	0.2177909	ppbv	#	1
54) Heptane	10.140	71	296465	30.4839423	ppbv		94
57) METHYL CYCLOHEXANE	10.896	83	464946	30.0901755	ppbv	#	75
64) n-OCTANE	12.036	43	2421855	83.4365224	ppbv		97
65) Toluene	12.140	91	8036604	235.5533483	ppbv		98
68) Tetrachloroethene	12.731	166	4767429	383.4790726	ppbv		98
73) NONANE	13.603	43	5220154	192.5717707	ppbv	#	93
75) Ethylbenzene	13.652	91	1429917	35.4848912	ppbv		100

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_25.D
Acq On : 2 May 2024 3:51 am
Operator :
Sample : L1731355-01 1x WG2278229
Misc : 24D29341
ALS Vial : 25 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 02 08:50:15 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

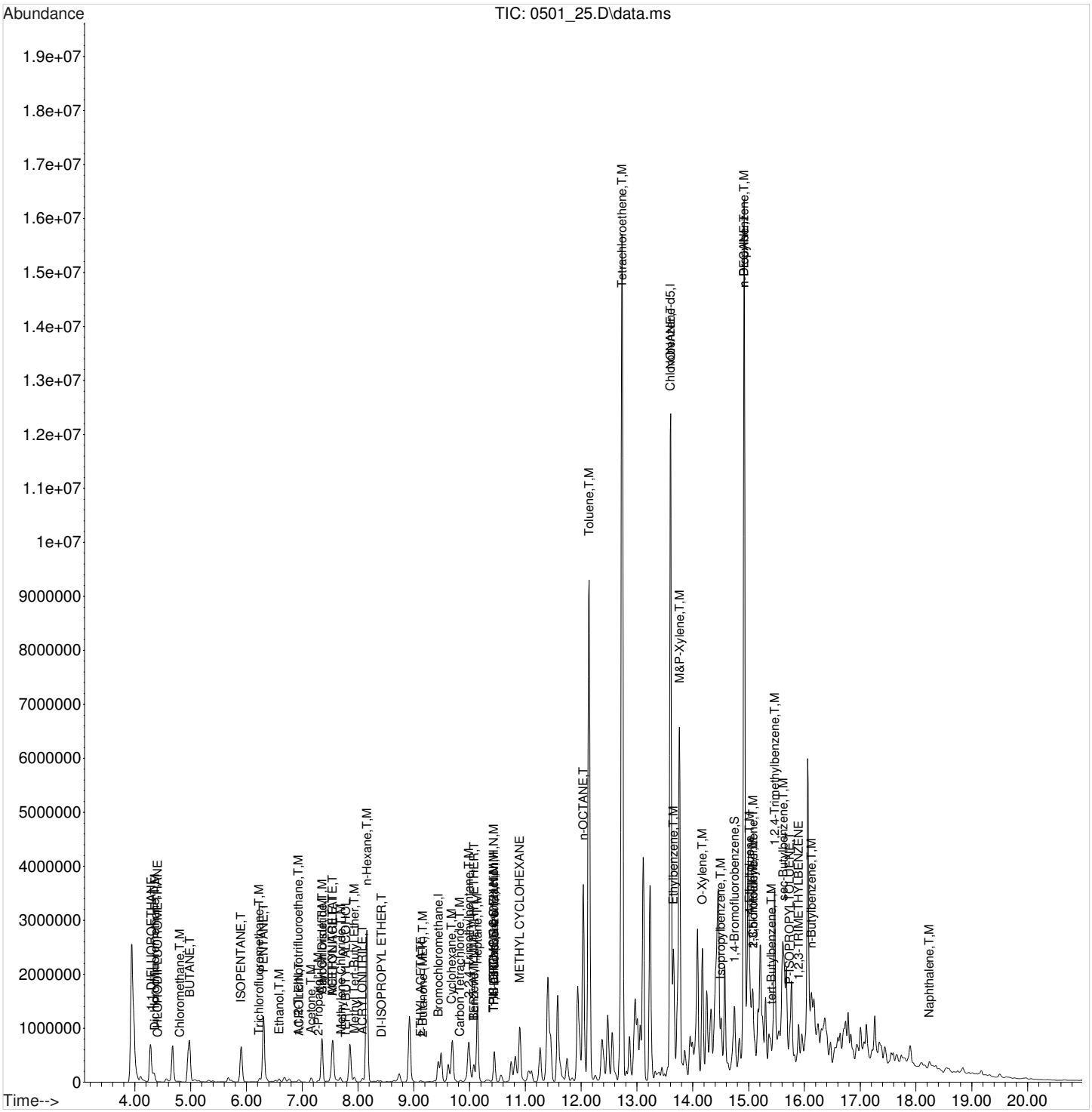
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
76)	M&P-Xylene	13.762	91	3853435	127.3422234	ppbv		98
77)	O-Xylene	14.170	91	1325305	45.9940600	ppbv		99
82)	Isopropylbenzene	14.499	105	275567	7.4464601	ppbv	#	79
83)	n-DECANE	14.920	43	6114769	210.3606620	ppbv		91
85)	n-Propylbenzene	14.920	91	844840	15.5124073	ppbv		98
86)	4-Ethyltoluene	15.017	105	491016m	12.5051263	ppbv		
87)	2-Chlorotoluene	15.078	91	76950	2.0201121	ppbv	#	57
89)	1,3,5-Trimethylbenzene	15.078	105	594706	17.8249674	ppbv		99
90)	tert-Butylbenzene	15.408	119	6464	0.2282387	ppbv	#	25
91)	1,2,4-Trimethylbenzene	15.469	105	1646834	49.3111749	ppbv		100
92)	sec-Butylbenzene	15.621	105	206348	4.2754292	ppbv	#	48
94)	P-ISOPROPYLTOLUENE	15.737	119	115067	2.9851642	ppbv		97
96)	1,2,3-TRIMETHYLBENZENE	15.895	105	317747	9.3091406	ppbv		100
98)	n-Butylbenzene	16.127	91	136461	3.1019412	ppbv	#	85
103)	Naphthalene	18.236	128	12544	0.2515276	ppbv	#	66

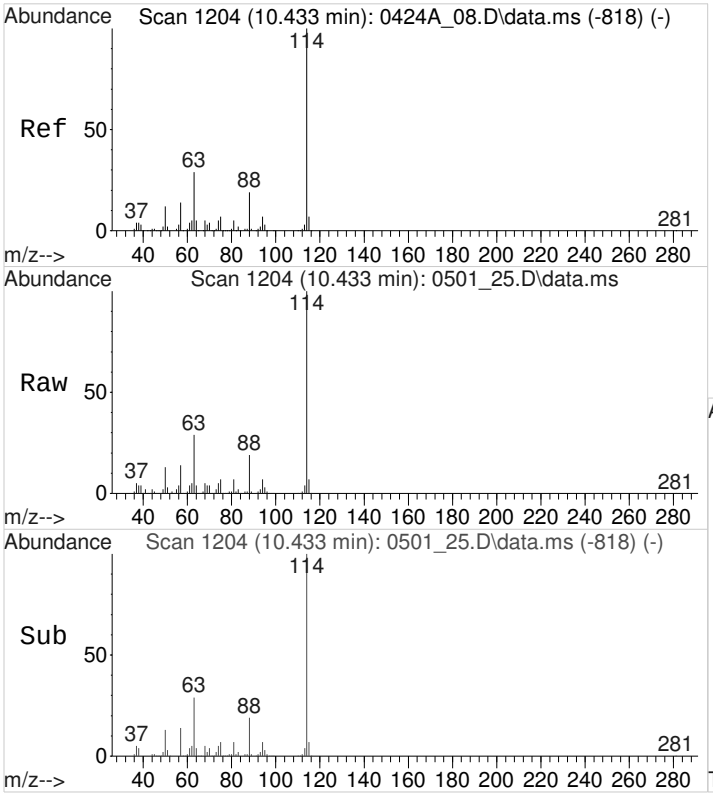
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_25.D
Acq On : 2 May 2024 3:51 am
Operator :
Sample : L1731355-01 1x WG2278229
Misc : 24D29341
ALS Vial : 25 Sample Multiplier: 1
InstName : AIRMS13

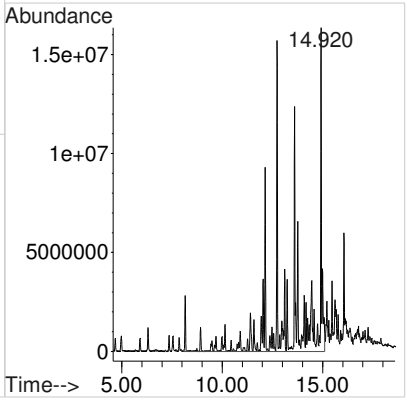
Quant Time: May 02 08:50:15 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

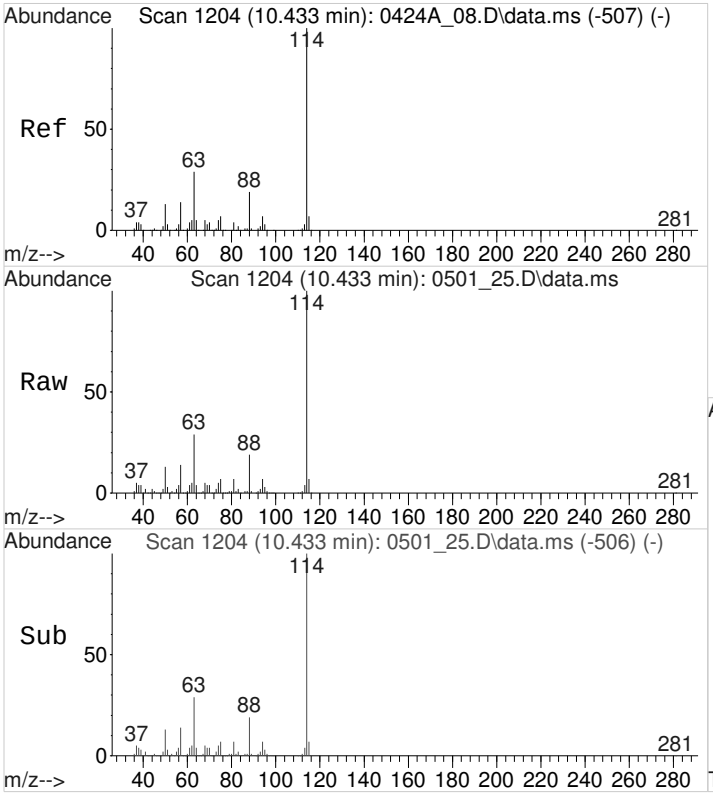




#2
TPH (GC/MS) Low Fraction
Concen: 3474.9819791 ppbv m
RT: 10.430 min Scan# 1204
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

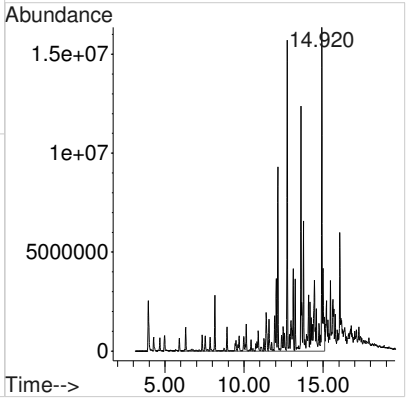
Tgt Ion:TIC Resp:283220652

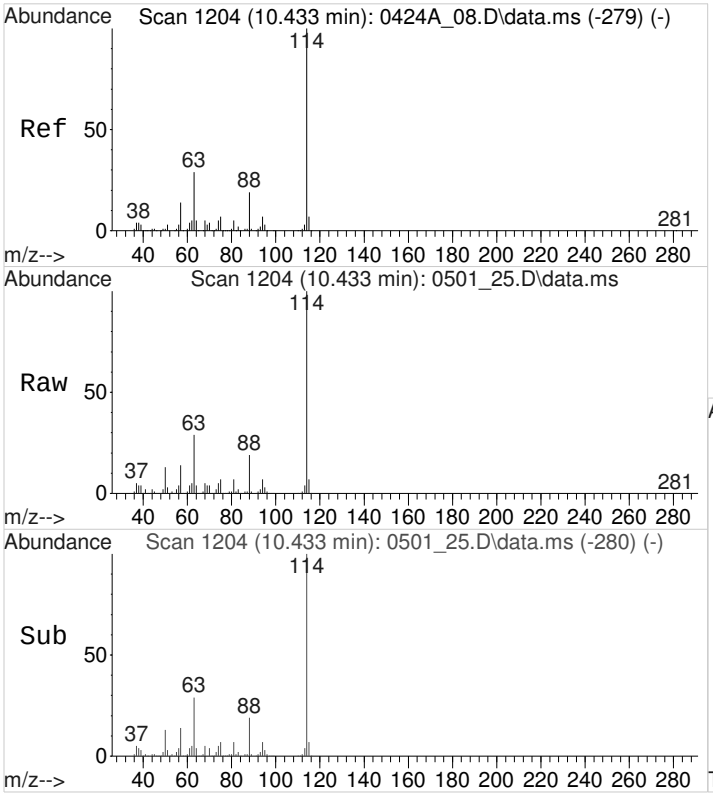




#3
TPH-GRO (C5-C10)
Concen: 4279.0457703 ppbv m
RT: 10.430 min Scan# 1204
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

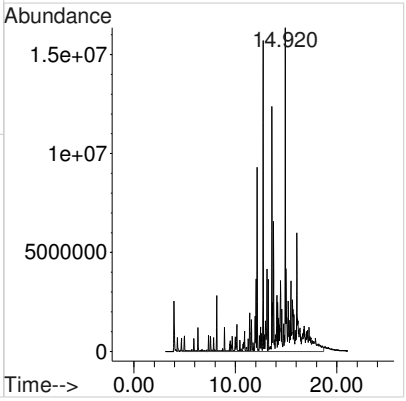
Tgt Ion:TIC Resp:294965329

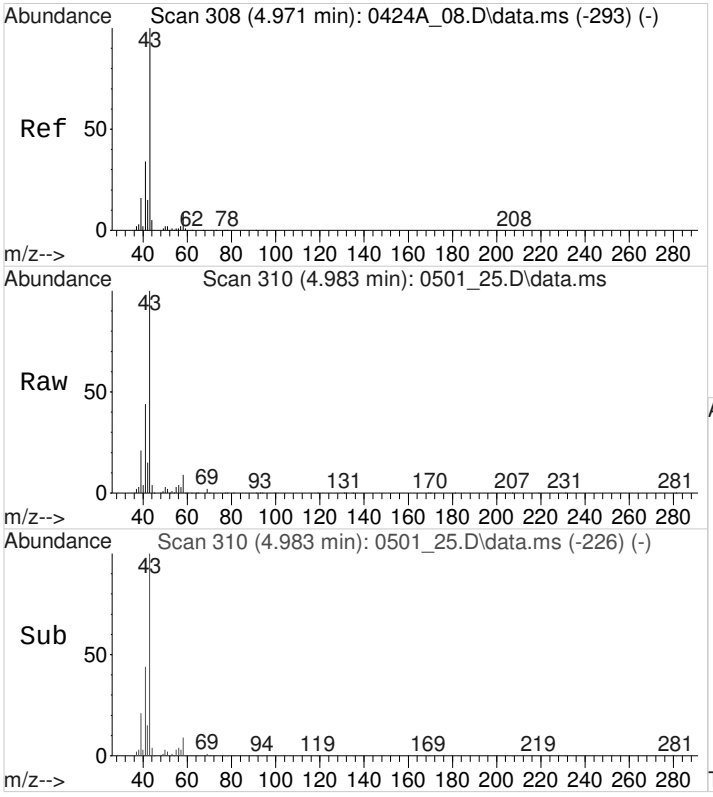




#4
THC as Gas (C4-C12)
Concen: 6293.1795081 ppbv m
RT: 10.430 min Scan# 1204
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion:TIC Resp:470657400

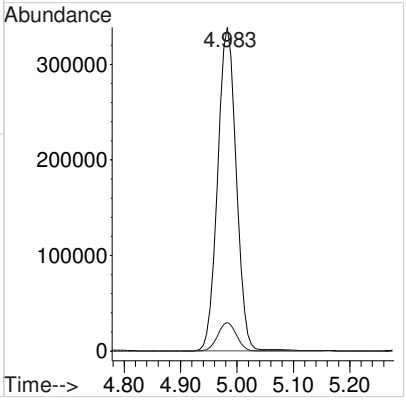


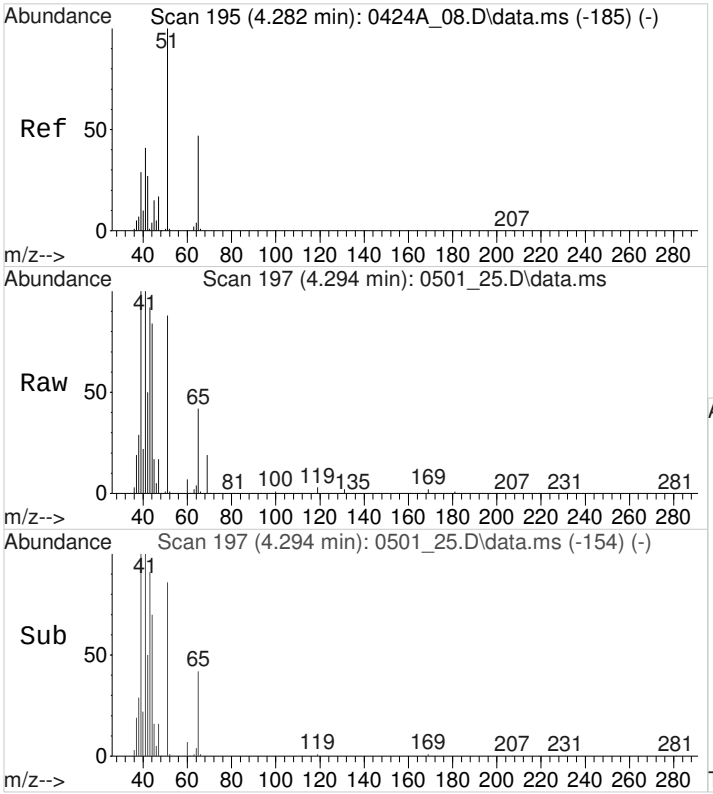


#6
BUTANE
Concen: 39.4308833 ppbv
RT: 4.983 min Scan# 310
Delta R.T. 0.012 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 43 Resp: 776149

Ion	Ratio	Lower	Upper
43	100		
58	8.9	7.4	11.0

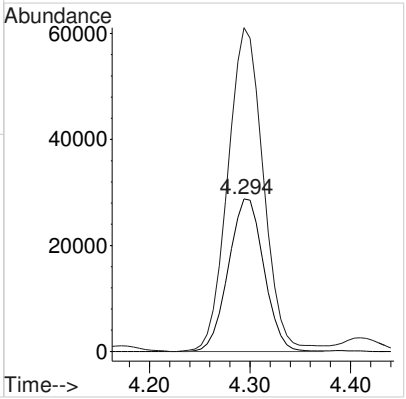


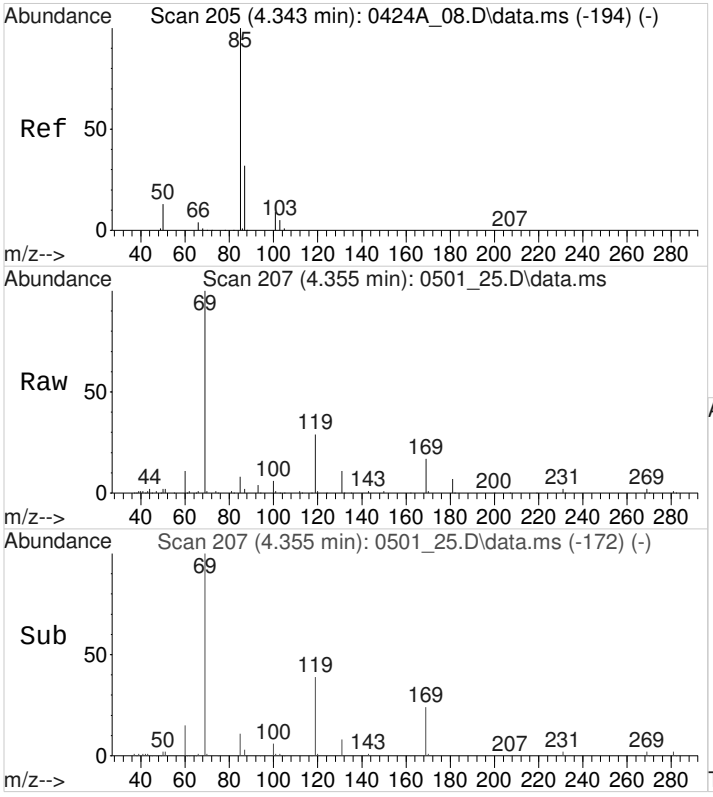


#7
1,1-DIFLUOROETHANE
Concen: 11.4004126 ppbv
RT: 4.294 min Scan# 197
Delta R.T. 0.013 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 65 Resp: 70450

Ion	Ratio	Lower	Upper
65	100		
51	213.4	169.8	254.6

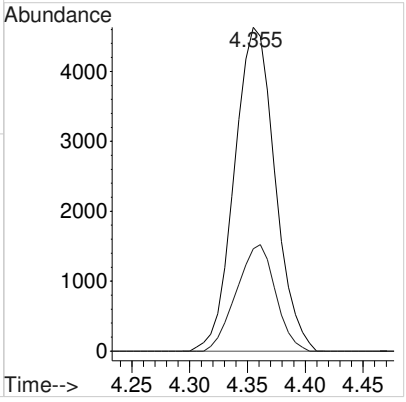


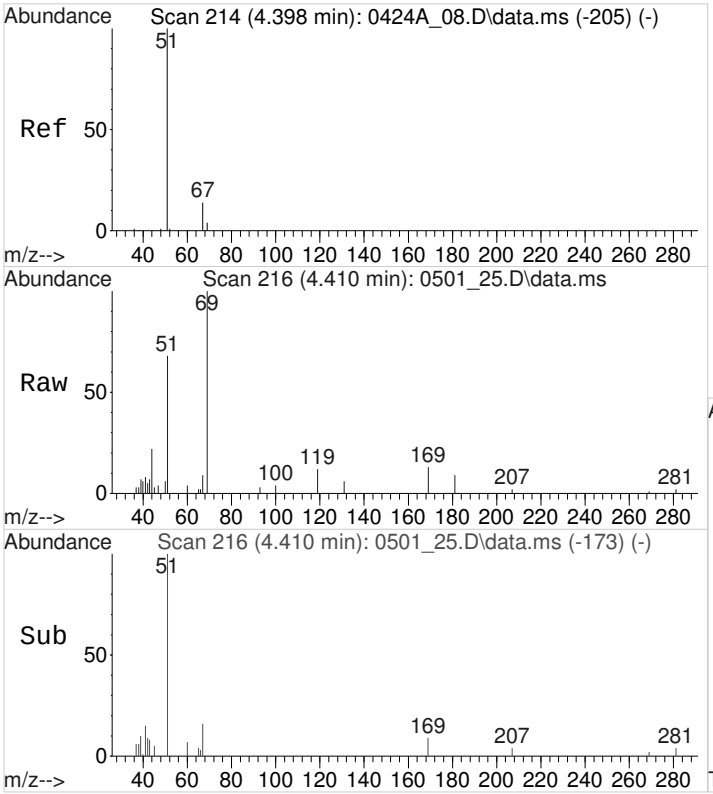


#8
Dichlorodifluoromethane
Concen: 0.4911390 ppbv
RT: 4.355 min Scan# 207
Delta R.T. 0.012 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 85 Resp: 11227

Ion	Ratio	Lower	Upper
85	100		
87	31.6	25.5	38.3

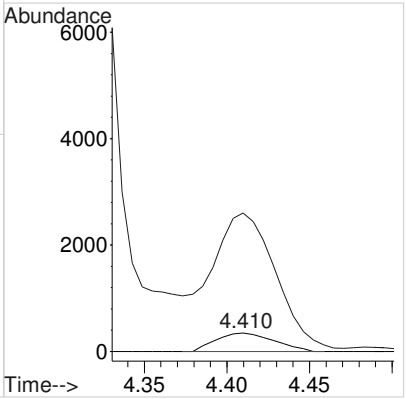


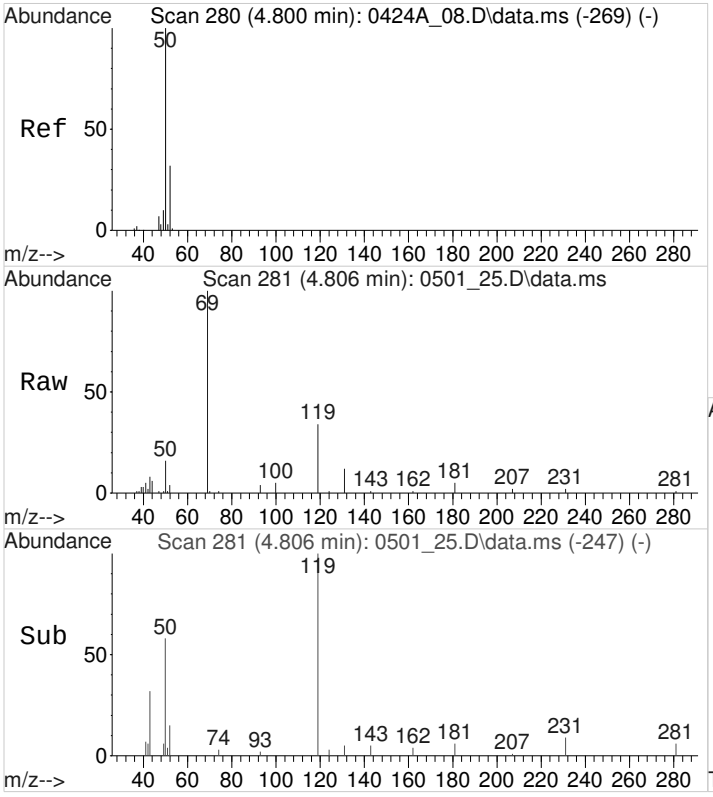


#9
CHLORODIFLUOROMETHANE
Concen: 0.3326902 ppbv
RT: 4.410 min Scan# 216
Delta R.T. 0.013 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 67 Resp: 848

Ion	Ratio	Lower	Upper
67	100		
51	823.7	587.9	881.9

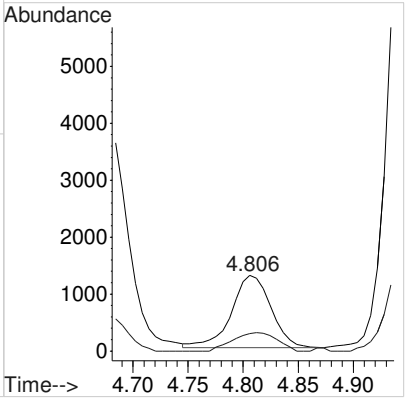


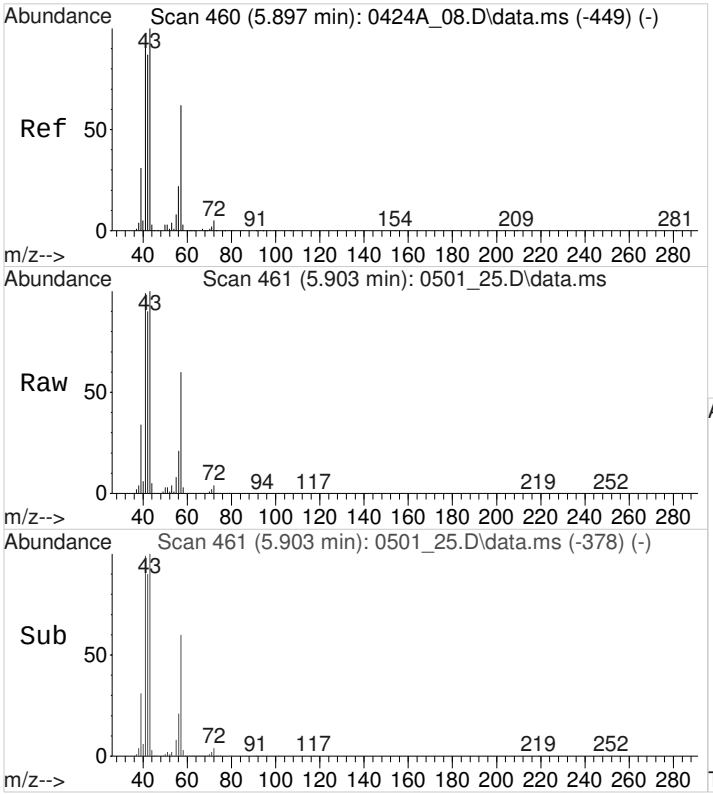


#11
Chloromethane
Concen: 0.2910188 ppbv
RT: 4.806 min Scan# 281
Delta R.T. 0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 50 Resp: 3151

Ion	Ratio	Lower	Upper
50	100		
52	28.5	25.5	38.3

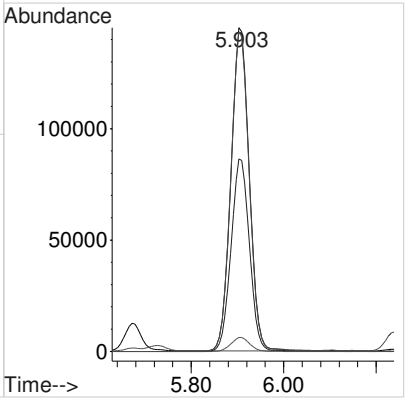


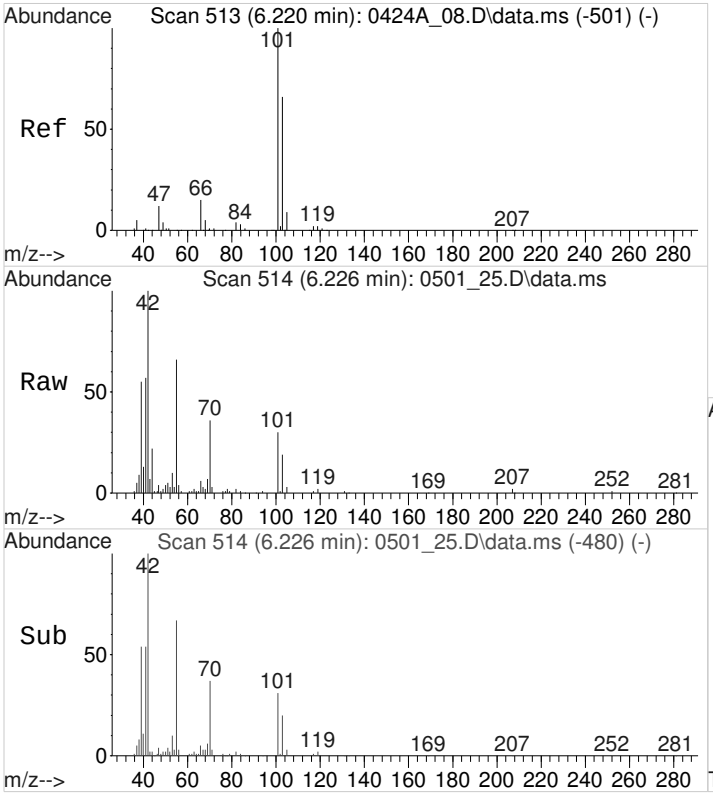


#16
ISOPENTANE
Concen: 28.2674313 ppbv
RT: 5.903 min Scan# 461
Delta R.T. 0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 43 Resp: 397923

Ion	Ratio	Lower	Upper
43	100		
57	59.8	50.4	75.6
41	98.9	75.9	113.9
72	4.4	3.9	5.9

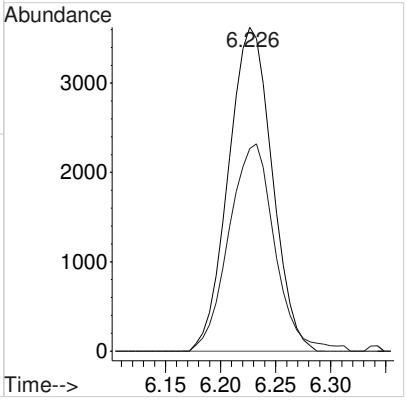


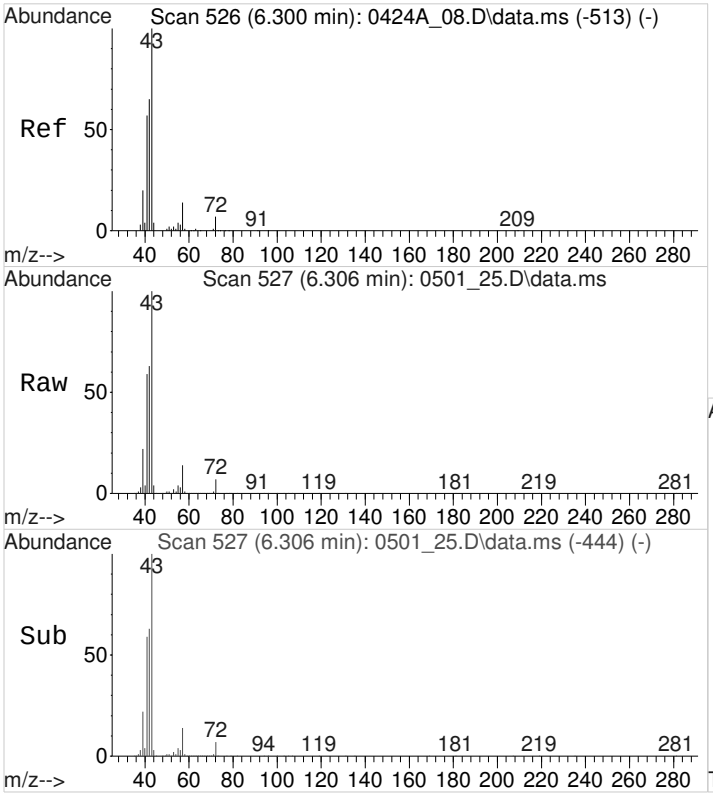


#18
Trichlorofluoromethane
Concen: 0.3781096 ppbv
RT: 6.226 min Scan# 514
Delta R.T. 0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion:101 Resp: 9976

Ion	Ratio	Lower	Upper
101	100		
103	67.2	52.5	78.7

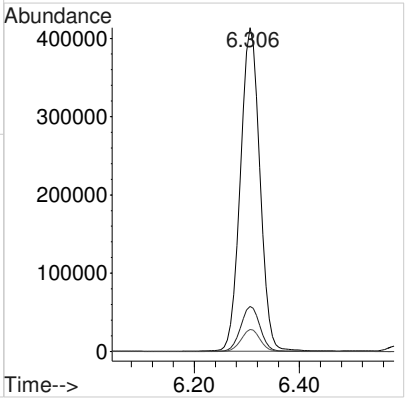


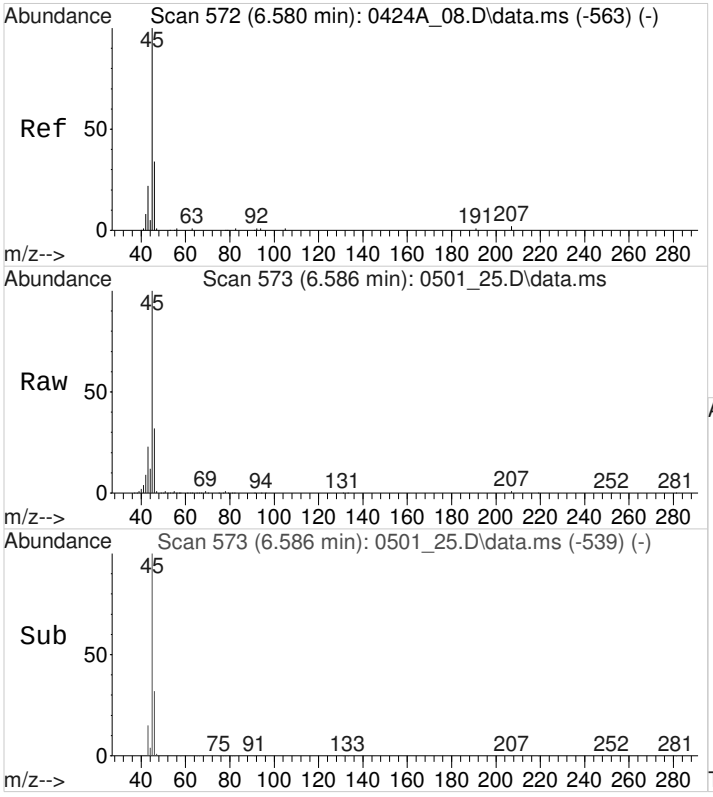


#19
PENTANE
Concen: 50.6981094 ppbv
RT: 6.306 min Scan# 527
Delta R.T. 0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 43 Resp: 1050031

Ion	Ratio	Lower	Upper
43	100		
57	13.9	11.6	17.4
72	6.6	5.7	8.5

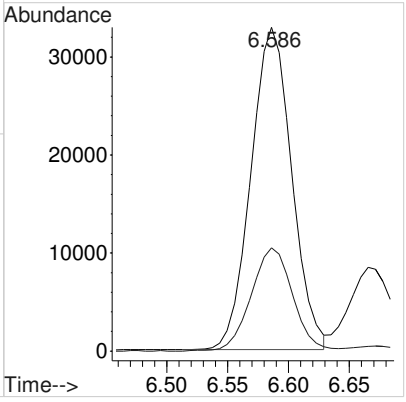


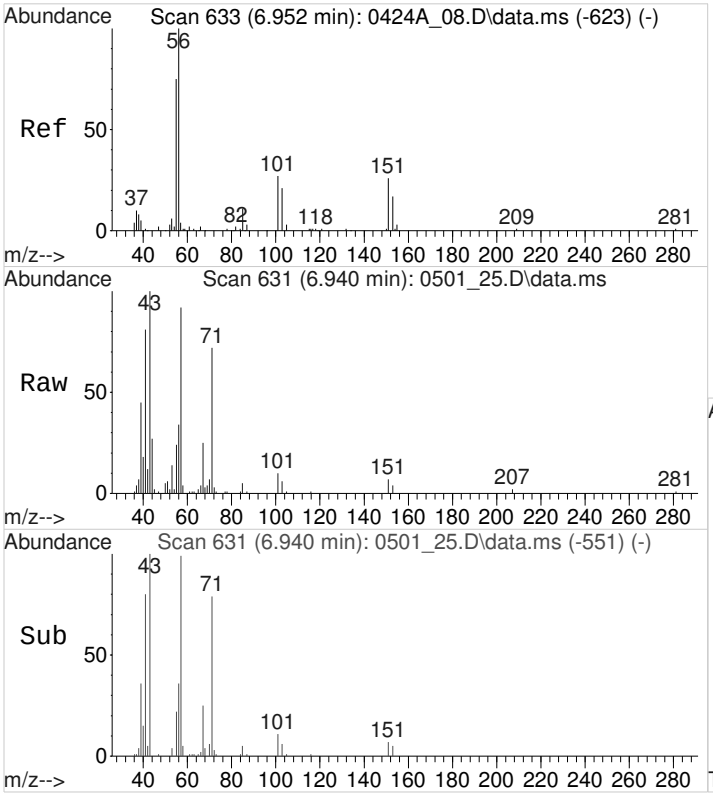


#20
Ethanol
Concen: 15.0094627 ppbv
RT: 6.586 min Scan# 573
Delta R.T. 0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 45 Resp: 76552

Ion	Ratio	Lower	Upper
45	100		
46	32.6	26.7	40.1

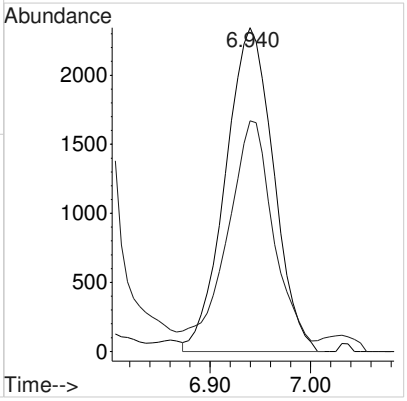


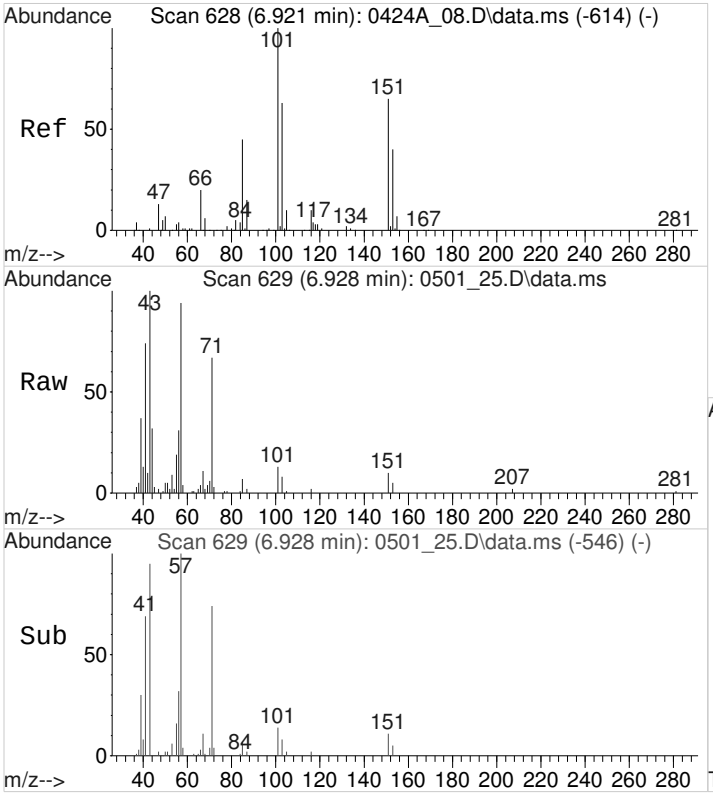


#21
ACROLEIN
Concen: 1.5546907 ppbv
RT: 6.940 min Scan# 631
Delta R.T. -0.011 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 56 Resp: 7779

Ion	Ratio	Lower	Upper
56	100		
55	61.9	60.1	90.1

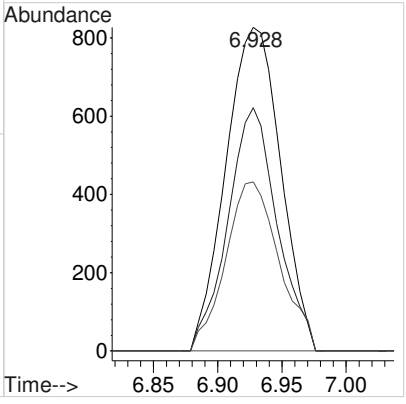


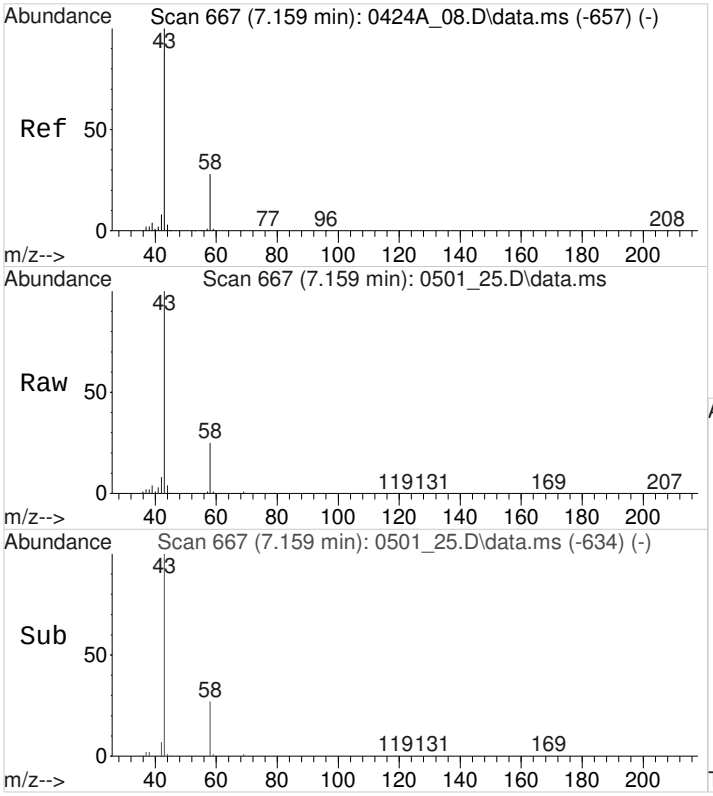


#22
1,1,2-Trichlorotrifluoroethane
Concen: 0.1210562 ppbv
RT: 6.928 min Scan# 629
Delta R.T. 0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion:101 Resp: 2457

Ion	Ratio	Lower	Upper
101	100		
151	67.6	51.9	77.9
85	51.0	37.9	56.9

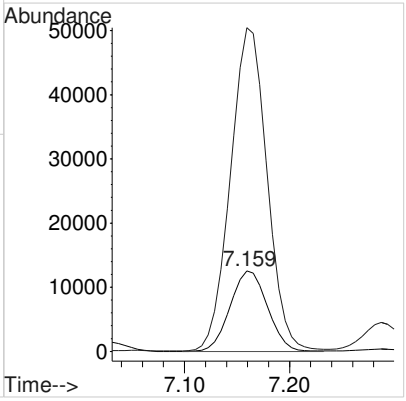


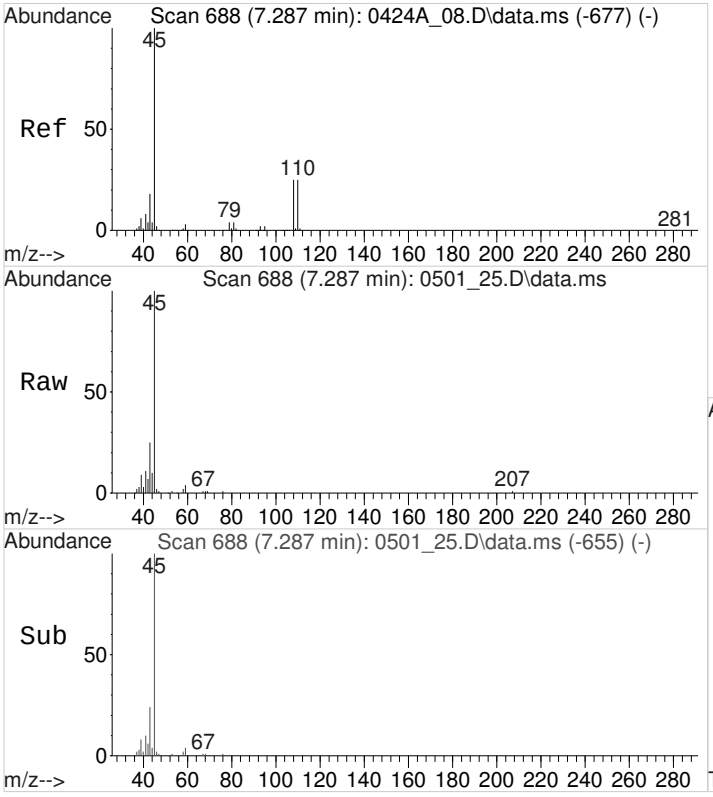


#24
Acetone
Concen: 6.0029462 ppbv
RT: 7.159 min Scan# 667
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 58 Resp: 30800

Ion	Ratio	Lower	Upper
58	100		
43	393.7	290.8	436.2

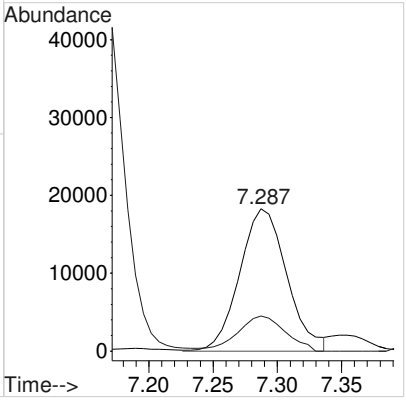


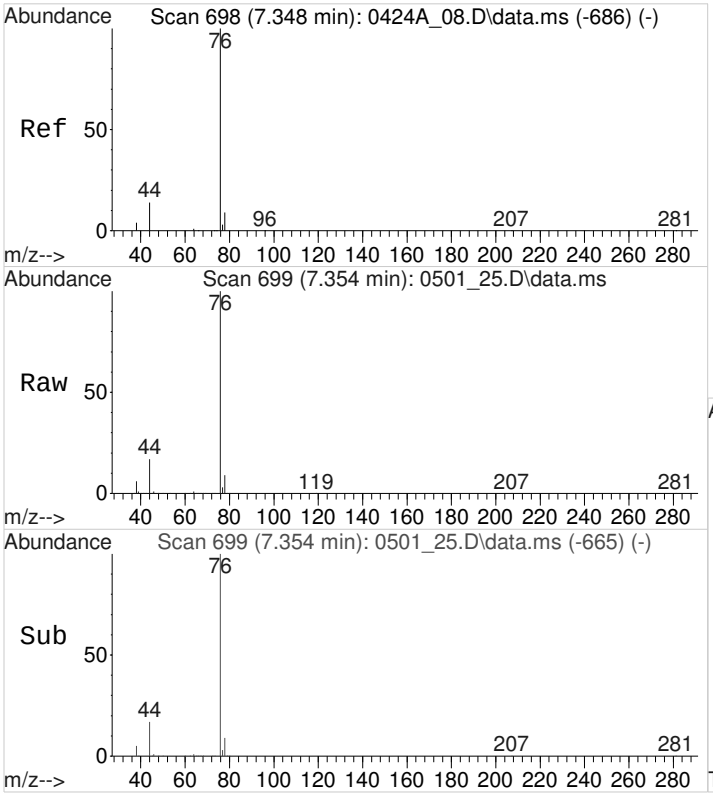


#26
2-Propanol
Concen: 2.1421196 ppbv
RT: 7.287 min Scan# 688
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 45 Resp: 46753

Ion	Ratio	Lower	Upper
45	100		
43	24.9	15.6	23.4#

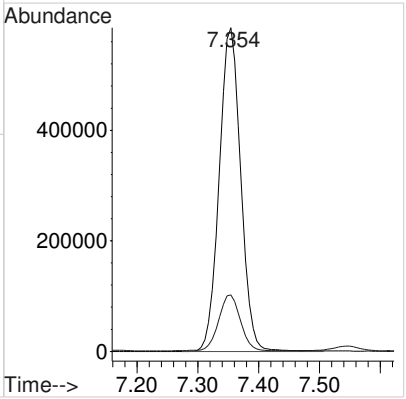


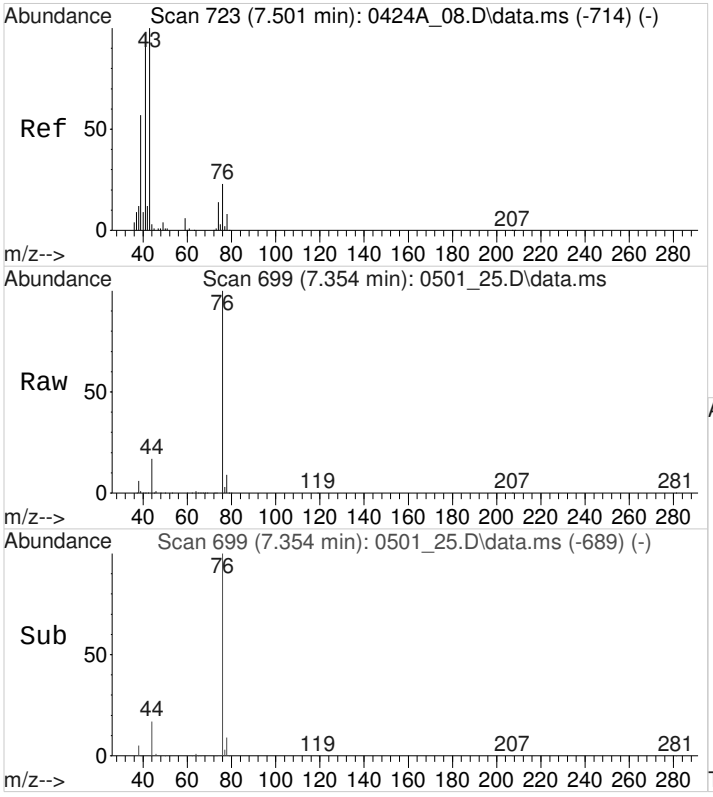


#27
Carbon Disulfide
Concen: 46.9373500 ppbv
RT: 7.354 min Scan# 699
Delta R.T. 0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 76 Resp: 1437298

Ion	Ratio	Lower	Upper
76	100		
44	17.5	13.7	20.5

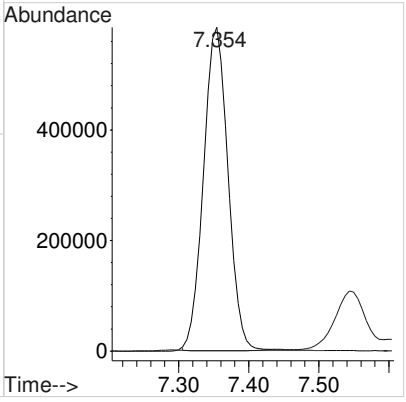


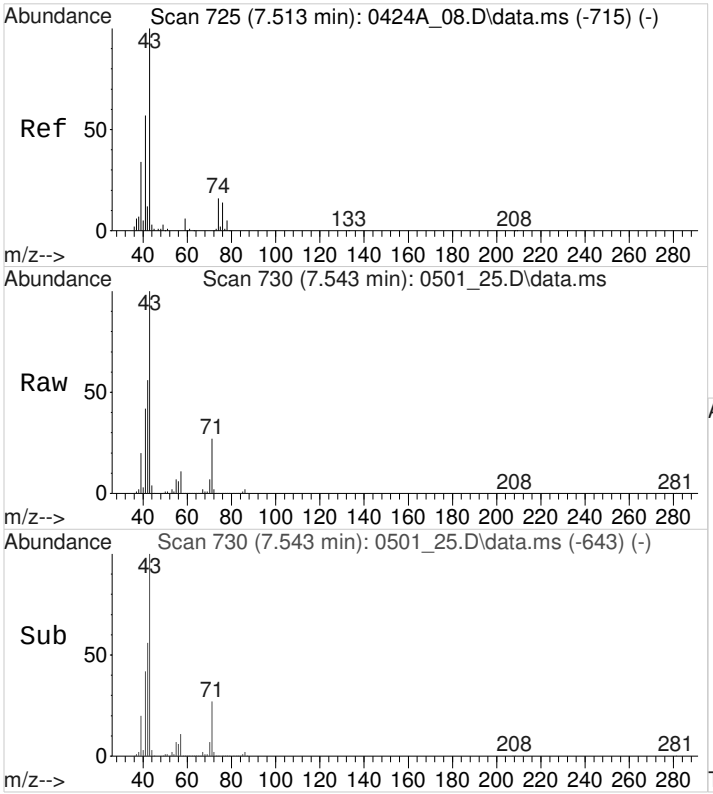


#28
Allyl Chloride
Concen: 341.9301763 ppbv
RT: 7.354 min Scan# 699
Delta R.T. -0.146 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 76 Resp: 1421894

Ion	Ratio	Lower	Upper
76	100		
41	0.0	319.5	479.3#

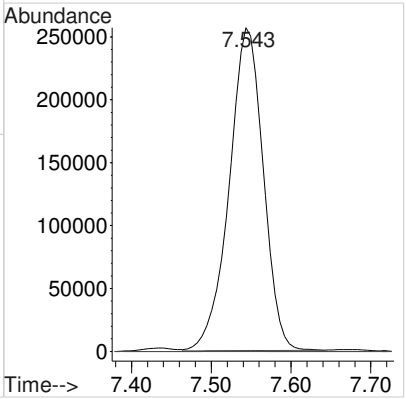


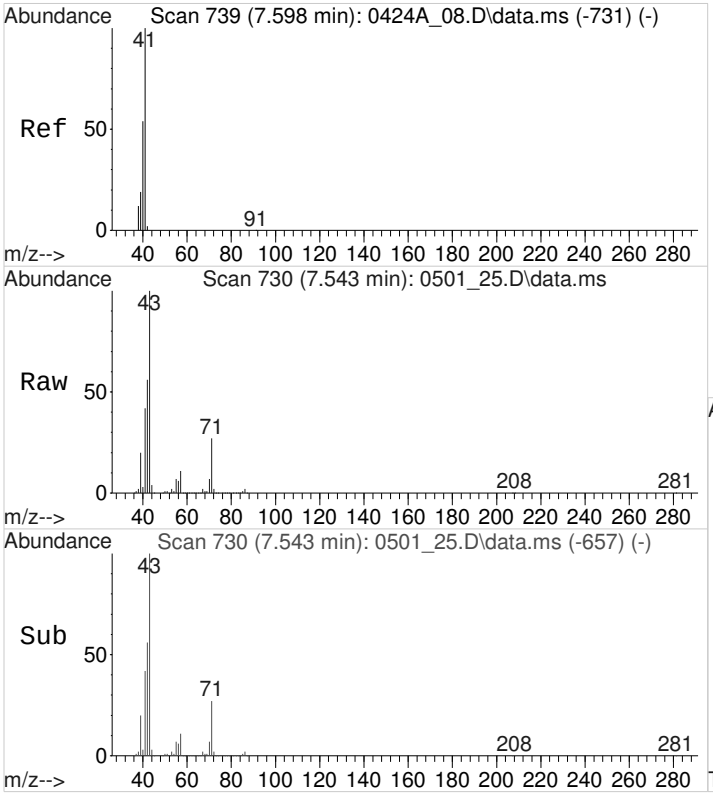


#29
METHYL ACETATE
Concen: 30.8675880 ppbv
RT: 7.543 min Scan# 730
Delta R.T. 0.030 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 43 Resp: 760180

Ion	Ratio	Lower	Upper
43	100		
74	0.1	12.3	18.5#
29	0.0	0.0	0.0

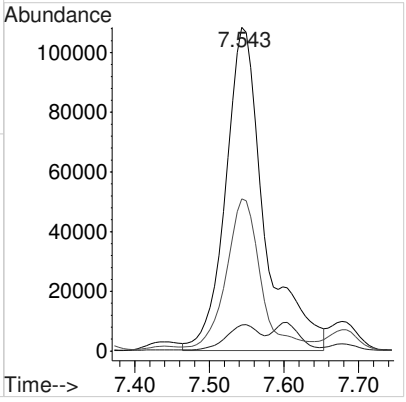


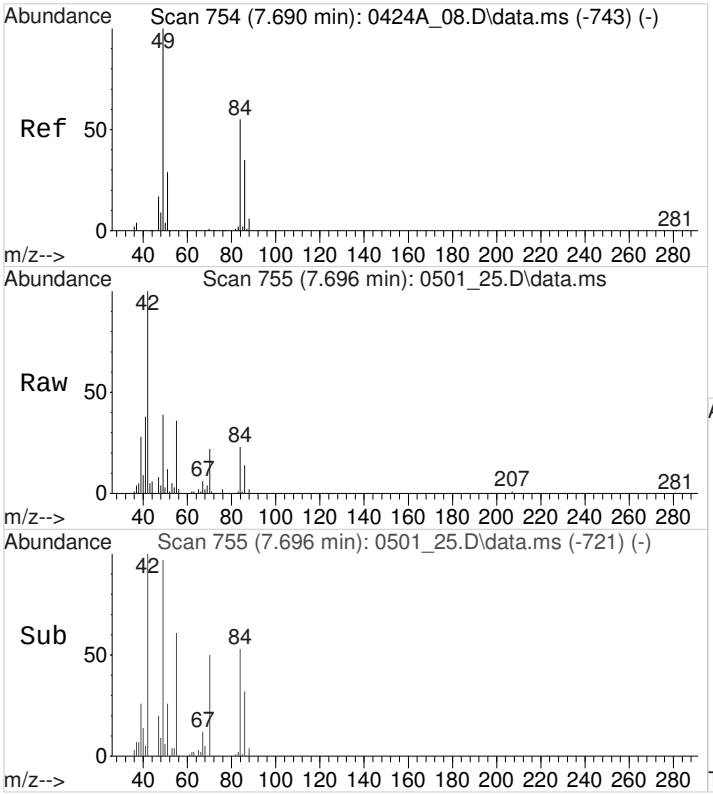


#30
ACETONITRILE
Concen: 32.1167412 ppbv
RT: 7.543 min Scan# 730
Delta R.T. -0.055 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 41 Resp: 392217

Ion	Ratio	Lower	Upper
41	100		
40	6.7	43.4	65.2#
39	42.7	15.9	23.9#

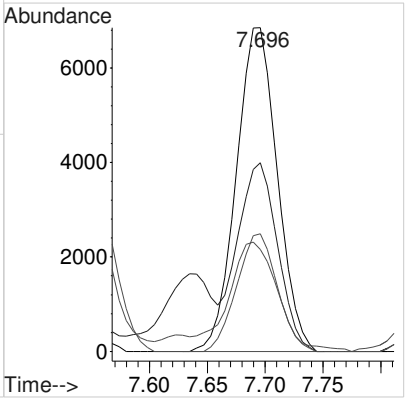


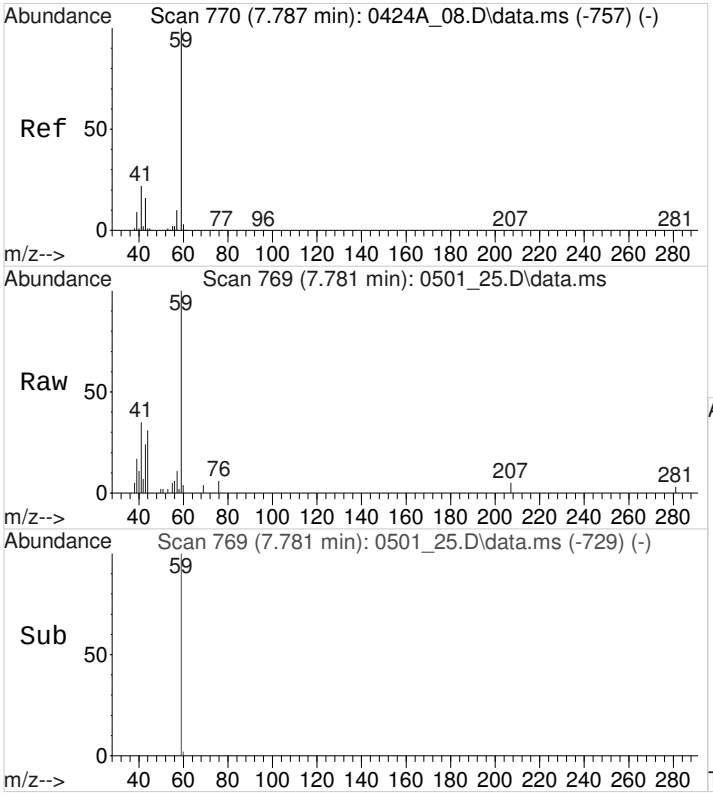


#31
Methylene Chloride
Concen: 1.0971479 ppbv
RT: 7.696 min Scan# 755
Delta R.T. 0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 49 Resp: 16845

Ion	Ratio	Lower	Upper
49	100		
84	57.2	44.9	67.3
86	35.9	28.4	42.6
51	40.6	23.9	35.9#

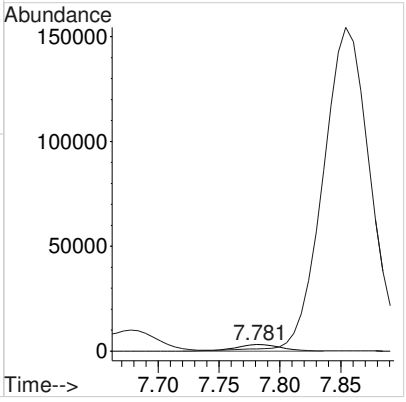


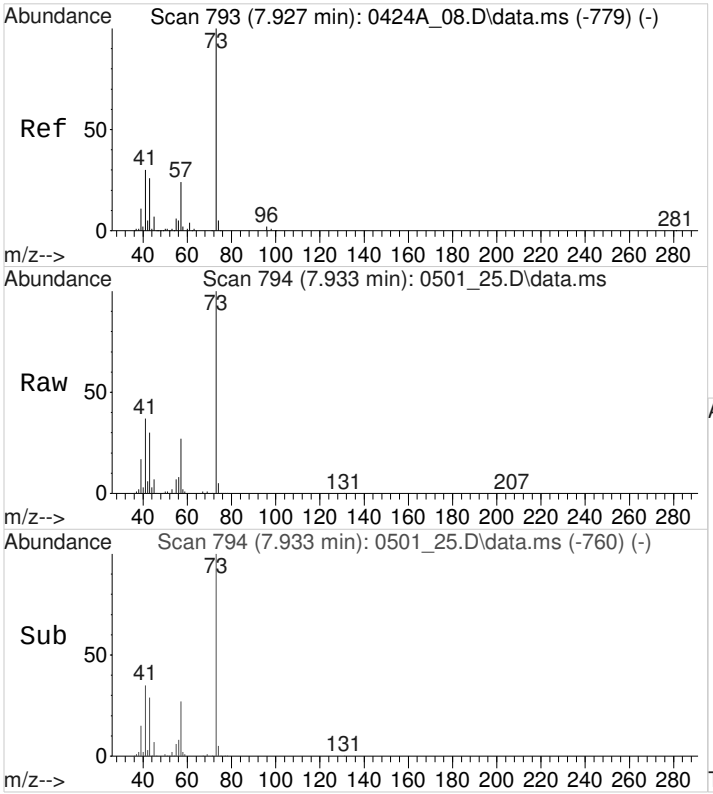


#32
TERT-BUTYL ALCOHOL
Concen: 0.3731988 ppbv
RT: 7.781 min Scan# 769
Delta R.T. -0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 59 Resp: 8153

Ion	Ratio	Lower	Upper
59	100		
41	0.0	18.7	28.1#

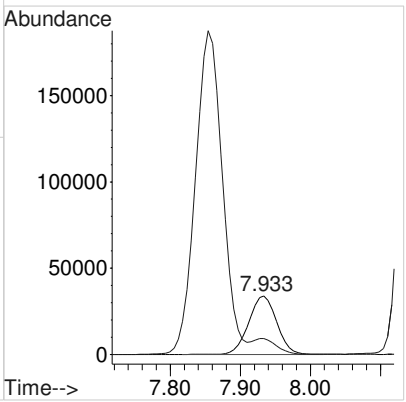


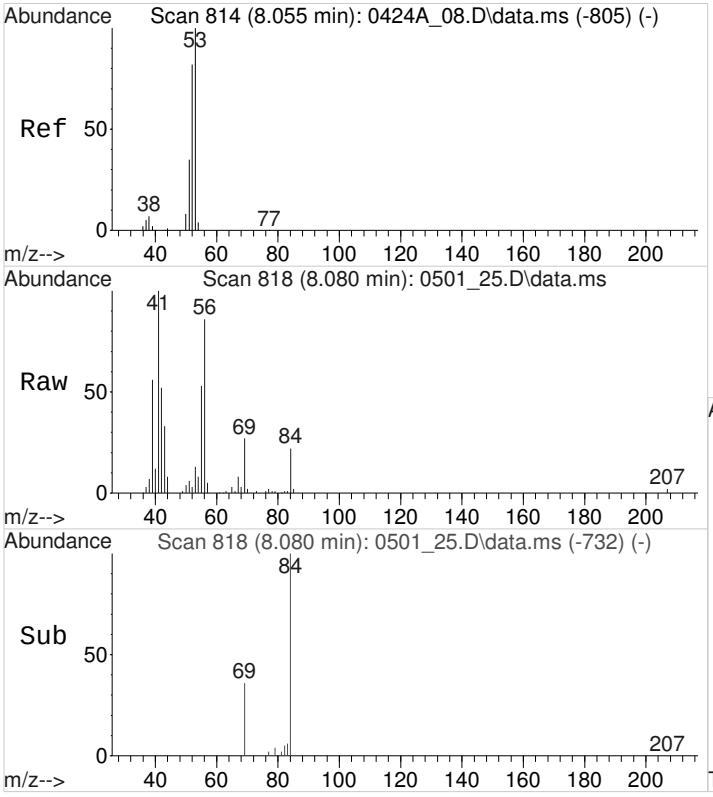


#33
Methyl Tert-Butyl Ether
Concen: 3.8924008 ppbv
RT: 7.933 min Scan# 794
Delta R.T. 0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 73 Resp: 93879

Ion	Ratio	Lower	Upper
73	100		
57	24.0	20.6	30.8

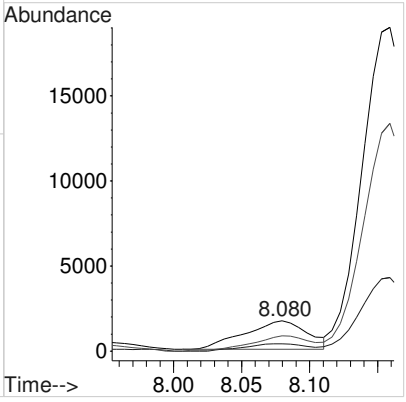


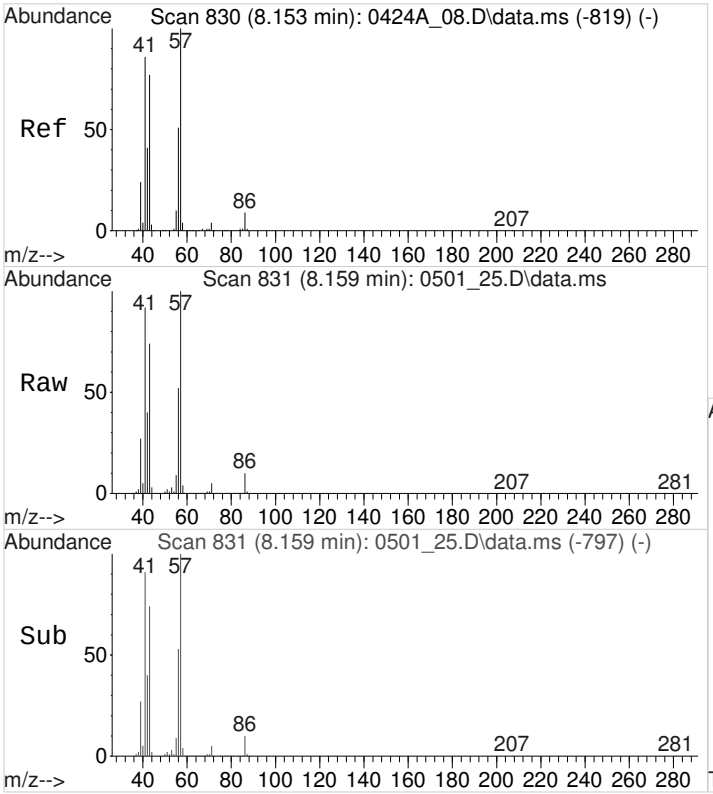


#35
ACRYLONITRILE
Concen: 0.5782582 ppbv
RT: 8.080 min Scan# 818
Delta R.T. 0.024 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 53 Resp: 5403

Ion	Ratio	Lower	Upper
53	100		
52	24.8	66.6	100.0#
51	48.1	29.1	43.7#

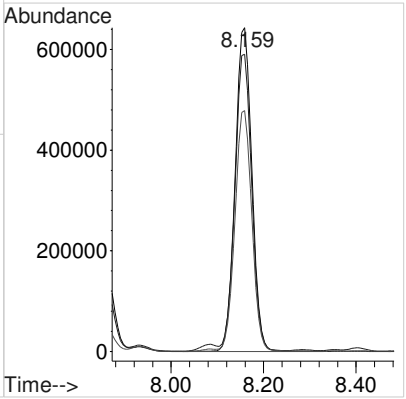


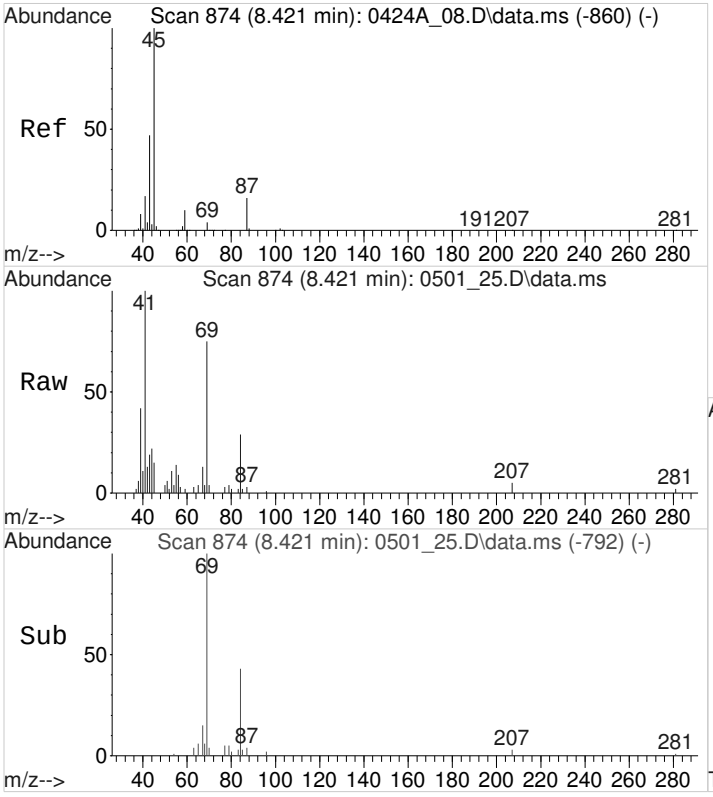


#36
n-Hexane
Concen: 108.1447787 ppbv
RT: 8.159 min Scan# 831
Delta R.T. 0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 57 Resp: 1609227

Ion	Ratio	Lower	Upper
57	100		
41	91.9	70.0	105.0
43	74.9	61.0	91.6

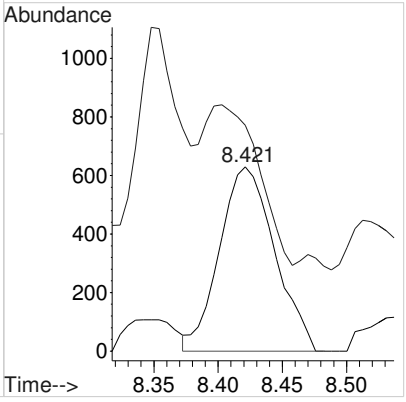


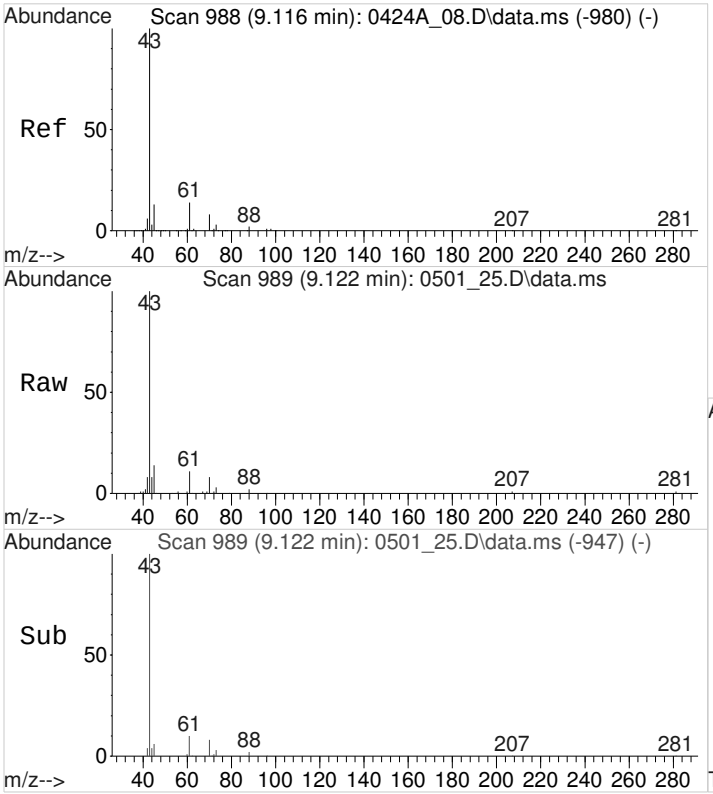


#39
DI-ISOPROPYL ETHER
Concen: 0.0511272 ppbv
RT: 8.421 min Scan# 874
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 45 Resp: 1872

Ion	Ratio	Lower	Upper
45	100		
43	0.0	37.5	56.3#

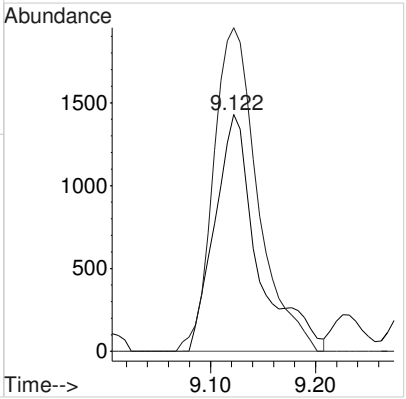


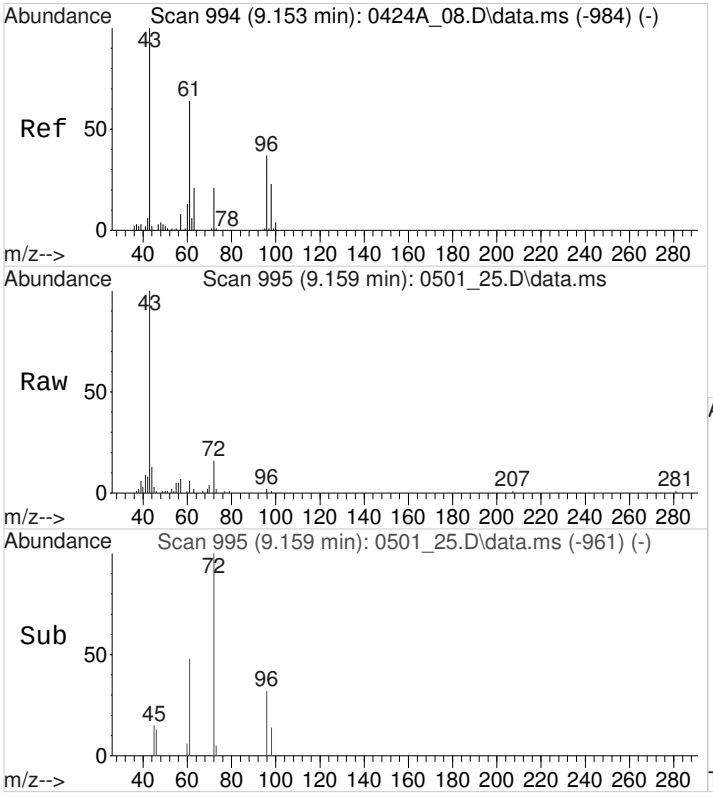


#41
ETHYL ACETATE
Concen: 1.5491028 ppbv
RT: 9.122 min Scan# 989
Delta R.T. 0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 70 Resp: 4032

Ion	Ratio	Lower	Upper
70	100		
61	141.7	566.1	849.1#

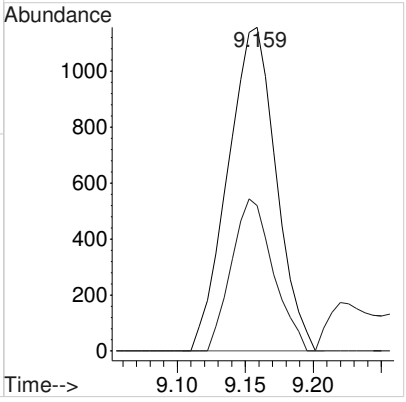


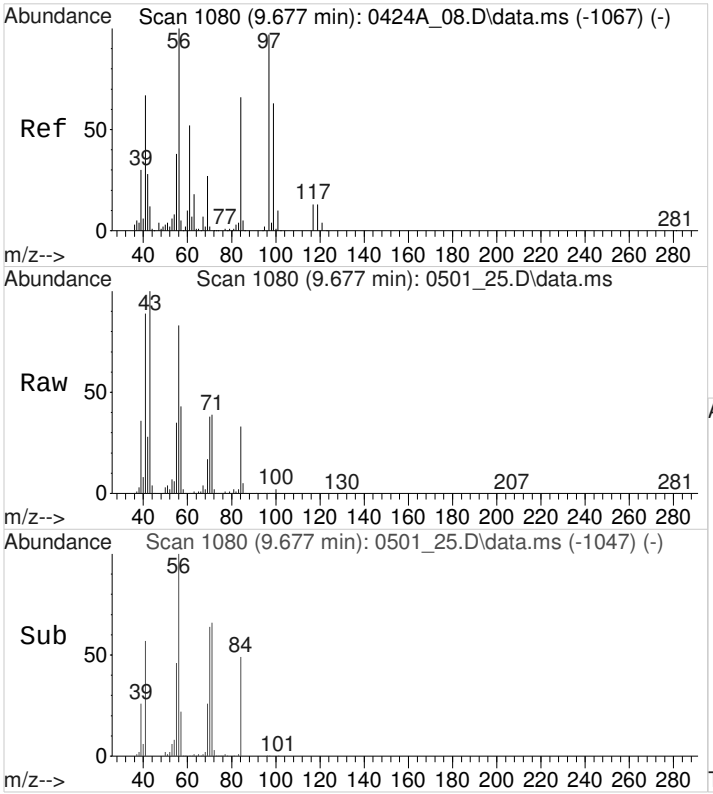


#42
2-Butanone (MEK)
Concen: 0.6223816 ppbv
RT: 9.159 min Scan# 995
Delta R.T. 0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 72 Resp: 2857

Ion	Ratio	Lower	Upper
72	100		
57	40.8	29.2	43.8

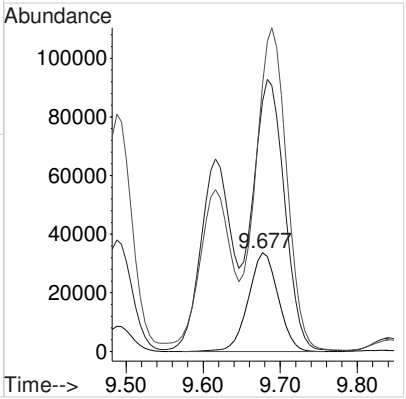


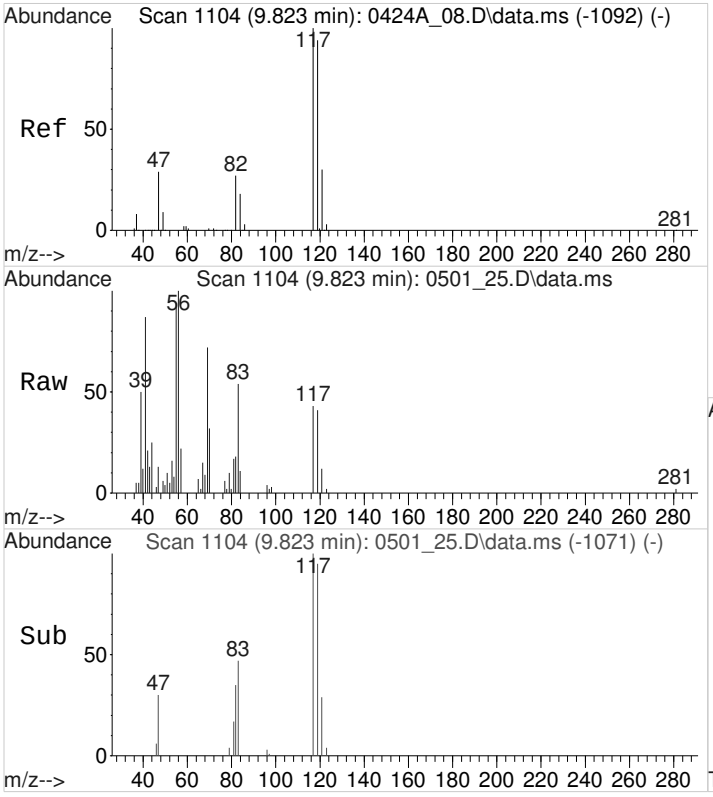


#46
Cyclohexane
Concen: 8.8636078 ppbv
RT: 9.677 min Scan# 1080
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 84 Resp: 90795

Ion	Ratio	Lower	Upper
84	100		
56	289.8	121.2	181.8#
41	338.3	82.6	123.8#

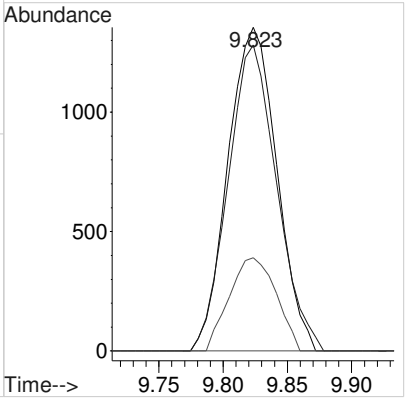


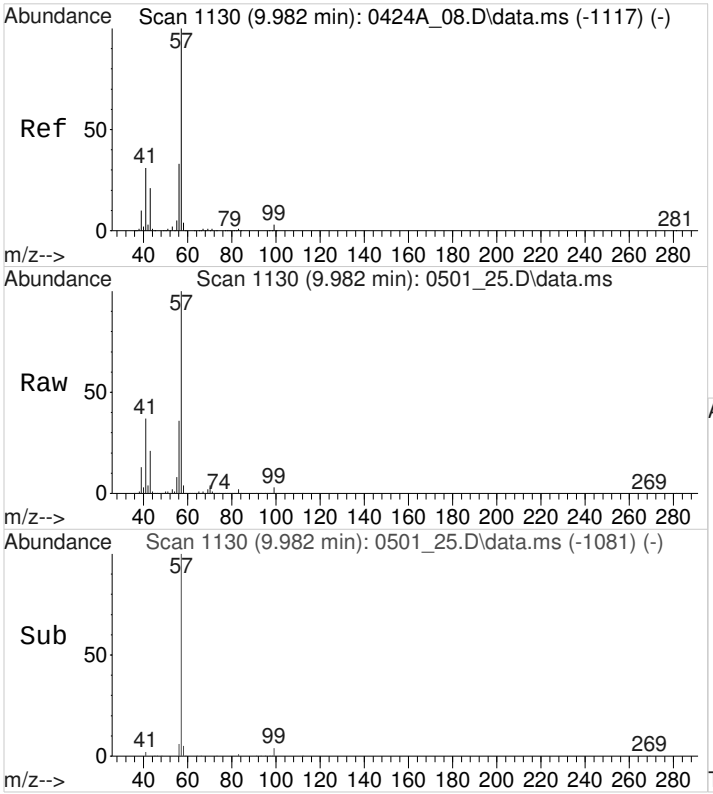


#48
Carbon Tetrachloride
Concen: 0.1793525 ppbv
RT: 9.823 min Scan# 1104
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion:117 Resp: 3580

Ion	Ratio	Lower	Upper
117	100		
119	94.1	76.7	115.1
121	27.6	24.0	36.0

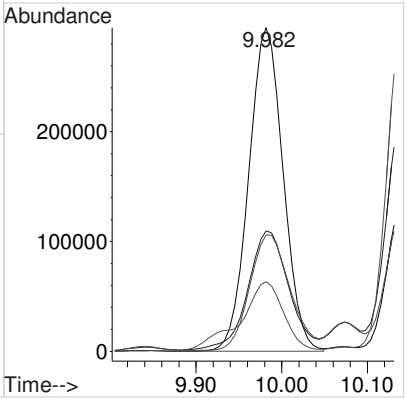


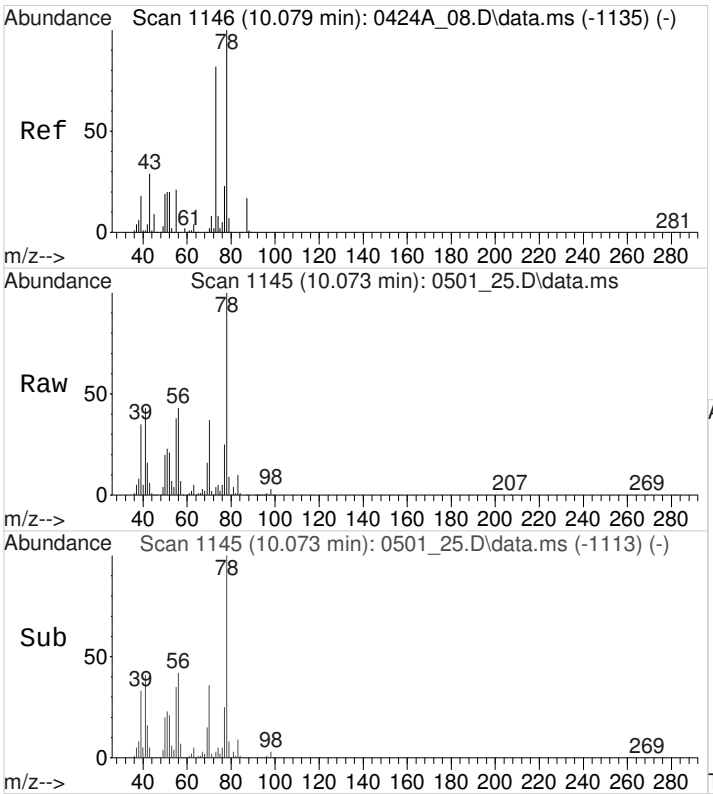


#49
2,2,4-Trimethylpentane
Concen: 17.2457016 ppbv
RT: 9.982 min Scan# 1130
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 57 Resp: 821908

Ion	Ratio	Lower	Upper
57	100		
41	44.3	25.6	38.4#
43	27.2	17.0	25.6#
56	42.5	26.2	39.2#

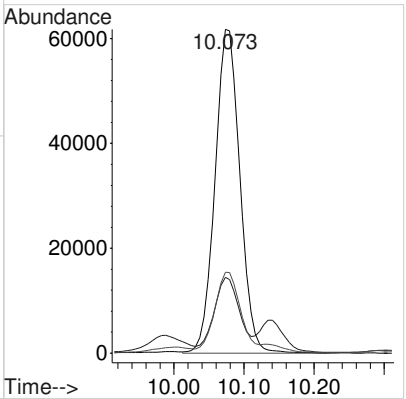


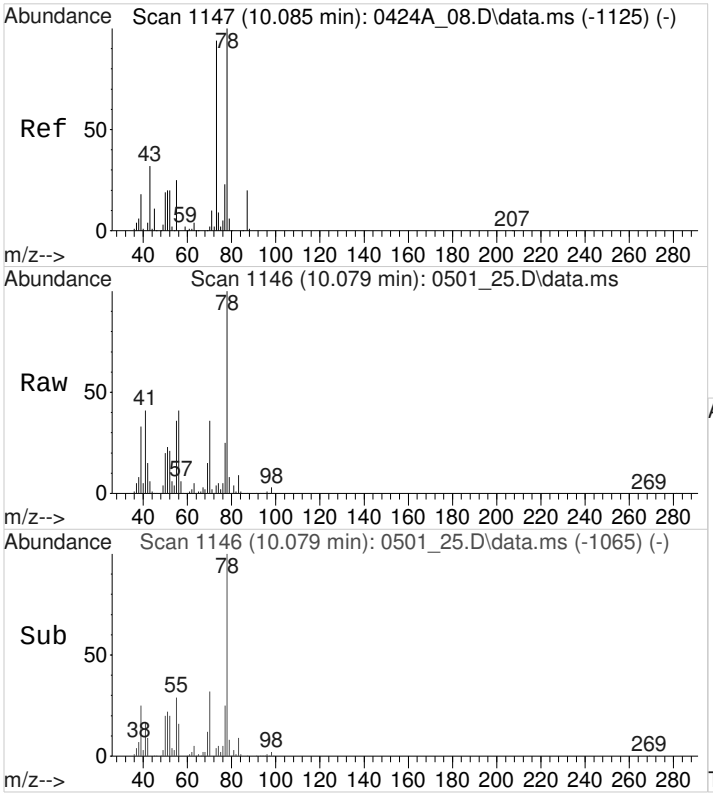


#51
Benzene
Concen: 4.7889254 ppbv
RT: 10.073 min Scan# 1145
Delta R.T. -0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 78 Resp: 152609

Ion	Ratio	Lower	Upper
78	100		
51	23.7	16.6	24.8
77	23.0	18.4	27.6

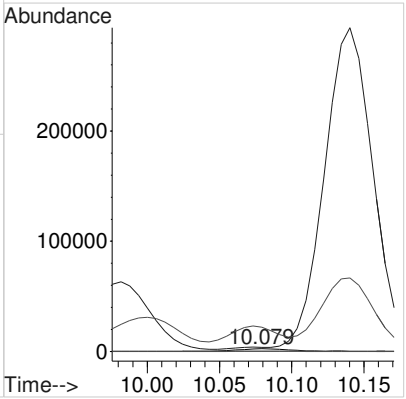


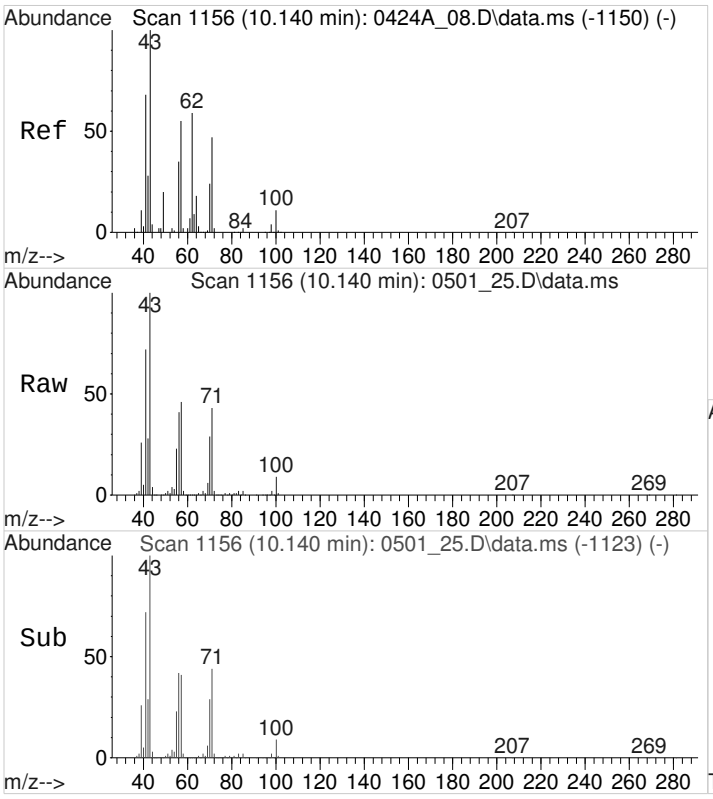


#52
TERT-AMYL METHYL ETHER
Concen: 0.2177909 ppbv
RT: 10.079 min Scan# 1146
Delta R.T. -0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 73 Resp: 5809

Ion	Ratio	Lower	Upper
73	100		
43	0.0	33.9	50.9#
55	756.6	23.4	35.0#
87	11.4	16.7	25.1#

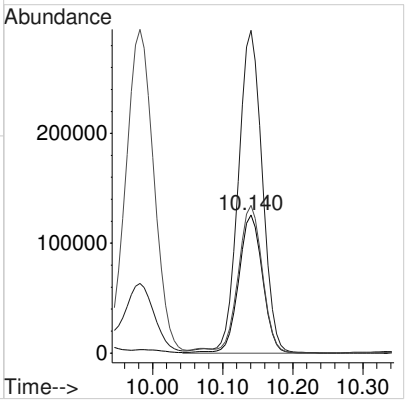


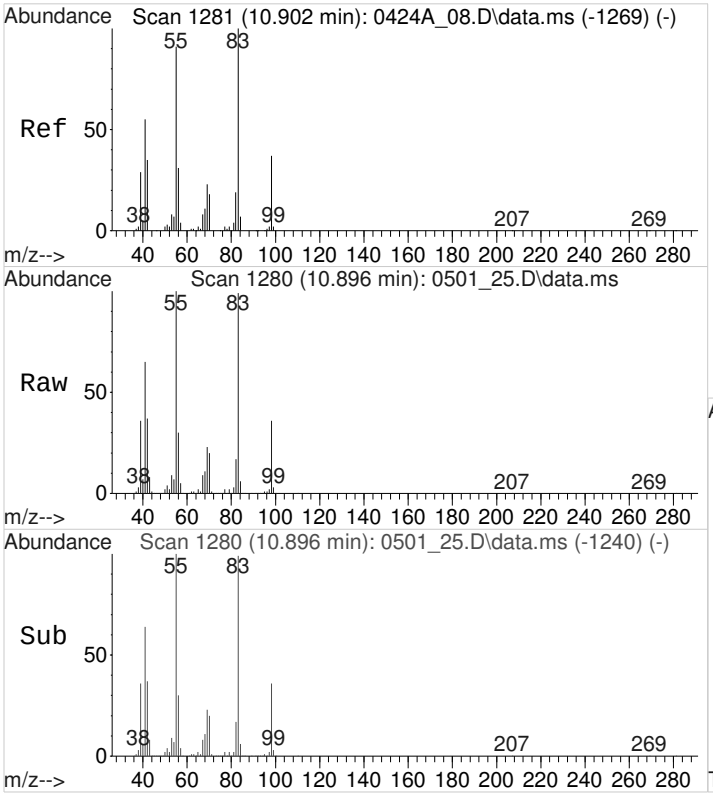


#54
Heptane
Concen: 30.4839423 ppbv
RT: 10.140 min Scan# 1156
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 71 Resp: 296465

Ion	Ratio	Lower	Upper
71	100		
43	235.6	197.5	296.3
57	107.5	90.6	135.8

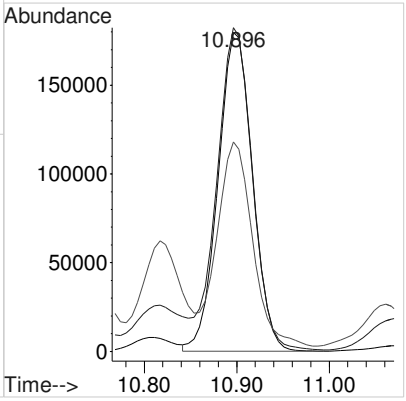


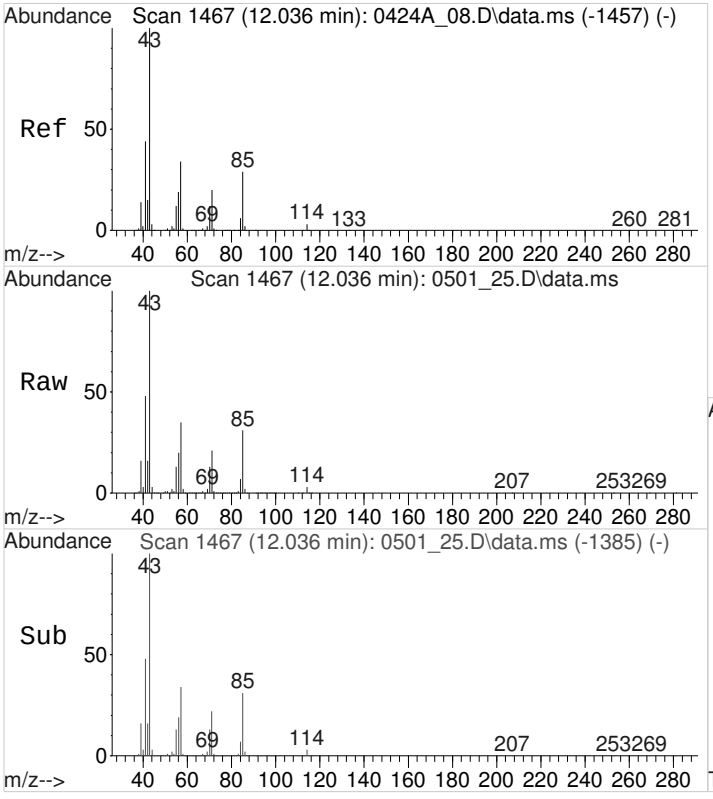


#57
METHYL CYCLOHEXANE
Concen: 30.0901755 ppbv
RT: 10.896 min Scan# 1280
Delta R.T. -0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 83 Resp: 464946

Ion	Ratio	Lower	Upper
83	100		
55	103.7	108.7	163.1#
41	66.5	69.4	104.2#

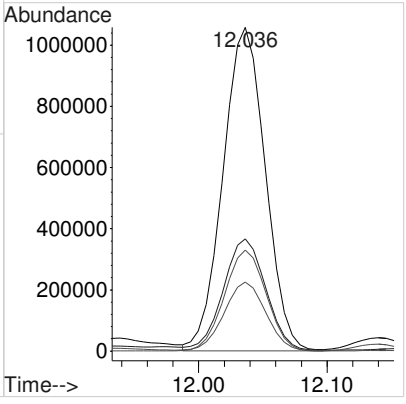


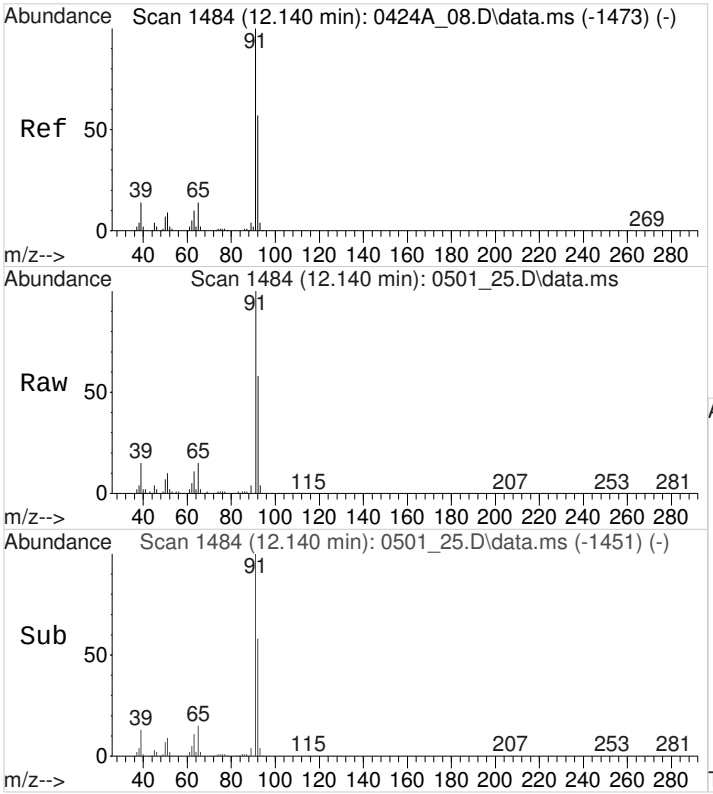


#64
n-OCTANE
Concen: 83.4365224 ppbv
RT: 12.036 min Scan# 1467
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 43 Resp: 2421855

Ion	Ratio	Lower	Upper
43	100		
57	34.5	27.2	40.8
85	30.7	22.6	33.8
71	20.9	16.0	24.0

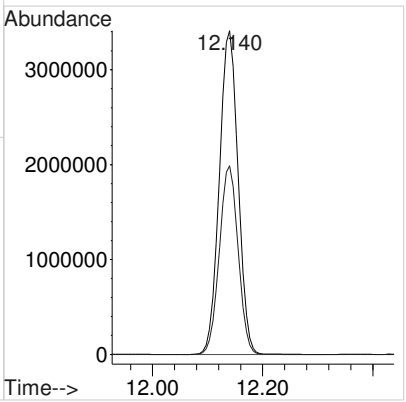


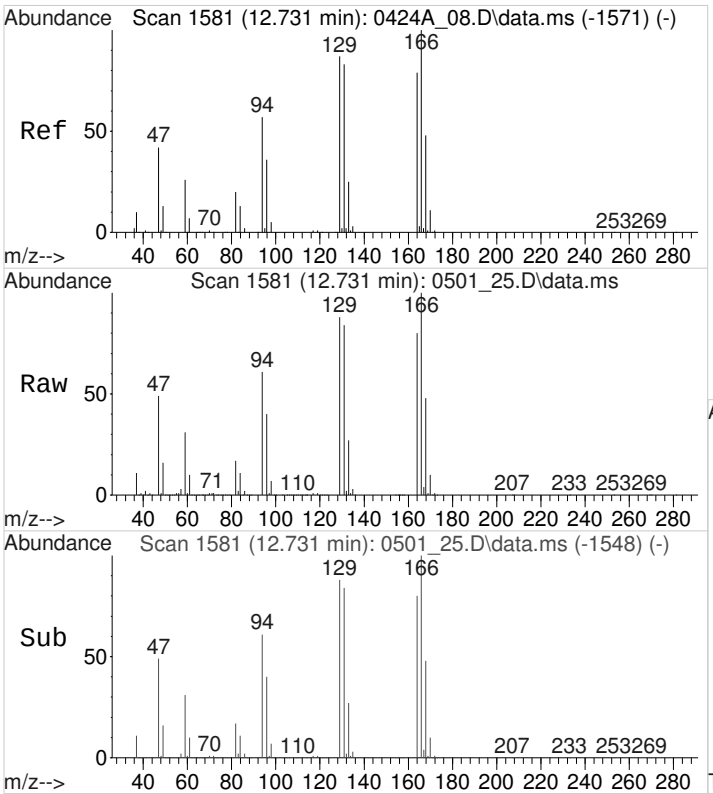


#65
Toluene
Concen: 235.5533483 ppbv
RT: 12.140 min Scan# 1484
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 91 Resp: 8036604

Ion	Ratio	Lower	Upper
91	100		
92	58.3	45.8	68.6

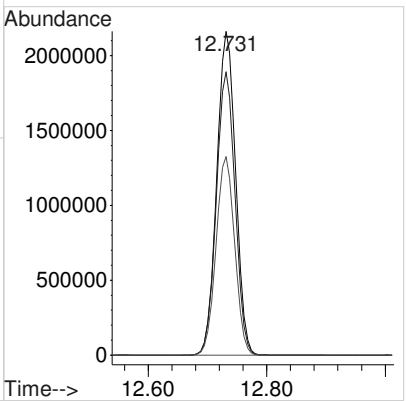


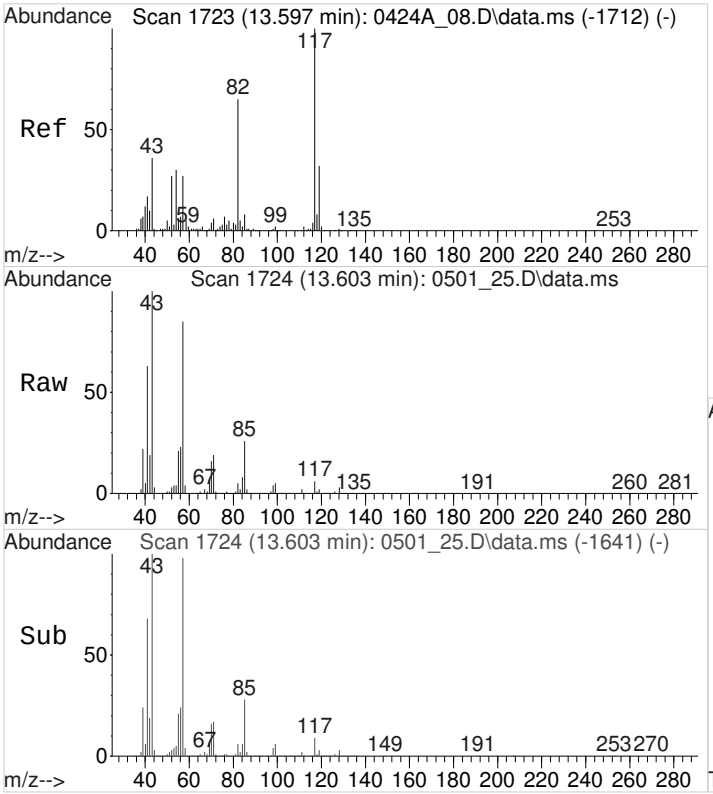


#68
Tetrachloroethene
Concen: 383.4790726 ppbv
RT: 12.731 min Scan# 1581
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion:166 Resp: 4767429

Ion	Ratio	Lower	Upper
166	100		
129	87.1	69.4	104.0
94	60.8	46.2	69.4

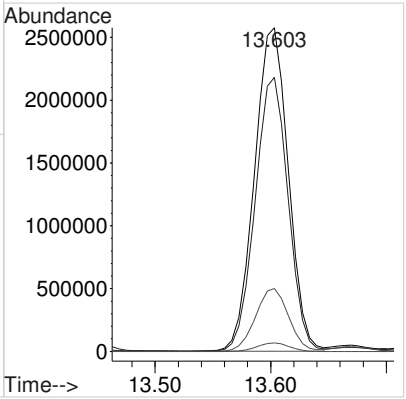


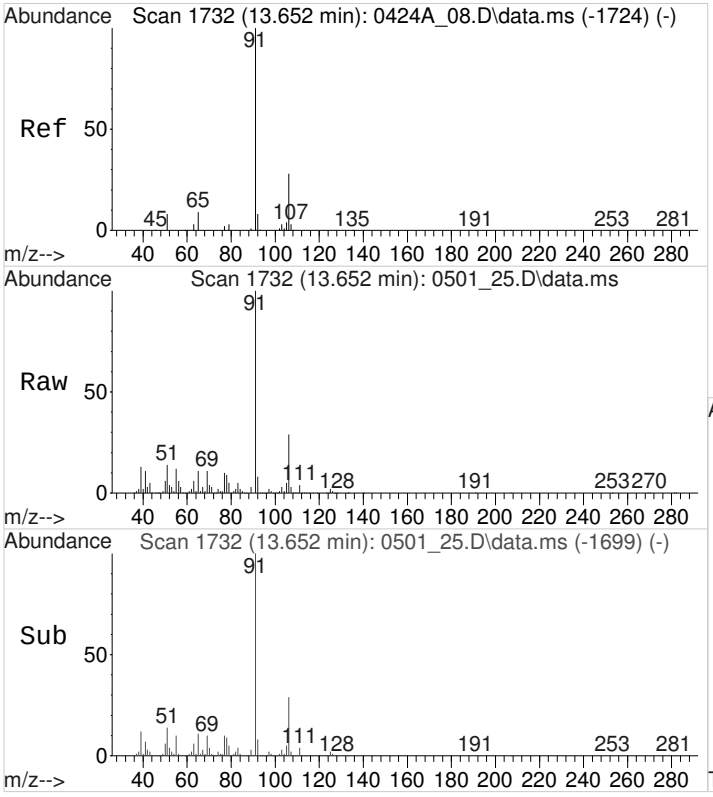


#73
NONANE
Concen: 192.5717707 ppbv
RT: 13.603 min Scan# 1724
Delta R.T. 0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 43 Resp: 5220154

Ion	Ratio	Lower	Upper
43	100		
57	82.5	60.8	91.2
71	19.0	13.4	20.2
128	2.5	1.5	2.3#

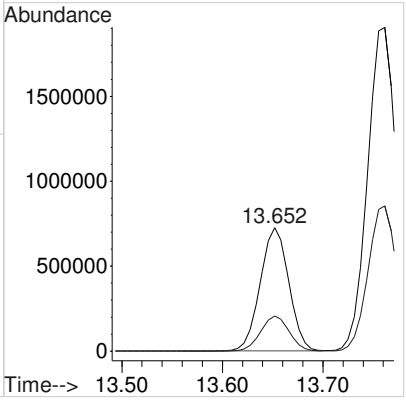


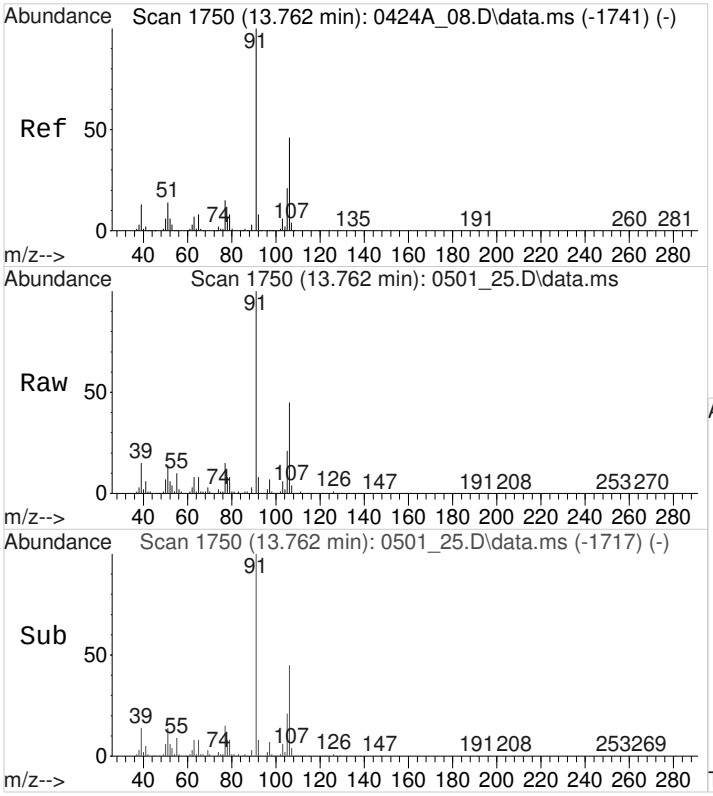


#75
Ethylbenzene
Concen: 35.4848912 ppbv
RT: 13.652 min Scan# 1732
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 91 Resp: 1429917

Ion	Ratio	Lower	Upper
91	100		
106	28.4	22.8	34.2

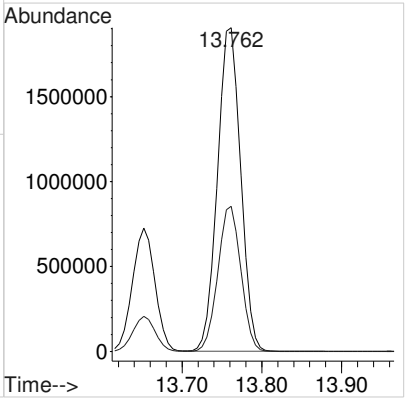


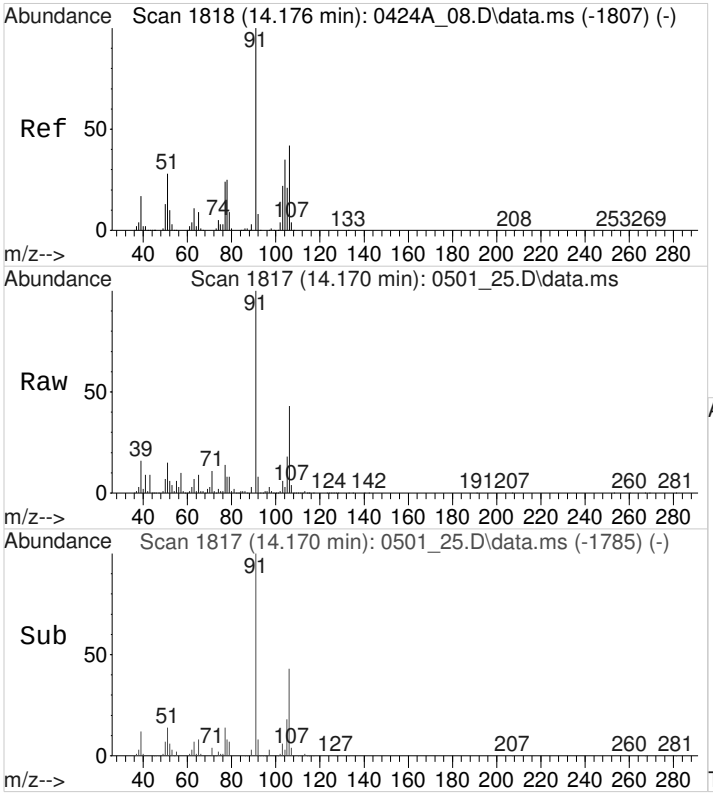


#76
M&P-Xylene
Concen: 127.3422234 ppbv
RT: 13.762 min Scan# 1750
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 91 Resp: 3853435

Ion	Ratio	Lower	Upper
91	100		
106	44.5	36.5	54.7

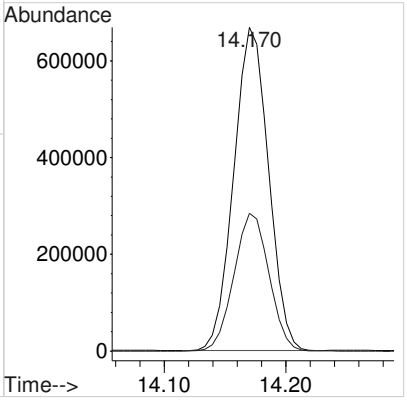


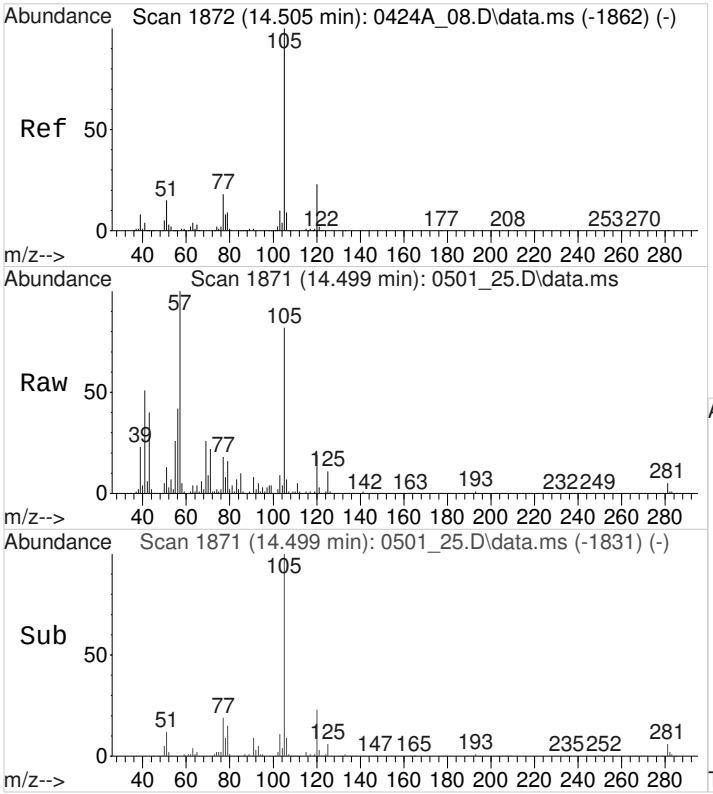


#77
O-Xylene
Concen: 45.9940600 ppbv
RT: 14.170 min Scan# 1817
Delta R.T. -0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 91 Resp: 1325305

Ion	Ratio	Lower	Upper
91	100		
106	43.1	34.0	51.0

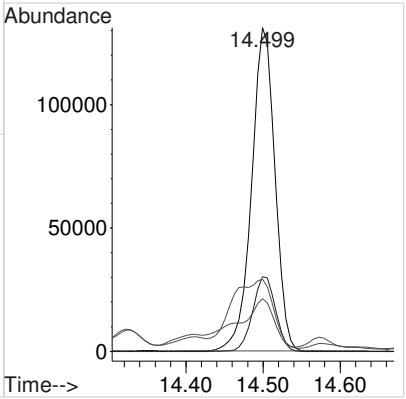


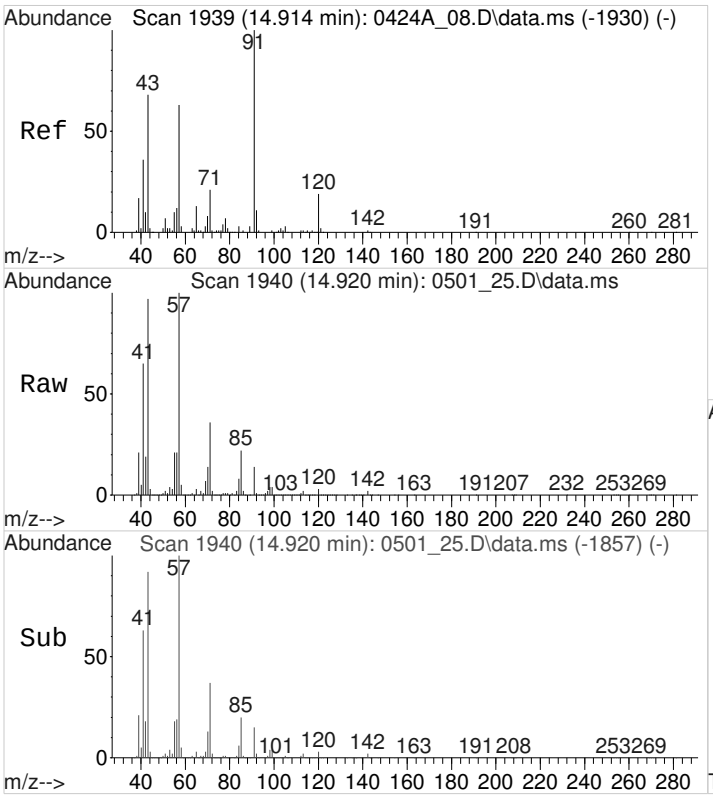


#82
Isopropylbenzene
Concen: 7.4464601 ppbv
RT: 14.499 min Scan# 1871
Delta R.T. -0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion:105 Resp: 275567

Ion	Ratio	Lower	Upper
105	100		
120	22.7	18.9	28.3
77	38.1	15.0	22.4#
51	24.2	11.6	17.4#

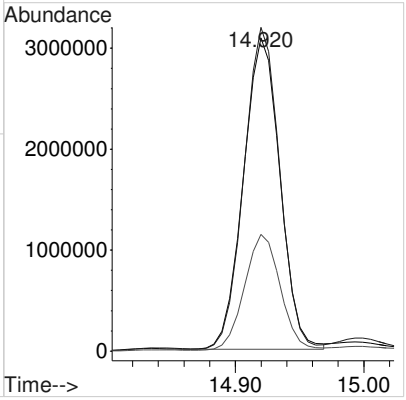


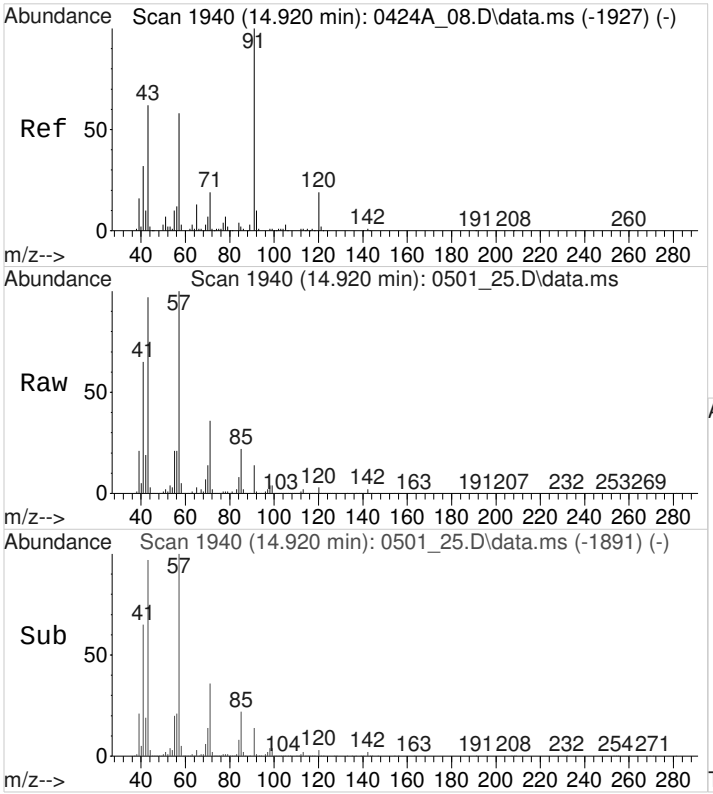


#83
n-DECANE
Concen: 210.3606620 ppbv
RT: 14.920 min Scan# 1940
Delta R.T. 0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 43 Resp: 6114769

Ion	Ratio	Lower	Upper
43	100		
57	100.3	73.8	110.8
71	36.3	24.4	36.6

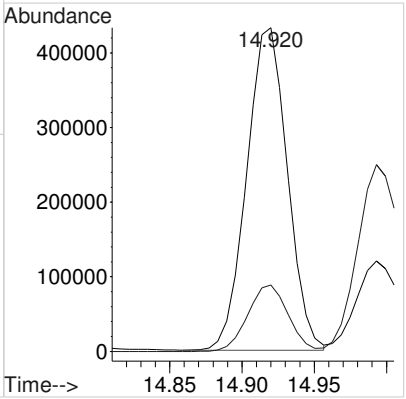


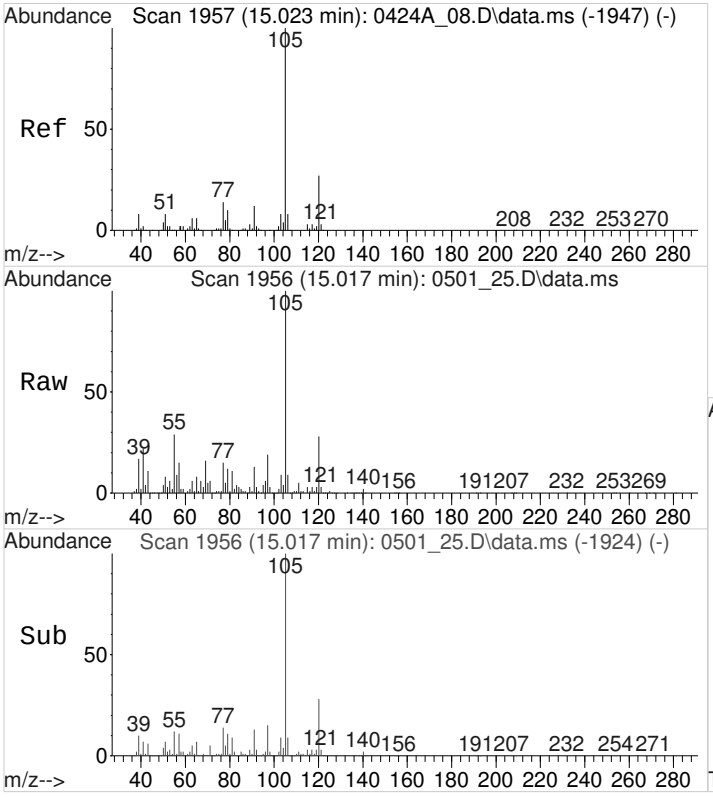


#85
n-Propylbenzene
Concen: 15.5124073 ppbv
RT: 14.920 min Scan# 1940
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 91 Resp: 844840

Ion	Ratio	Lower	Upper
91	100		
120	20.3	15.7	23.5

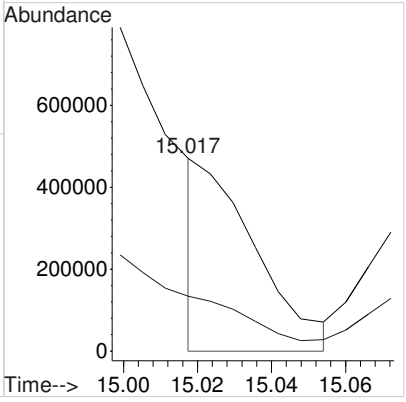


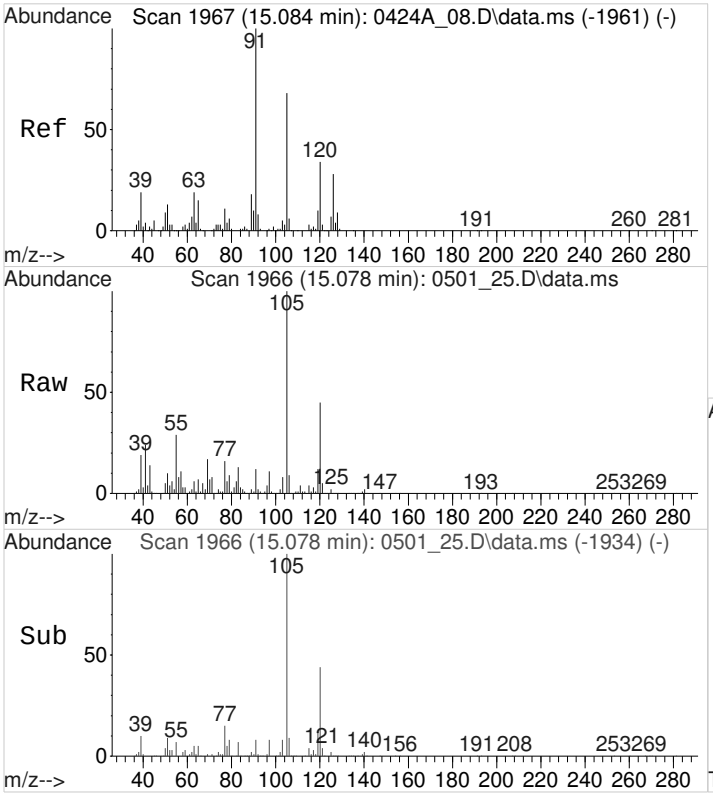


#86
4-Ethyltoluene
Concen: 12.5051263 ppbv m
RT: 15.017 min Scan# 1956
Delta R.T. -0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion:105 Resp: 491016

Ion	Ratio	Lower	Upper
105	100		
120	136.4	21.3	31.9#

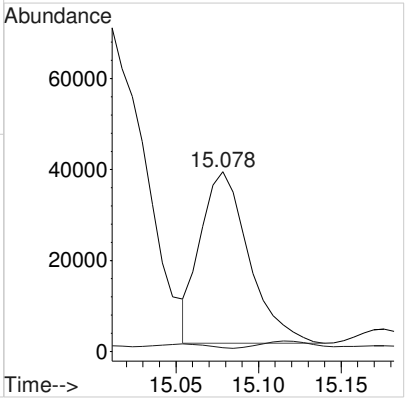


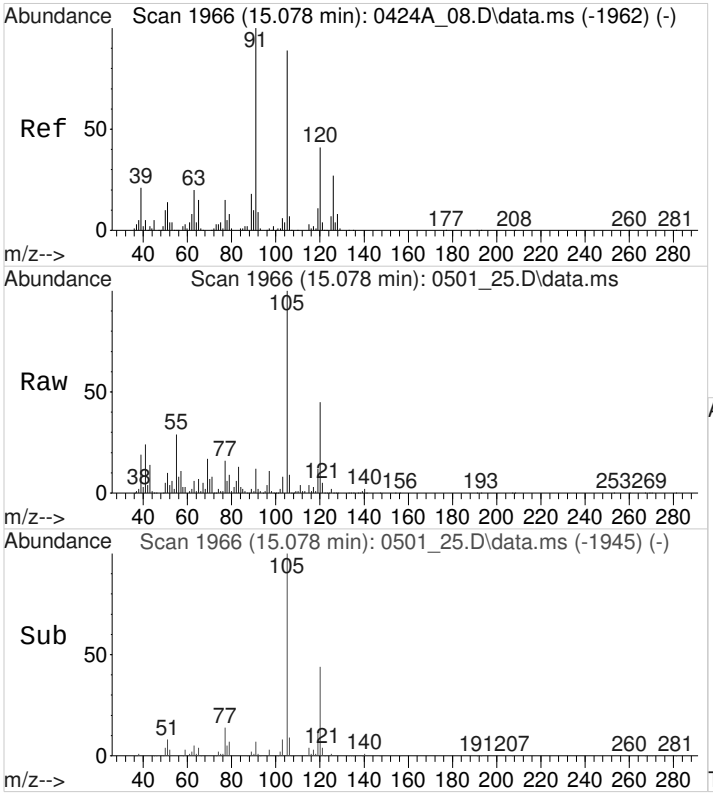


#87
2-Chlorotoluene
Concen: 2.0201121 ppbv
RT: 15.078 min Scan# 1966
Delta R.T. -0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 91 Resp: 76950

Ion	Ratio	Lower	Upper
91	100		
126	4.8	21.8	32.6#

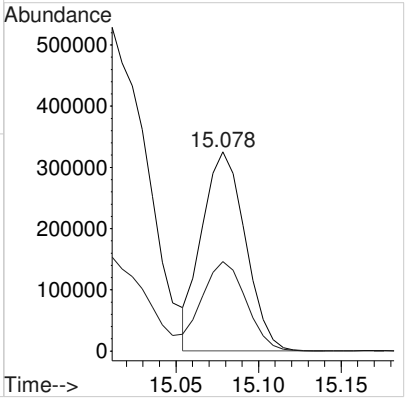


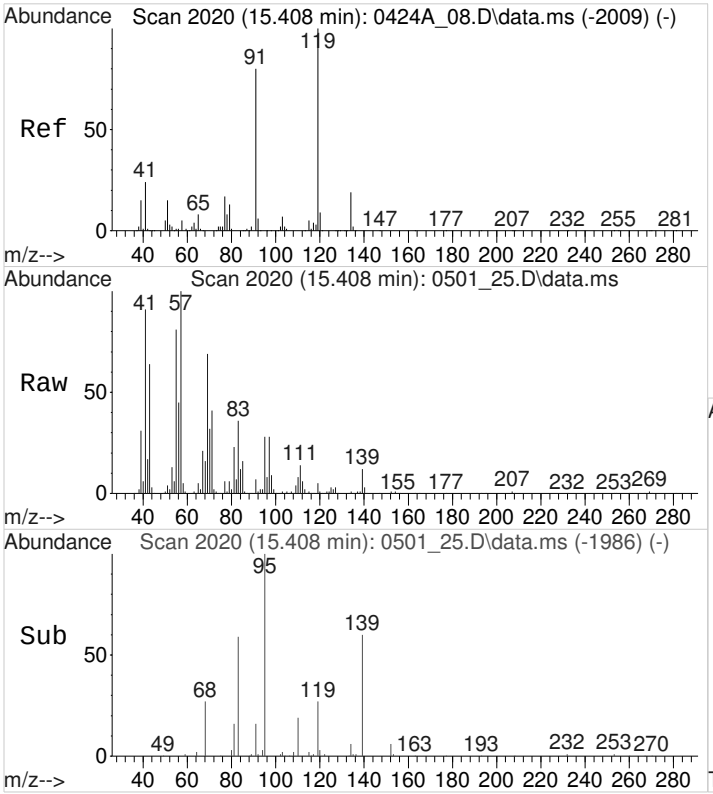


#89
1,3,5-Trimethylbenzene
Concen: 17.8249674 ppbv
RT: 15.078 min Scan# 1966
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion:105 Resp: 594706

Ion	Ratio	Lower	Upper
105	100		
120	46.9	37.8	56.8

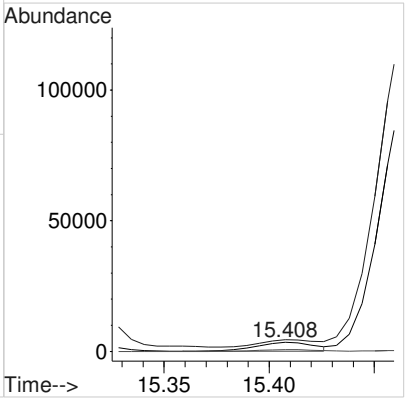


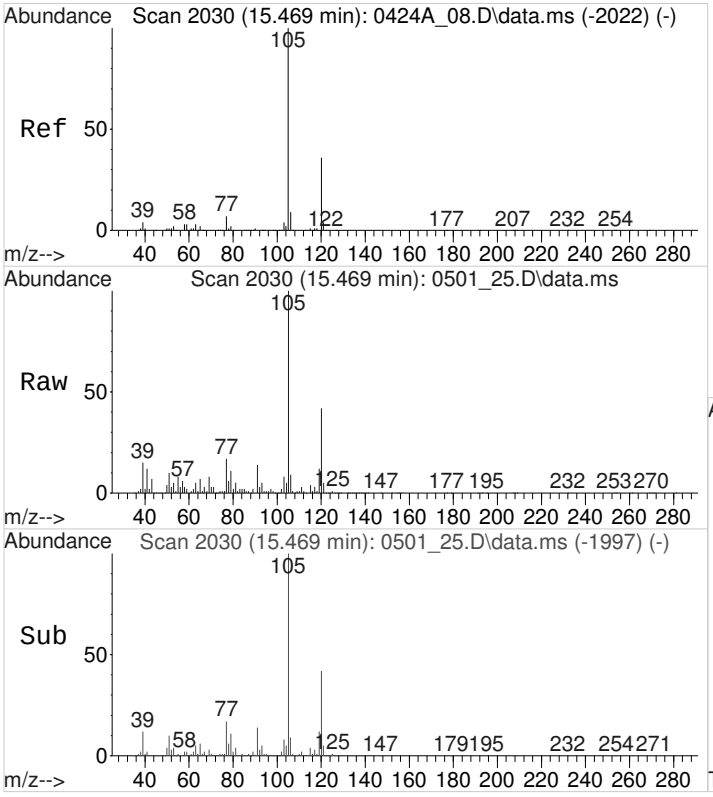


#90
tert-Butylbenzene
Concen: 0.2282387 ppbv
RT: 15.408 min Scan# 2020
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion:119 Resp: 6464

Ion	Ratio	Lower	Upper
119	100		
91	0.0	64.8	97.2#
134	22.0	15.0	22.4

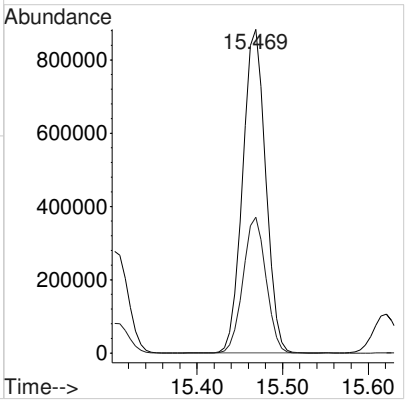


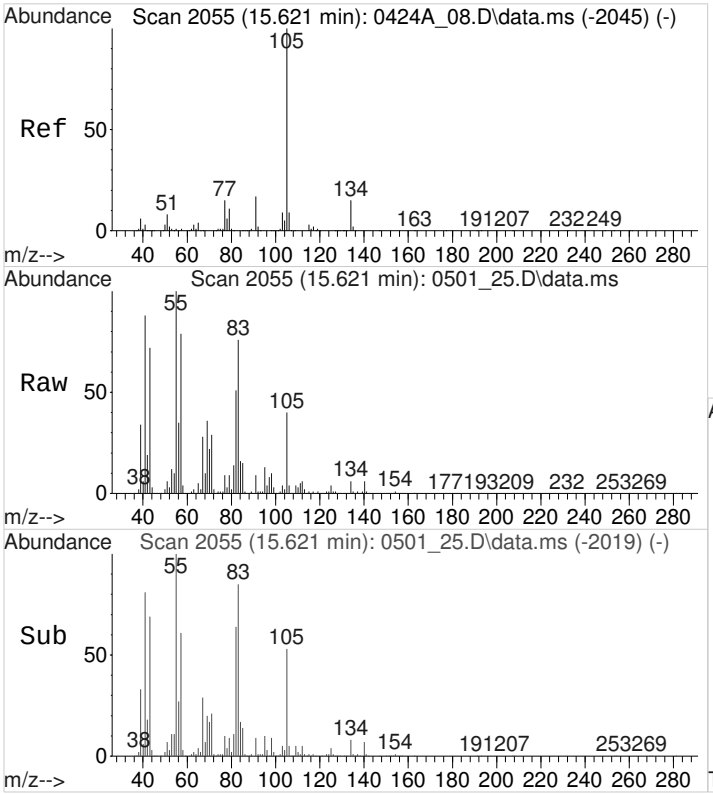


#91
1,2,4-Trimethylbenzene
Concen: 49.3111749 ppbv
RT: 15.469 min Scan# 2030
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion:105 Resp: 1646834

Ion	Ratio	Lower	Upper
105	100		
120	41.9	33.4	50.2

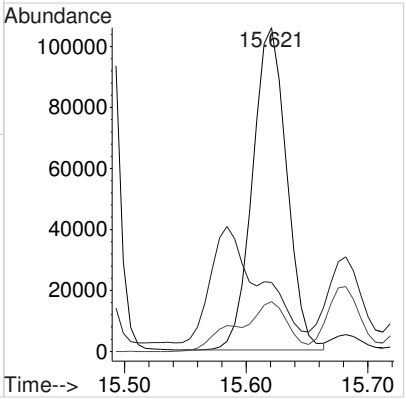


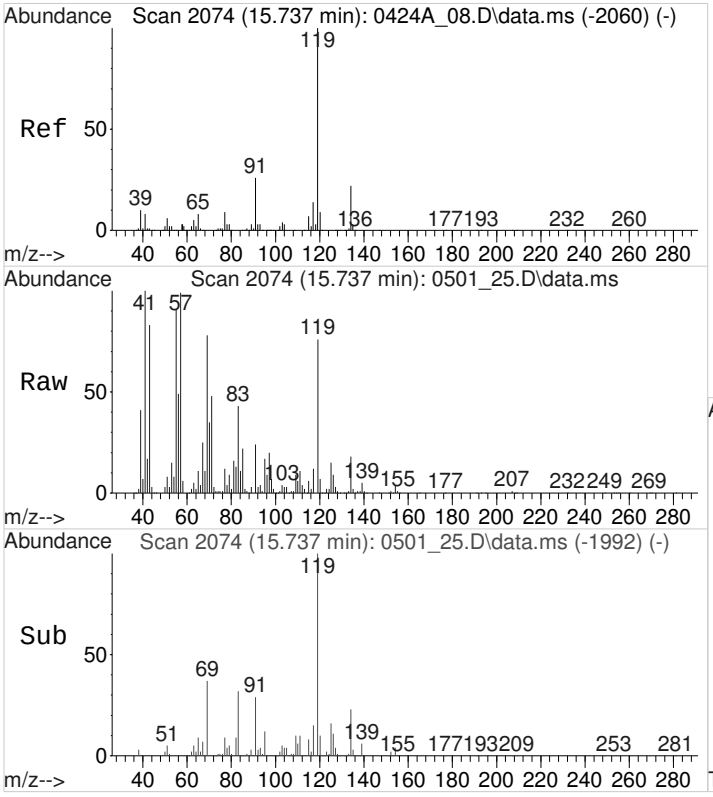


#92
sec-Butylbenzene
Concen: 4.2754292 ppbv
RT: 15.621 min Scan# 2055
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion:105 Resp: 206348

Ion	Ratio	Lower	Upper
105	100		
91	54.2	13.8	20.8#
134	22.9	12.6	19.0#

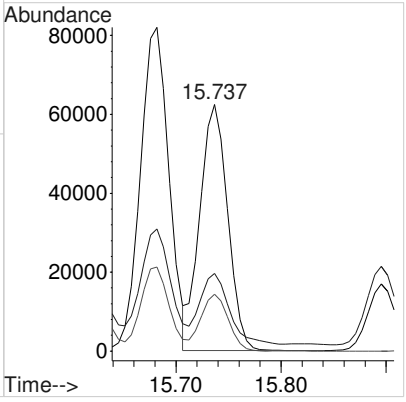


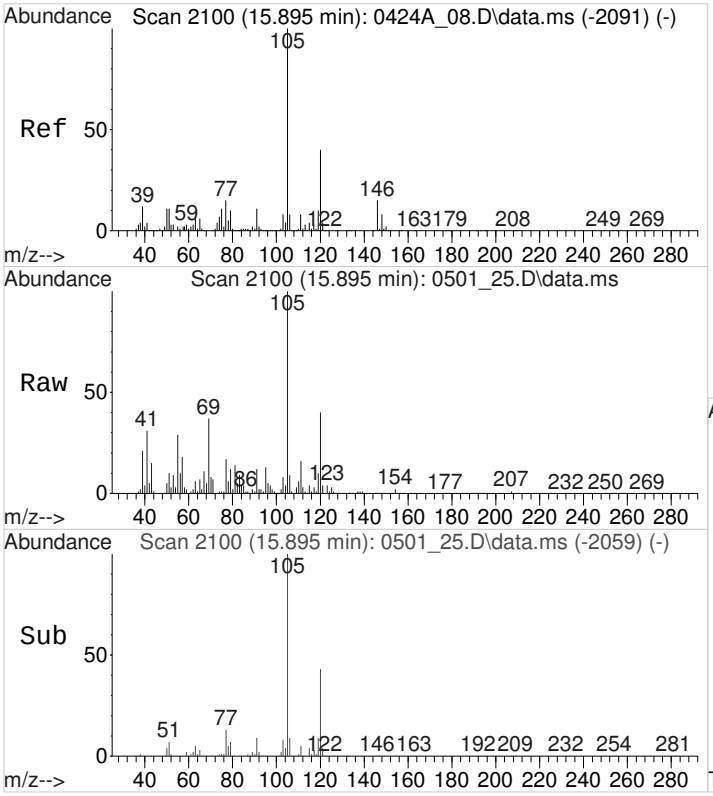


#94
P-ISOPROPYLTOLUENE
Concen: 2.9851642 ppbv
RT: 15.737 min Scan# 2074
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion:119 Resp: 115067

Ion	Ratio	Lower	Upper
119	100		
91	29.6	22.0	33.0
134	22.3	18.7	28.1

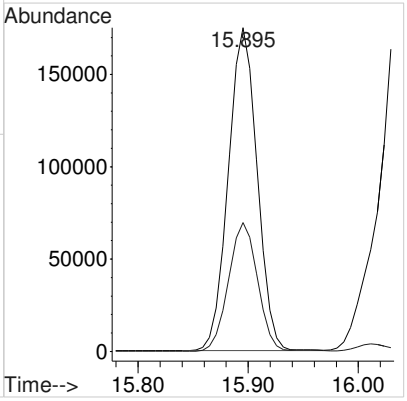


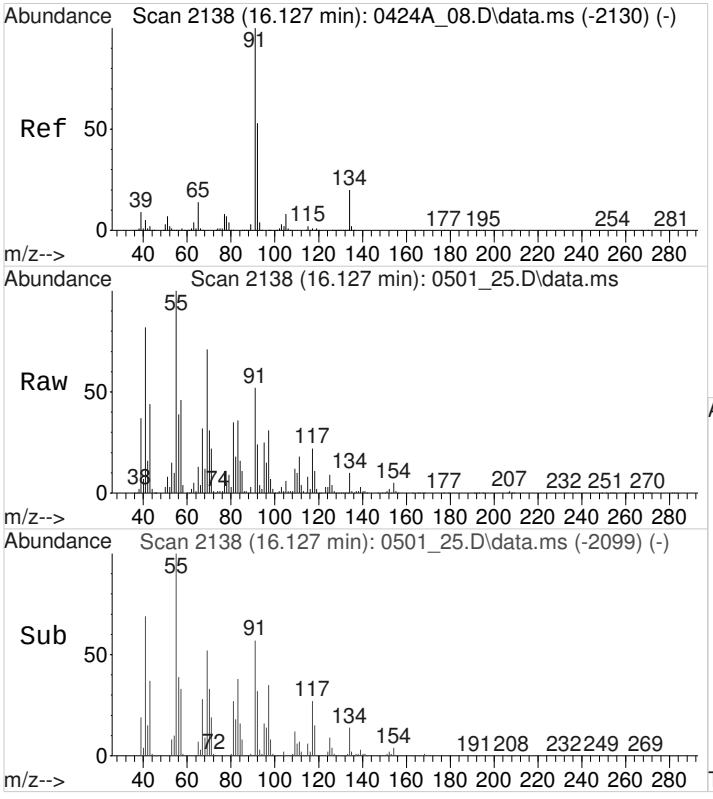


#96
1,2,3-TRIMETHYLBENZENE
Concen: 9.3091406 ppbv
RT: 15.895 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion:105 Resp: 317747

Ion	Ratio	Lower	Upper
105	100		
120	40.0	32.1	48.1

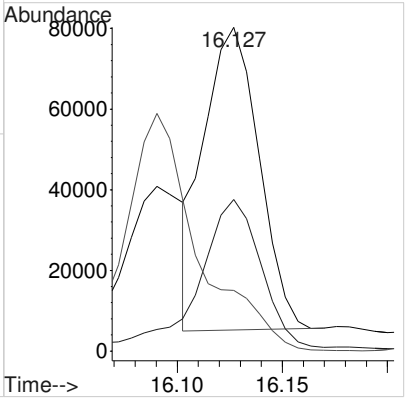


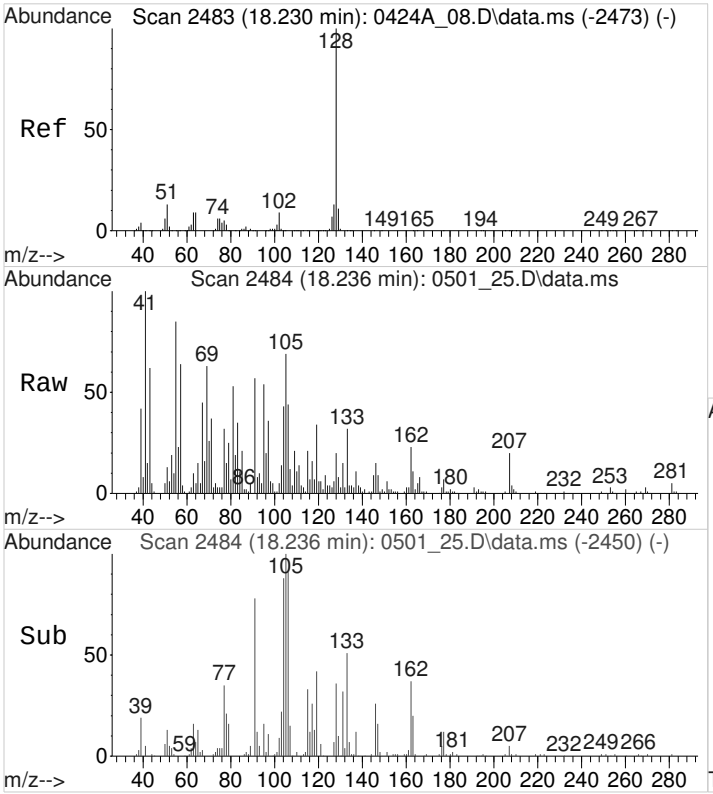


#98
n-Butylbenzene
Concen: 3.1019412 ppbv
RT: 16.127 min Scan# 2138
Delta R.T. 0.000 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion: 91 Resp: 136461

Ion	Ratio	Lower	Upper
91	100		
92	55.9	42.6	63.8
134	0.0	15.8	23.8#

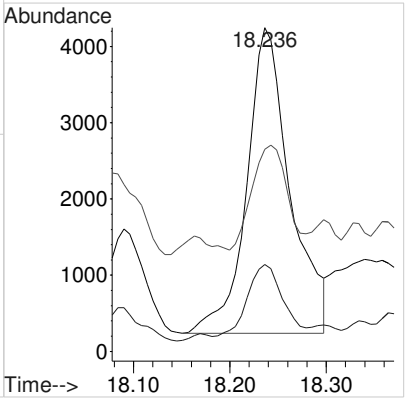




#103
Naphthalene
Concen: 0.2515276 ppbv
RT: 18.236 min Scan# 2484
Delta R.T. 0.006 min
Lab File: 0501_25.D
Acq: 2 May 2024 3:51 am

Tgt Ion:128 Resp: 12544

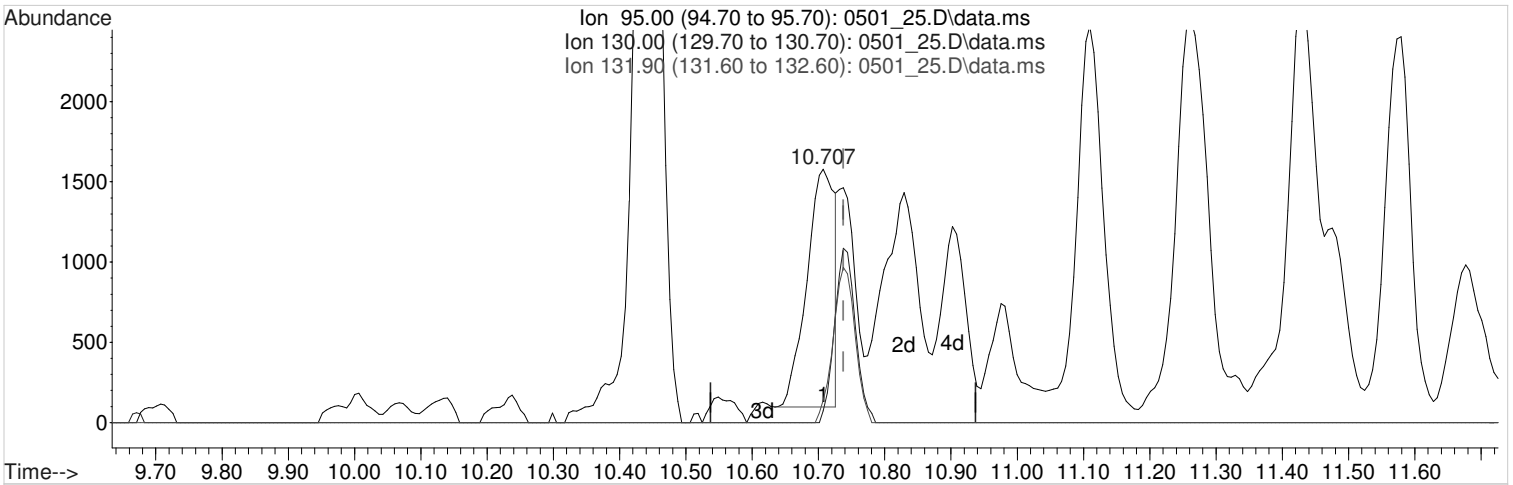
Ion	Ratio	Lower	Upper
128	100		
102	19.0	7.4	11.0#
51	27.9	9.8	14.8#

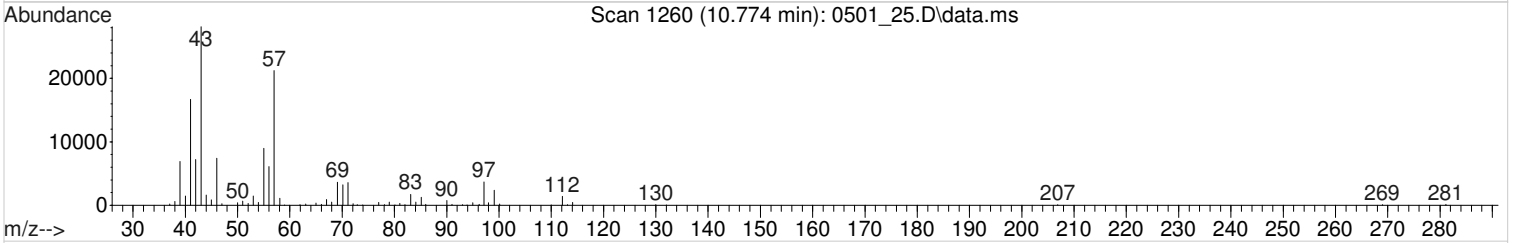


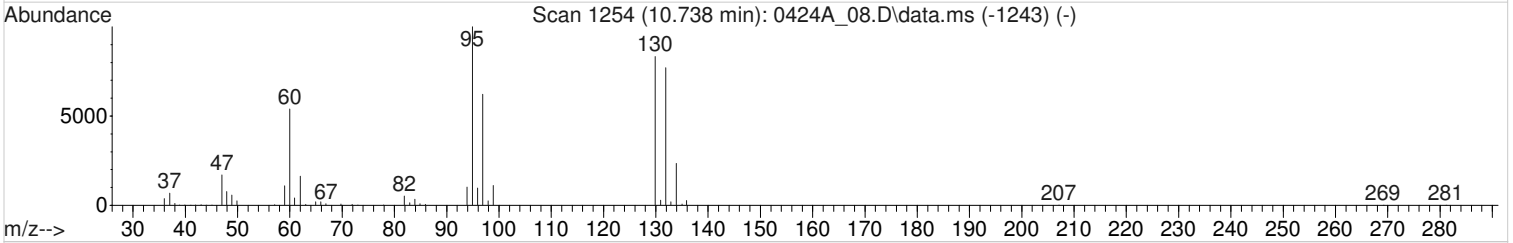
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_25.D
Acq On : 2 May 2024 3:51 am
Operator :
Sample : L1731355-01 1x WG2278229
Misc : 24D29341
ALS Vial : 25 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 02 07:31:01 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration







TIC: 0501_25.D\data.ms

(55) Trichloroethene (T,M)

10.707min (-0.030) 0.3328895 ppbv

Qvalue = 69

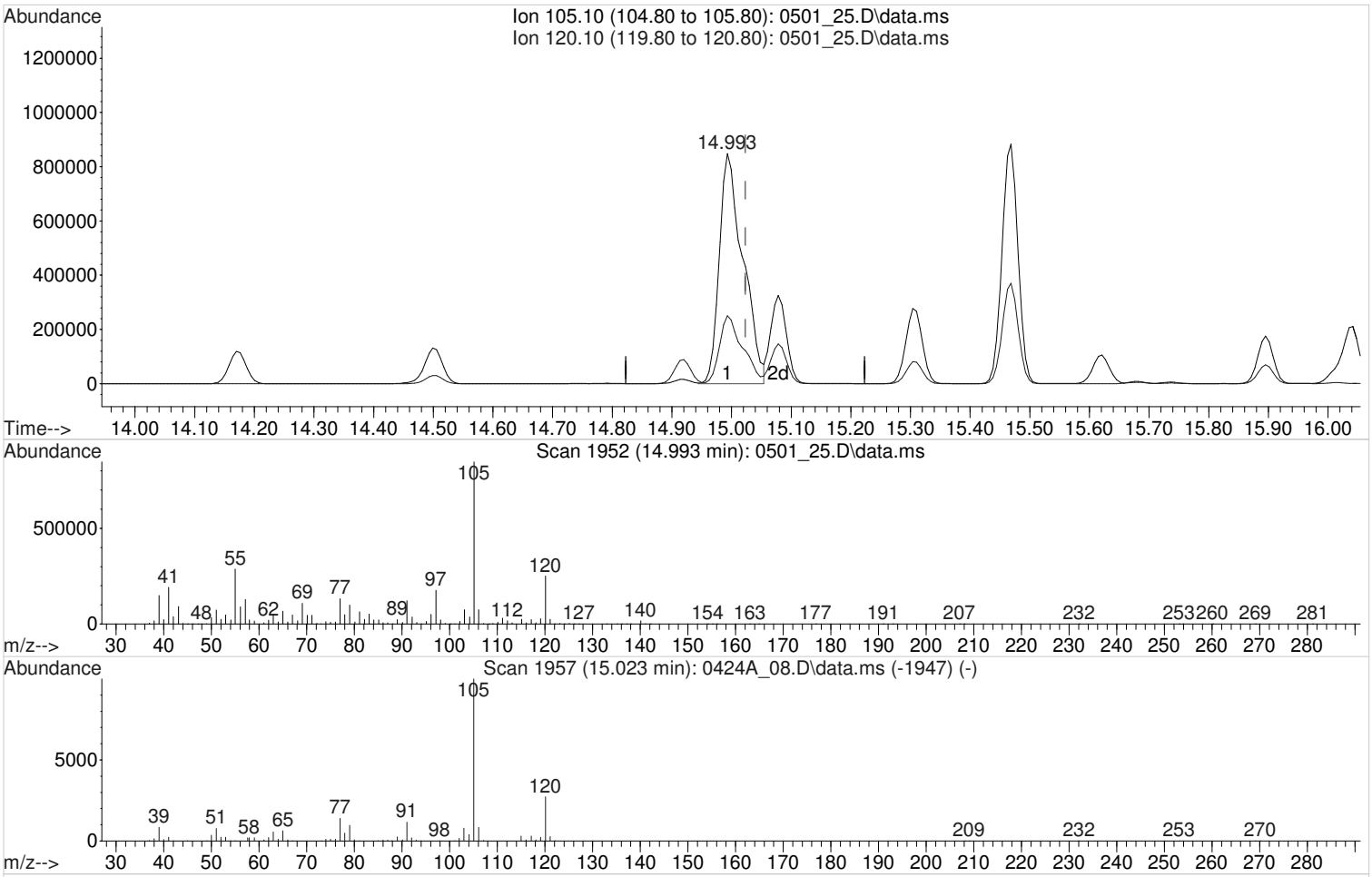
response 4317 Limit = 0.0680000

Ion	Exp%	Act%
95.00	100	100
130.00	82.90	55.32#
131.90	79.50	51.73#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_25.D
Acq On : 2 May 2024 3:51 am
Operator :
Sample : L1731355-01 1x WG2278229
Misc : 24D29341
ALS Vial : 25 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 02 07:31:01 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration



TIC: 0501_25.D\data.ms

(86) 4-Ethyltoluene (T,M)

14.993min (-0.030) 59.3505791 ppbv

Qvalue = 96

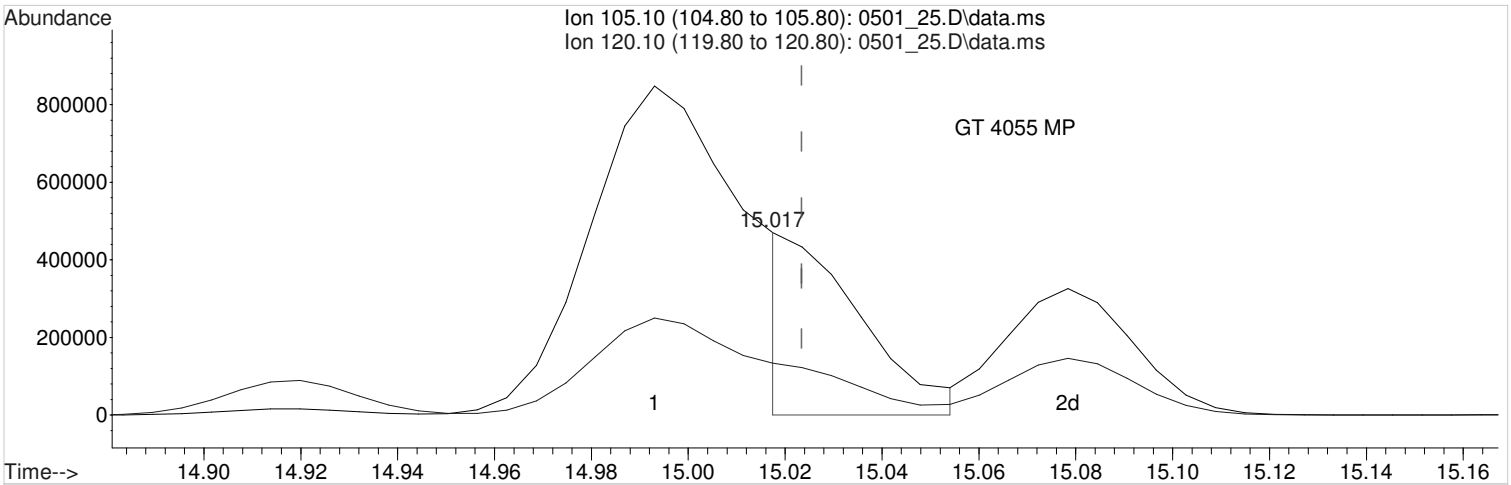
response 2330411 Limit = 0.0783000

Ion	Exp%	Act%
105.10	100	100
120.10	26.60	28.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_25.D
Acq On : 2 May 2024 3:51 am
Operator :
Sample : L1731355-01 1x WG2278229
Misc : 24D29341
ALS Vial : 25 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 02 07:31:01 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration



TIC: 0501_25.D\data.ms

(86) 4-Ethyltoluene (T,M)

15.017min (-0.006) 12.5051263 ppbv m

response 491016 Limit = 0.0783000

Ion	Exp%	Act%
105.10	100	100
120.10	26.60	136.39#
0.00	0.00	0.00
0.00	0.00	0.00

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
SG3

Lab Sample ID:	L1731355-01	**SDG:**	L1731355
Client Sample ID:	SG3	**Collected Date/Time:**	04/29/24 12:04
Lab File ID:	0502_14	**Received Date/Time:**	05/01/24 09:00
Instrument ID:	AIRMS8	**Preparation Date/Time:**	05/02/24 17:49
Analytical Batch:	WG2278934	**Analysis Date/Time:**	05/02/24 17:49
Dilution Factor:	10	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	20 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
n-Hexane	110-54-3	3.27	108		2.06	6.30
Tetrachloroethylene	127-18-4	6.09	358		0.814	2.00
Toluene	108-88-3	5.51	247		0.870	5.00

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_14.D
Acq On : 02 May 2024 05:49 pm
Operator :
Sample : L1731355-01 10x WG2278934
Misc : 24D25866
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 02 18:44:50 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.226	130	31930	4.0000000	ppbv	0.02
50) 1,4-Difluorobenzene	4.193	114	126540	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	6.410	117	111349	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	7.189	95	73970	3.9348375	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 98.37%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	5.430	TIC	4025222m	146.6954625	ppbv	
3) TPH-GRO (C5-C10)	5.430	TIC	3914013m	196.3570350	ppbv	
4) THC as Gas (C4-C12)	5.430	TIC	10367643m	492.1974297	ppbv	
5) Propene	1.580	41	5418	3.4829427	ppbv #	74
6) BUTANE	1.766	43	18219	5.7755201	ppbv	97
7) 1,1-DIFLUOROETHANE	1.549	65	7221	5.0378100	ppbv #	1
8) Dichlorodifluoromethane	1.595	85	474	0.0712467	ppbv #	84
10) 1,2-Dichlorotetrafluor...	1.595	85	474	0.0748342	ppbv #	35
11) Chloromethane	1.732	50	563	0.3142026	ppbv #	67
12) Vinyl Chloride	1.515	62	3696	1.6816139	ppbv #	70
13) 1,3-Butadiene	1.732	54	281	0.1671369	ppbv #	1
16) ISOPENTANE	2.262	41	12569	6.1220315	ppbv	98
19) PENTANE	2.262	43	22367	6.0040735	ppbv	100
21) ACROLEIN	2.088	56	2968	3.0727298	ppbv #	70
24) Acetone	2.080	58	3432	2.3804950	ppbv #	39
26) 2-Propanol	2.168	45	1646	0.4795342	ppbv #	1
27) Carbon Disulfide	2.498	76	30699	5.1318987	ppbv	96
28) Allyl Chloride	2.554	41	459	0.1766948	ppbv #	1
29) METHYL ACETATE	2.262	43	22367	5.0836657	ppbv #	56
30) ACETONITRILE	1.993	41	13867	8.4831725	ppbv	92
31) Methylene Chloride	2.403	49	522	0.2181464	ppbv #	100
33) Methyl Tert-Butyl Ether	2.839	73	2209	0.3608119	ppbv	97
36) n-Hexane	3.267	57	31439	10.8252274	ppbv #	3
38) Vinyl Acetate	2.839	43	2764	0.5697701	ppbv #	100
41) ETHYL ACETATE	3.271	43	20841	2.3102465	ppbv #	18
42) 2-Butanone (MEK)	2.911	72	64	0.0611005	ppbv #	46
43) cis-1,2-Dichloroethene	3.290	61	163	0.0615589	ppbv #	19
44) Tetrahydrofuran	3.643	42	3554	1.9341358	ppbv #	1
46) Cyclohexane	4.128	84	3828	1.3940219	ppbv	89
49) 2,2,4-Trimethylpentane	4.583	57	14659	1.5047221	ppbv #	79
51) Benzene	3.984	78	3679	0.4908799	ppbv	98
52) TERT-AMYL METHYL ETHER	4.189	73	1405	0.2152967	ppbv #	70
54) Heptane	4.739	43	9906	2.8429986	ppbv	100
57) METHYL CYCLOHEXANE	5.083	83	492	0.1328168	ppbv	94
59) Methyl Methacrylate	4.663	69	157	0.0697478	ppbv #	33
61) Bromodichloromethane	4.481	83	533	0.0954754	ppbv #	19
63) 4-Methyl-2-Pentanone (...	5.042	43	901	0.1490197	ppbv #	52
64) n-OCTANE	6.084	43	32496	8.3540006	ppbv	99
65) Toluene	5.508	91	198626	24.7035561	ppbv	100
68) Tetrachloroethene	6.090	166	192982	35.7847388	ppbv	99

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_14.D
Acq On : 02 May 2024 05:49 pm
Operator :
Sample : L1731355-01 10x WG2278934
Misc : 24D25866
ALS Vial : 14 Sample Multiplier: 1

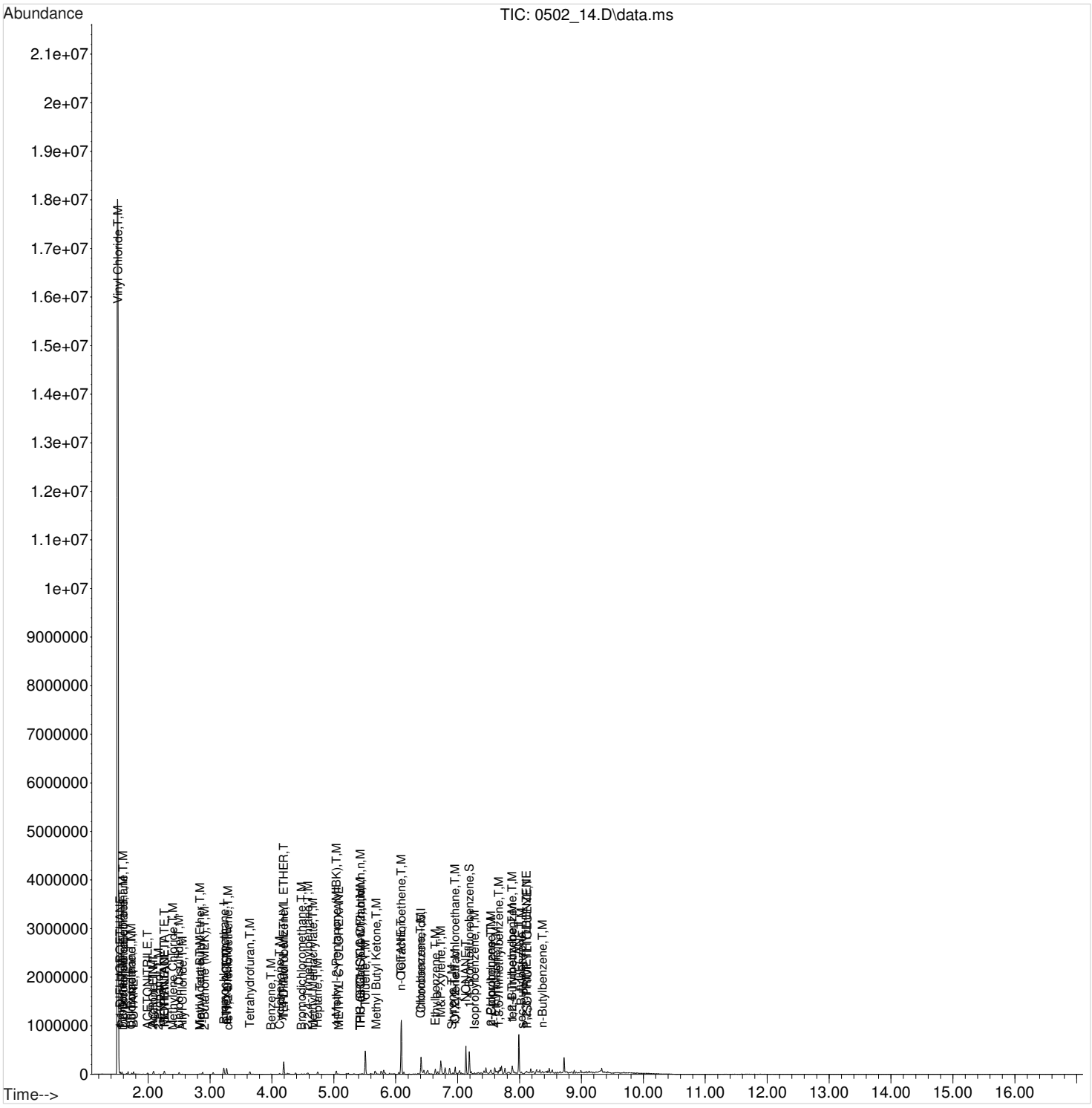
Quant Time: May 02 18:44:50 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

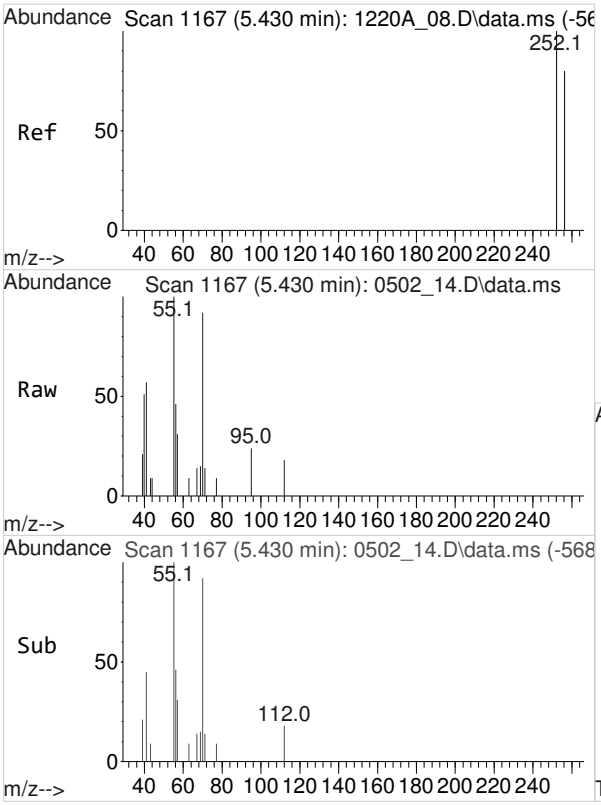
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
69) Methyl Butyl Ketone	5.687	43	4730	1.4876406	ppbv	#	37
72) Chlorobenzene	6.403	112	1332	0.1836280	ppbv	#	21
73) NONANE	7.133	43	100434	24.4096197	ppbv		99
75) Ethylbenzene	6.641	91	37232	3.3761840	ppbv		100
76) M&P-Xylene	6.729	91	106195	11.5085380	ppbv		96
77) O-Xylene	6.961	91	35912	3.9831287	ppbv		100
80) Styrene	6.910	104	382	0.0617029	ppbv	#	9
82) Isopropylbenzene	7.274	105	7583	0.5254101	ppbv	#	94
83) n-DECANE	7.987	43	124639	20.8182367	ppbv		95
84) 1,1,2,2-Tetrachloroethane	6.954	83	390	0.0586411	ppbv	#	18
85) n-Propylbenzene	7.540	91	22309	1.4787807	ppbv		100
86) 4-Ethyltoluene	7.621	105	17097	1.3648732	ppbv		96
87) 2-Chlorotoluene	7.540	91	22309	2.4298750	ppbv	#	39
89) 1,3,5-Trimethylbenzene	7.665	105	17349	1.5278426	ppbv		97
90) tert-Butylbenzene	7.881	119	6381	0.5017248	ppbv	#	75
91) 1,2,4-Trimethylbenzene	7.881	105	44859	3.8665130	ppbv		89
92) sec-Butylbenzene	8.031	105	6267	0.3485786	ppbv	#	95
94) P-ISOPROPYLTOLUENE	8.128	119	3422	0.1806217	ppbv	#	85
96) 1,2,3-TRIMETHYLBENZENE	8.112	105	9580	0.7002513	ppbv		91
98) n-Butylbenzene	8.372	91	5195	0.3561403	ppbv	#	41

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_14.D
Acq On : 02 May 2024 05:49 pm
Operator :
Sample : L1731355-01 10x WG2278934
Misc : 24D25866
ALS Vial : 14 Sample Multiplier: 1

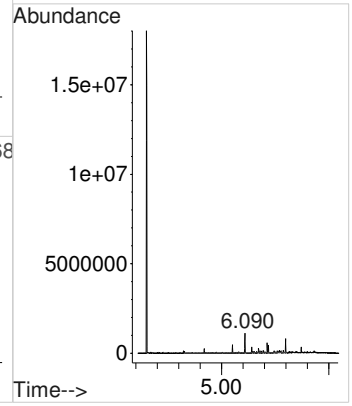
Quant Time: May 02 18:44:50 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

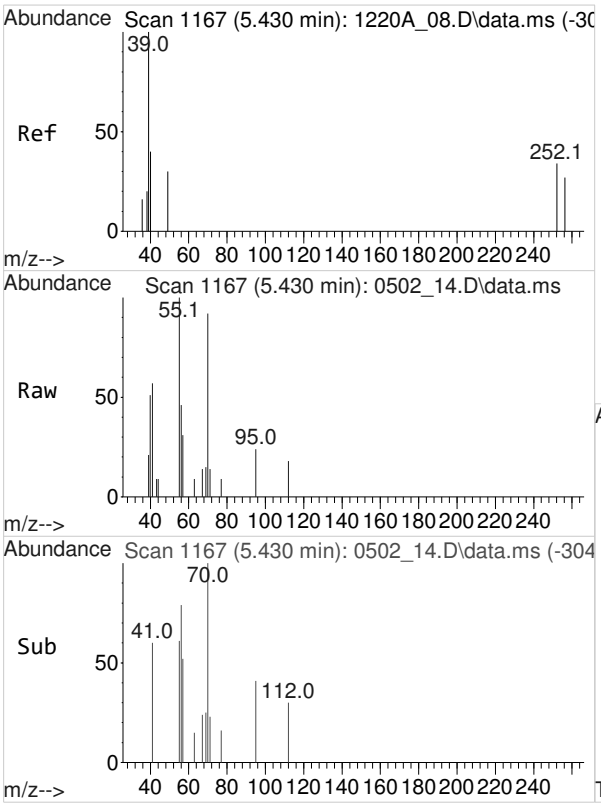




#2
TPH (GC/MS) Low Fraction
Concen: 146.6954625 ppbv m
RT: 5.430 min Scan# 1167
Delta R.T. 0.000 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

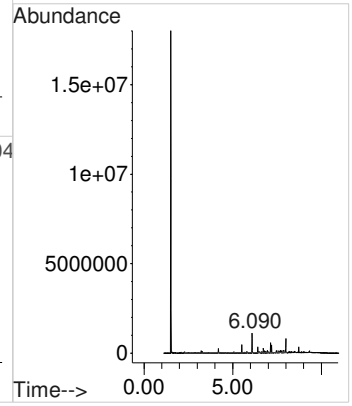
Tgt Ion:TIC Resp: 4025222

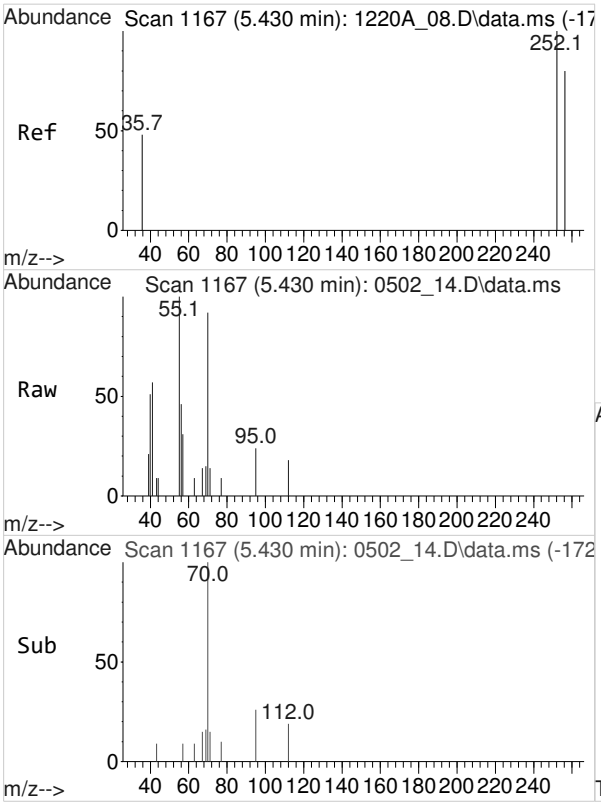




#3
TPH-GRO (C5-C10)
Concen: 196.3570350 ppbv m
RT: 5.430 min Scan# 1167
Delta R.T. 0.000 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

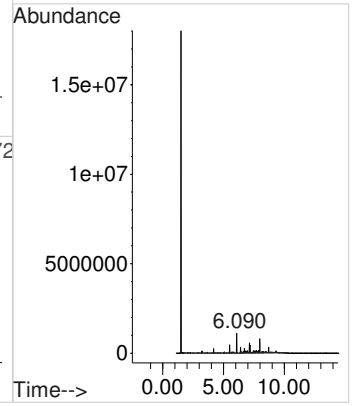
Tgt Ion:TIC Resp: 3914013

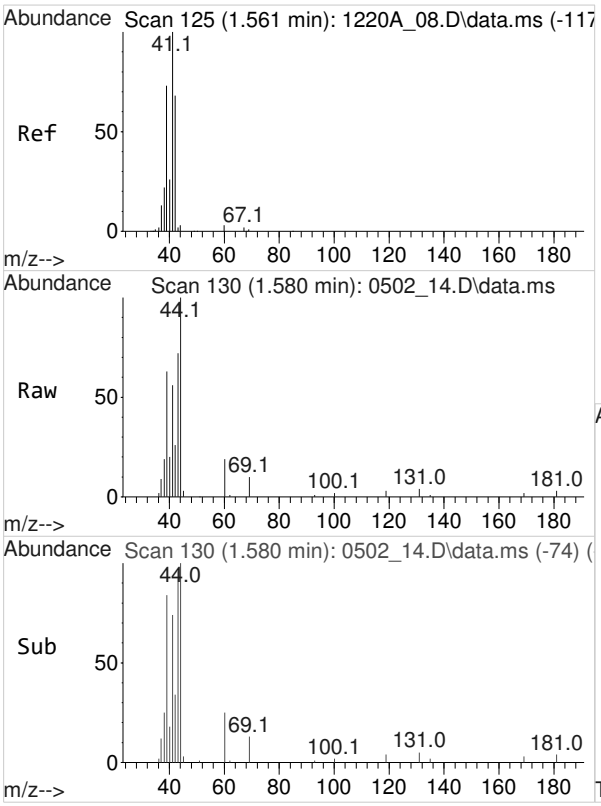




#4
THC as Gas (C4-C12)
Concen: 492.1974297 ppbv m
RT: 5.430 min Scan# 1167
Delta R.T. 0.000 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion:TIC Resp:10367643

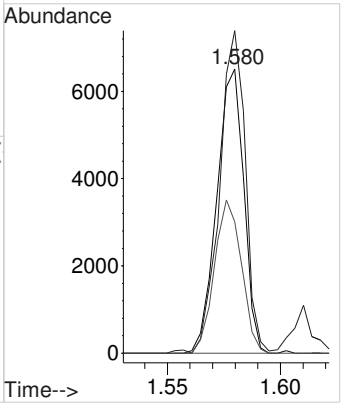


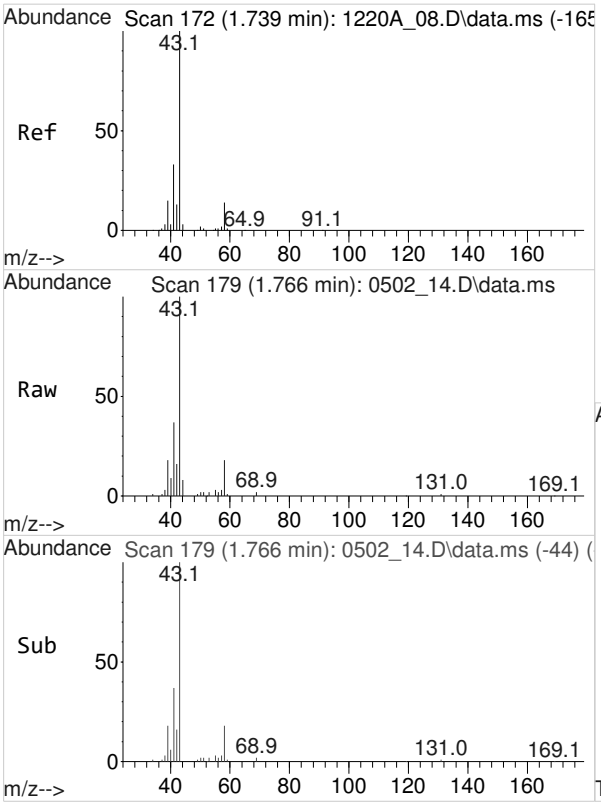


#5
Propene
Concen: 3.4829427 ppbv
RT: 1.580 min Scan# 130
Delta R.T. 0.012 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 41 Resp: 5418

Ion	Ratio	Lower	Upper
41	100		
39	108.5	60.2	90.4#
42	54.0	49.1	73.7

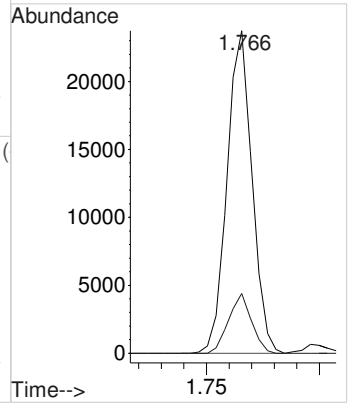


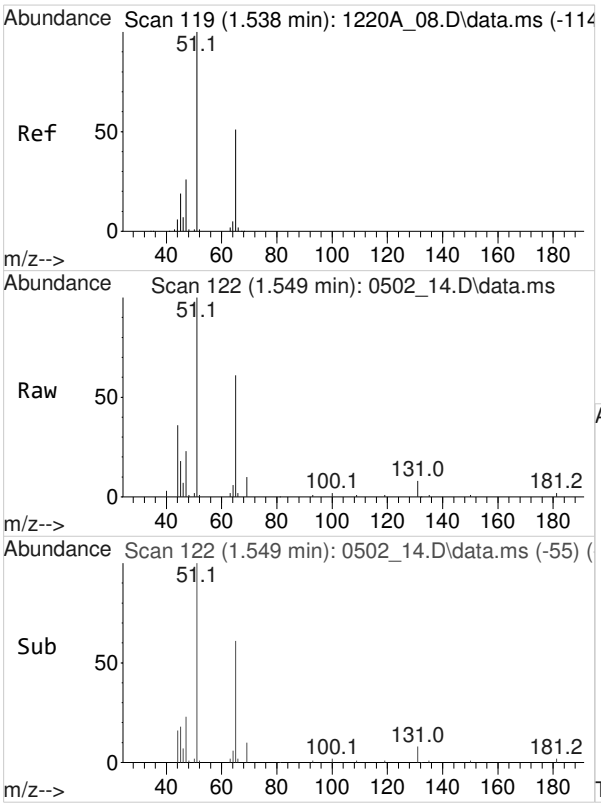


#6
BUTANE
Concen: 5.7755201 ppbv
RT: 1.766 min Scan# 179
Delta R.T. 0.012 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 43 Resp: 18219

Ion	Ratio	Lower	Upper
43	100		
58	17.0	12.6	19.0

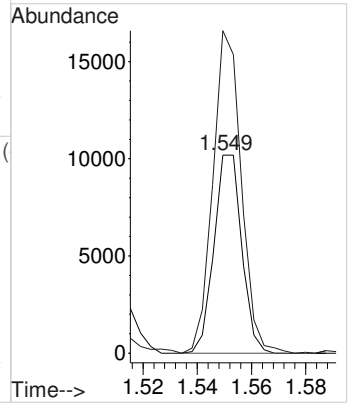


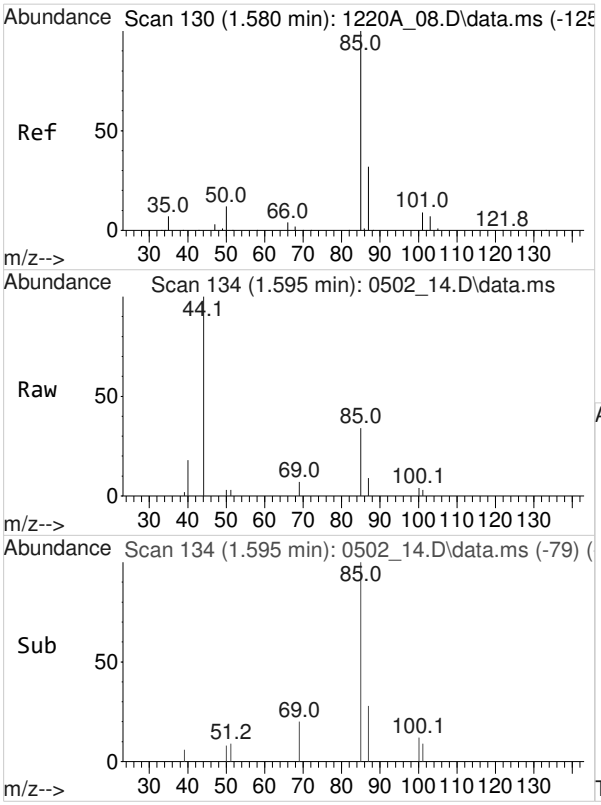


#7
1,1-DIFLUOROETHANE
Concen: 5.0378100 ppbv
RT: 1.549 min Scan# 122
Delta R.T. 0.003 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 65 Resp: 7221

Ion	Ratio	Lower	Upper
65	100		
51	166.1	324.4	486.6#

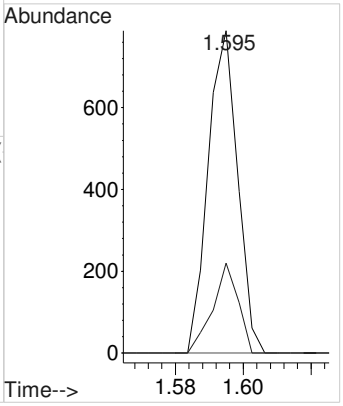


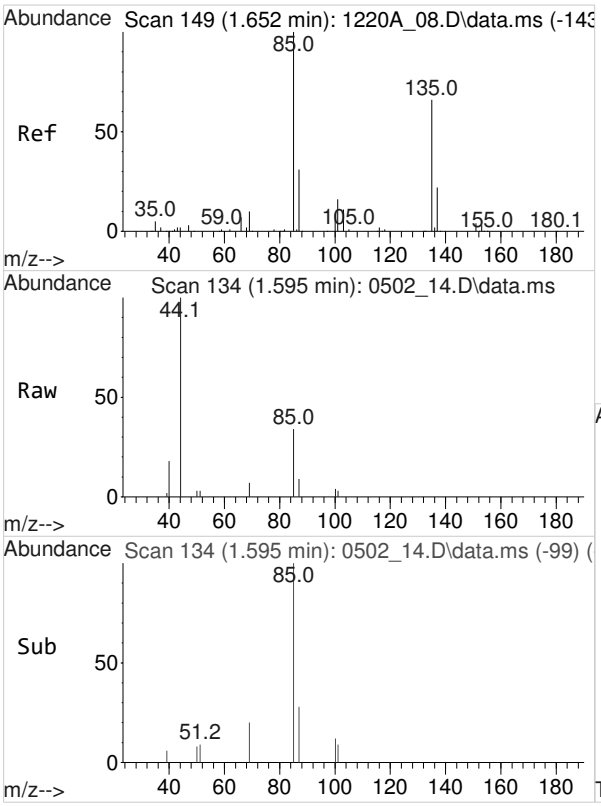


#8
Dichlorodifluoromethane
Concen: 0.0712467 ppbv
RT: 1.595 min Scan# 134
Delta R.T. 0.008 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 85 Resp: 474

Ion	Ratio	Lower	Upper
85	100		
87	23.8	26.2	39.2#

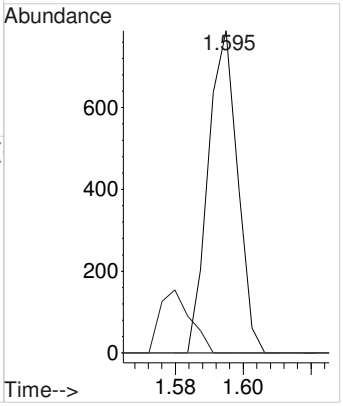


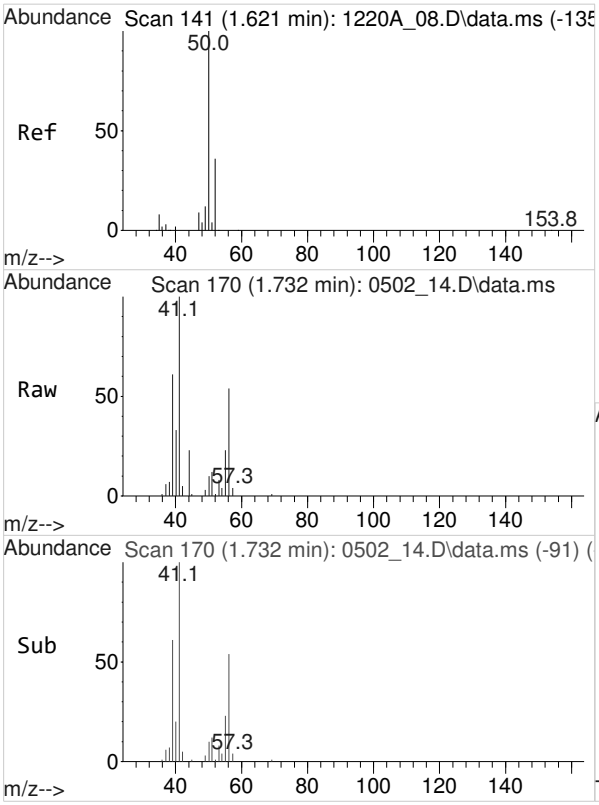


#10
1,2-Dichlorotetrafluoroethane
Concen: 0.0748342 ppbv
RT: 1.595 min Scan# 134
Delta R.T. -0.068 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 85 Resp: 474

Ion	Ratio	Lower	Upper
85	100		
135	20.5	65.5	98.3#
137	0.0	21.0	31.6#

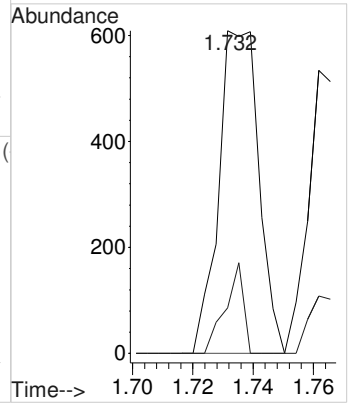


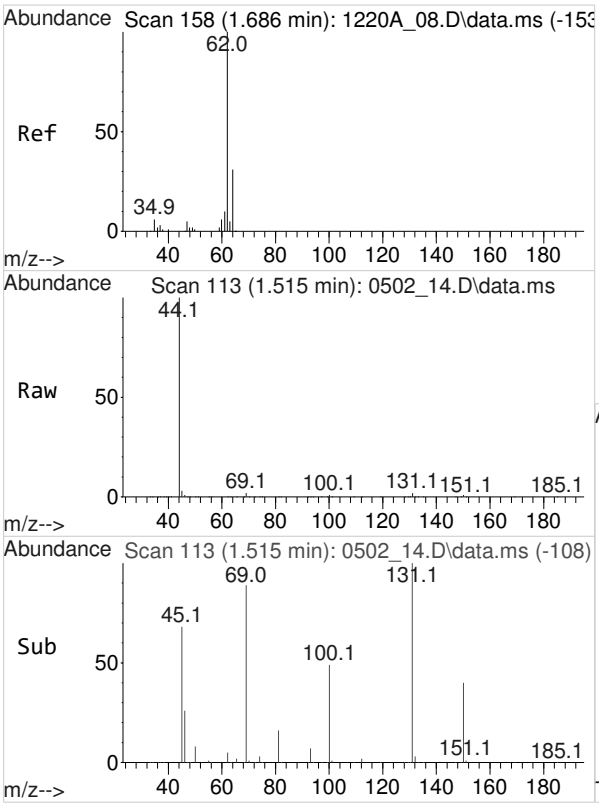


#11
Chloromethane
Concen: 0.3142026 ppbv
RT: 1.732 min Scan# 170
Delta R.T. 0.099 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 50 Resp: 563

Ion	Ratio	Lower	Upper
50	100		
52	12.8	24.6	36.8#

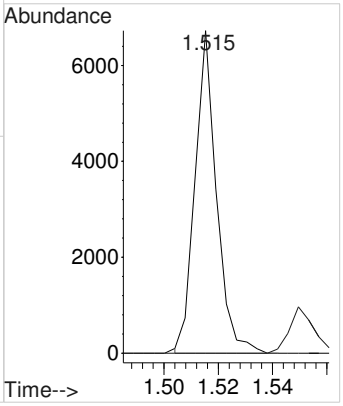


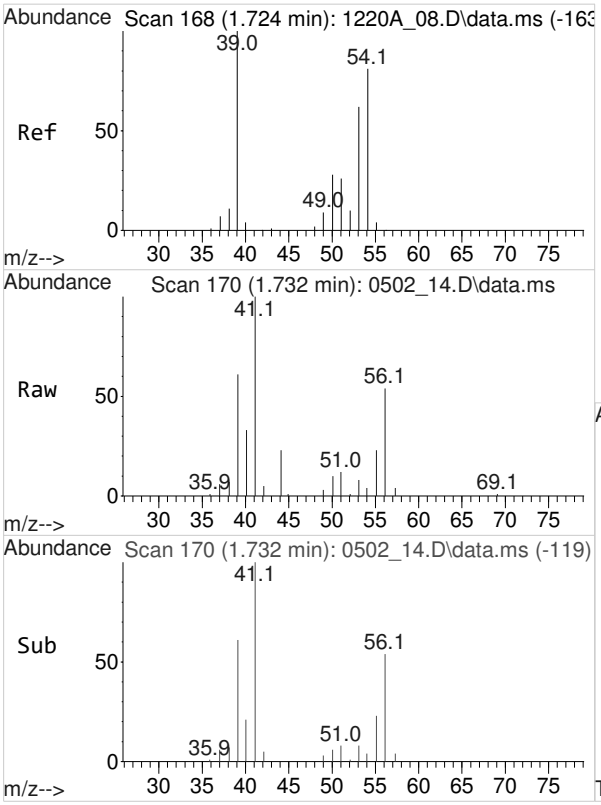


#12
Vinyl Chloride
Concen: 1.6816139 ppbv
RT: 1.515 min Scan# 113
Delta R.T. -0.182 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 62 Resp: 3696

Ion	Ratio	Lower	Upper
62	100		
64	16.0	26.4	39.6#

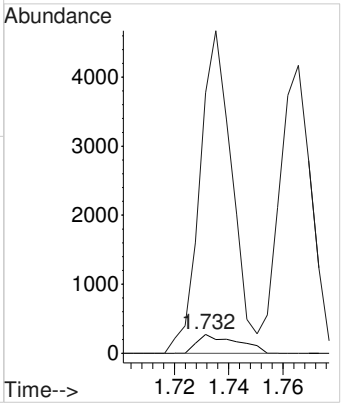


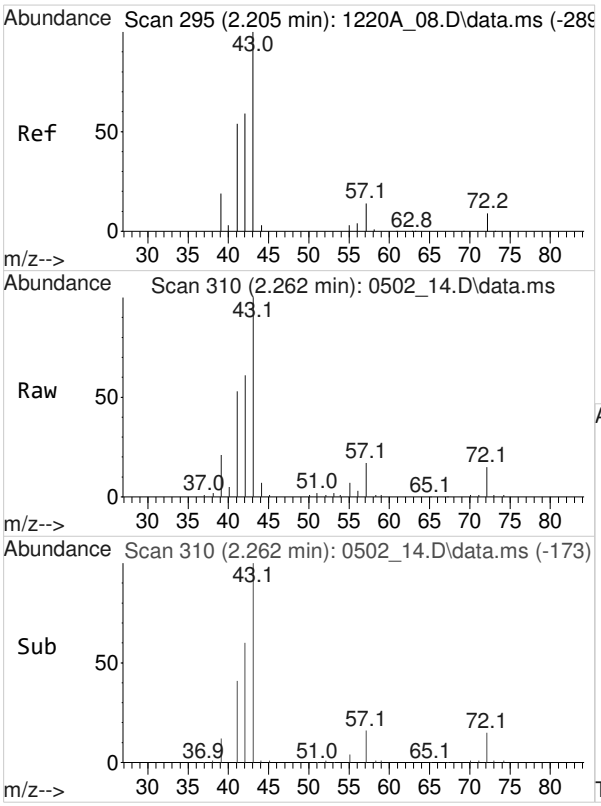


#13
1,3-Butadiene
Concen: 0.1671369 ppbv
RT: 1.732 min Scan# 170
Delta R.T. -0.008 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 54 Resp: 281

Ion	Ratio	Lower	Upper
54	100		
39	1364.1	108.8	163.2#

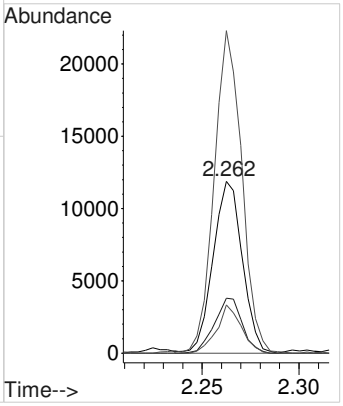


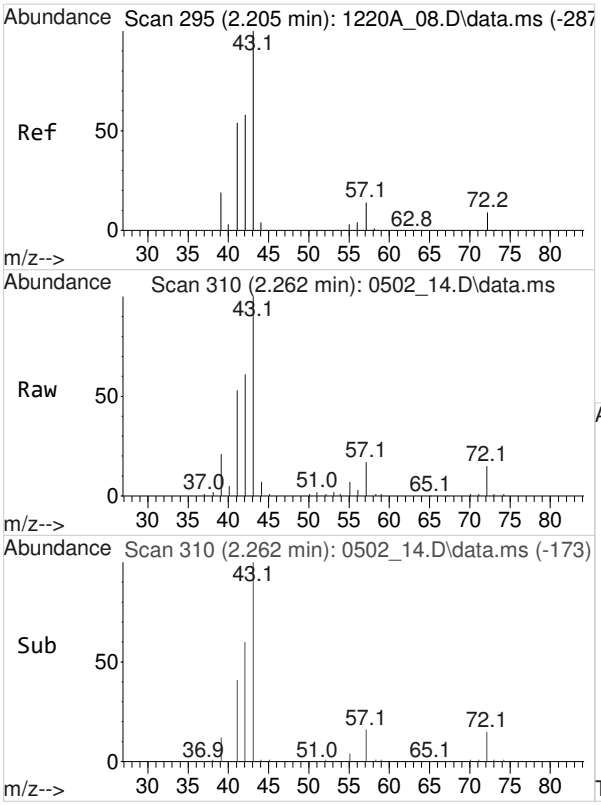


#16
ISOPENTANE
Concen: 6.1220315 ppbv
RT: 2.262 min Scan# 310
Delta R.T. 0.019 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 41 Resp: 12569

Ion	Ratio	Lower	Upper
41	100		
57	30.3	24.6	37.0
43	178.0	145.7	218.5
72	23.6	19.0	28.4

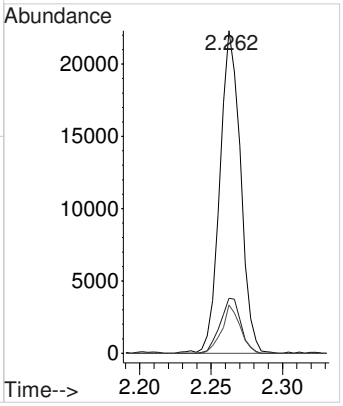


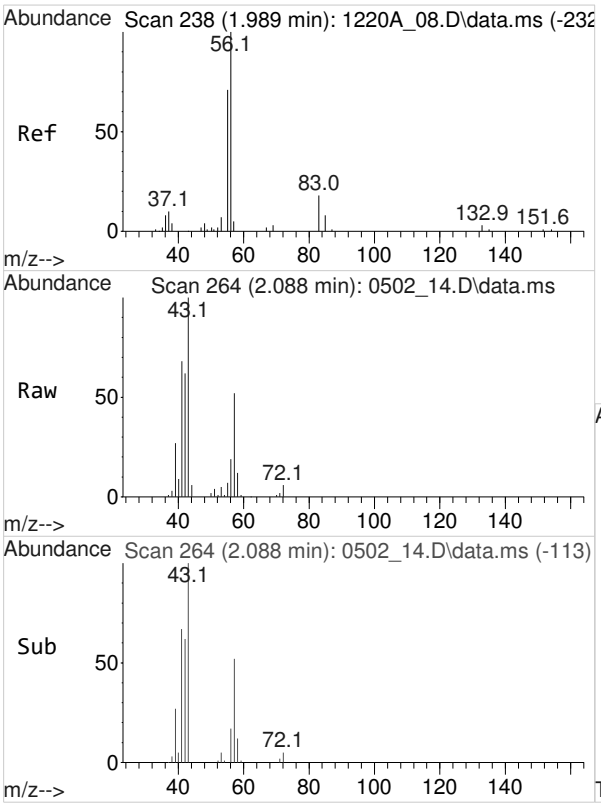


#19
PENTANE
Concen: 6.0040735 ppbv
RT: 2.262 min Scan# 310
Delta R.T. 0.019 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 43 Resp: 22367

Ion	Ratio	Lower	Upper
43	100		
57	17.0	13.5	20.3
72	13.3	10.4	15.6

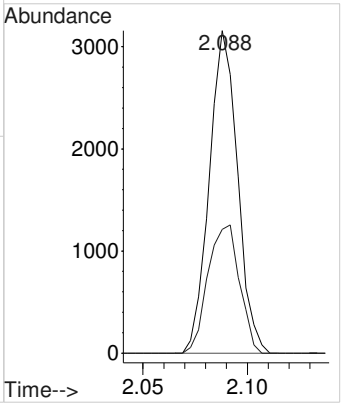


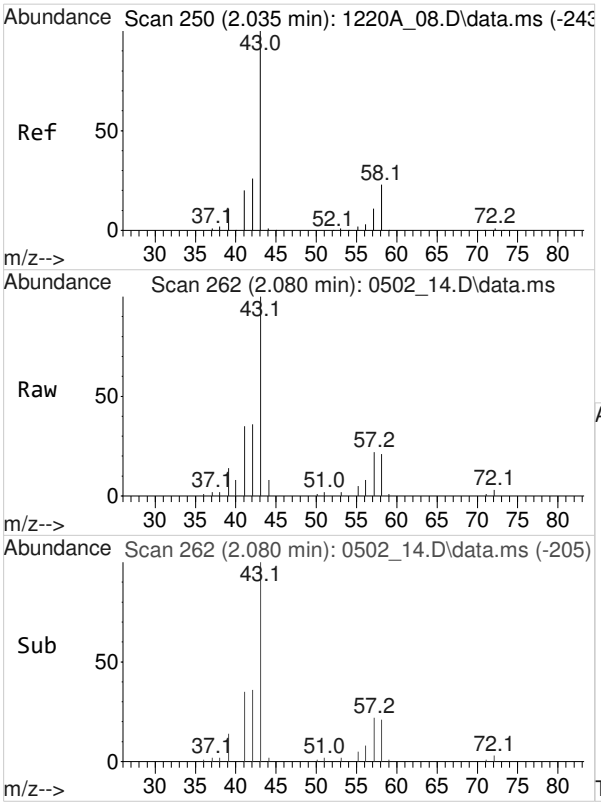


#21
ACROLEIN
Concen: 3.0727298 ppbv
RT: 2.088 min Scan# 264
Delta R.T. 0.072 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 56 Resp: 2968

Ion	Ratio	Lower	Upper
56	100		
55	44.3	55.3	82.9#

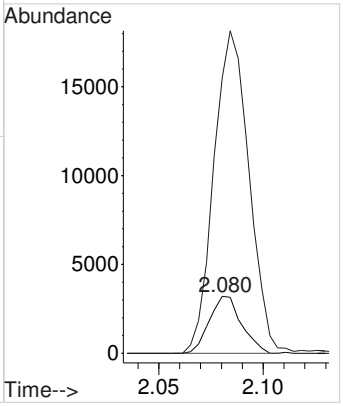


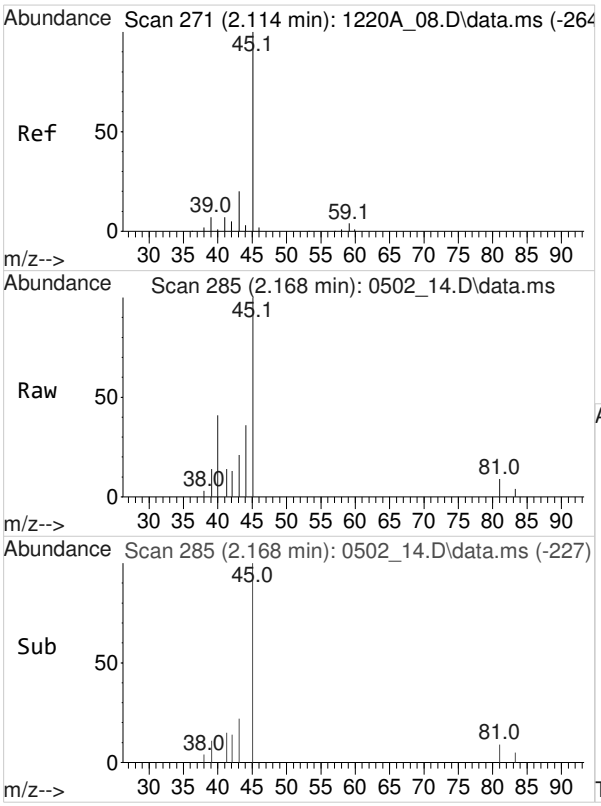


#24
Acetone
Concen: 2.3804950 ppbv
RT: 2.080 min Scan# 262
Delta R.T. 0.015 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 58 Resp: 3432

Ion	Ratio	Lower	Upper
58	100		
43	625.4	372.3	558.5#

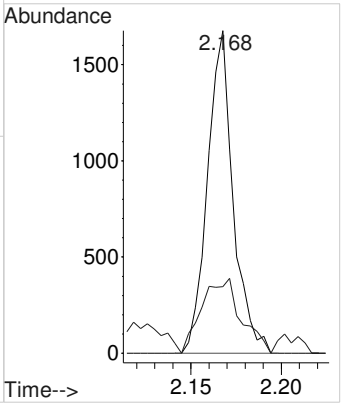


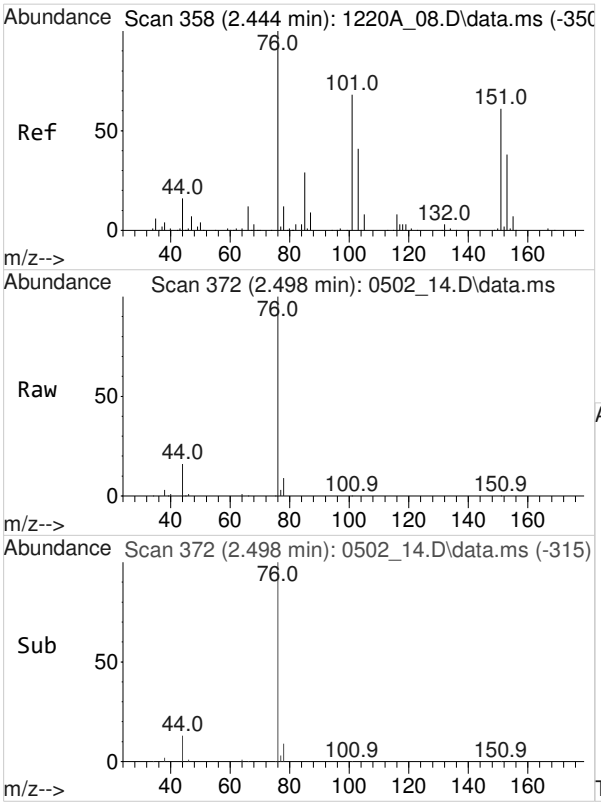


#26
2-Propanol
Concen: 0.4795342 ppbv
RT: 2.168 min Scan# 285
Delta R.T. 0.019 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 45 Resp: 1646

Ion	Ratio	Lower	Upper
45	100		
43	1304.0	21.3	31.9#

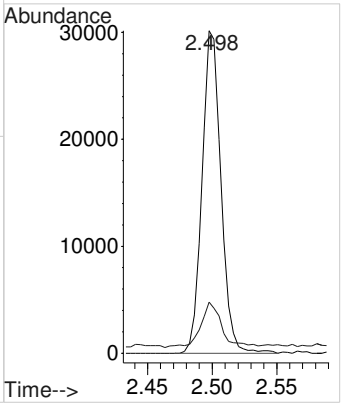


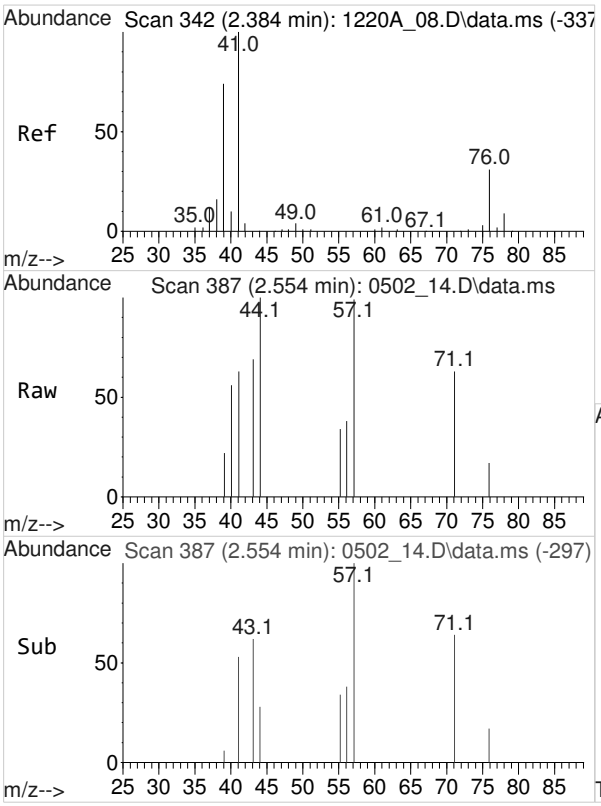


#27
Carbon Disulfide
Concen: 5.1318987 ppbv
RT: 2.498 min Scan# 372
Delta R.T. 0.016 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 76 Resp: 30699

Ion	Ratio	Lower	Upper
76	100		
44	15.5	11.1	16.7

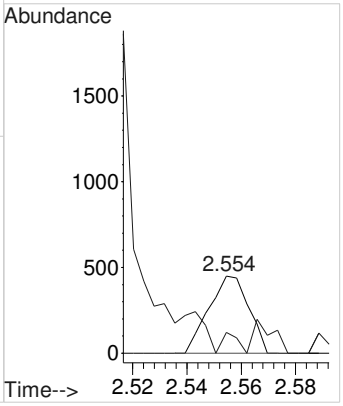


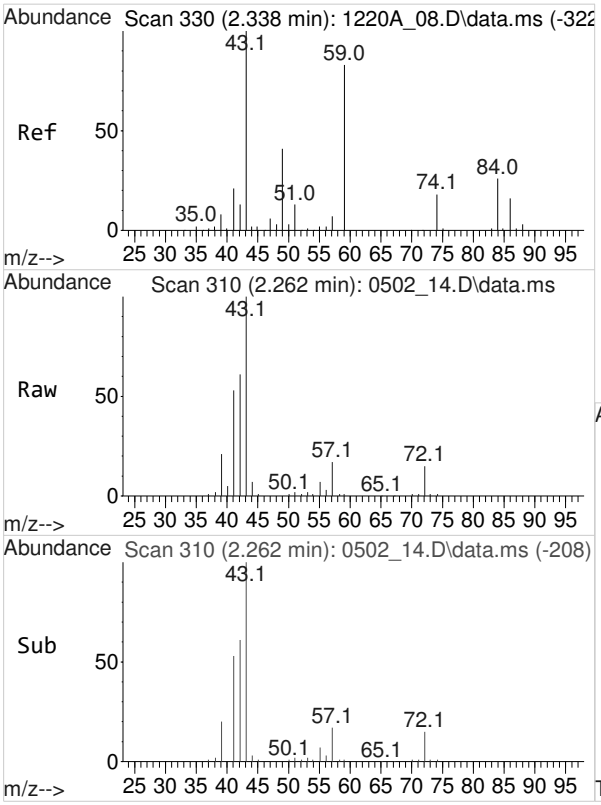


#28
Allyl Chloride
Concen: 0.1766948 ppbv
RT: 2.554 min Scan# 387
Delta R.T. 0.129 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 41 Resp: 459

Ion	Ratio	Lower	Upper
41	100		
76	6688.2	32.3	48.5#

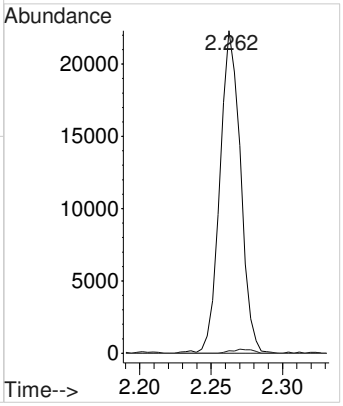


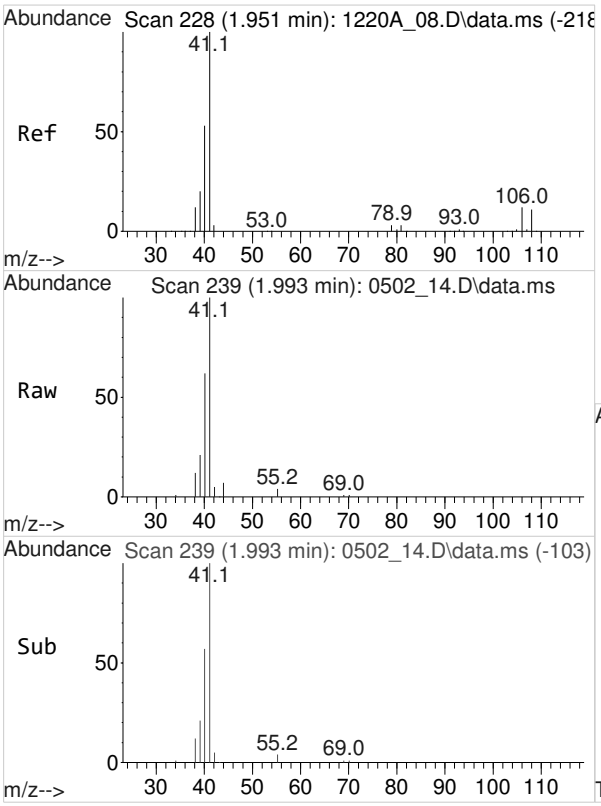


#29
METHYL ACETATE
Concen: 5.0836657 ppbv
RT: 2.262 min Scan# 310
Delta R.T. -0.114 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 43 Resp: 22367

Ion	Ratio	Lower	Upper
43	100		
74	1.3	18.2	27.4#
29	0.0	0.0	0.0

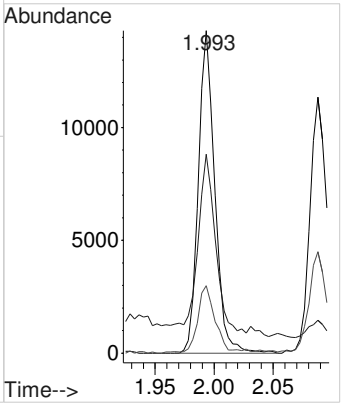


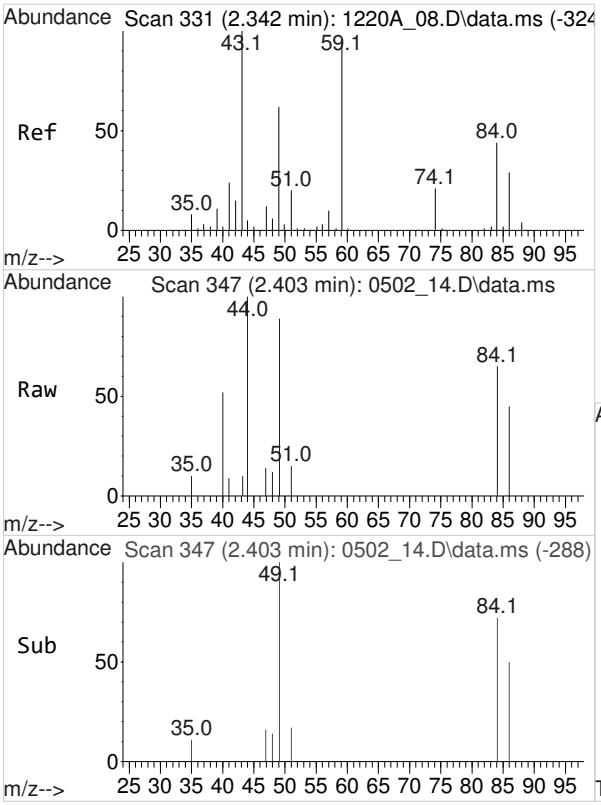


#30
ACETONITRILE
Concen: 8.4831725 ppbv
RT: 1.993 min Scan# 239
Delta R.T. 0.015 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 41 Resp: 13867

Ion	Ratio	Lower	Upper
41	100		
40	58.7	42.2	63.2
39	22.1	15.8	23.8

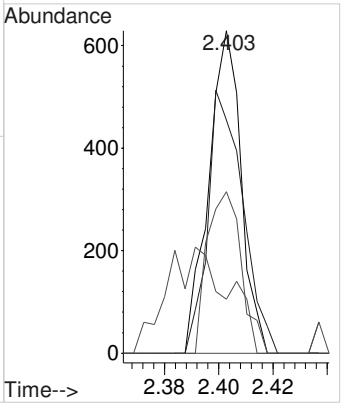


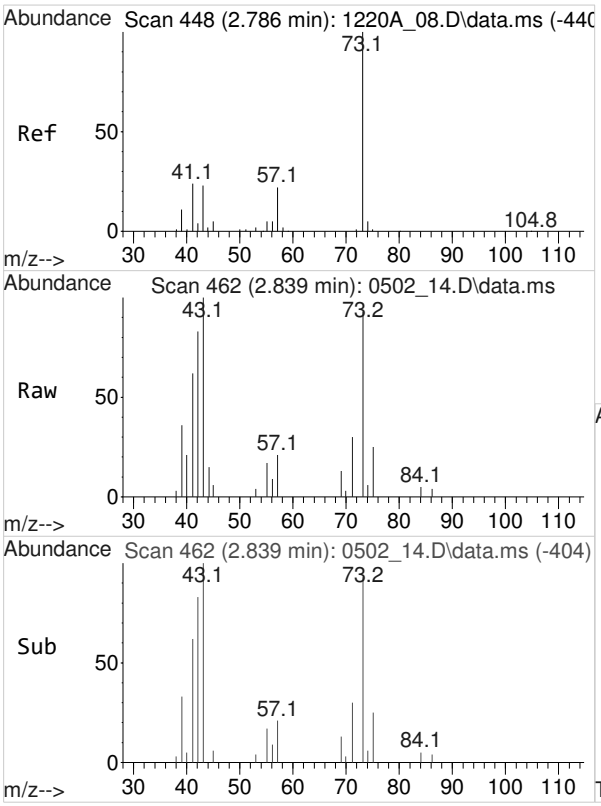


#31
Methylene Chloride
Concen: 0.2181464 ppbv
RT: 2.403 min Scan# 347
Delta R.T. 0.023 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 49 Resp: 522

Ion	Ratio	Lower	Upper
49	100		
84	87.9	0.0	0.0#
86	52.9	0.0	0.0#
51	61.9	0.0	0.0#

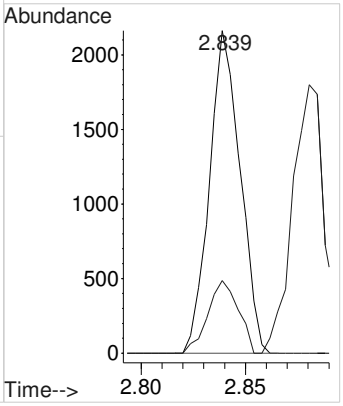


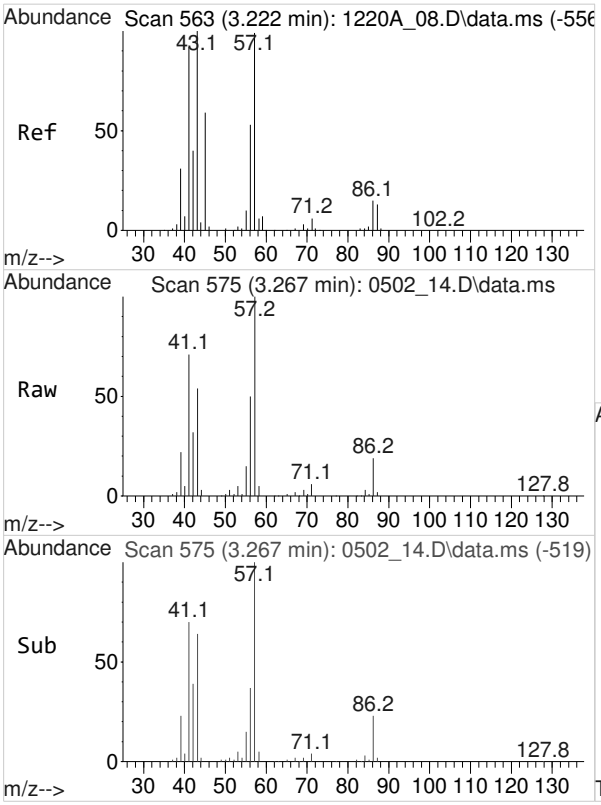


#33
Methyl Tert-Butyl Ether
Concen: 0.3608119 ppbv
RT: 2.839 min Scan# 462
Delta R.T. 0.019 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 73 Resp: 2209

Ion	Ratio	Lower	Upper
73	100		
57	22.4	16.9	25.3

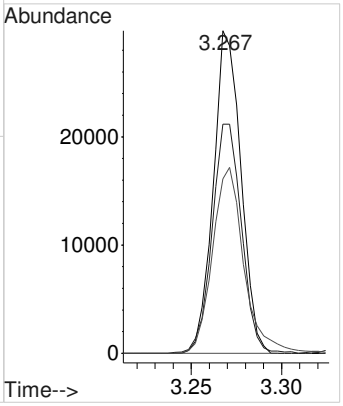


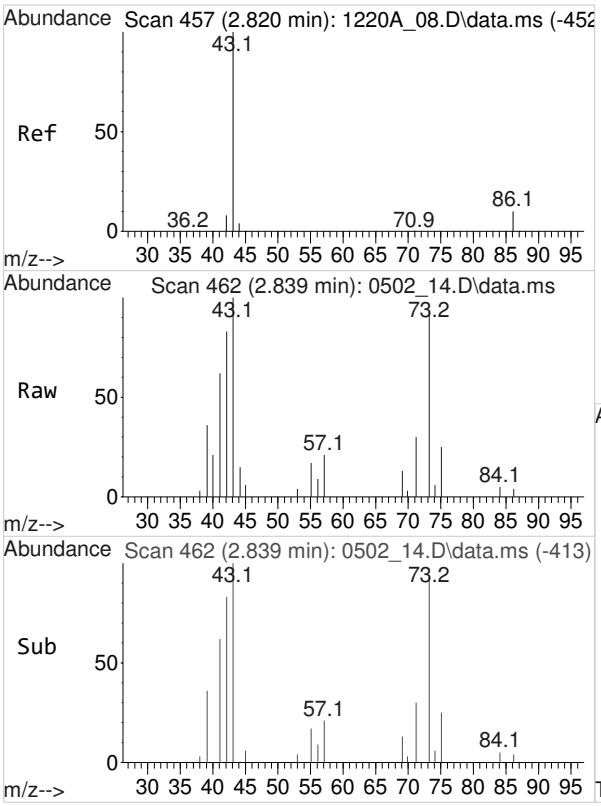


#36
n-Hexane
Concen: 10.8252274 ppbv
RT: 3.267 min Scan# 575
Delta R.T. 0.011 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 57 Resp: 31439

Ion	Ratio	Lower	Upper
57	100		
41	75.7	92.1	138.1#
43	66.3	243.0	364.4#

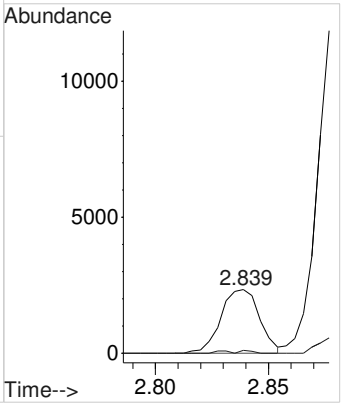


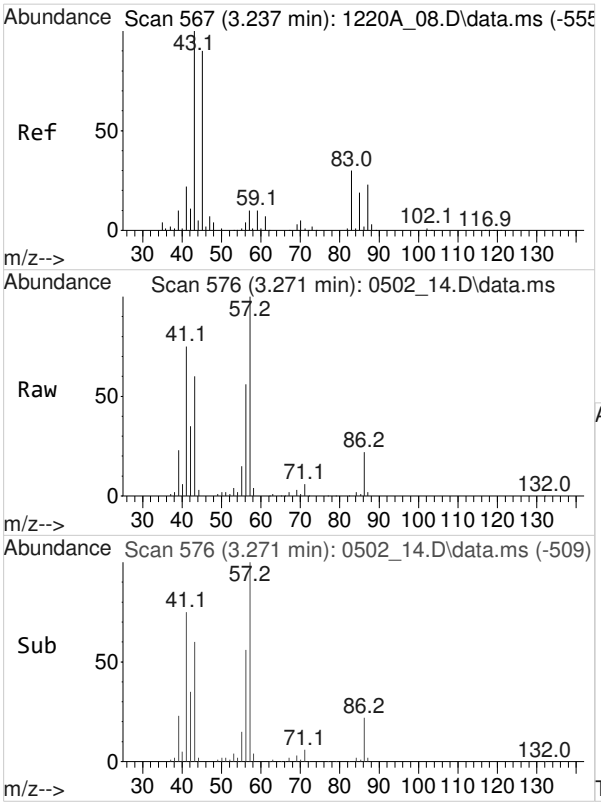


#38
Vinyl Acetate
Concen: 0.5697701 ppbv
RT: 2.839 min Scan# 462
Delta R.T. -0.015 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 43 Resp: 2764

Ion	Ratio	Lower	Upper
43	100		
86	1.4	0.0	0.0#

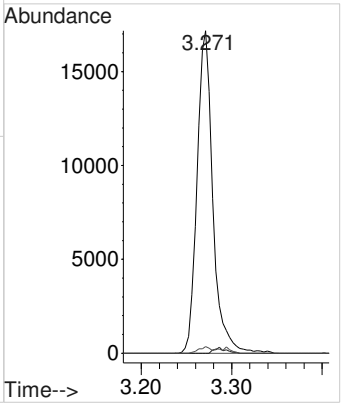


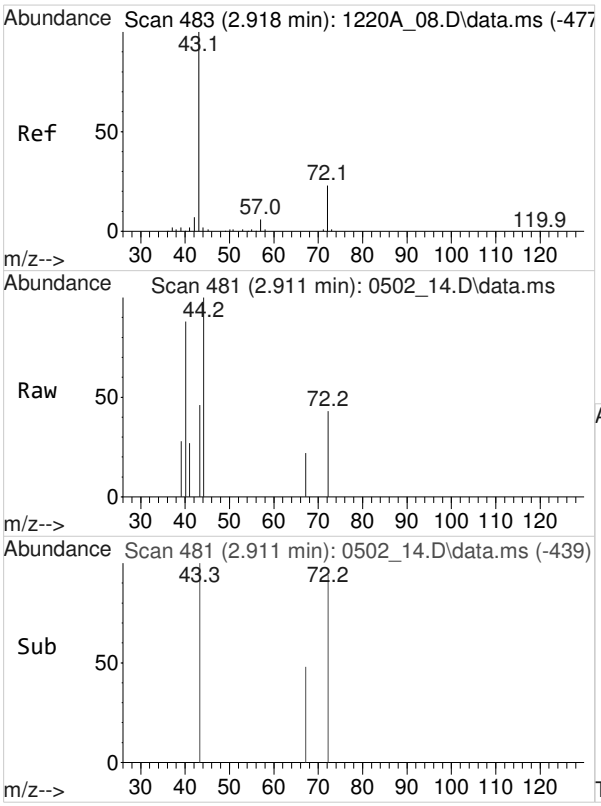


#41
ETHYL ACETATE
Concen: 2.3102465 ppbv
RT: 3.271 min Scan# 576
Delta R.T. 0.004 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 43 Resp: 20841

Ion	Ratio	Lower	Upper
43	100		
45	0.0	60.2	90.4#
70	1.5	5.2	7.8#

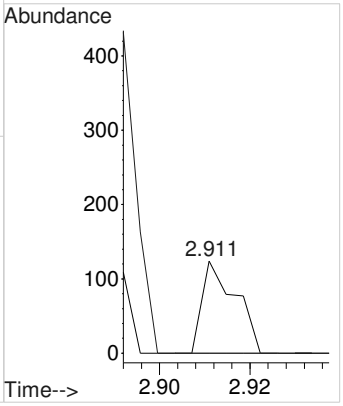


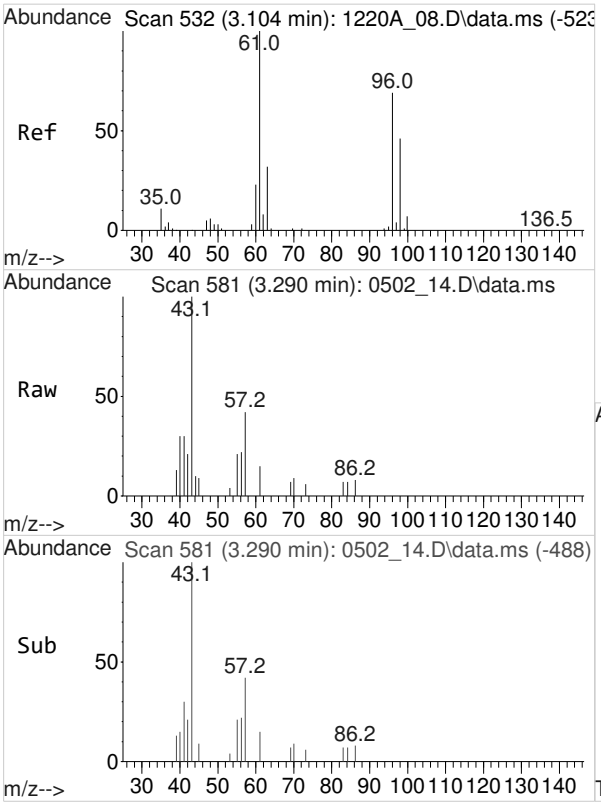


#42
2-Butanone (MEK)
Concen: 0.0611005 ppbv
RT: 2.911 min Scan# 481
Delta R.T. -0.042 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 72 Resp: 64

Ion	Ratio	Lower	Upper
72	100		
57	0.0	23.0	34.6#

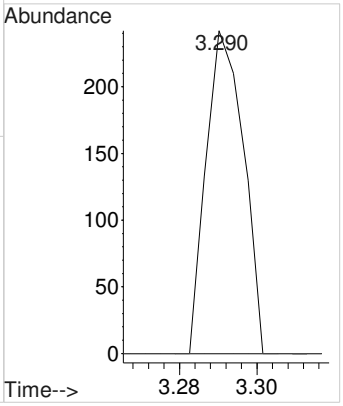


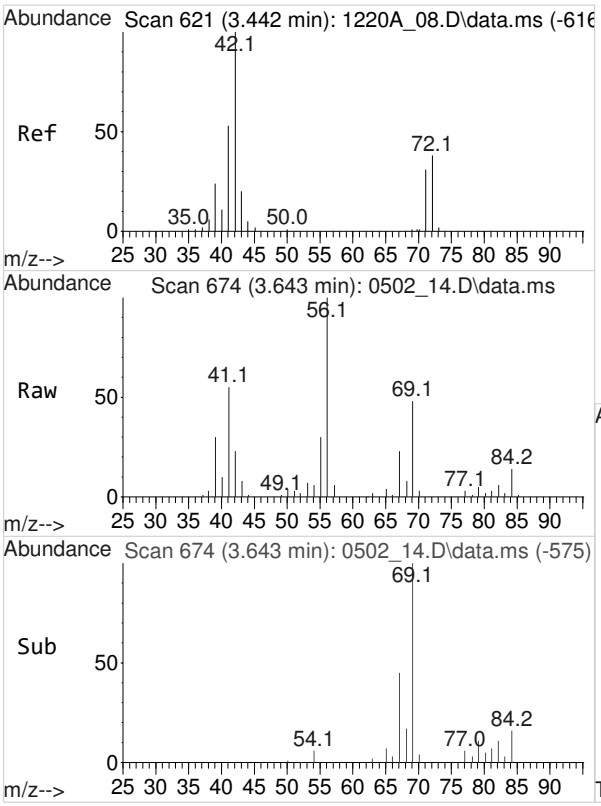


#43
cis-1,2-Dichloroethene
Concen: 0.0615589 ppbv
RT: 3.290 min Scan# 581
Delta R.T. 0.152 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 61 Resp: 163

Ion	Ratio	Lower	Upper
61	100		
96	9.8	68.5	102.7#
98	0.0	45.5	68.3#

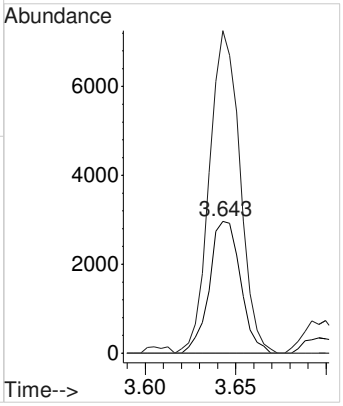


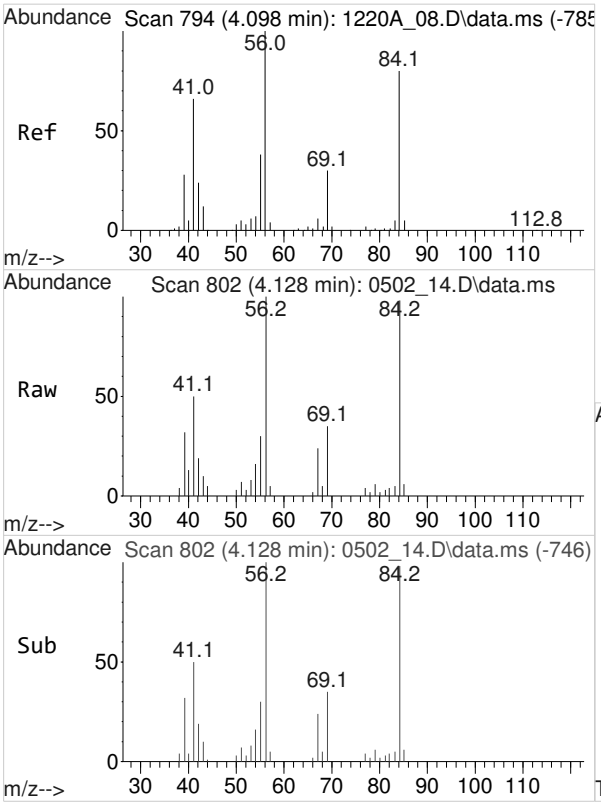


#44
Tetrahydrofuran
Concen: 1.9341358 ppbv
RT: 3.643 min Scan# 674
Delta R.T. 0.175 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 42 Resp: 3554

Ion	Ratio	Lower	Upper
42	100		
41	239.9	51.3	76.9#
72	0.0	38.3	57.5#
71	0.0	35.8	53.8#

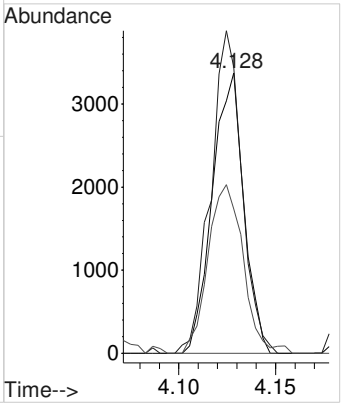


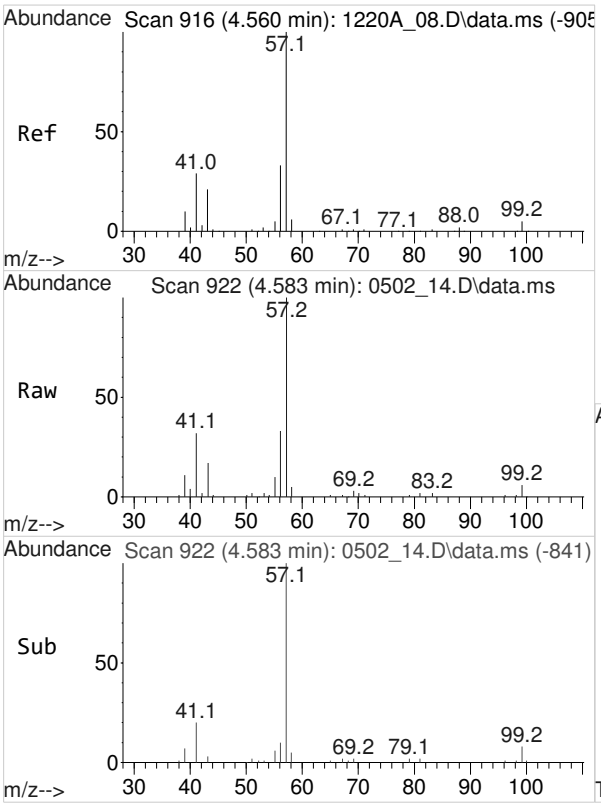


#46
Cyclohexane
Concen: 1.3940219 ppbv
RT: 4.128 min Scan# 802
Delta R.T. 0.011 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 84 Resp: 3828

Ion	Ratio	Lower	Upper
84	100		
56	113.8	81.2	121.8
41	67.1	48.6	72.8

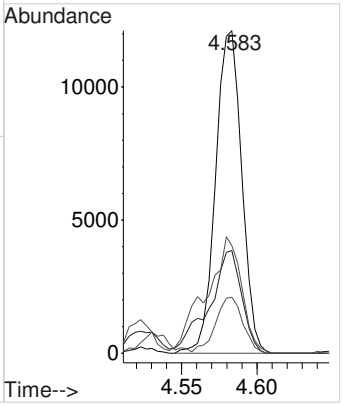


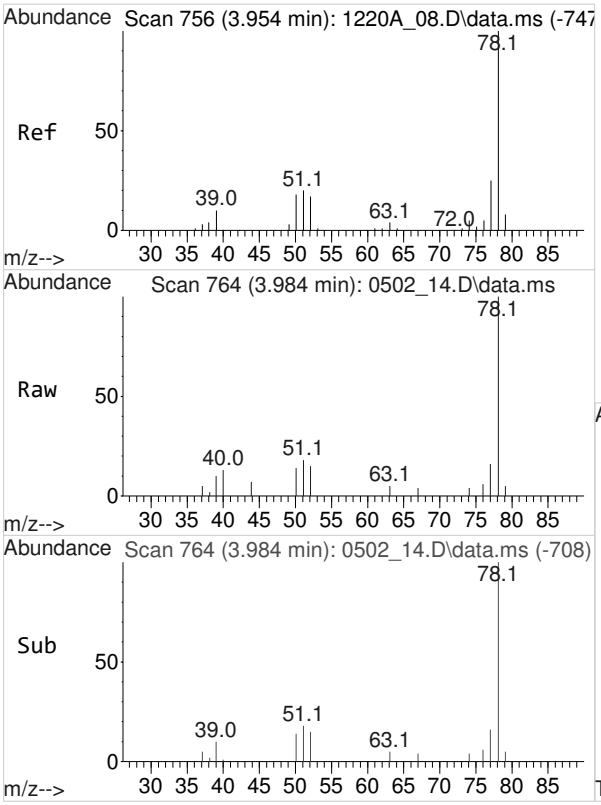


#49
2,2,4-Trimethylpentane
Concen: 1.5047221 ppbv
RT: 4.583 min Scan# 922
Delta R.T. 0.007 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 57 Resp: 14659

Ion	Ratio	Lower	Upper
57	100		
41	39.9	22.3	33.5#
43	18.1	15.2	22.8
56	49.1	25.8	38.8#

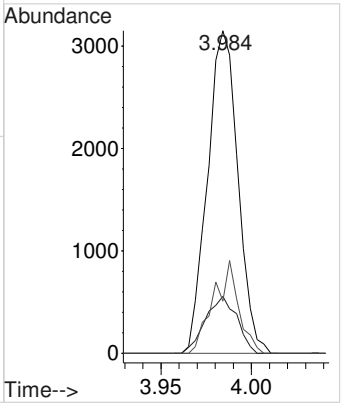


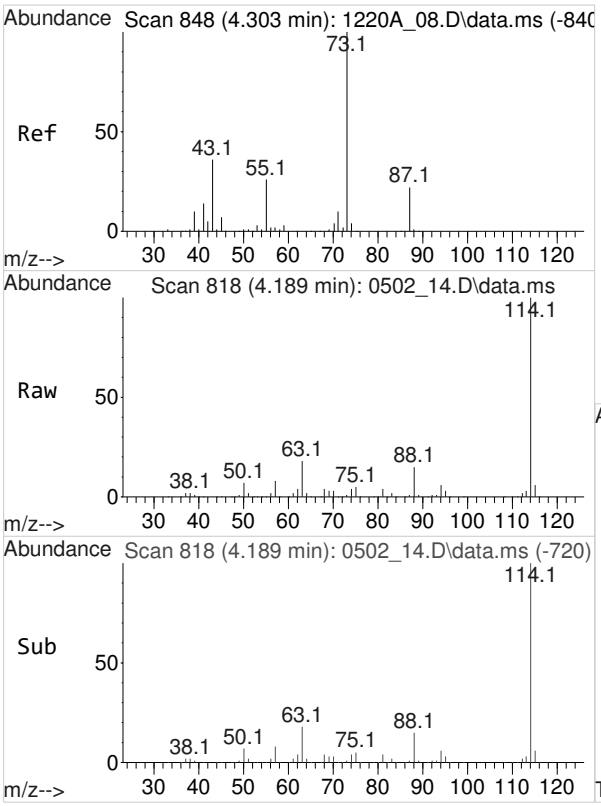


#51
Benzene
Concen: 0.4908799 ppbv
RT: 3.984 min Scan# 764
Delta R.T. 0.011 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 78 Resp: 3679

Ion	Ratio	Lower	Upper
78	100		
51	18.2	13.0	19.4
77	23.7	19.0	28.4

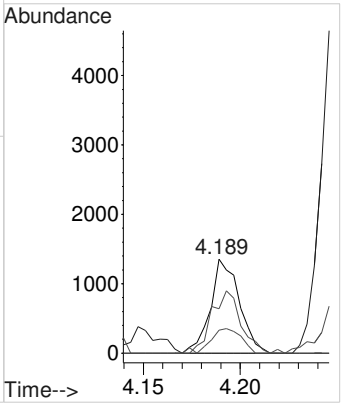


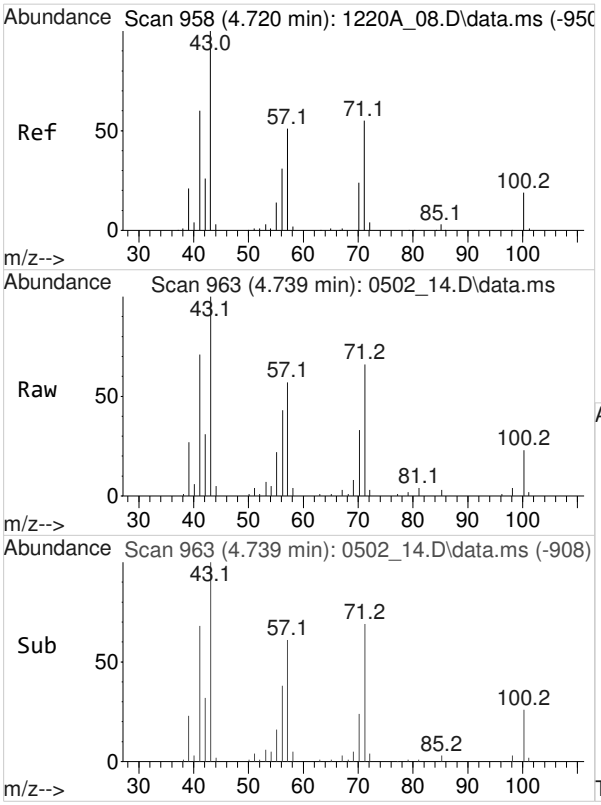


#52
TERT-AMYL METHYL ETHER
Concen: 0.2152967 ppbv
RT: 4.189 min Scan# 818
Delta R.T. -0.129 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 73 Resp: 1405

Ion	Ratio	Lower	Upper
73	100		
43	24.5	25.0	37.6#
55	27.9	25.0	37.4
87	66.9	20.5	30.7#

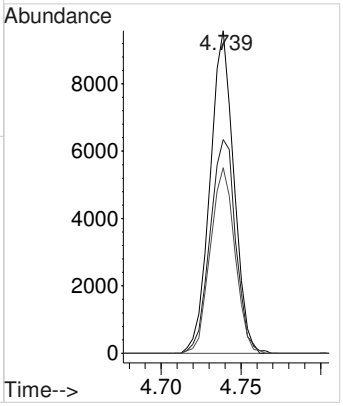


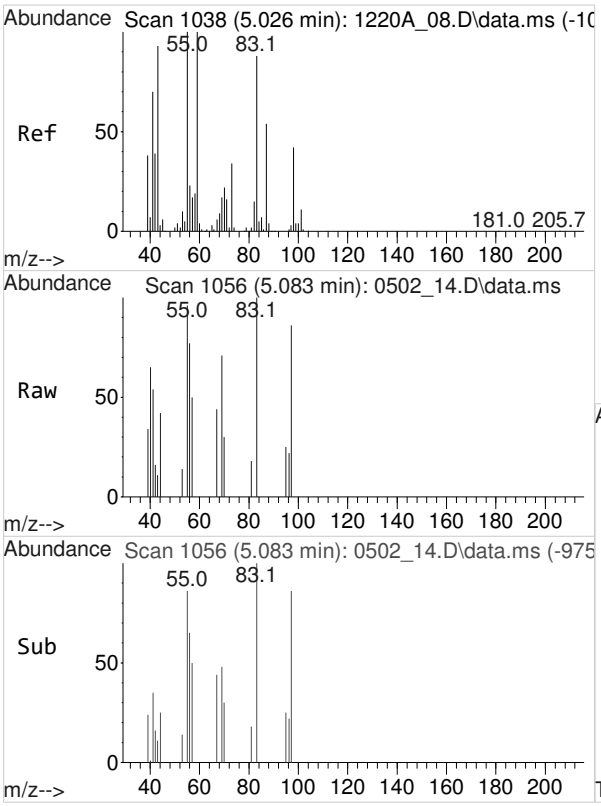


#54
Heptane
Concen: 2.8429986 ppbv
RT: 4.739 min Scan# 963
Delta R.T. 0.008 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 43 Resp: 9906

Ion	Ratio	Lower	Upper
43	100		
71	70.8	56.6	84.8
57	59.3	47.5	71.3

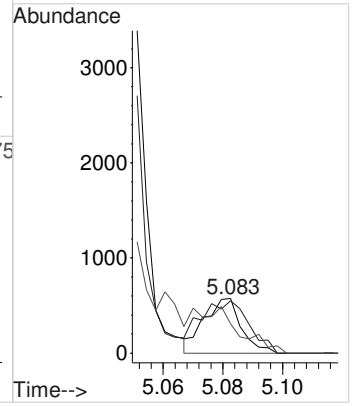


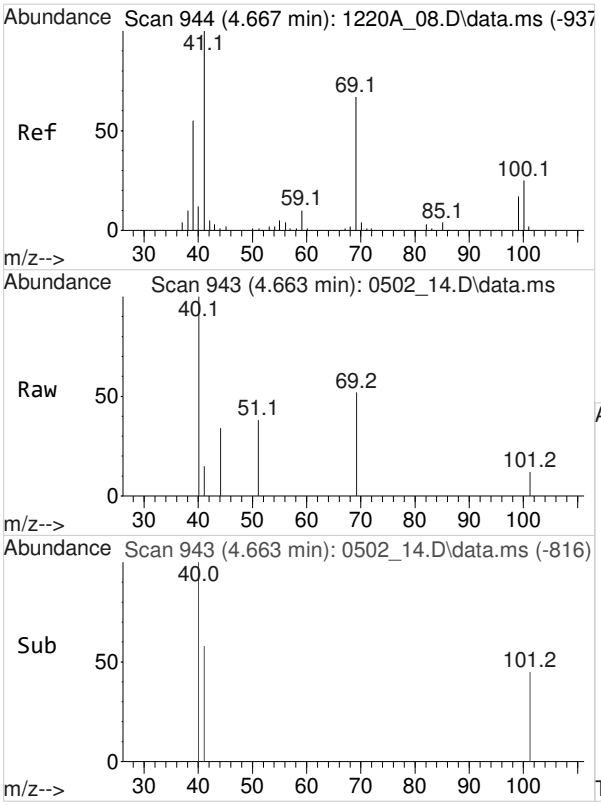


#57
METHYL CYCLOHEXANE
Concen: 0.1328168 ppbv
RT: 5.083 min Scan# 1056
Delta R.T. 0.048 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 83 Resp: 492

Ion	Ratio	Lower	Upper
83	100		
55	125.6	100.2	150.2
41	102.6	71.8	107.6

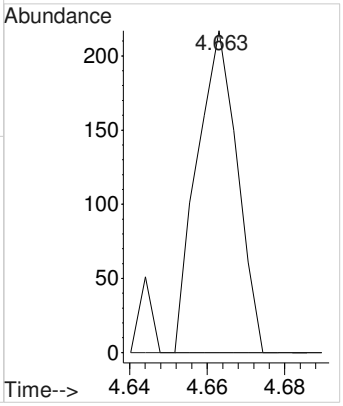


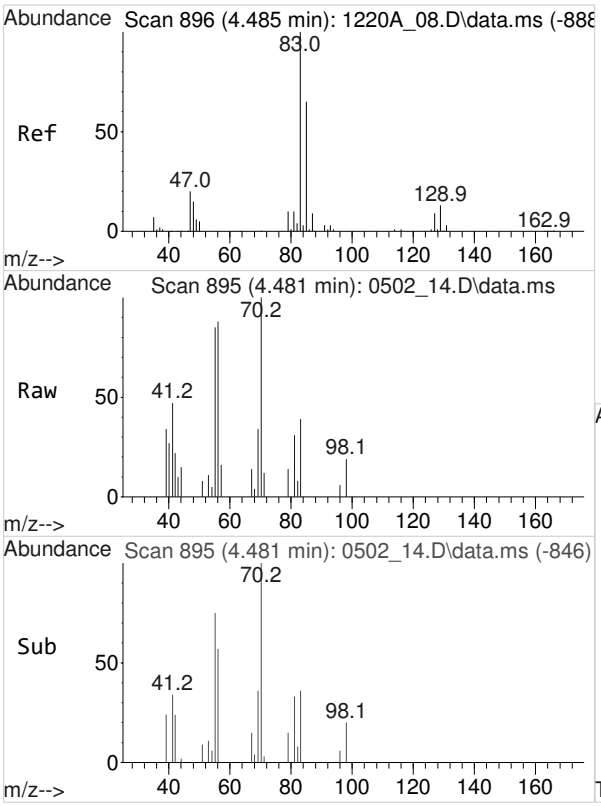


#59
Methyl Methacrylate
Concen: 0.0697478 ppbv
RT: 4.663 min Scan# 943
Delta R.T. -0.019 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 69 Resp: 157

Ion	Ratio	Lower	Upper
69	100		
100	0.0	33.9	50.9#

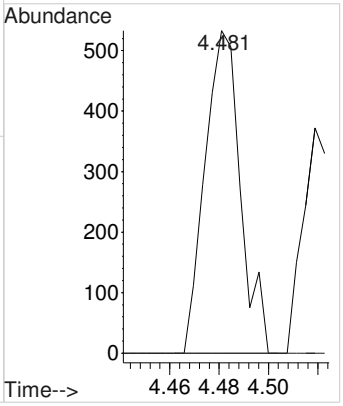


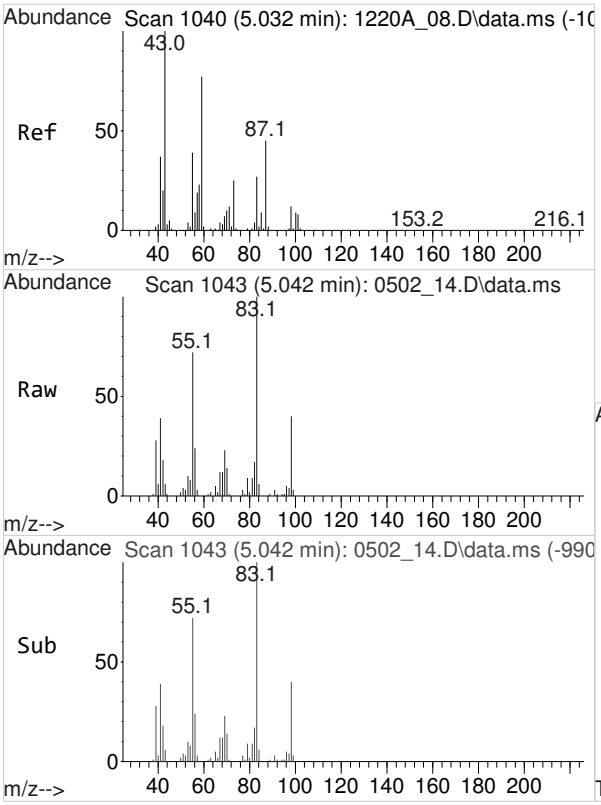


#61
Bromodichloromethane
Concen: 0.0954754 ppbv
RT: 4.481 min Scan# 895
Delta R.T. -0.015 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 83 Resp: 533

Ion	Ratio	Lower	Upper
83	100		
85	0.0	49.6	74.4#

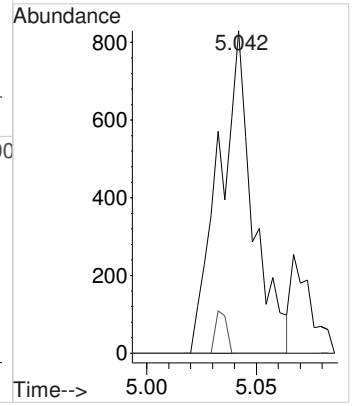


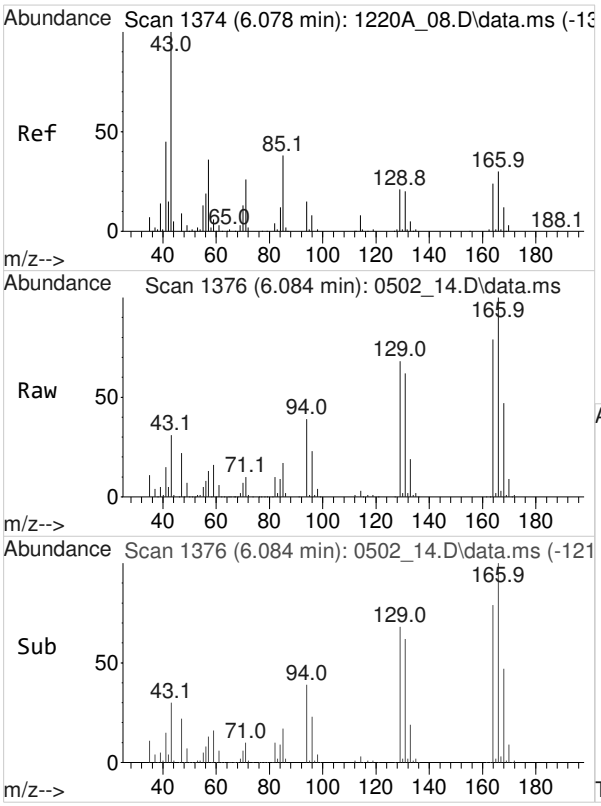


#63
4-Methyl-2-Pentanone (MIBK)
Concen: 0.1490197 ppbv
RT: 5.042 min Scan# 1043
Delta R.T. -0.000 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 43 Resp: 901

Ion	Ratio	Lower	Upper
43	100		
58	0.0	23.6	35.4#
85	0.0	11.8	17.6#

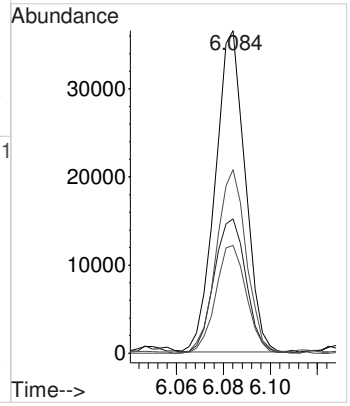


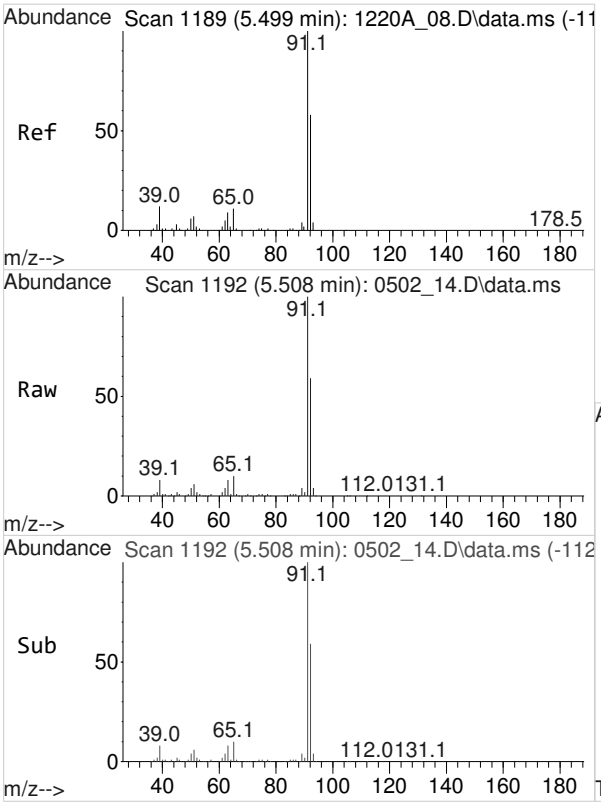


#64
n-OCTANE
Concen: 8.3540006 ppbv
RT: 6.084 min Scan# 1376
Delta R.T. 0.003 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 43 Resp: 32496

Ion	Ratio	Lower	Upper
43	100		
57	44.8	35.3	52.9
85	57.3	45.4	68.0
71	34.5	28.9	43.3

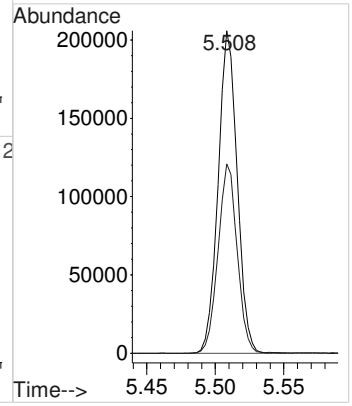


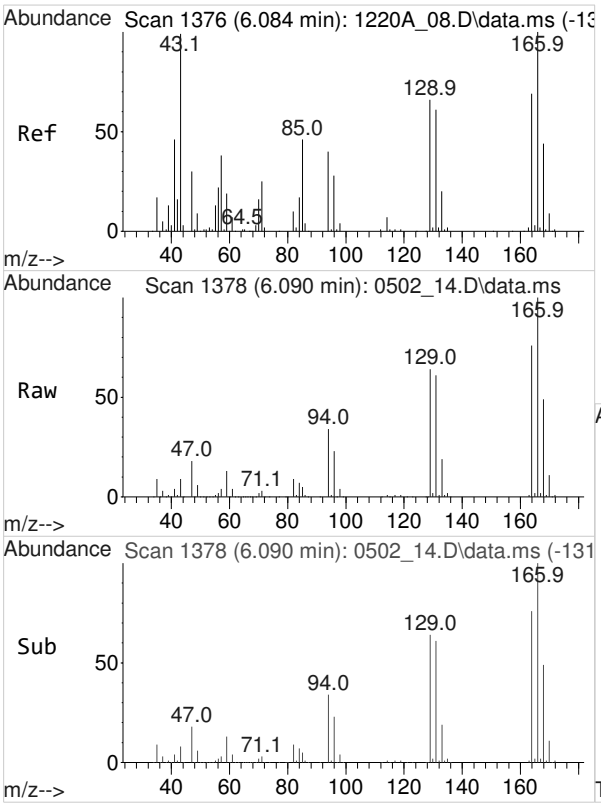


#65
Toluene
Concen: 24.7035561 ppbv
RT: 5.508 min Scan# 1192
Delta R.T. 0.003 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 91 Resp: 198626

Ion	Ratio	Lower	Upper
91	100		
92	58.9	47.0	70.4

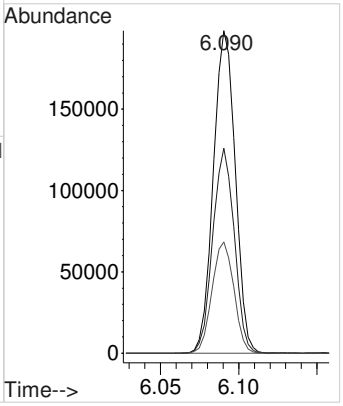


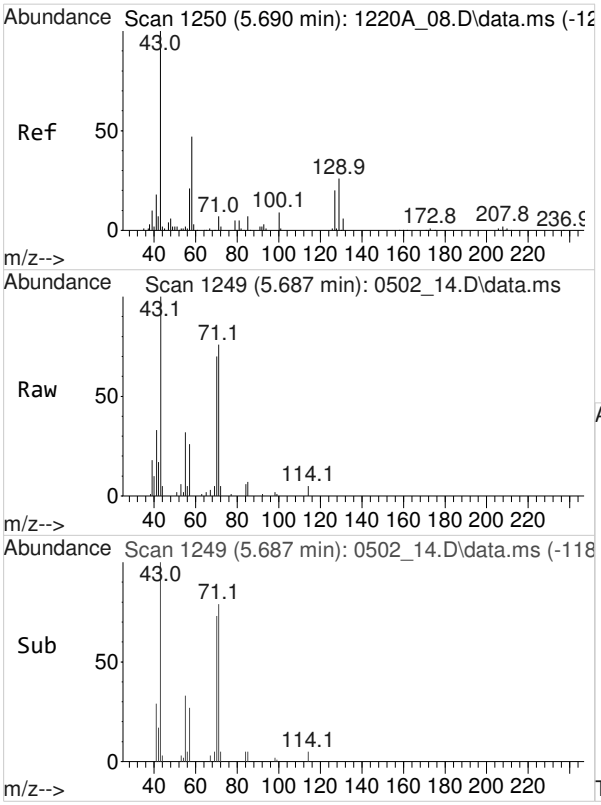


#68
Tetrachloroethene
Concen: 35.7847388 ppbv
RT: 6.090 min Scan# 1378
Delta R.T. 0.003 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion:166 Resp: 192982

Ion	Ratio	Lower	Upper
166	100		
129	62.4	48.8	73.2
94	34.4	27.4	41.2

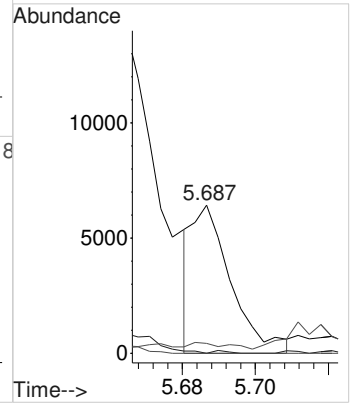


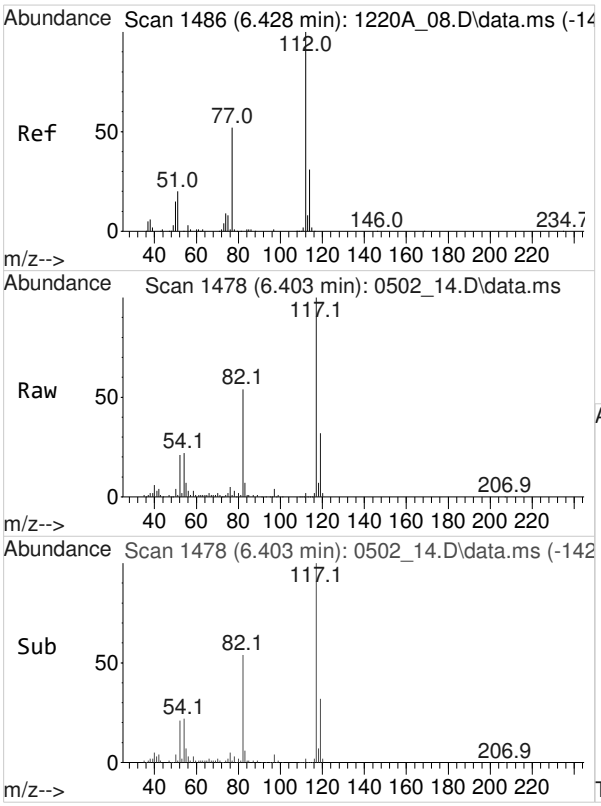


#69
Methyl Butyl Ketone
Concen: 1.4876406 ppbv
RT: 5.687 min Scan# 1249
Delta R.T. -0.009 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 43 Resp: 4730

Ion	Ratio	Lower	Upper
43	100		
58	0.7	45.0	67.4#
85	0.0	6.8	10.2#
100	0.0	11.0	16.4#

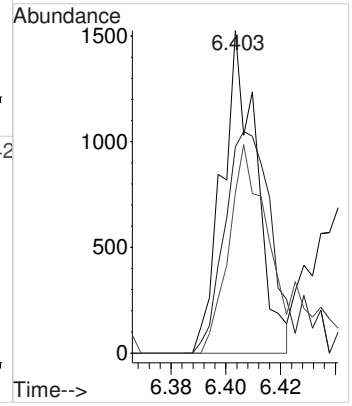


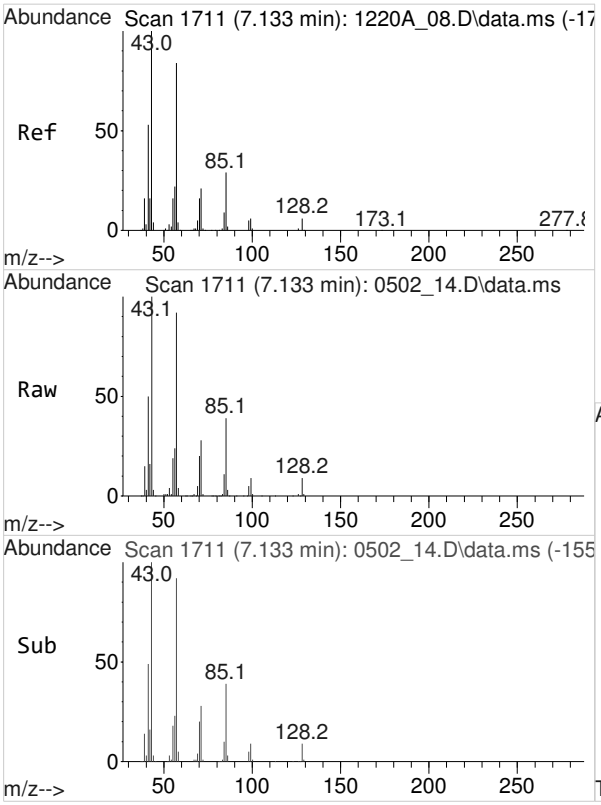


#72
Chlorobenzene
Concen: 0.1836280 ppbv
RT: 6.403 min Scan# 1478
Delta R.T. -0.025 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion:112 Resp: 1332

Ion	Ratio	Lower	Upper
112	100		
77	92.7	43.7	65.5#
51	88.7	15.7	23.5#

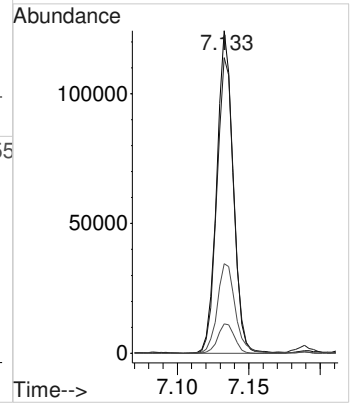


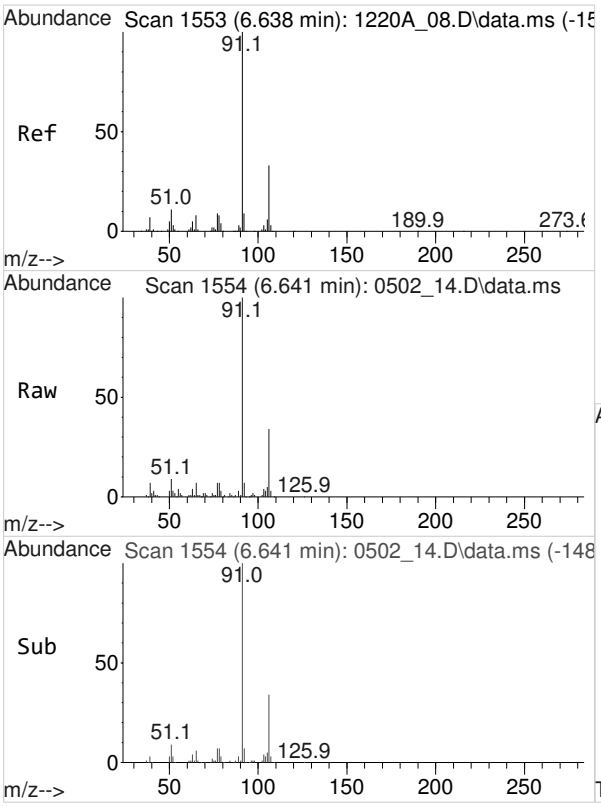


#73
NONANE
Concen: 24.4096197 ppbv
RT: 7.133 min Scan# 1711
Delta R.T. -0.000 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 43 Resp: 100434

Ion	Ratio	Lower	Upper
43	100		
57	94.5	74.6	112.0
71	30.3	23.5	35.3
128	9.3	7.0	10.4

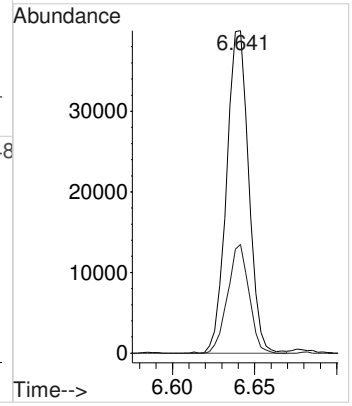


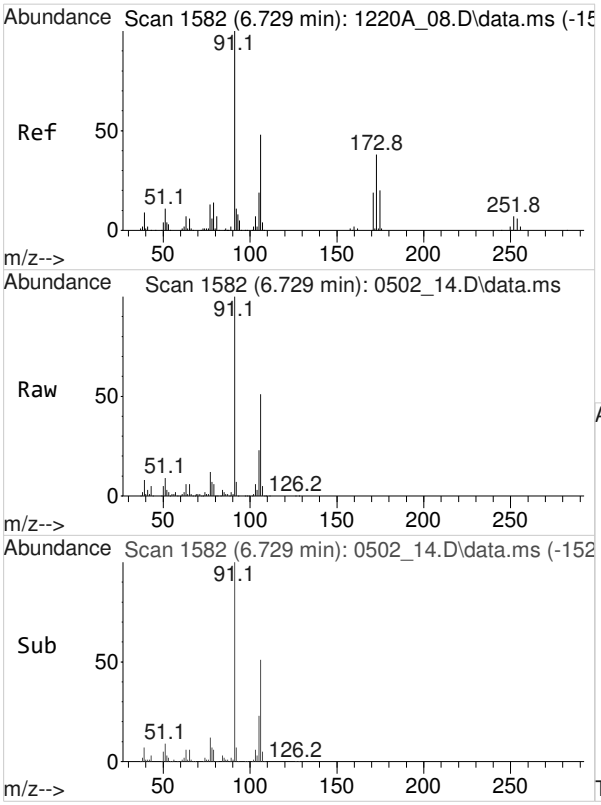


#75
Ethylbenzene
Concen: 3.3761840 ppbv
RT: 6.641 min Scan# 1554
Delta R.T. 0.003 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 91 Resp: 37232

Ion	Ratio	Lower	Upper
91	100		
106	32.5	25.8	38.6

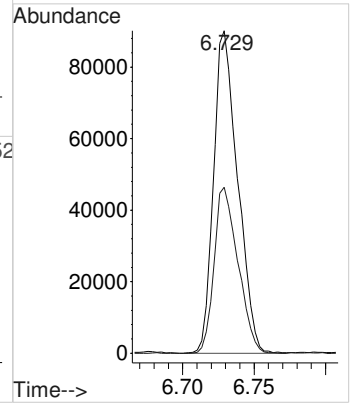


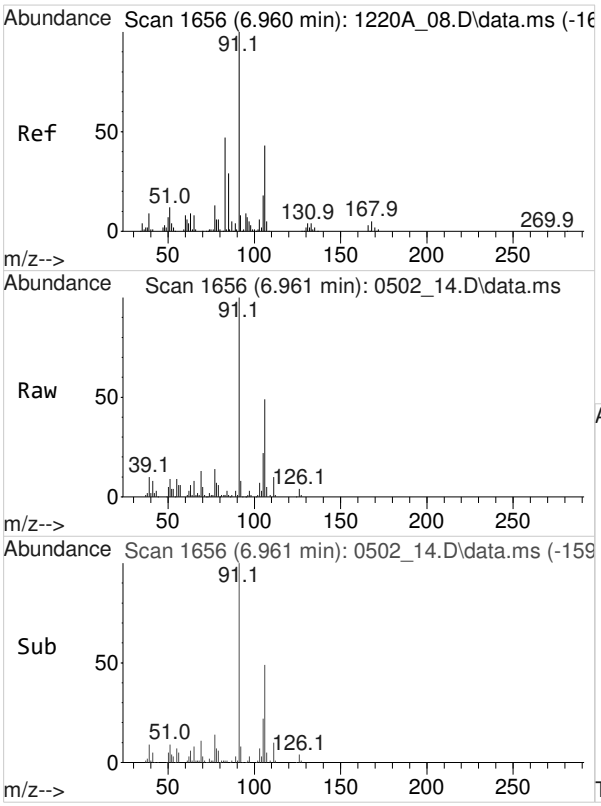


#76
M&P-Xylene
Concen: 11.5085380 ppbv
RT: 6.729 min Scan# 1582
Delta R.T. -0.006 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 91 Resp: 106195

Ion	Ratio	Lower	Upper
91	100		
106	51.0	38.8	58.2

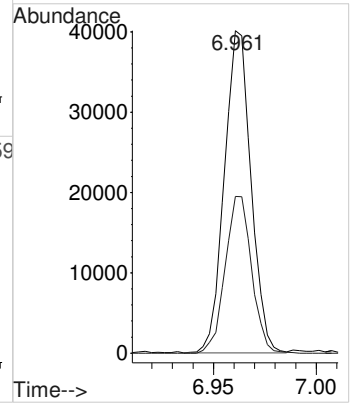


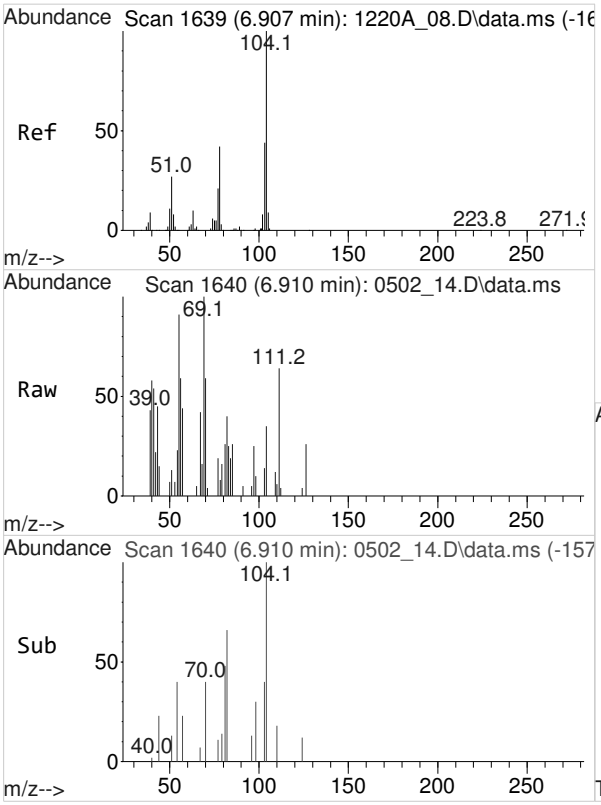


#77
O-Xylene
Concen: 3.9831287 ppbv
RT: 6.961 min Scan# 1656
Delta R.T. 0.001 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 91 Resp: 35912

Ion	Ratio	Lower	Upper
91	100		
106	48.3	38.8	58.2

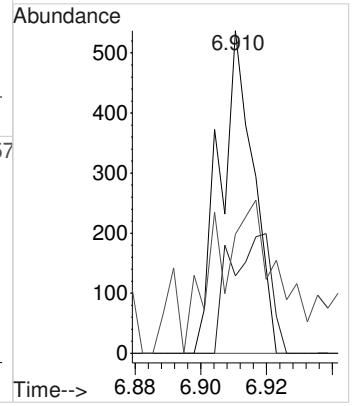


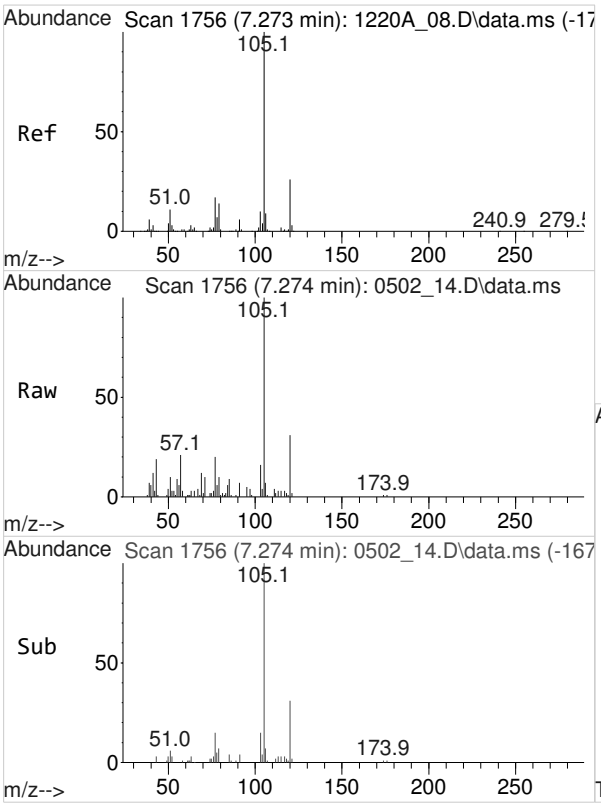


#80
Styrene
Concen: 0.0617029 ppbv
RT: 6.910 min Scan# 1640
Delta R.T. 0.000 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion:104 Resp: 382

Ion	Ratio	Lower	Upper
104	100		
78	0.0	32.2	48.2#
51	86.1	16.0	24.0#

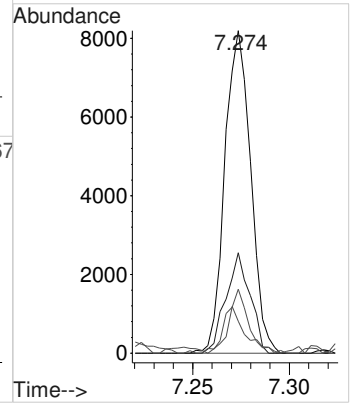


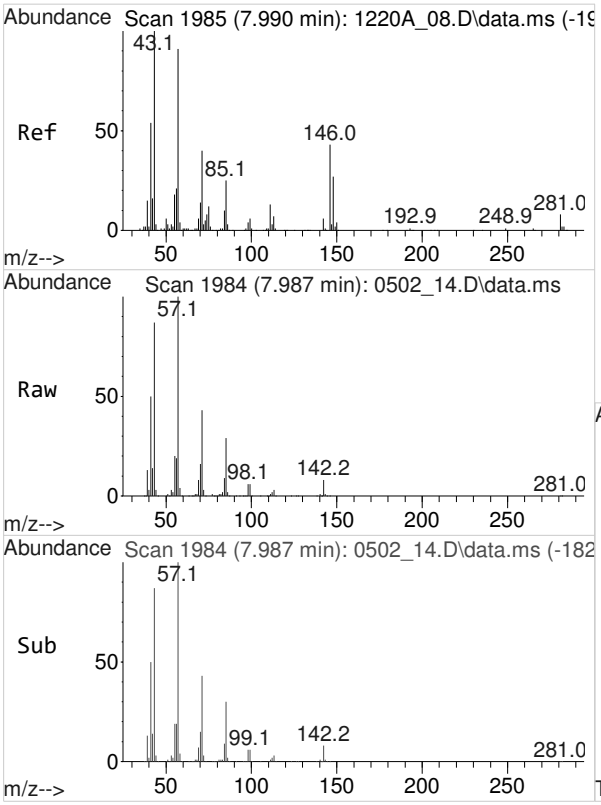


#82
Isopropylbenzene
Concen: 0.5254101 ppbv
RT: 7.274 min Scan# 1756
Delta R.T. 0.001 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion:105 Resp: 7583

Ion	Ratio	Lower	Upper
105	100		
120	29.1	21.0	31.6
77	16.6	11.0	16.6#
51	10.7	7.0	10.4#

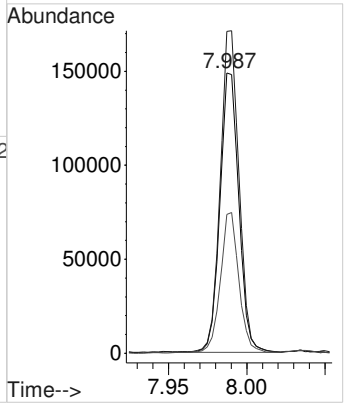


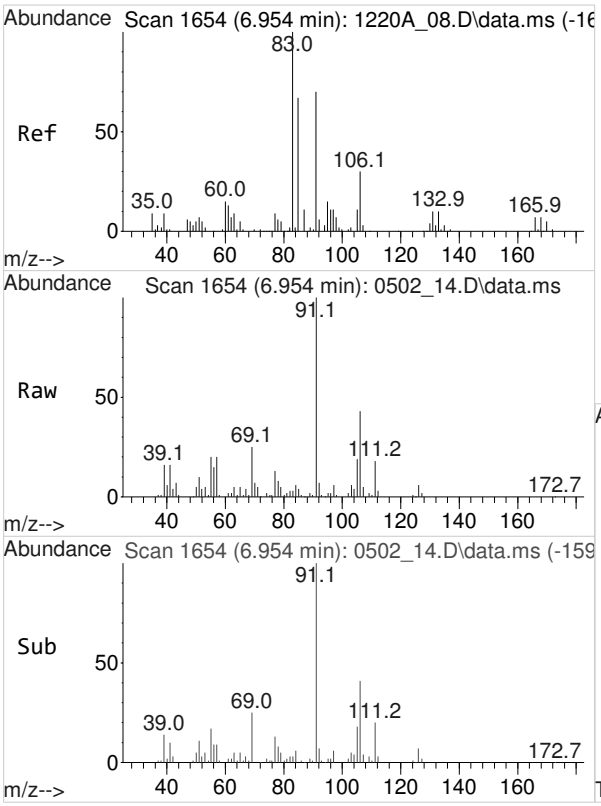


#83
n-DECANE
Concen: 20.8182367 ppbv
RT: 7.987 min Scan# 1984
Delta R.T. -0.003 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 43 Resp: 124639

Ion	Ratio	Lower	Upper
43	100		
57	114.1	85.7	128.5
71	49.8	39.4	59.0

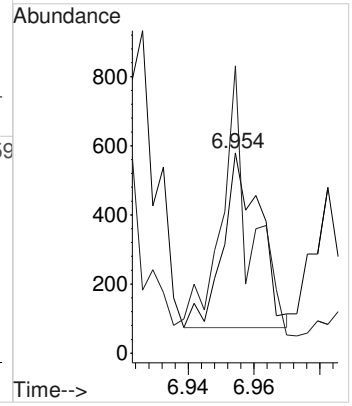


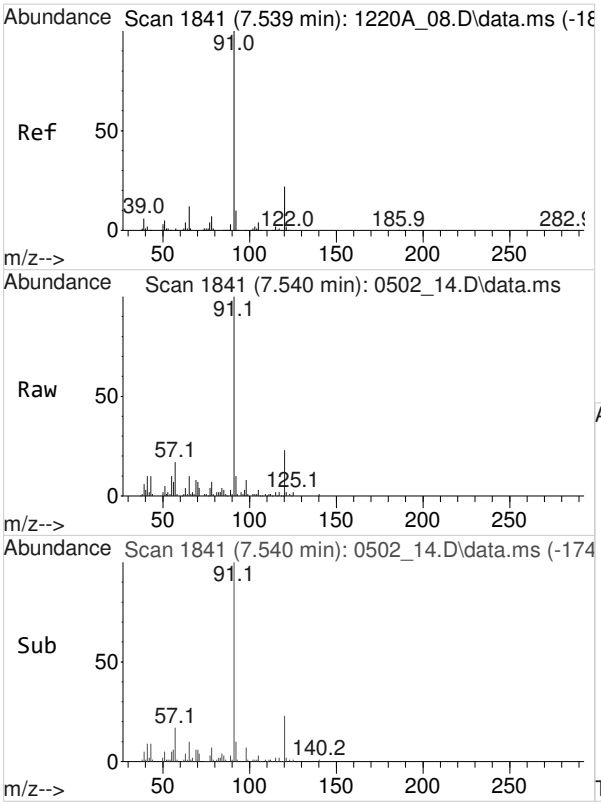


#84
1,1,2,2-Tetrachloroethane
Concen: 0.0586411 ppbv
RT: 6.954 min Scan# 1654
Delta R.T. 0.000 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 83 Resp: 390

Ion	Ratio	Lower	Upper
83	100		
85	0.0	51.0	76.4#

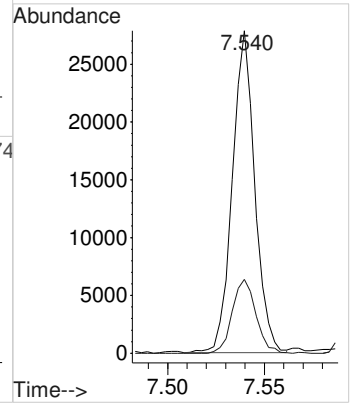


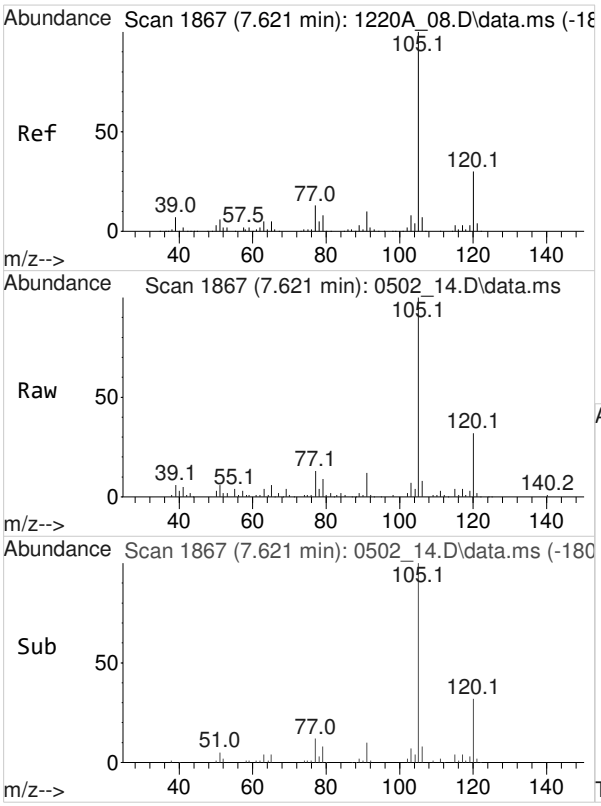


#85
n-Propylbenzene
Concen: 1.4787807 ppbv
RT: 7.540 min Scan# 1841
Delta R.T. 0.001 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 91 Resp: 22309

Ion	Ratio	Lower	Upper
91	100		
120	24.1	19.4	29.0

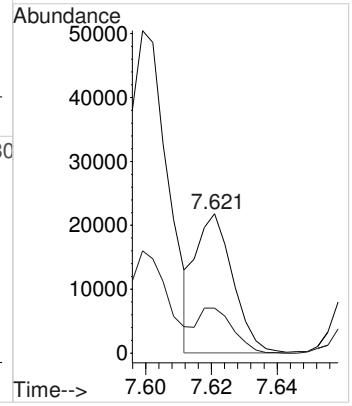


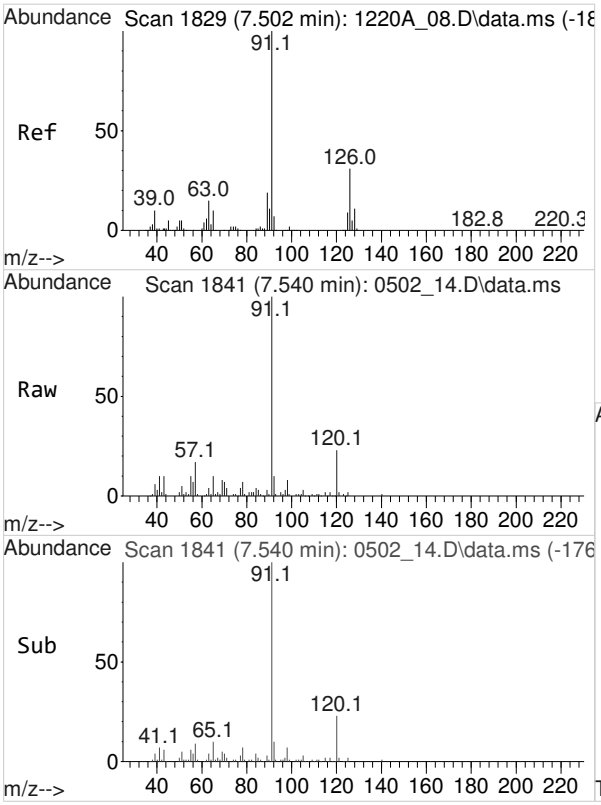


#86
4-Ethyltoluene
Concen: 1.3648732 ppbv
RT: 7.621 min Scan# 1867
Delta R.T. -0.000 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion:105 Resp: 17097

Ion	Ratio	Lower	Upper
105	100		
120	28.1	24.4	36.6

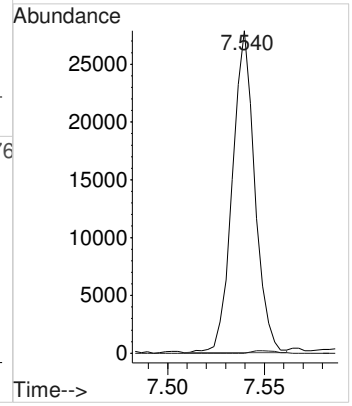


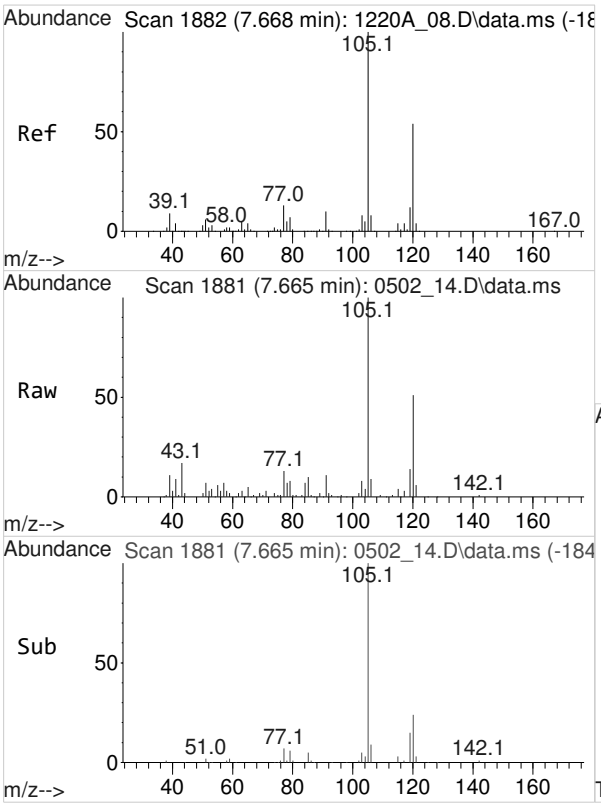


#87
2-Chlorotoluene
Concen: 2.4298750 ppbv
RT: 7.540 min Scan# 1841
Delta R.T. 0.041 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 91 Resp: 22309

Ion	Ratio	Lower	Upper
91	100		
126	0.8	29.7	44.5#

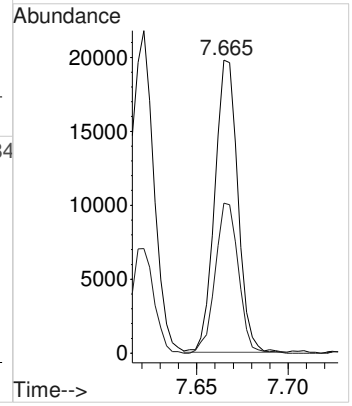


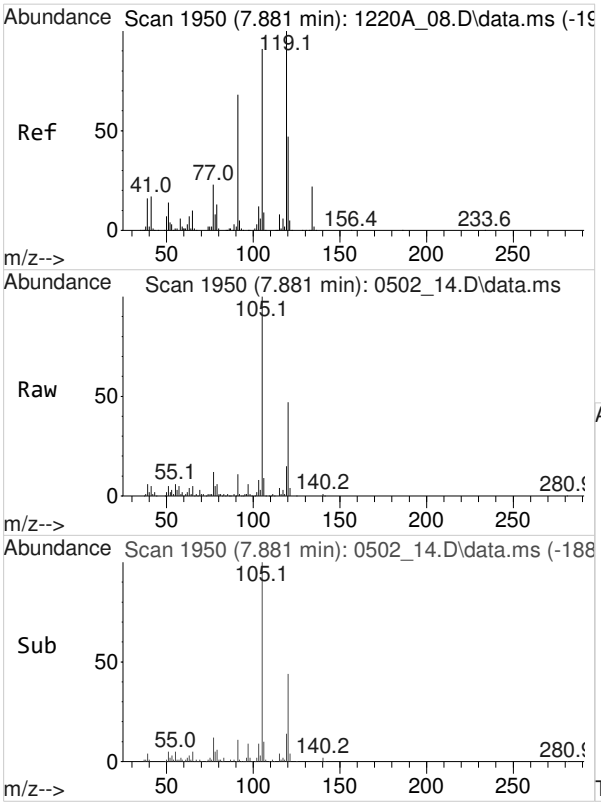


#89
1,3,5-Trimethylbenzene
Concen: 1.5278426 ppbv
RT: 7.665 min Scan# 1881
Delta R.T. -0.000 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion:105 Resp: 17349

Ion	Ratio	Lower	Upper
105	100		
120	51.9	39.8	59.8

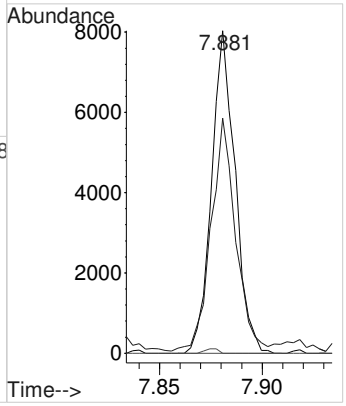


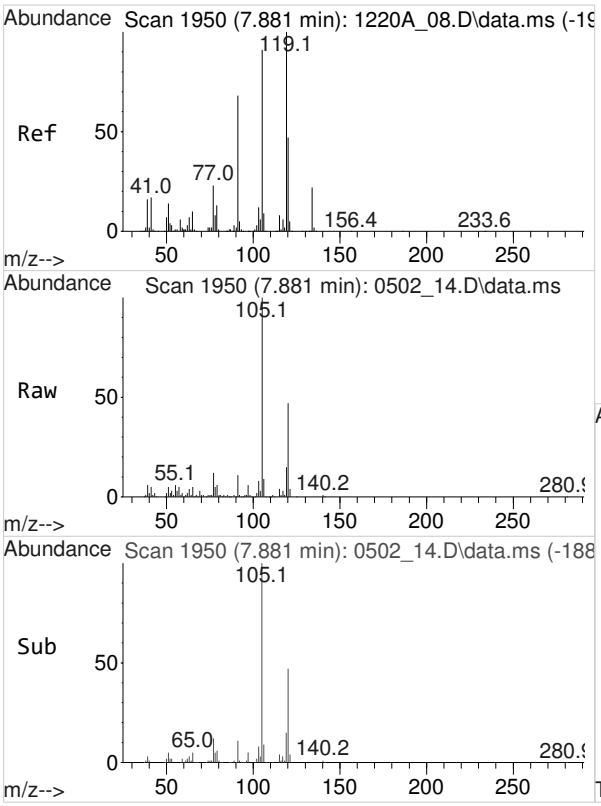


#90
tert-Butylbenzene
Concen: 0.5017248 ppbv
RT: 7.881 min Scan# 1950
Delta R.T. 0.003 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion:119 Resp: 6381

Ion	Ratio	Lower	Upper
119	100		
91	75.1	49.7	74.5#
134	0.8	18.8	28.2#

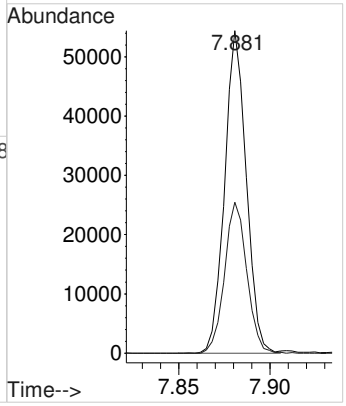


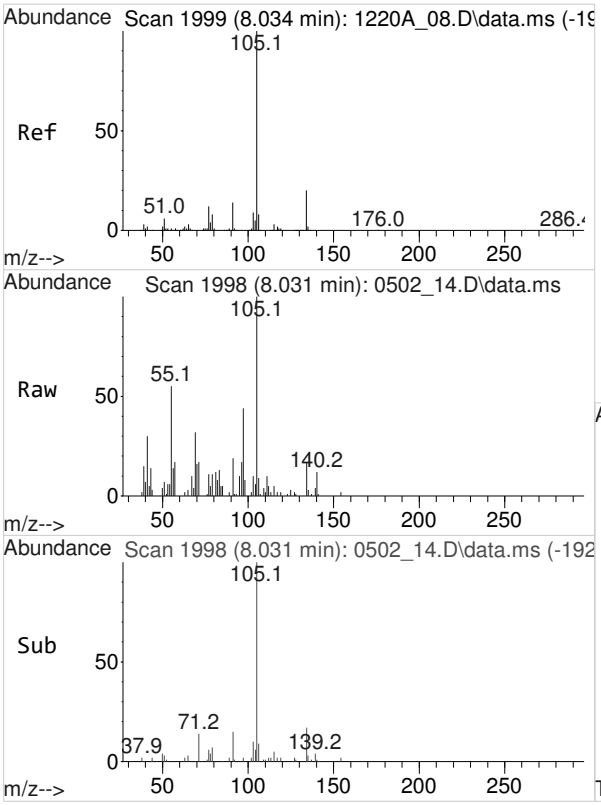


#91
1,2,4-Trimethylbenzene
Concen: 3.8665130 ppbv
RT: 7.881 min Scan# 1950
Delta R.T. -0.000 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion:105 Resp: 44859

Ion	Ratio	Lower	Upper
105	100		
120	48.1	45.0	67.4

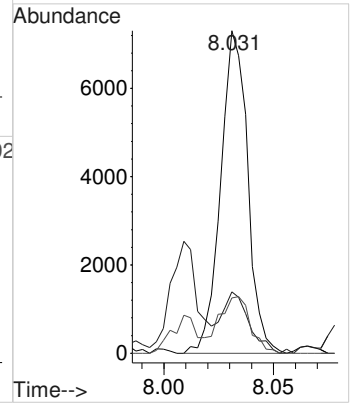


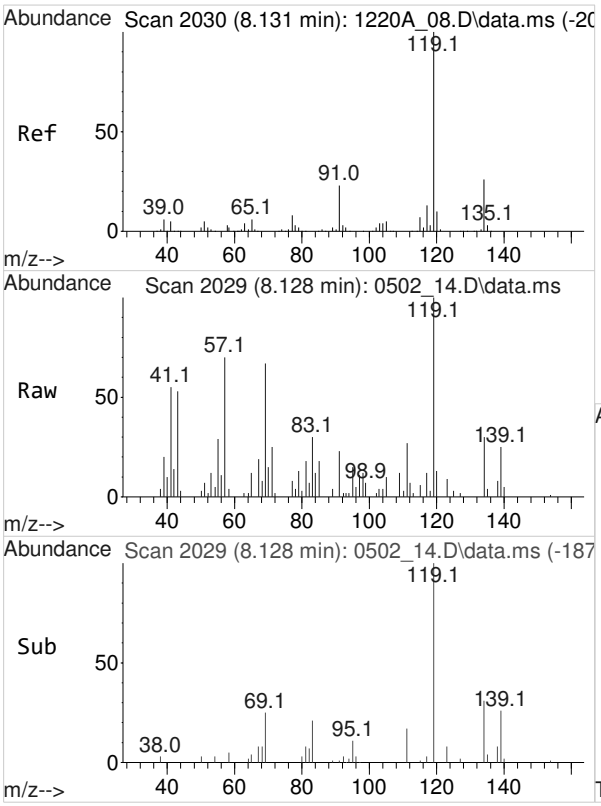


#92
sec-Butylbenzene
Concen: 0.3485786 ppbv
RT: 8.031 min Scan# 1998
Delta R.T. 0.000 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion:105 Resp: 6267

Ion	Ratio	Lower	Upper
105	100		
91	19.2	12.1	18.1#
134	20.1	16.7	25.1

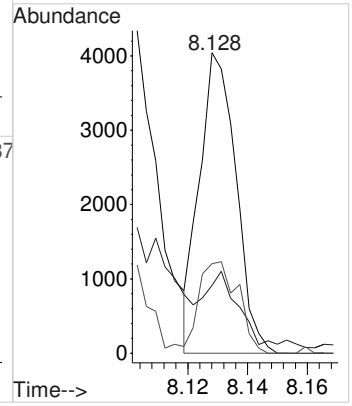


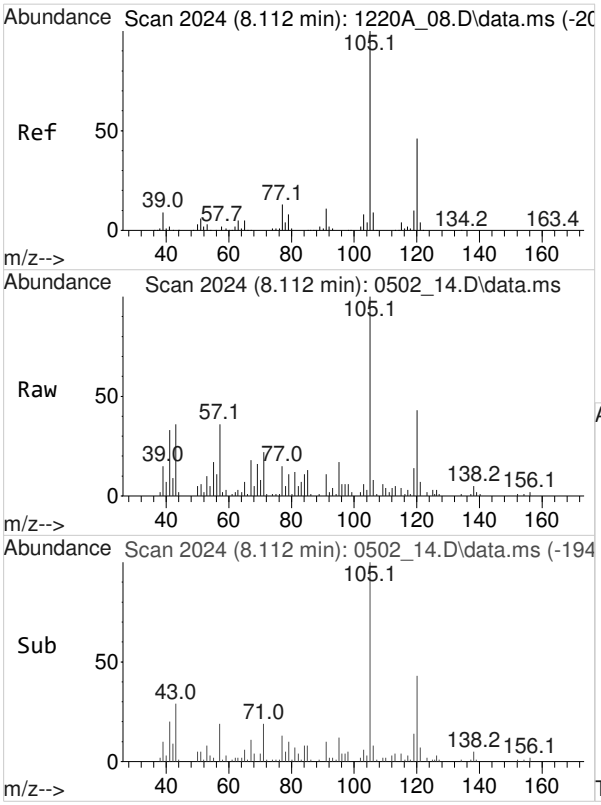


#94
P-ISOPROPYLTOLUENE
Concen: 0.1806217 ppbv
RT: 8.128 min Scan# 2029
Delta R.T. -0.003 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion:119 Resp: 3422

Ion	Ratio	Lower	Upper
119	100		
91	24.3	14.9	22.3#
134	32.4	19.4	29.2#

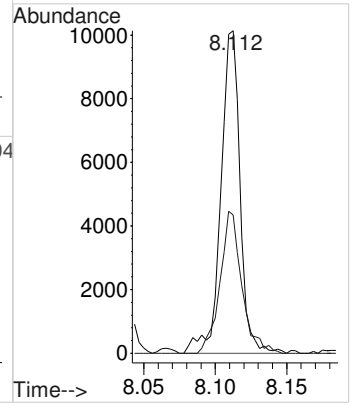


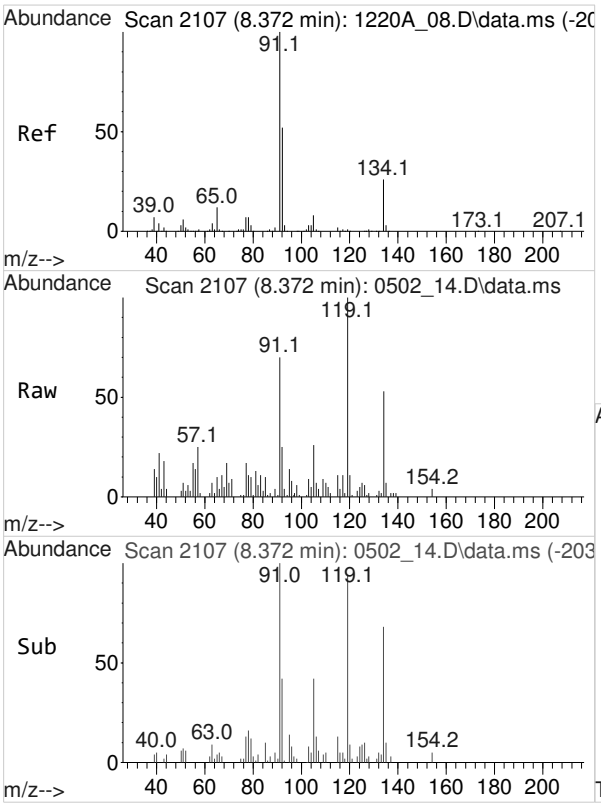


#96
1,2,3-TRIMETHYLBENZENE
Concen: 0.7002513 ppbv
RT: 8.112 min Scan# 2024
Delta R.T. 0.003 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion:105 Resp: 9580

Ion	Ratio	Lower	Upper
105	100		
120	49.7	35.3	52.9

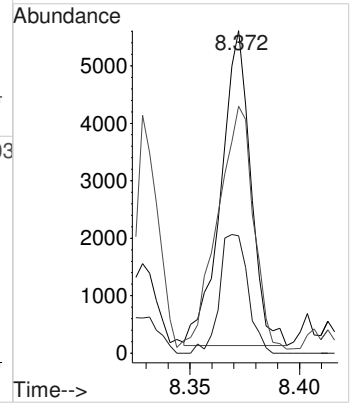




#98
n-Butylbenzene
Concen: 0.3561403 ppbv
RT: 8.372 min Scan# 2107
Delta R.T. 0.000 min
Lab File: 0502_14.D
Acq: 02 May 2024 05:49 pm

Tgt Ion: 91 Resp: 5195

Ion	Ratio	Lower	Upper
91	100		
92	35.9	41.0	61.4#
134	95.6	22.7	34.1#



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: SG2

Lab Sample ID:	L1731355-02	**SDG:**	L1731355
Client Sample ID:	SG2	**Collected Date/Time:**	04/29/24 12:54
Lab File ID:	0501_26	**Received Date/Time:**	05/01/24 09:00
Instrument ID:	AIRMS13	**Preparation Date/Time:**	05/02/24 04:34
Analytical Batch:	WG2278229	**Analysis Date/Time:**	05/02/24 04:34
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
Acetone	67-64-1	7.16	14.2		0.584	1.25
Benzene	71-43-2	10.08	12.6		0.0715	0.200
Bromodichloromethane	75-27-4	0	ND		0.0702	0.200
Bromomethane	74-83-9	0	ND		0.0982	0.200
1,3-Butadiene	106-99-0	0	ND		0.104	2.00
Carbon disulfide	75-15-0	7.35	49.2		0.102	0.200
Carbon tetrachloride	56-23-5	9.83	ND		0.0732	0.200
Chlorobenzene	108-90-7	0	ND		0.0832	0.200
Chloroethane	75-00-3	0	ND		0.0996	0.200
Chloroform	67-66-3	0	ND		0.0717	0.200
Chloromethane	74-87-3	4.81	0.362		0.103	0.200
Cyclohexane	110-82-7	9.68	84.3		0.0753	0.200
Dibromochloromethane	124-48-1	0	ND		0.0727	0.200
1,2-Dibromoethane	106-93-4	0	ND		0.0721	0.200
1,2-Dichloroethane	107-06-2	0	ND		0.0700	0.200
1,1-Dichloroethane	75-34-3	0	ND		0.0723	0.200
1,1-Dichloroethene	75-35-4	0	ND		0.0762	0.200
cis-1,2-Dichloroethene	156-59-2	0	ND		0.0784	0.200
trans-1,2-Dichloroethene	156-60-5	0	ND		0.0673	0.200
1,2-Dichloropropane	78-87-5	0	ND		0.0760	0.200
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.0689	0.200
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.0728	0.200
Ethanol	64-17-5	6.59	10.9		0.265	2.50
Ethyl acetate	141-78-6	0	ND		0.100	0.630
Trichlorofluoromethane	75-69-4	6.23	0.595		0.0819	0.200
Dichlorodifluoromethane	75-71-8	4.36	0.409		0.137	0.200
1,1,2-Trichlorotrifluoroethane	76-13-1	6.93	ND		0.0793	0.200
1,2-Dichlorotetrafluoroethane	76-14-2	0	ND		0.0890	0.200
Methylene Chloride	75-09-2	7.70	1.81		0.0979	0.200
Methyl Butyl Ketone	591-78-6	0	ND		0.133	1.25
2-Butanone (MEK)	78-93-3	9.15	3.41		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		0.0765	1.25
Methyl methacrylate	80-62-6	0	ND		0.0876	0.200
MTBE	1634-04-4	7.93	1.79		0.0647	0.200
2-Propanol	67-63-0	7.29	1.47		0.264	1.25
Propene	115-07-1	0	ND		0.0932	1.25
Tetrahydrofuran	109-99-9	0	ND		0.0734	0.200
1,1,1-Trichloroethane	71-55-6	0	ND		0.0736	0.200
1,1,2-Trichloroethane	79-00-5	0	ND		0.0775	0.200
Trichloroethylene	79-01-6	0	ND		0.0680	0.200
2,2,4-Trimethylpentane	540-84-1	9.98	26.4		0.133	0.200
Vinyl chloride	75-01-4	5.03	ND		0.0949	0.200
Vinyl Bromide	593-60-2	0	ND		0.0852	0.200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
SG2

Lab Sample ID:	L1731355-02	**SDG:**	L1731355
Client Sample ID:	SG2	**Collected Date/Time:**	04/29/24 12:54
Lab File ID:	0501_26	**Received Date/Time:**	05/01/24 09:00
Instrument ID:	AIRMS13	**Preparation Date/Time:**	05/02/24 04:34
Analytical Batch:	WG2278229	**Analysis Date/Time:**	05/02/24 04:34
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
Vinyl acetate	108-05-4	0	ND		0.116	0.630

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_26.D
Acq On : 2 May 2024 4:34 am
Operator :
Sample : L1731355-02 1x WG2278229
Misc : 24D29341
ALS Vial : 26 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 02 08:55:22 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.439	130	182759	4.0000000	ppbv	# 0.00
50) 1,4-Difluorobenzene	10.445	114	714697	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	13.597	117	611088	4.0000000	ppbv	# 0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	14.743	95	532493	4.2901900	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 107.25%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	475985438m	3834.1853754	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	571644913m	5444.4511525	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	873129437m	7664.7088192	ppbv	
6) BUTANE	4.977	43	21557845	719.0325493	ppbv	96
7) 1,1-DIFLUOROETHANE	4.294	65	15167	1.6113544	ppbv	96
8) Dichlorodifluoromethane	4.361	85	14229	0.4086645	ppbv	98
9) CHLORODIFLUOROMETHANE	4.416	67	2173	0.5597005	ppbv	69
11) Chloromethane	4.806	50	5975m	0.3622951	ppbv	
12) Vinyl Chloride	5.032	62	1265	0.0725315	ppbv	94
16) ISOPENTANE	5.910	43	8306767	387.4102739	ppbv	92
18) Trichlorofluoromethane	6.227	101	23925	0.5953400	ppbv	99
19) PENTANE	6.306	43	12305683	390.0741480	ppbv	98
20) Ethanol	6.586	45	84971	10.9378291	ppbv	99
21) ACROLEIN	6.940	56	69570	9.1283870	ppbv #	70
22) 1,1,2-Trichlorotrifluo...	6.928	101	5413	0.1750943	ppbv	95
24) Acetone	7.159	58	111326	14.2449897	ppbv	90
26) 2-Propanol	7.287	45	48759	1.4666984	ppbv #	87
27) Carbon Disulfide	7.354	76	2295657	49.2187462	ppbv	96
28) Allyl Chloride	7.354	76	2279540	359.8895432	ppbv #	1
29) METHYL ACETATE	7.550	43	8518781	227.0991515	ppbv #	63
30) ACETONITRILE	7.550	41	3644339	195.9185827	ppbv #	37
31) Methylene Chloride	7.696	49	42377	1.8120750	ppbv #	63
32) TERT-BUTYL ALCOHOL	7.781	59	20489	0.6157371	ppbv #	1
33) Methyl Tert-Butyl Ether	7.934	73	65857	1.7926803	ppbv #	1
35) ACRYLONITRILE	8.080	53	29522	2.0743613	ppbv #	50
36) n-Hexane	8.159	57	7896698	348.4059614	ppbv	94
42) 2-Butanone (MEK)	9.153	72	23838	3.4093228	ppbv	100
46) Cyclohexane	9.677	84	1315268	84.2974918	ppbv #	41
48) Carbon Tetrachloride	9.830	117	5473	0.1800121	ppbv	99
49) 2,2,4-Trimethylpentane	9.982	57	1913030	26.3530716	ppbv #	60
51) Benzene	10.080	78	600045	12.5648711	ppbv	94
52) TERT-AMYL METHYL ETHER	10.080	73	13044	0.3263364	ppbv #	1
54) Heptane	10.140	71	2235642	153.3967836	ppbv	83
56) TERT-AMYL ETHYL ETHER	10.817	73	634	0.0519939	ppbv #	1
57) METHYL CYCLOHEXANE	10.903	83	3500185	151.1574285	ppbv #	67
64) n-OCTANE	12.036	43	4766993	109.5894790	ppbv #	92
65) Toluene	12.140	91	8485370	165.9601383	ppbv	99
68) Tetrachloroethene	12.731	166	4251360	228.1926268	ppbv	98
73) NONANE	13.597	43	5483799	134.9917189	ppbv #	91
75) Ethylbenzene	13.652	91	1325256	21.7248218	ppbv	99

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_26.D
Acq On : 2 May 2024 4:34 am
Operator :
Sample : L1731355-02 1x WG2278229
Misc : 24D29341
ALS Vial : 26 Sample Multiplier: 1
InstName : AIRMS13

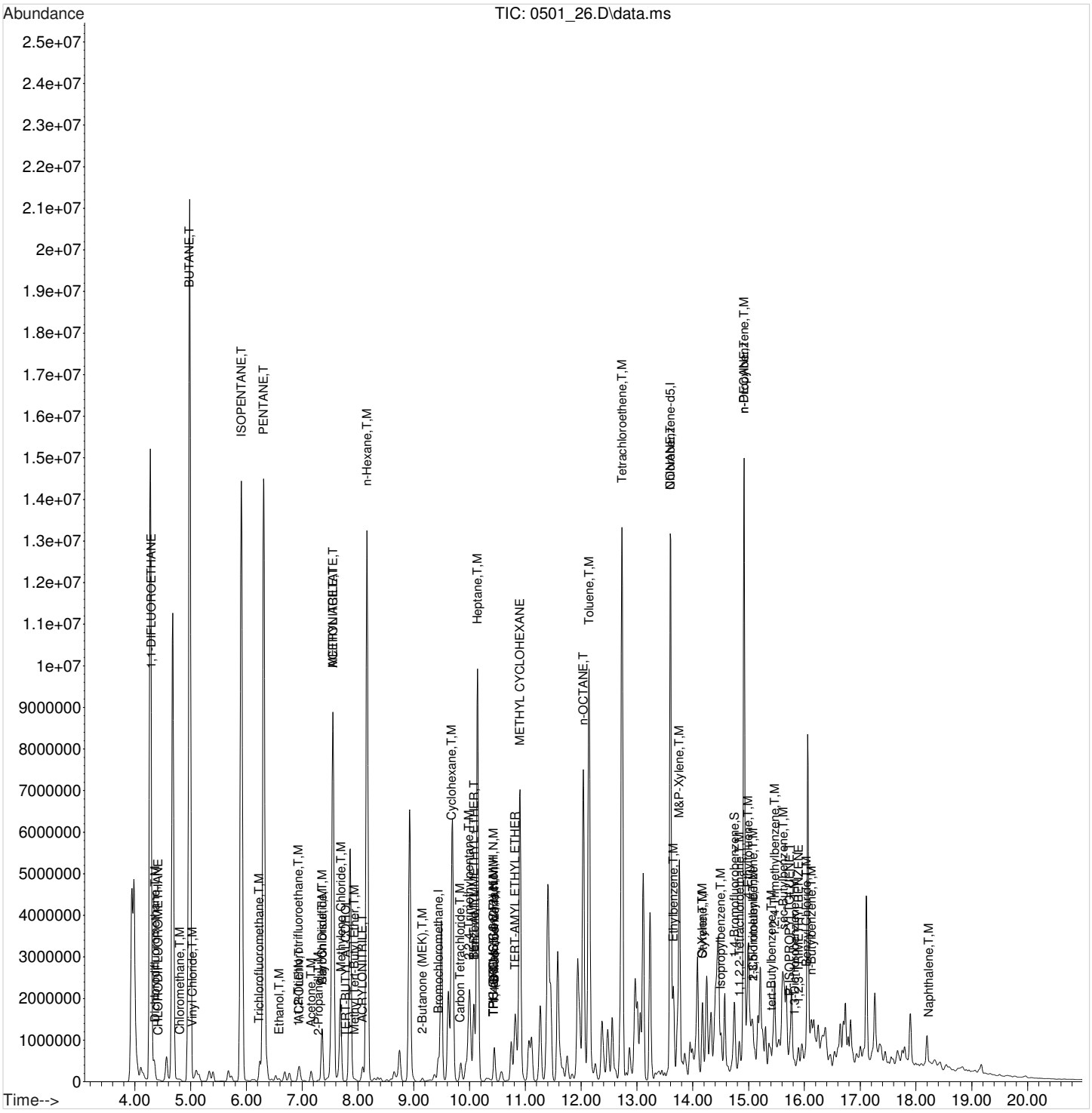
Quant Time: May 02 08:55:22 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

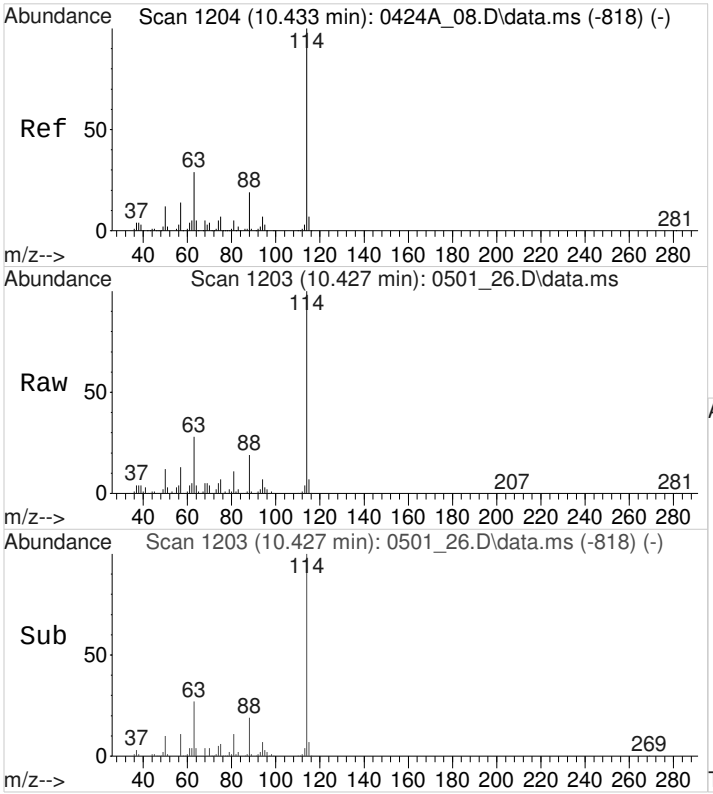
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
76)	M&P-Xylene	13.756	91	2921617	63.7780841	ppbv		100
77)	O-Xylene	14.170	91	924429	21.1925525	ppbv		99
80)	Styrene	14.176	104	33759	1.0743086	ppbv	#	1
82)	Isopropylbenzene	14.499	105	242843	4.3348297	ppbv	#	85
83)	n-DECANE	14.920	43	5811962	132.0781675	ppbv		90
84)	1,1,2,2-Tetrachloroethane	14.835	83	52201	1.2416355	ppbv	#	19
85)	n-Propylbenzene	14.920	91	637865	7.7367275	ppbv		99
86)	4-Ethyltoluene	14.993	105	1548031	26.0432925	ppbv		96
87)	2-Chlorotoluene	15.079	91	48982	0.8494291	ppbv	#	62
89)	1,3,5-Trimethylbenzene	15.079	105	403383	7.9867081	ppbv		100
90)	tert-Butylbenzene	15.408	119	5550	0.1294508	ppbv	#	24
91)	1,2,4-Trimethylbenzene	15.469	105	1016956	20.1150670	ppbv		99
92)	sec-Butylbenzene	15.621	105	177075	2.4235975	ppbv	#	50
93)	1,3-Dichlorobenzene	15.822	146	9452	0.2675584	ppbv	#	1
94)	P-ISOPROPYLTOLUENE	15.737	119	94957	1.6273022	ppbv		98
96)	1,2,3-TRIMETHYLBENZENE	15.895	105	180087	3.4852528	ppbv		98
97)	Benzyl Chloride	16.036	91	41675	0.7897232	ppbv	#	14
98)	n-Butylbenzene	16.127	91	94577	1.4201504	ppbv	#	85
103)	Naphthalene	18.230	128	10594	0.1403245	ppbv	#	60

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_26.D
Acq On : 2 May 2024 4:34 am
Operator :
Sample : L1731355-02 1x WG2278229
Misc : 24D29341
ALS Vial : 26 Sample Multiplier: 1
InstName : AIRMS13

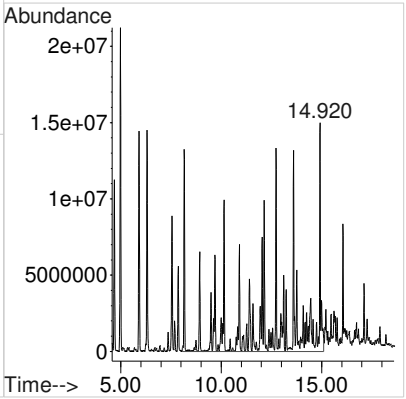
Quant Time: May 02 08:55:22 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

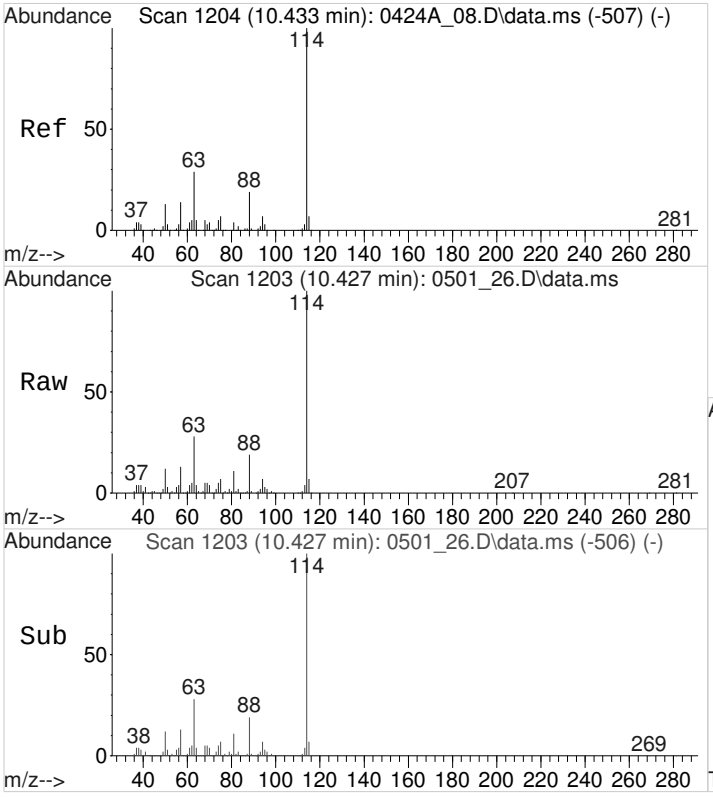




#2
TPH (GC/MS) Low Fraction
Concen: 3834.1853754 ppbv m
RT: 10.430 min Scan# 1203
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

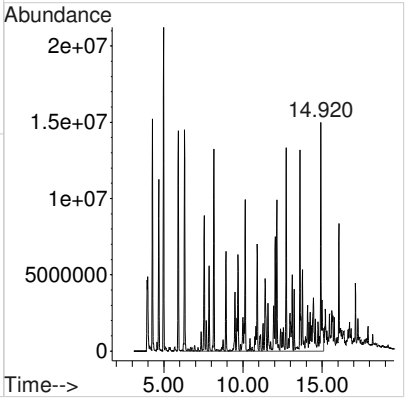
Tgt Ion:TIC Resp:475985438

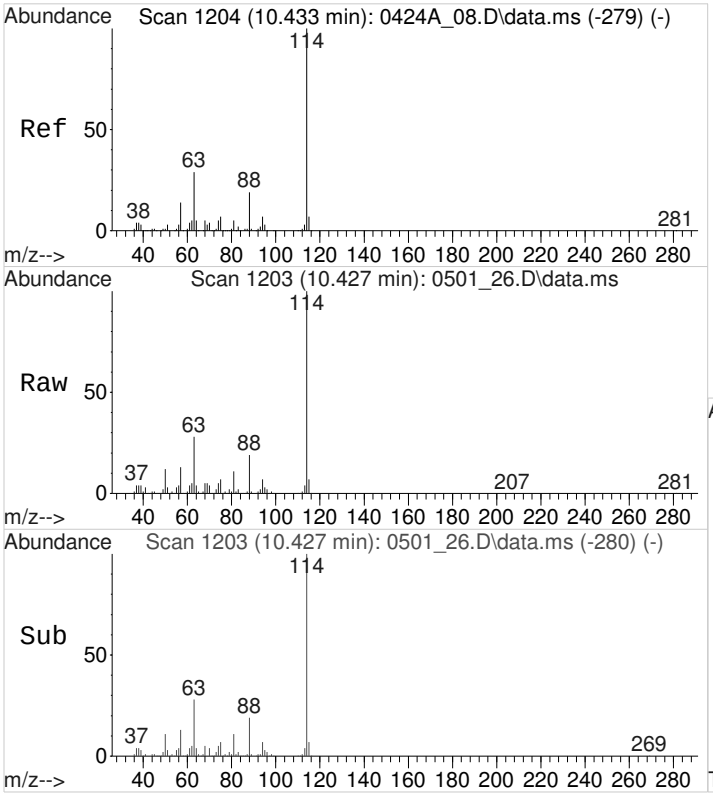




#3
TPH-GRO (C5-C10)
Concen: 5444.4511525 ppbv m
RT: 10.430 min Scan# 1203
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

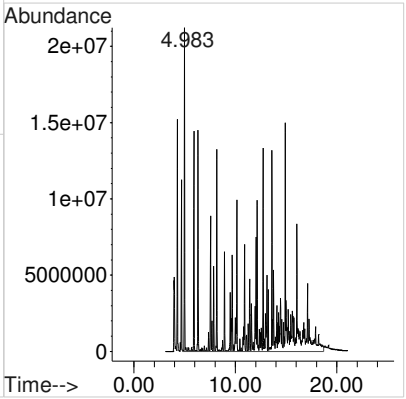
Tgt Ion:TIC Resp:571644913

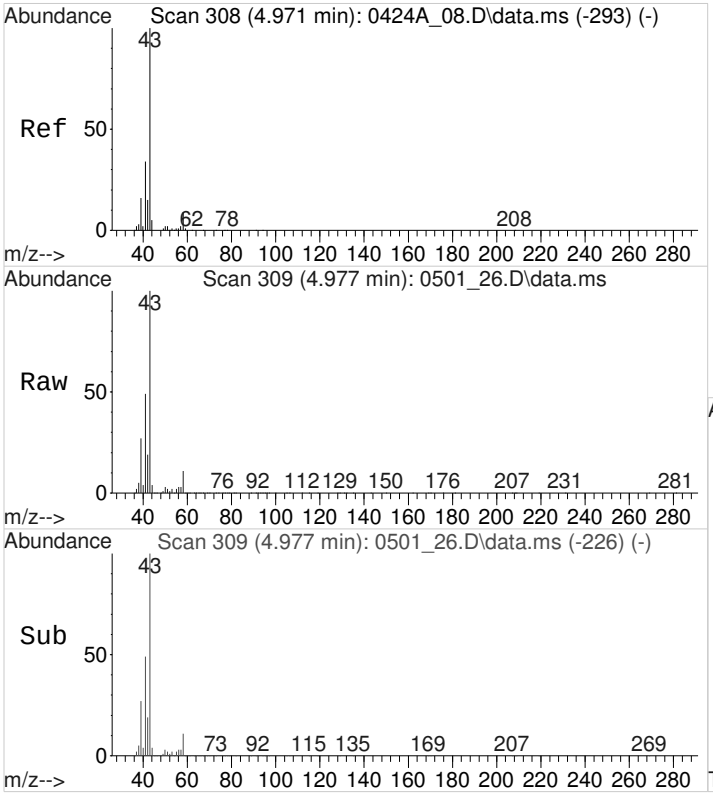




#4
THC as Gas (C4-C12)
Concen: 7664.7088192 ppbv m
RT: 10.430 min Scan# 1203
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion:TIC Resp:873129437

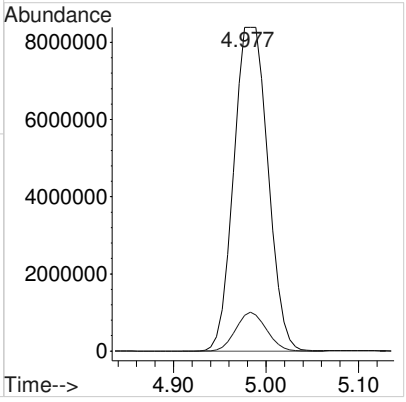


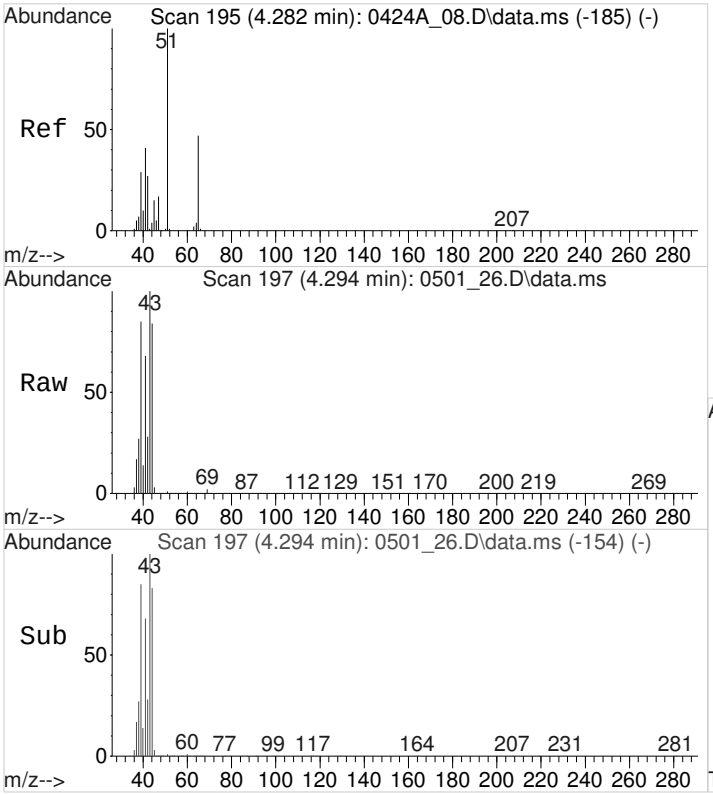


#6
BUTANE
Concen: 719.0325493 ppbv
RT: 4.977 min Scan# 309
Delta R.T. 0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 43 Resp:21557845

Ion	Ratio	Lower	Upper
43	100		
58	10.8	7.4	11.0

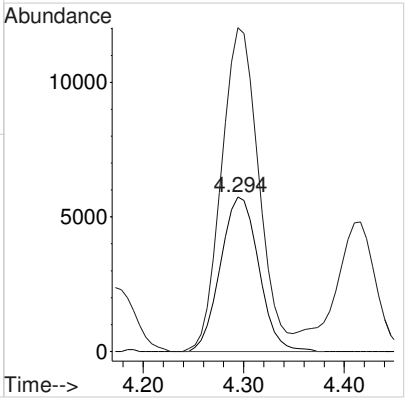


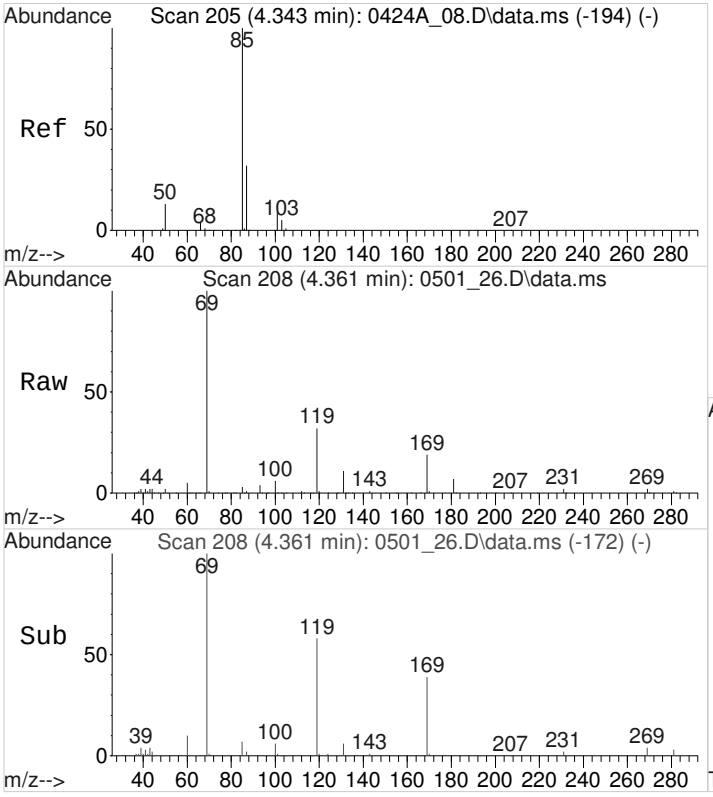


#7
1,1-DIFLUOROETHANE
Concen: 1.6113544 ppbv
RT: 4.294 min Scan# 197
Delta R.T. 0.013 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 65 Resp: 15167

Ion	Ratio	Lower	Upper
65	100		
51	205.2	169.8	254.6

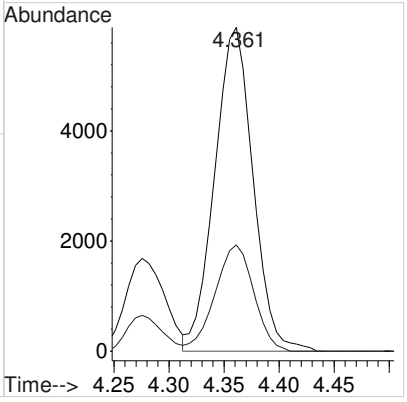


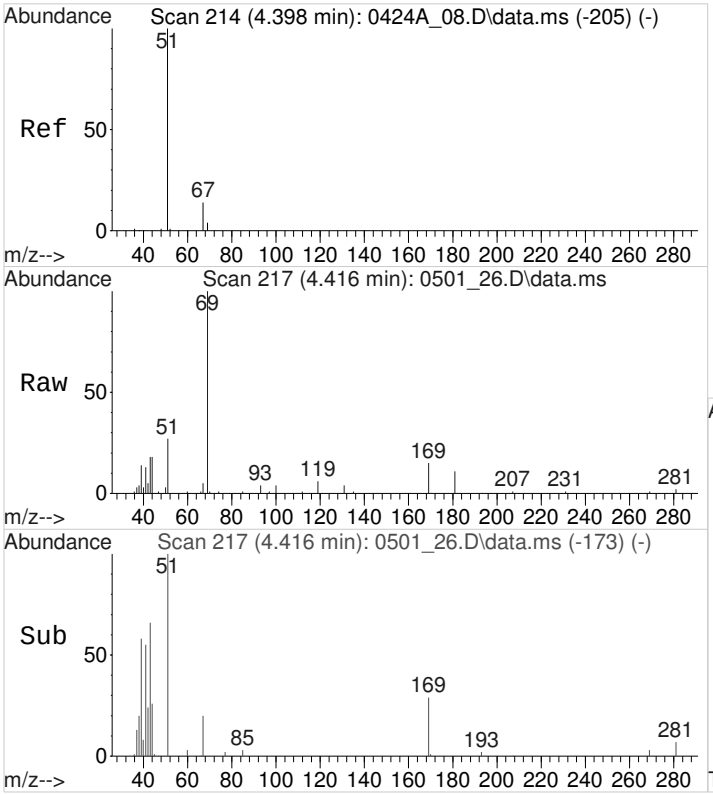


#8
Dichlorodifluoromethane
Concen: 0.4086645 ppbv
RT: 4.361 min Scan# 208
Delta R.T. 0.018 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 85 Resp: 14229

Ion	Ratio	Lower	Upper
85	100		
87	33.0	25.5	38.3

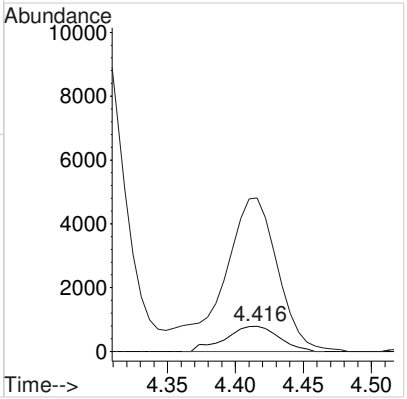


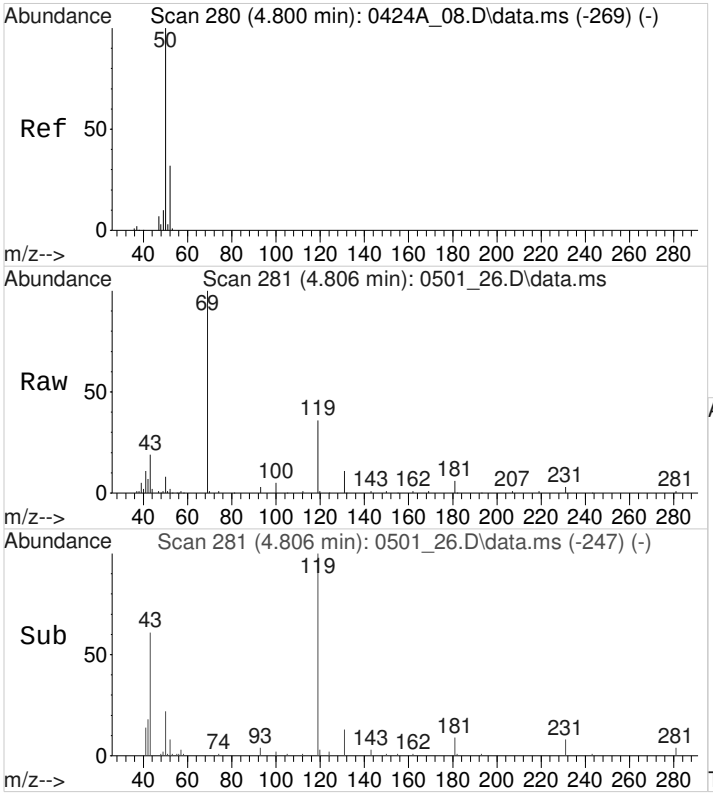


#9
CHLORODIFLUOROMETHANE
Concen: 0.5597005 ppbv
RT: 4.416 min Scan# 217
Delta R.T. 0.019 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 67 Resp: 2173

Ion	Ratio	Lower	Upper
67	100		
51	622.1	587.9	881.9

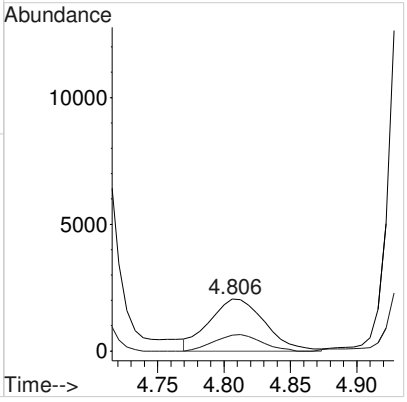


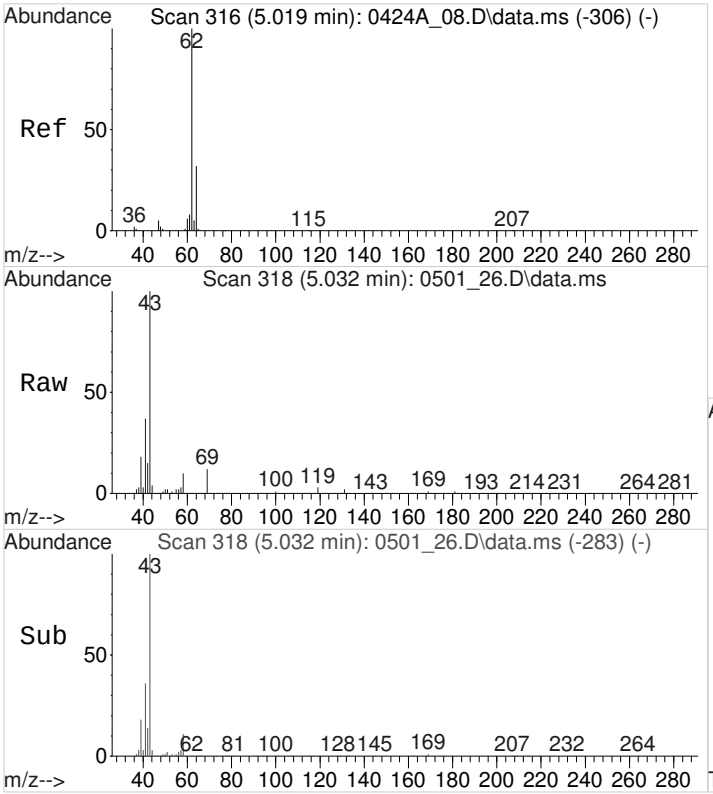


#11
Chloromethane
Concen: 0.3622951 ppbv m
RT: 4.806 min Scan# 281
Delta R.T. 0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 50 Resp: 5975

Ion	Ratio	Lower	Upper
50	100		
52	427.0	25.5	38.3#

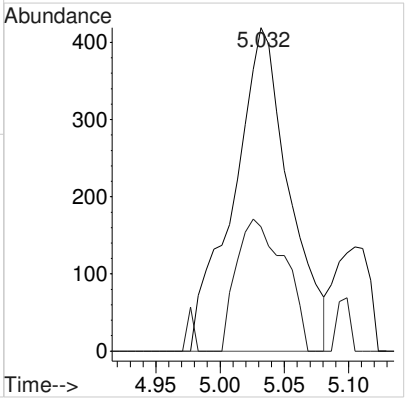


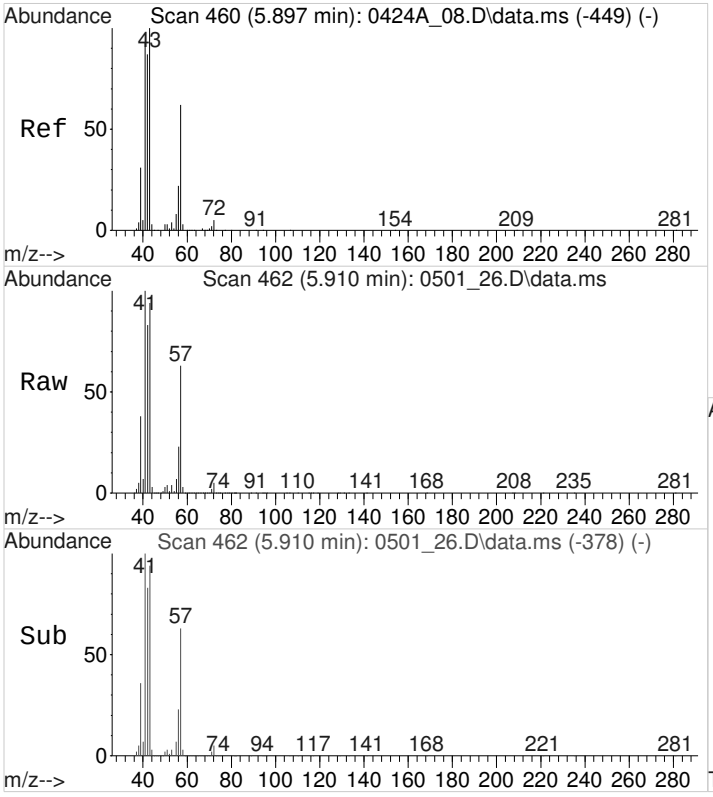


#12
Vinyl Chloride
Concen: 0.0725315 ppbv
RT: 5.032 min Scan# 318
Delta R.T. 0.012 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 62 Resp: 1265

Ion	Ratio	Lower	Upper
62	100		
64	35.5	25.7	38.5

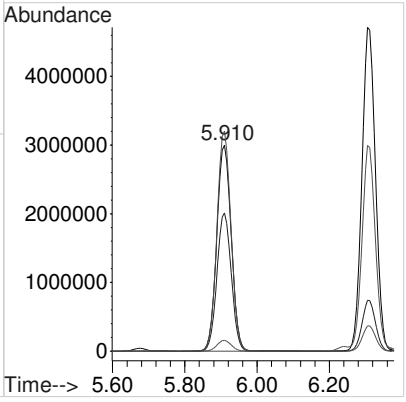


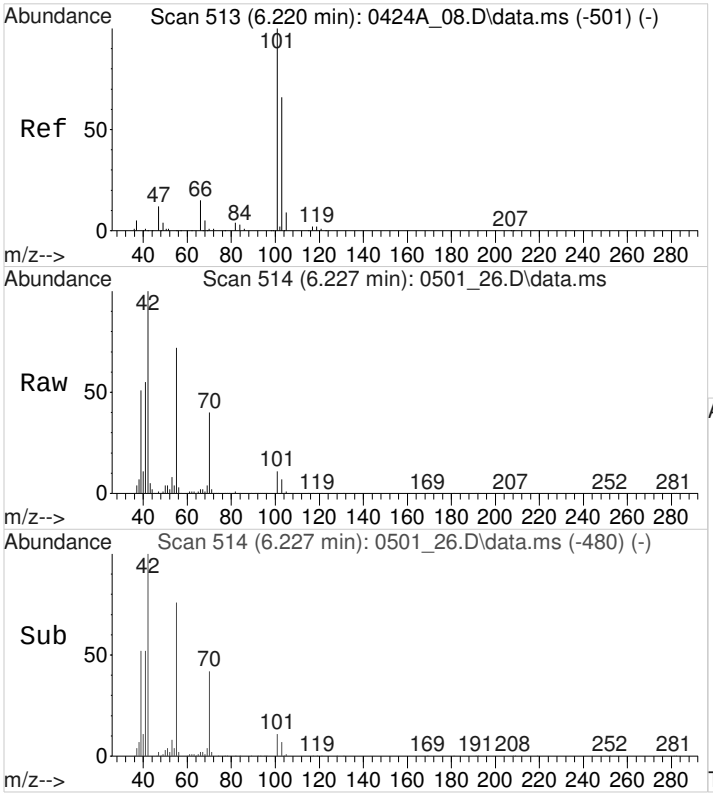


#16
ISOPENTANE
Concen: 387.4102739 ppbv
RT: 5.910 min Scan# 462
Delta R.T. 0.012 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 43 Resp: 8306767

Ion	Ratio	Lower	Upper
43	100		
57	66.6	50.4	75.6
41	104.7	75.9	113.9
72	5.2	3.9	5.9

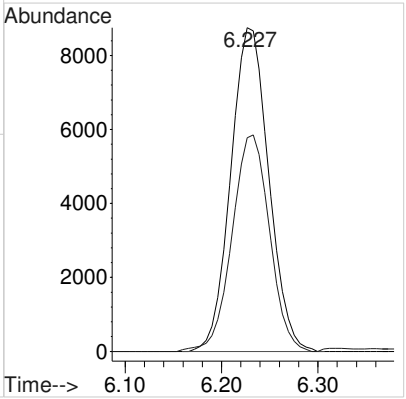


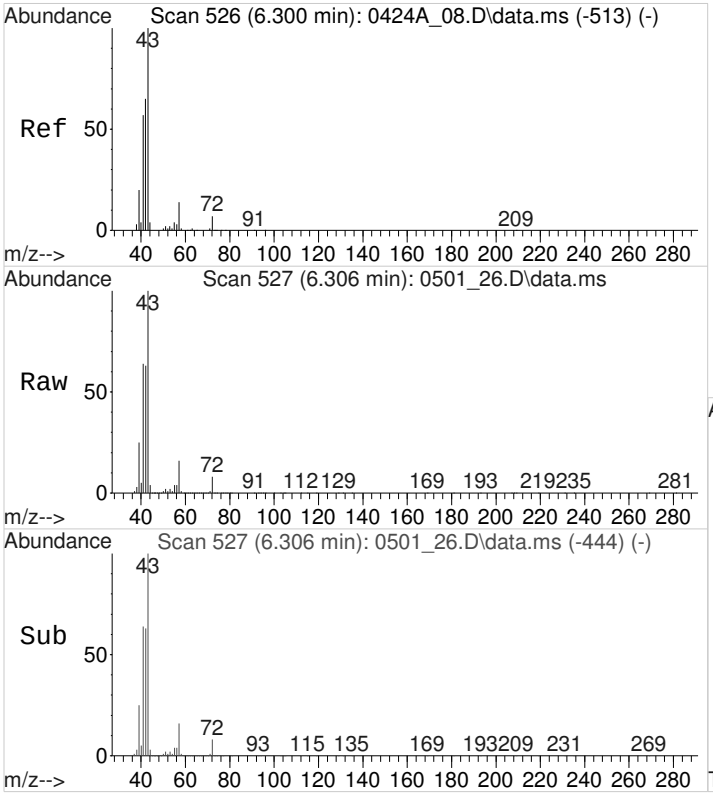


#18
Trichlorofluoromethane
Concen: 0.5953400 ppbv
RT: 6.227 min Scan# 514
Delta R.T. 0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion:101 Resp: 23925

Ion	Ratio	Lower	Upper
101	100		
103	66.0	52.5	78.7

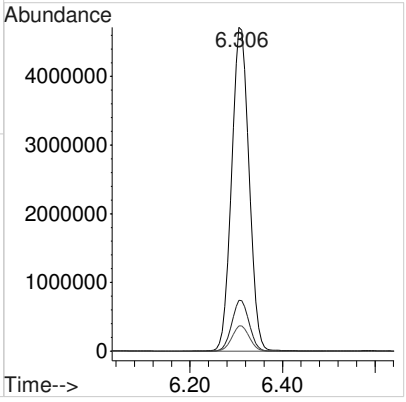


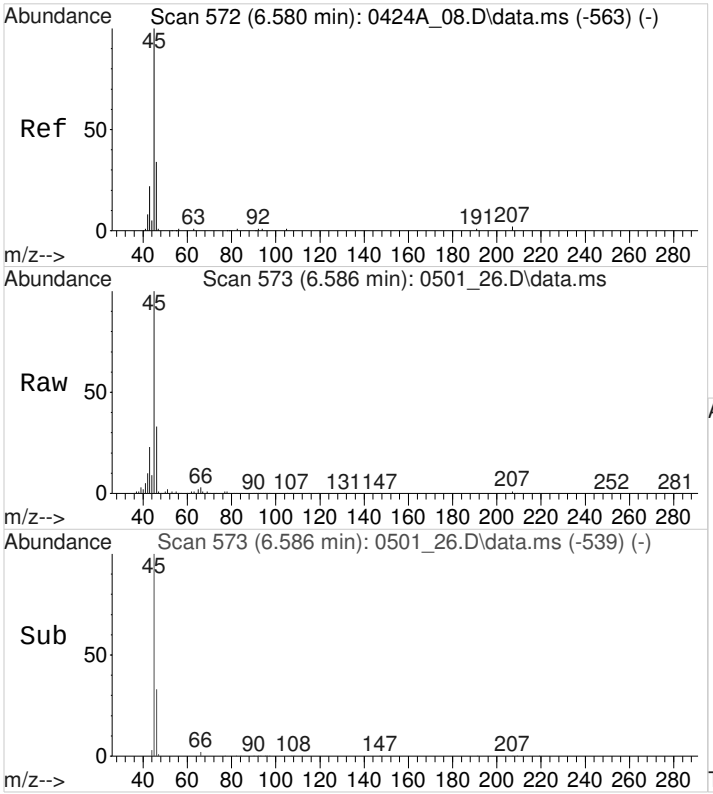


#19
PENTANE
Concen: 390.0741480 ppbv
RT: 6.306 min Scan# 527
Delta R.T. 0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 43 Resp:12305683

Ion	Ratio	Lower	Upper
43	100		
57	15.5	11.6	17.4
72	7.8	5.7	8.5

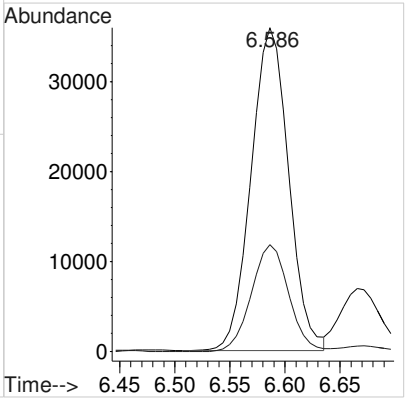


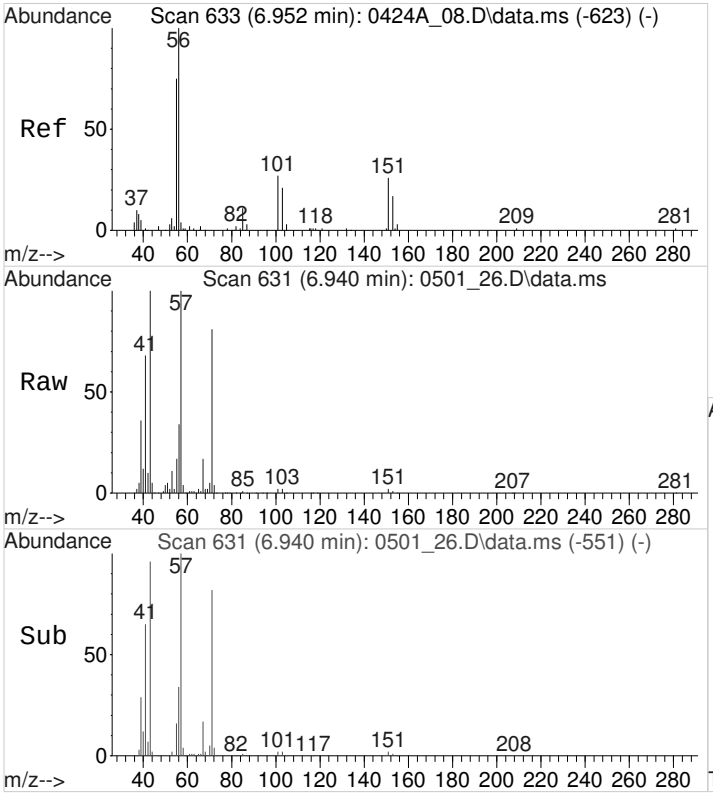


#20
Ethanol
Concen: 10.9378291 ppbv
RT: 6.586 min Scan# 573
Delta R.T. 0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 45 Resp: 84971

Ion	Ratio	Lower	Upper
45	100		
46	32.8	26.7	40.1

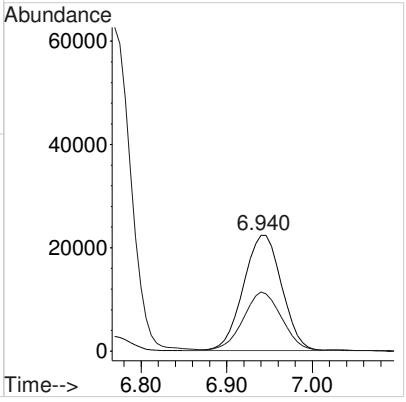


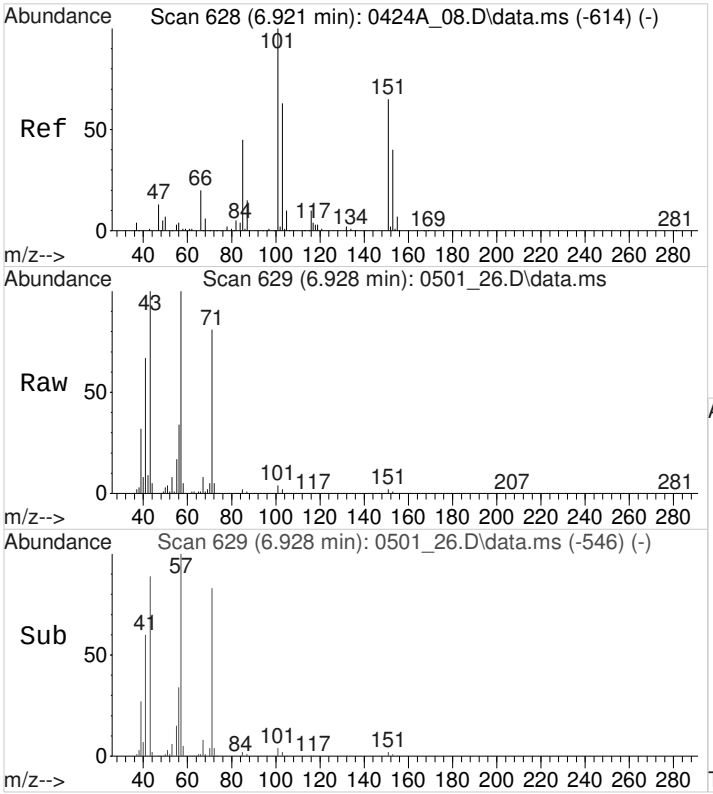


#21
ACROLEIN
Concen: 9.1283870 ppbv
RT: 6.940 min Scan# 631
Delta R.T. -0.011 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 56 Resp: 69570

Ion	Ratio	Lower	Upper
56	100		
55	49.6	60.1	90.1#

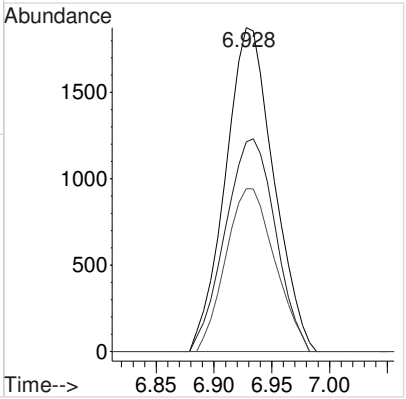


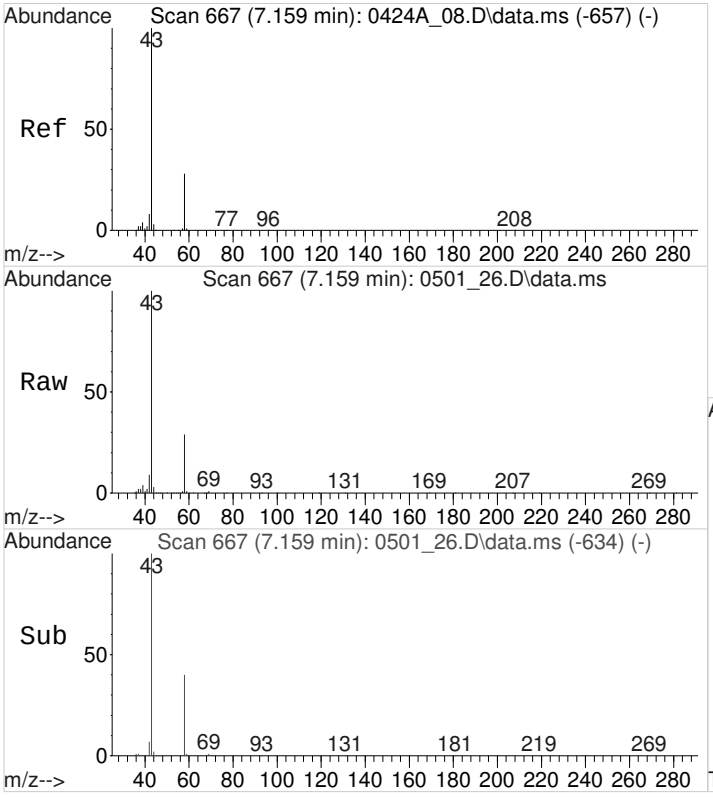


#22
1,1,2-Trichlorotrifluoroethane
Concen: 0.1750943 ppbv
RT: 6.928 min Scan# 629
Delta R.T. 0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion:101 Resp: 5413

Ion	Ratio	Lower	Upper
101	100		
151	68.4	51.9	77.9
85	51.2	37.9	56.9

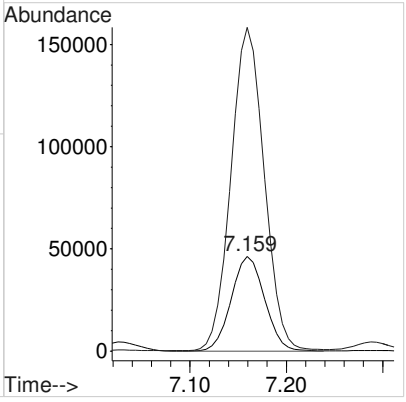


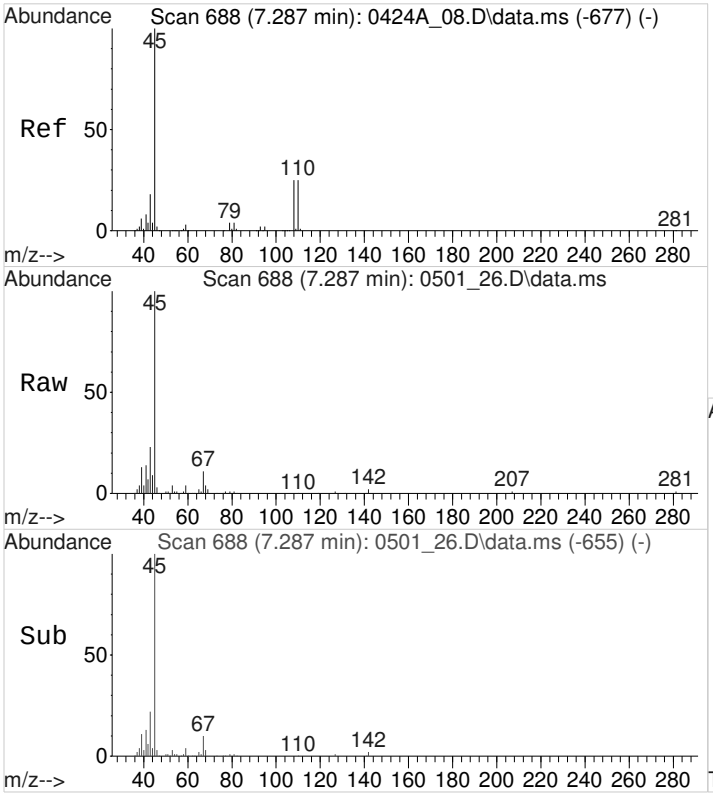


#24
Acetone
Concen: 14.2449897 ppbv
RT: 7.159 min Scan# 667
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 58 Resp: 111326

Ion	Ratio	Lower	Upper
58	100		
43	340.4	290.8	436.2

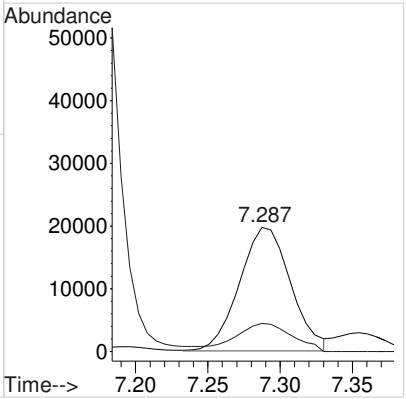


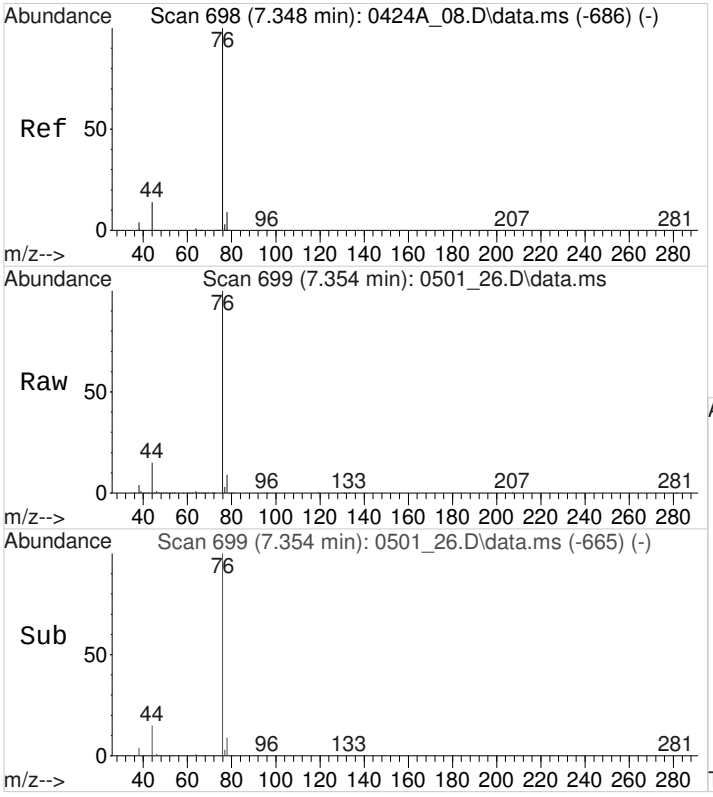


#26
2-Propanol
Concen: 1.4666984 ppbv
RT: 7.287 min Scan# 688
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 45 Resp: 48759

Ion	Ratio	Lower	Upper
45	100		
43	25.4	15.6	23.4#

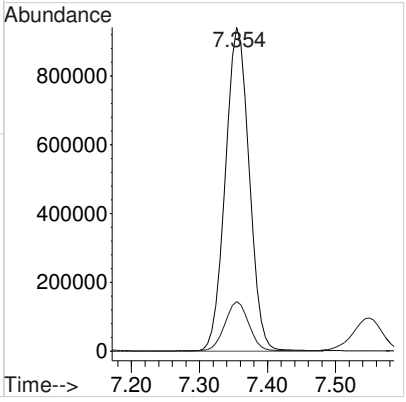


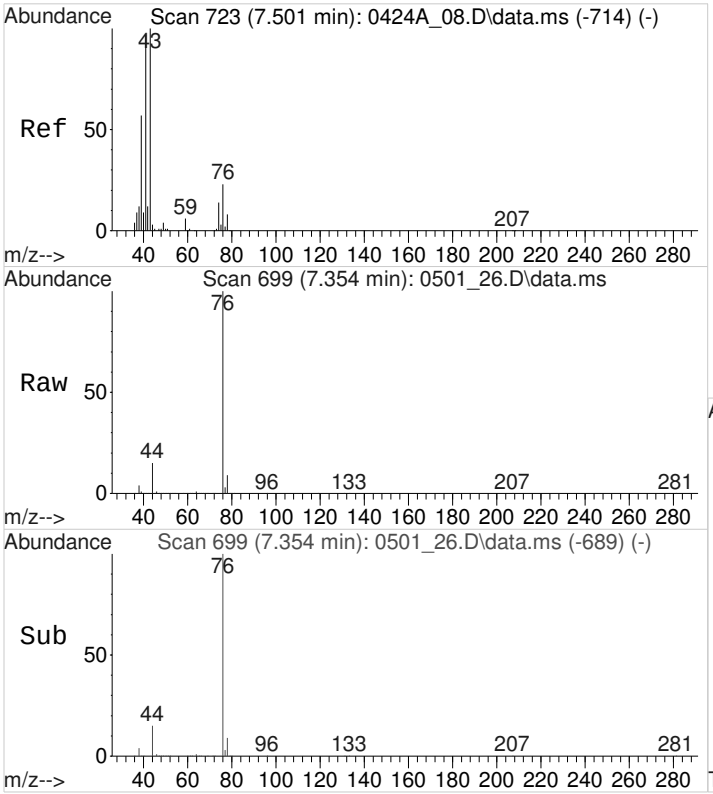


#27
Carbon Disulfide
Concen: 49.2187462 ppbv
RT: 7.354 min Scan# 699
Delta R.T. 0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 76 Resp: 2295657

Ion	Ratio	Lower	Upper
76	100		
44	15.2	13.7	20.5

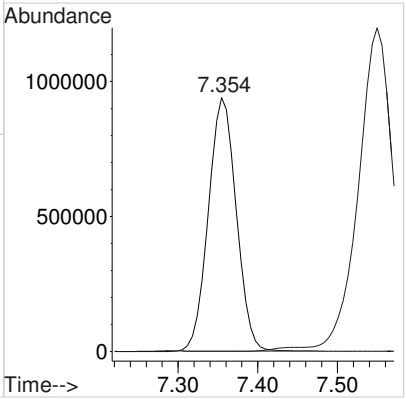


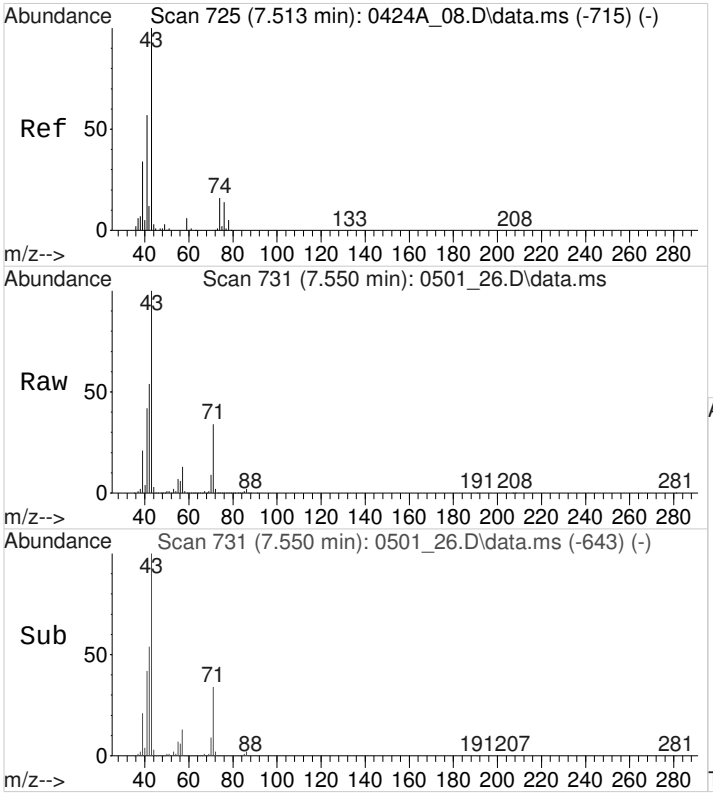


#28
Allyl Chloride
Concen: 359.8895432 ppbv
RT: 7.354 min Scan# 699
Delta R.T. -0.146 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 76 Resp: 2279540

Ion	Ratio	Lower	Upper
76	100		
41	0.0	319.5	479.3#

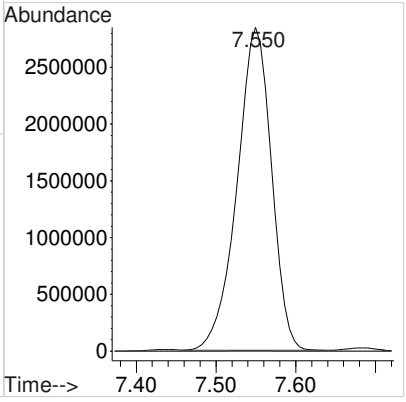


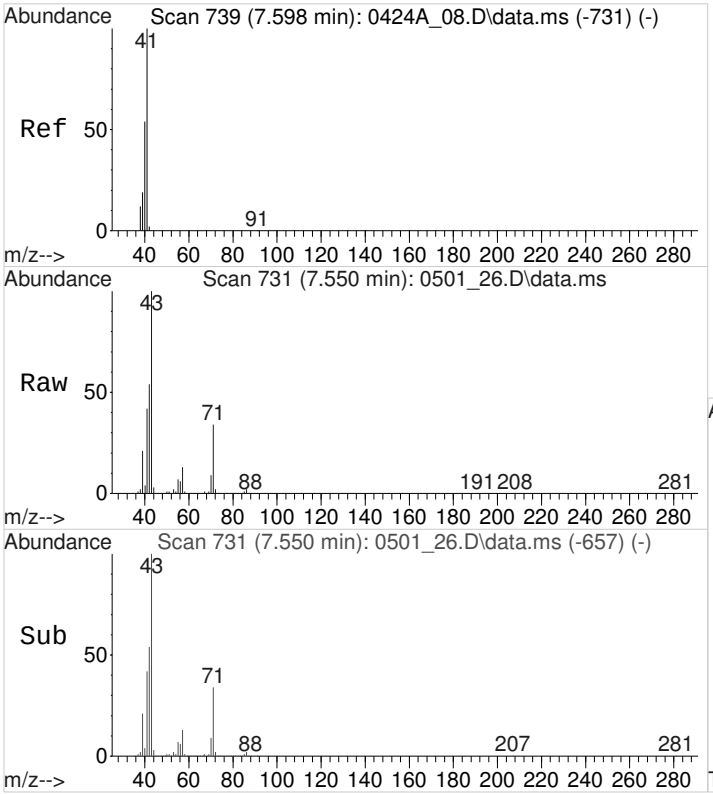


#29
METHYL ACETATE
Concen: 227.0991515 ppbv
RT: 7.550 min Scan# 731
Delta R.T. 0.037 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 43 Resp: 8518781

Ion	Ratio	Lower	Upper
43	100		
74	0.0	12.3	18.5#
29	0.0	0.0	0.0

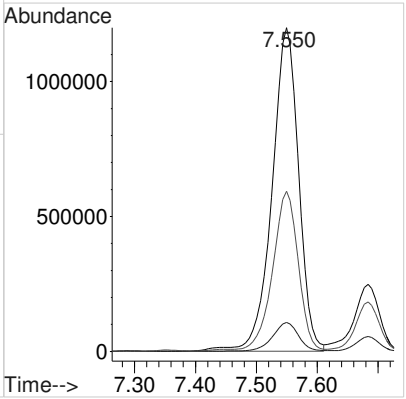


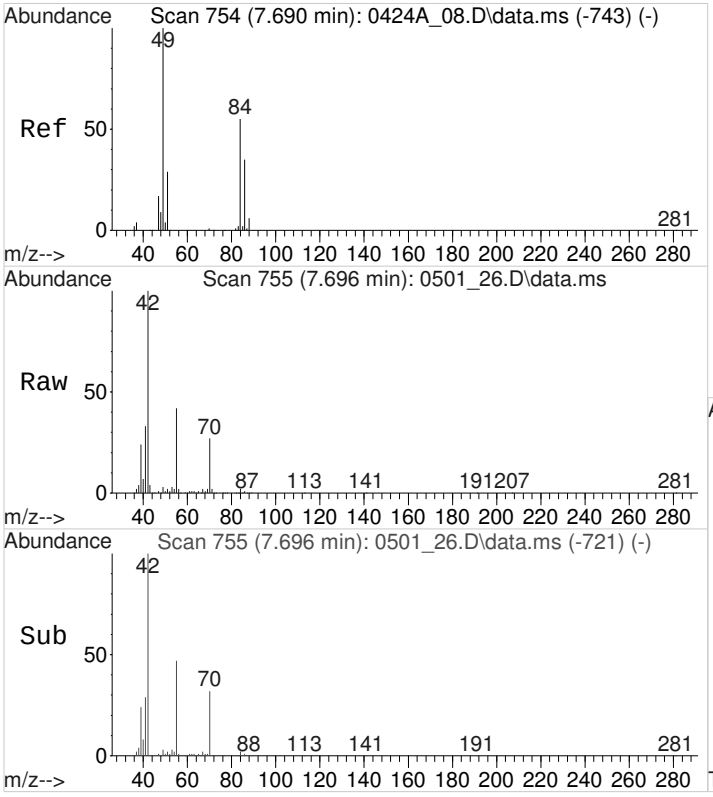


#30
ACETONITRILE
Concen: 195.9185827 ppbv
RT: 7.550 min Scan# 731
Delta R.T. -0.048 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 41 Resp: 3644339

Ion	Ratio	Lower	Upper
41	100		
40	8.8	43.4	65.2#
39	48.1	15.9	23.9#

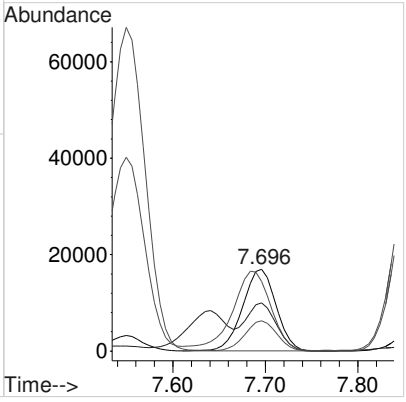


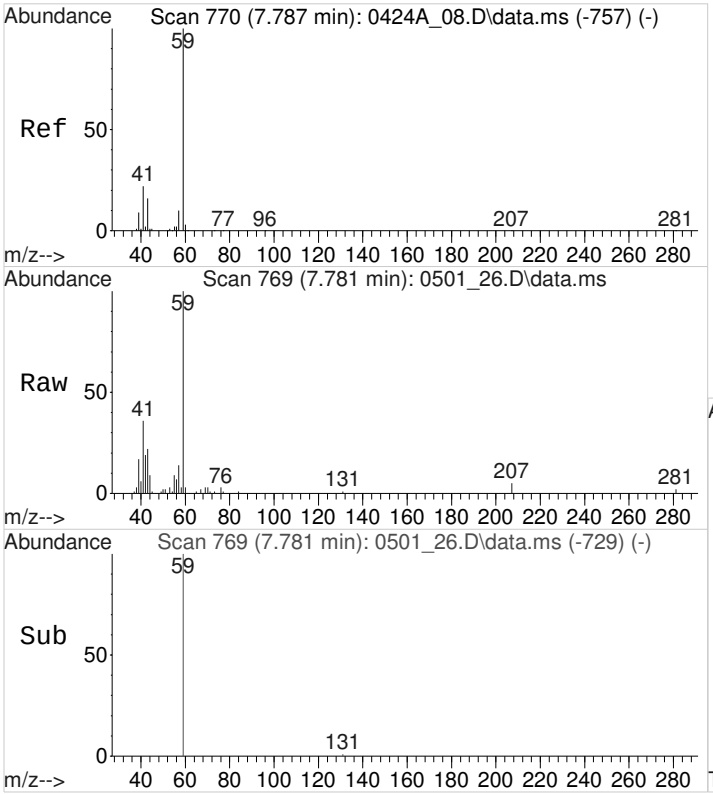


#31
Methylene Chloride
Concen: 1.8120750 ppbv
RT: 7.696 min Scan# 755
Delta R.T. 0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 49 Resp: 42377

Ion	Ratio	Lower	Upper
49	100		
84	56.0	44.9	67.3
86	35.7	28.4	42.6
51	111.6	23.9	35.9#

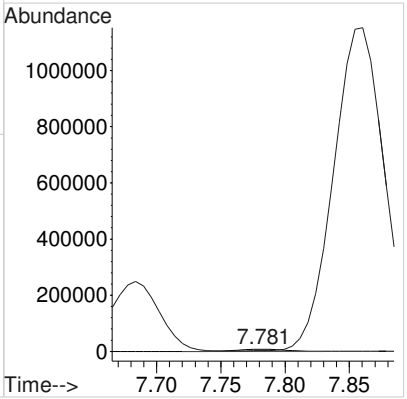


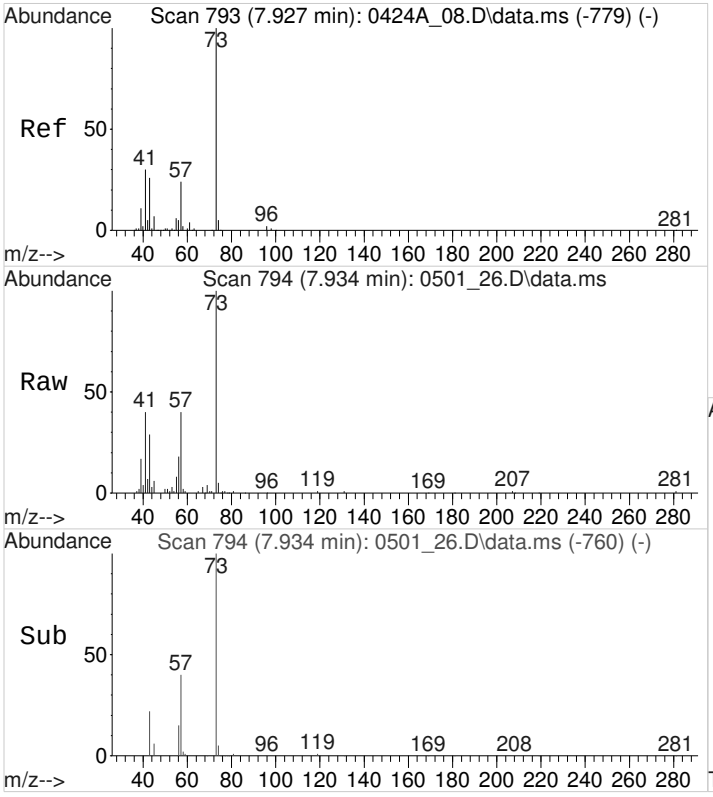


#32
TERT-BUTYL ALCOHOL
Concen: 0.6157371 ppbv
RT: 7.781 min Scan# 769
Delta R.T. -0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 59 Resp: 20489

Ion	Ratio	Lower	Upper
59	100		
41	3542.8	18.7	28.1#

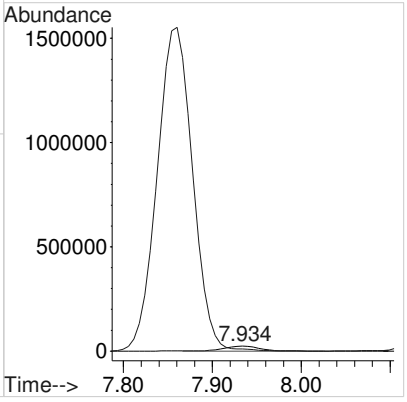


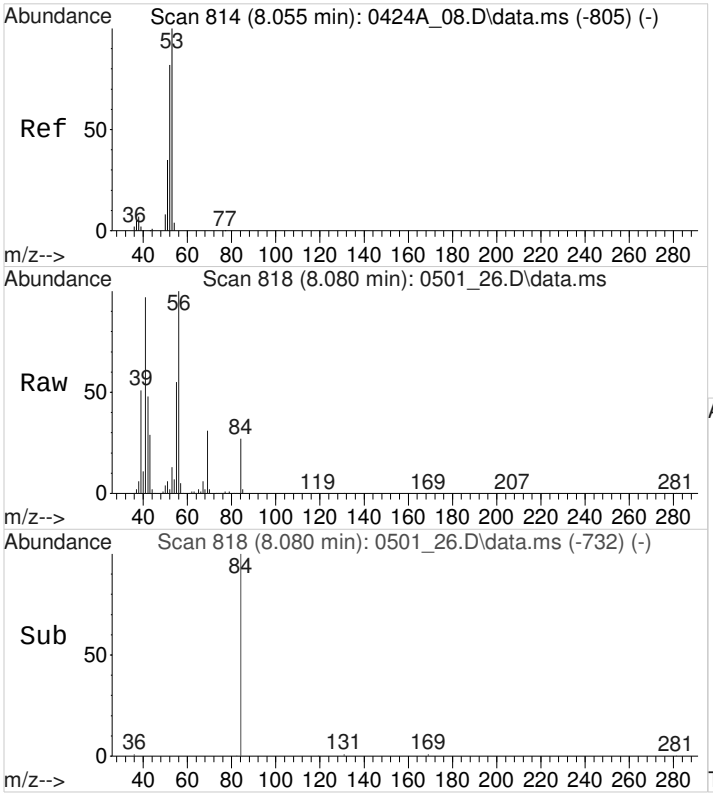


#33
Methyl Tert-Butyl Ether
Concen: 1.7926803 ppbv
RT: 7.934 min Scan# 794
Delta R.T. 0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 73 Resp: 65857

Ion	Ratio	Lower	Upper
73	100		
57	6558.3	20.6	30.8#

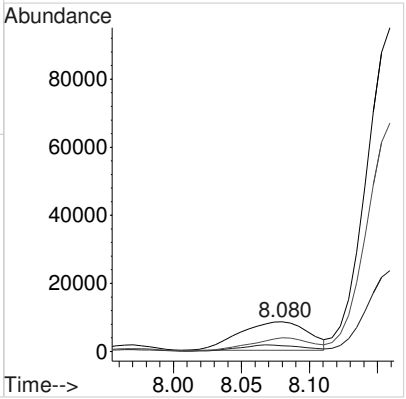


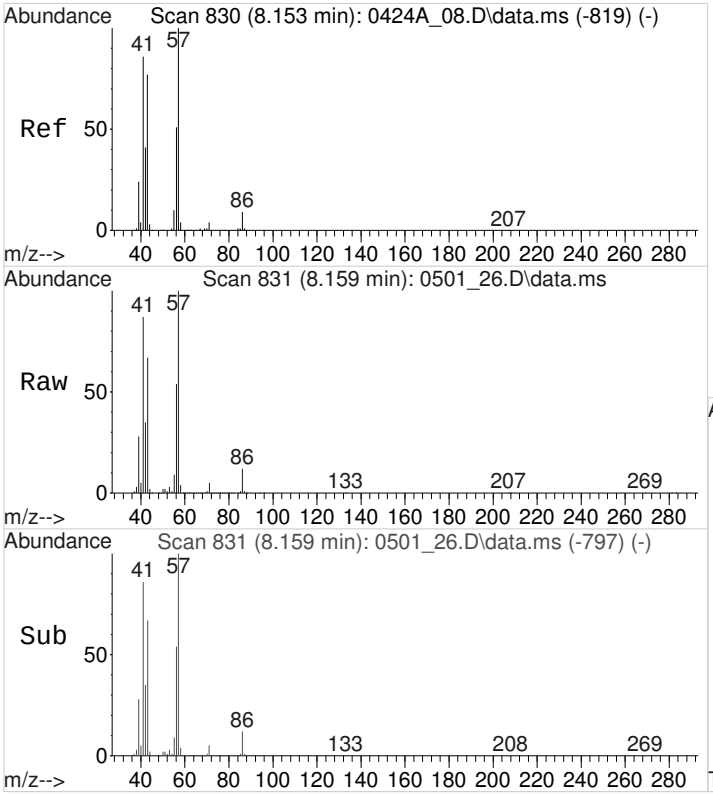


#35
ACRYLONITRILE
Concen: 2.0743613 ppbv
RT: 8.080 min Scan# 818
Delta R.T. 0.025 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 53 Resp: 29522

Ion	Ratio	Lower	Upper
53	100		
52	20.2	66.6	100.0#
51	39.8	29.1	43.7

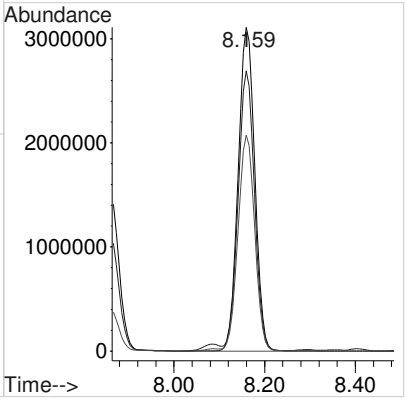


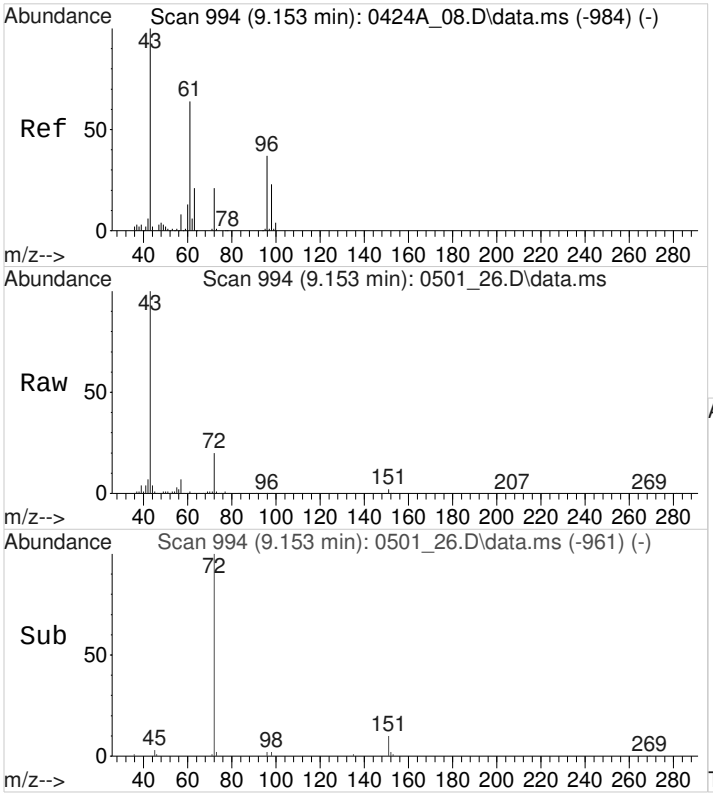


#36
n-Hexane
Concen: 348.4059614 ppbv
RT: 8.159 min Scan# 831
Delta R.T. 0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 57 Resp: 7896698

Ion	Ratio	Lower	Upper
57	100		
41	85.1	70.0	105.0
43	67.1	61.0	91.6

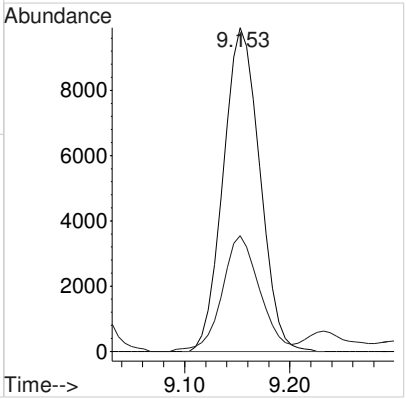


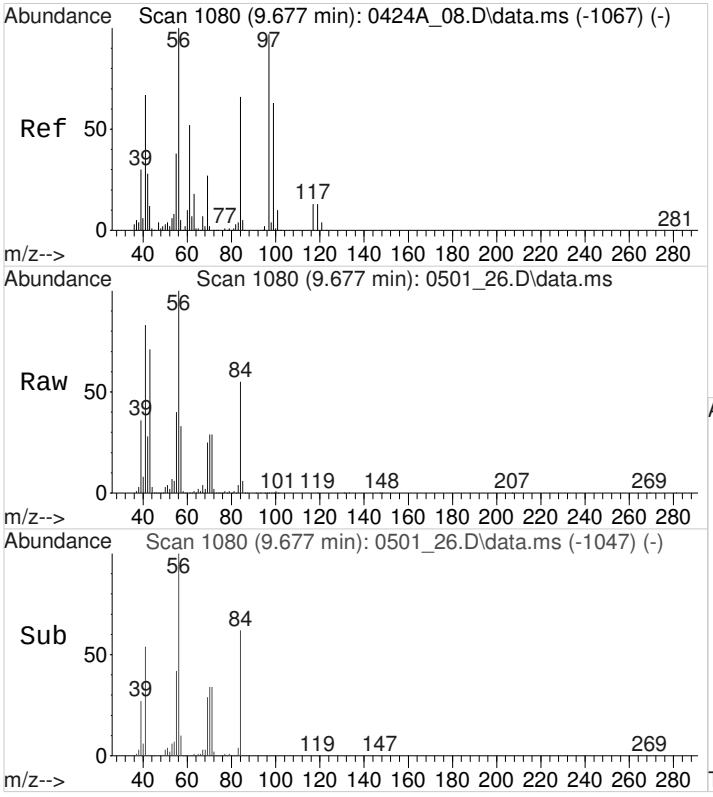


#42
2-Butanone (MEK)
Concen: 3.4093228 ppbv
RT: 9.153 min Scan# 994
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 72 Resp: 23838

Ion	Ratio	Lower	Upper
72	100		
57	36.7	29.2	43.8

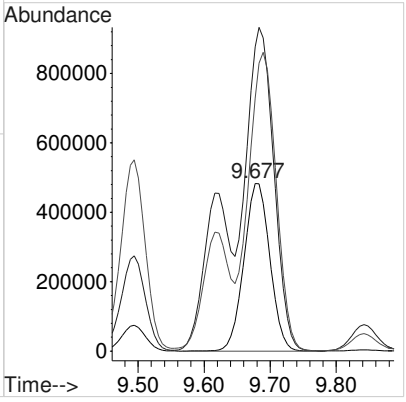


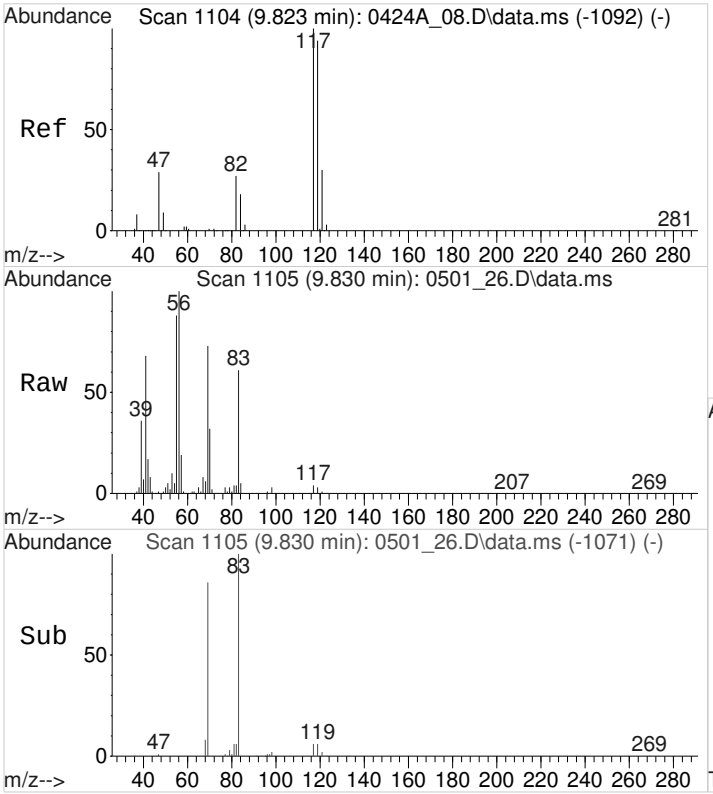


#46
Cyclohexane
Concen: 84.2974918 ppbv
RT: 9.677 min Scan# 1080
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 84 Resp: 1315268

Ion	Ratio	Lower	Upper
84	100		
56	204.7	121.2	181.8#
41	189.0	82.6	123.8#

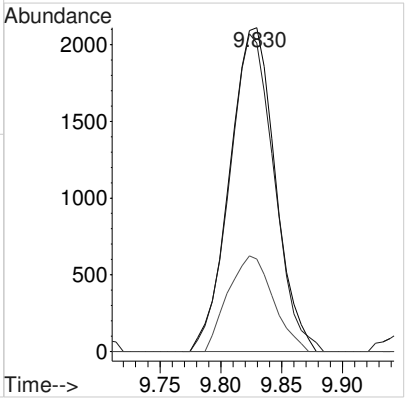


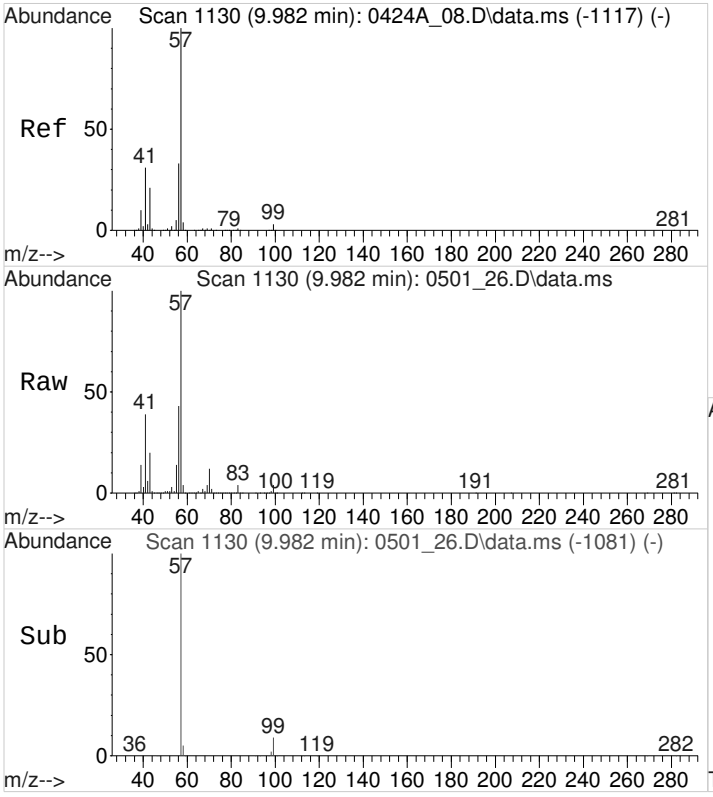


#48
Carbon Tetrachloride
Concen: 0.1800121 ppbv
RT: 9.830 min Scan# 1105
Delta R.T. 0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion:117 Resp: 5473

Ion	Ratio	Lower	Upper
117	100		
119	96.3	76.7	115.1
121	29.4	24.0	36.0

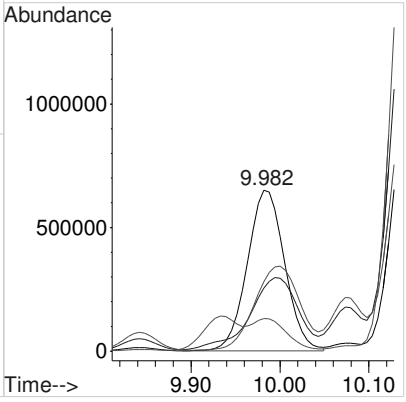


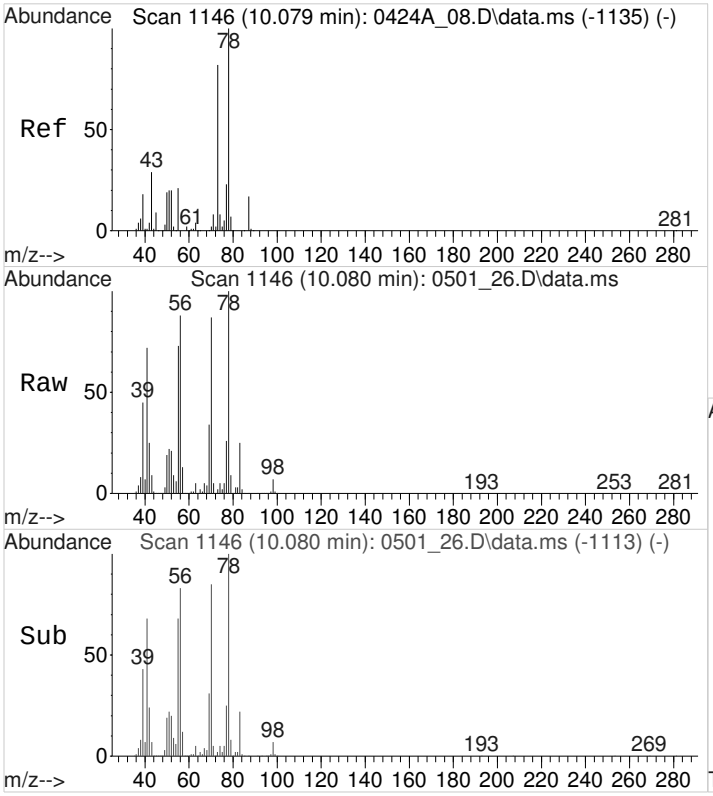


#49
2,2,4-Trimethylpentane
Concen: 26.3530716 ppbv
RT: 9.982 min Scan# 1130
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 57 Resp: 1913030

Ion	Ratio	Lower	Upper
57	100		
41	59.3	25.6	38.4#
43	19.6	17.0	25.6
56	64.0	26.2	39.2#

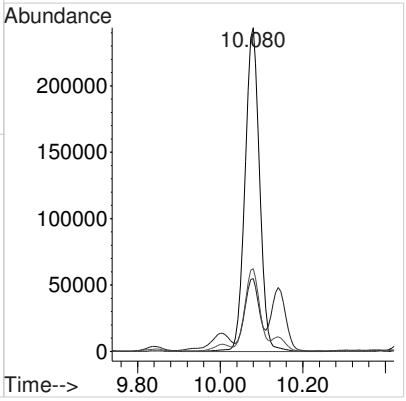


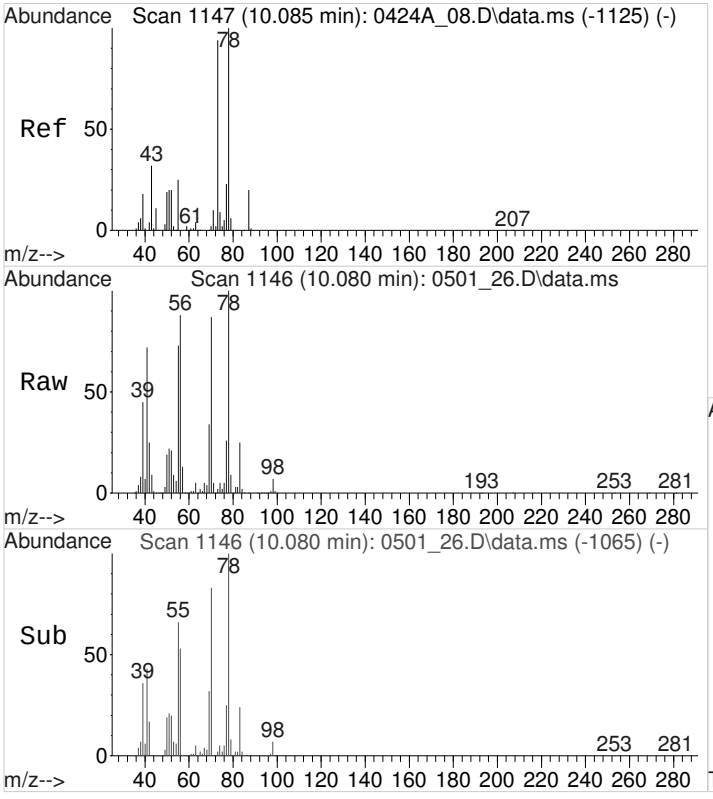


#51
Benzene
Concen: 12.5648711 ppbv
RT: 10.080 min Scan# 1146
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 78 Resp: 600045

Ion	Ratio	Lower	Upper
78	100		
51	22.9	16.6	24.8
77	26.3	18.4	27.6

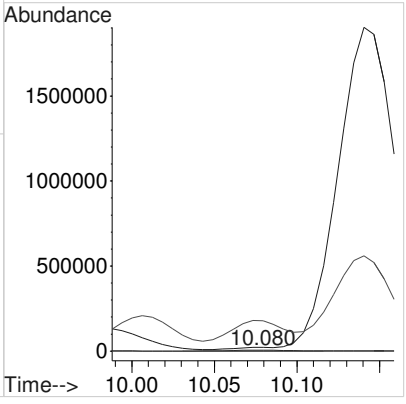


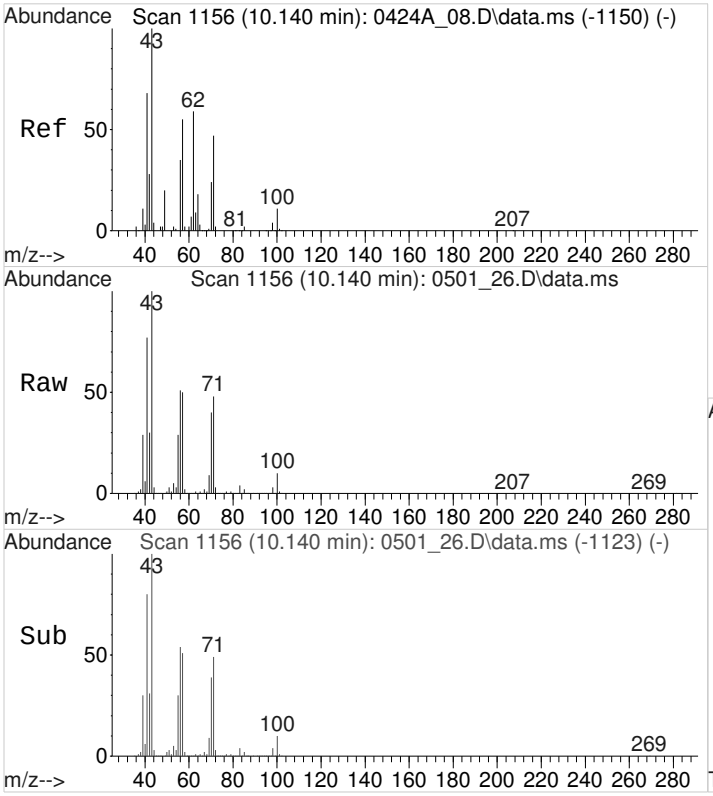


#52
TERT-AMYL METHYL ETHER
Concen: 0.3263364 ppbv
RT: 10.080 min Scan# 1146
Delta R.T. -0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 73 Resp: 13044

Ion	Ratio	Lower	Upper
73	100		
43	0.0	33.9	50.9#
55	2889.0	23.4	35.0#
87	4.7	16.7	25.1#

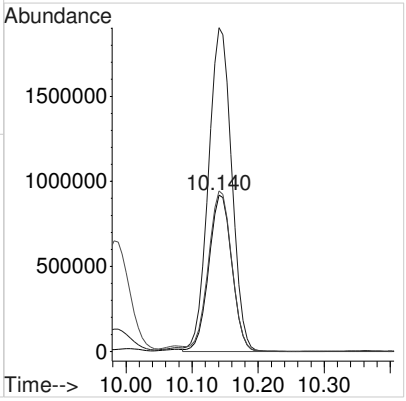


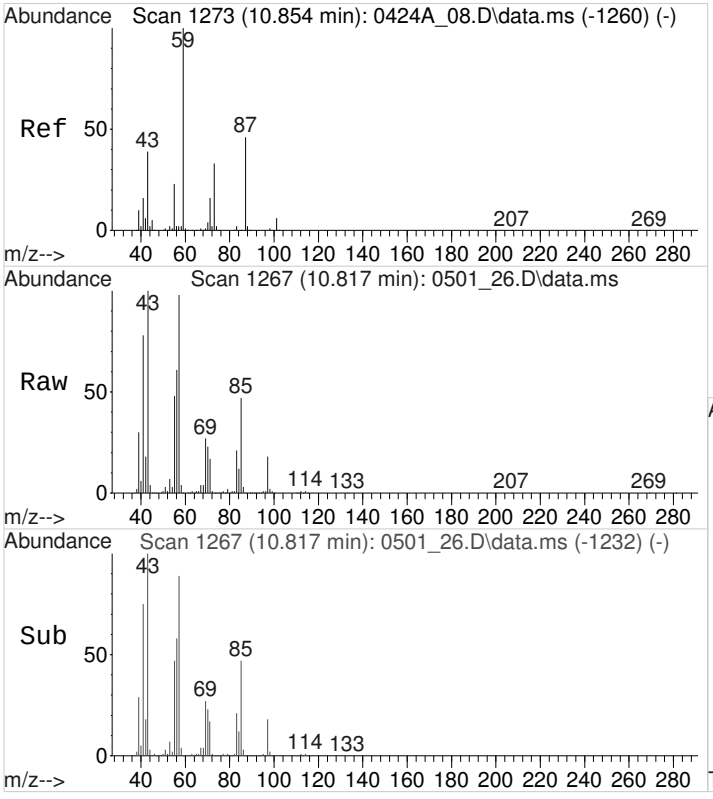


#54
Heptane
Concen: 153.3967836 ppbv
RT: 10.140 min Scan# 1156
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 71 Resp: 2235642

Ion	Ratio	Lower	Upper
71	100		
43	210.3	197.5	296.3
57	104.0	90.6	135.8

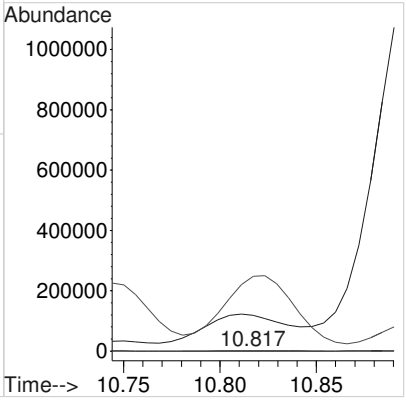


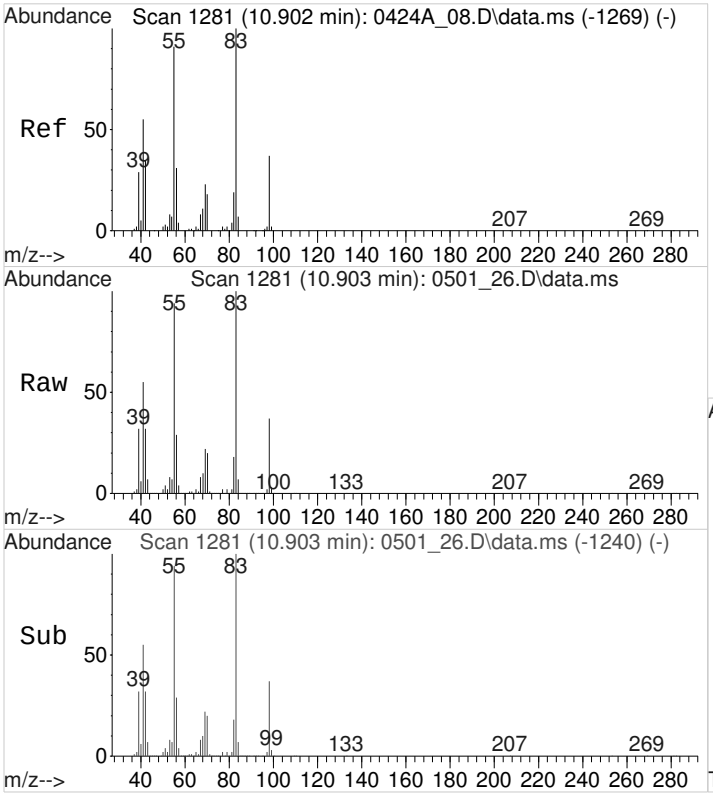


#56
TERT-AMYL ETHYL ETHER
Concen: 0.0519939 ppbv
RT: 10.817 min Scan# 1267
Delta R.T. -0.036 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 73 Resp: 634

Ion	Ratio	Lower	Upper
73	100		
55	59706.8	204.9	307.3#
87	119.4	108.6	163.0
43	99116.2	104.6	156.8#

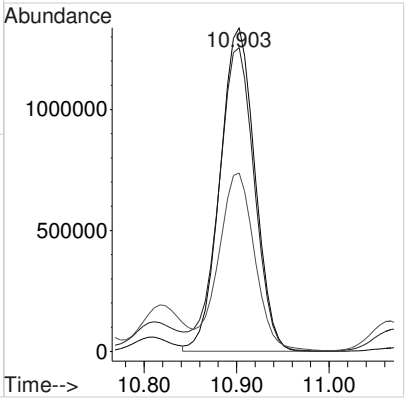


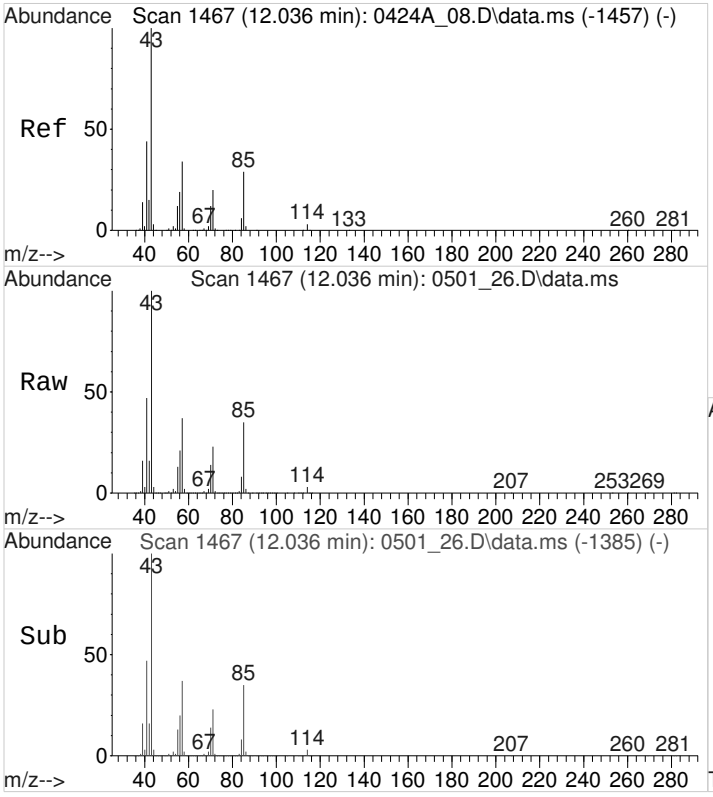


#57
METHYL CYCLOHEXANE
Concen: 151.1574285 ppbv
RT: 10.903 min Scan# 1281
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 83 Resp: 3500185

Ion	Ratio	Lower	Upper
83	100		
55	96.6	108.7	163.1#
41	56.7	69.4	104.2#

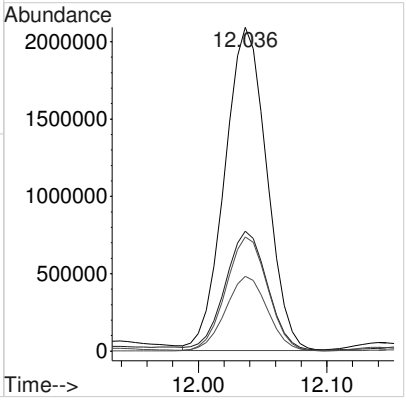


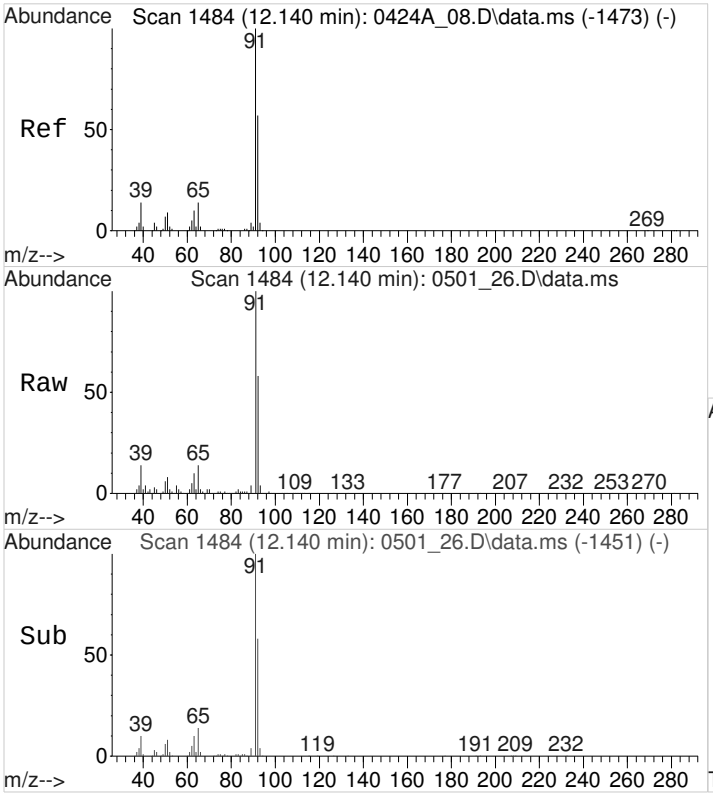


#64
n-OCTANE
Concen: 109.5894790 ppbv
RT: 12.036 min Scan# 1467
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 43 Resp: 4766993

Ion	Ratio	Lower	Upper
43	100		
57	37.3	27.2	40.8
85	34.8	22.6	33.8#
71	22.9	16.0	24.0

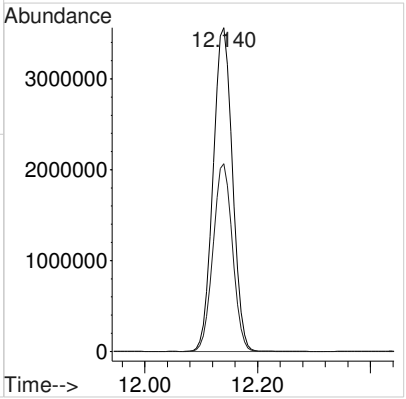


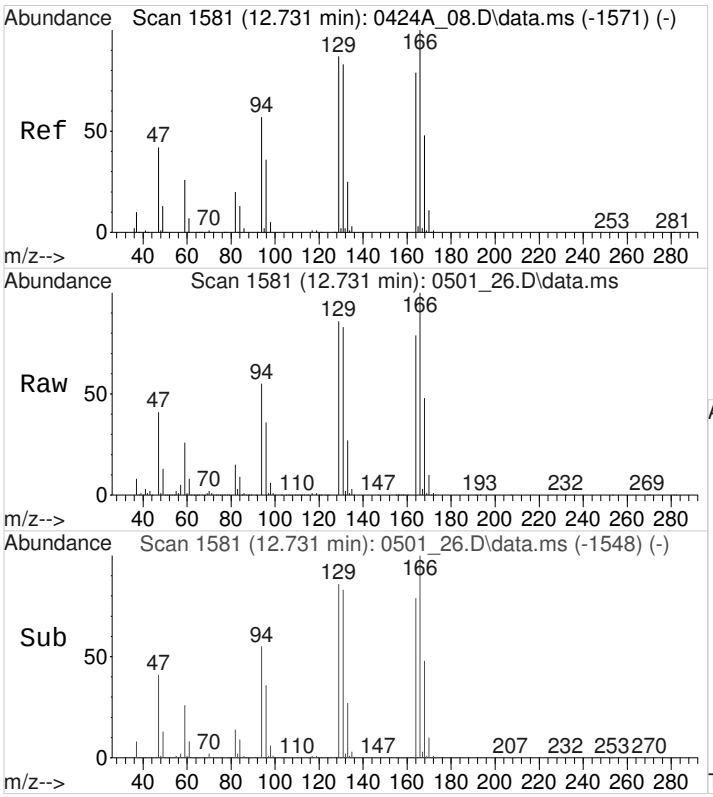


#65
Toluene
Concen: 165.9601383 ppbv
RT: 12.140 min Scan# 1484
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 91 Resp: 8485370

Ion	Ratio	Lower	Upper
91	100		
92	58.0	45.8	68.6

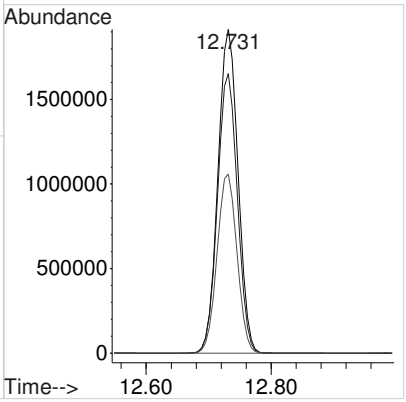


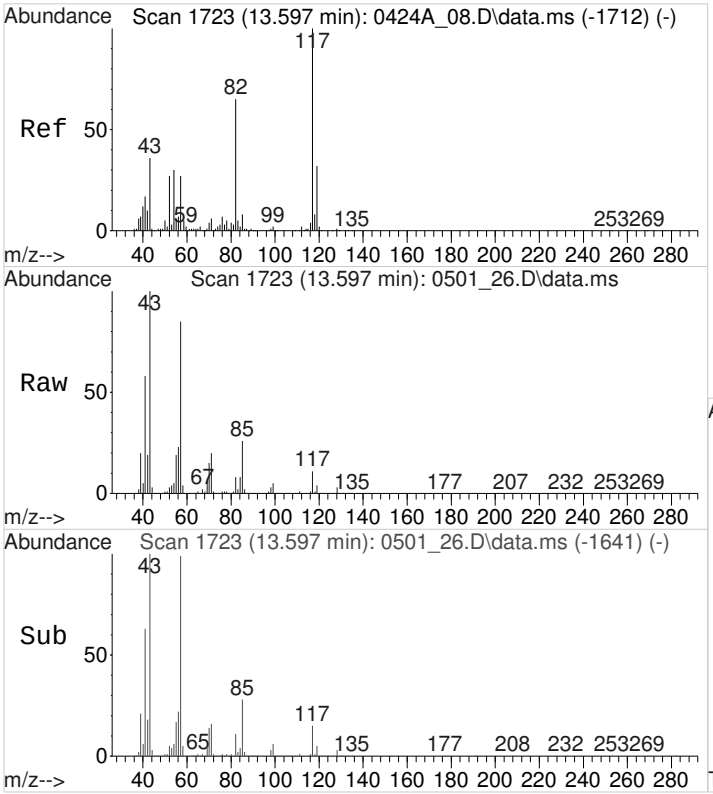


#68
Tetrachloroethene
Concen: 228.1926268 ppbv
RT: 12.731 min Scan# 1581
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion:166 Resp: 4251360

Ion	Ratio	Lower	Upper
166	100		
129	85.8	69.4	104.0
94	55.1	46.2	69.4

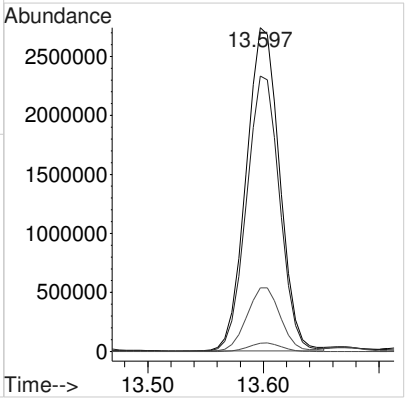


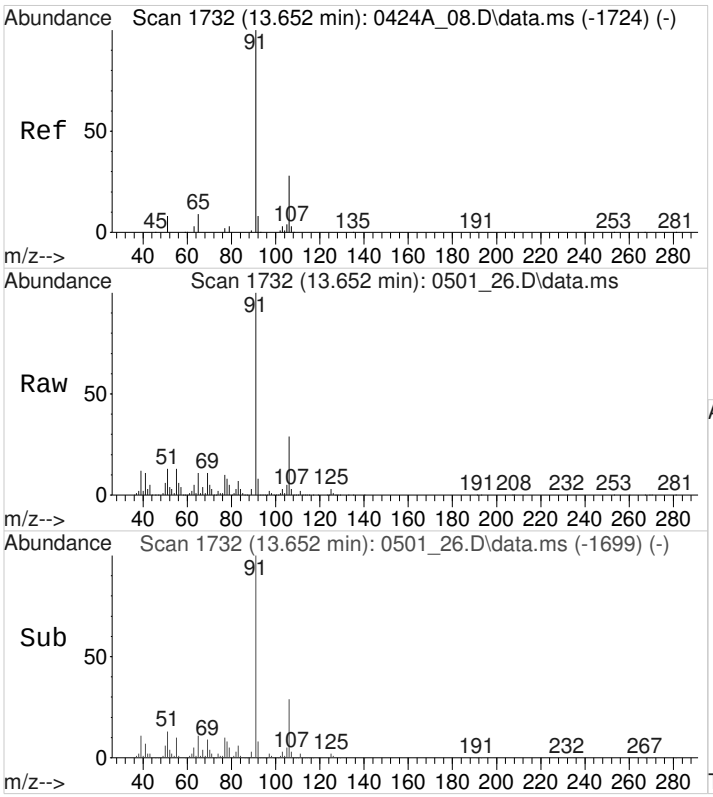


#73
NONANE
Concen: 134.9917189 ppbv
RT: 13.597 min Scan# 1723
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 43 Resp: 5483799

Ion	Ratio	Lower	Upper
43	100		
57	84.1	60.8	91.2
71	19.7	13.4	20.2
128	2.6	1.5	2.3#

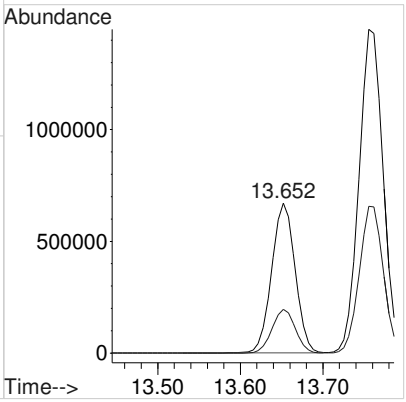


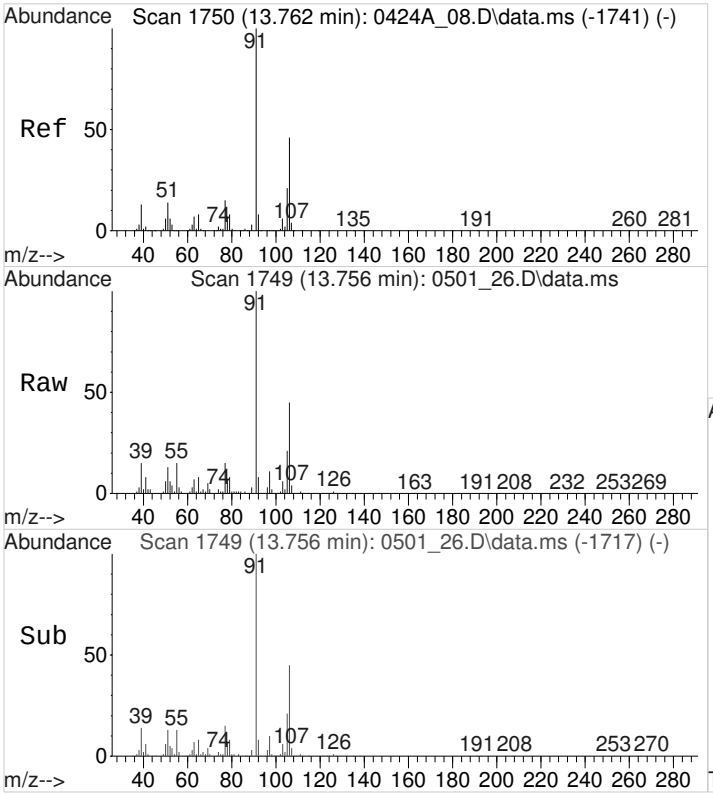


#75
Ethylbenzene
Concen: 21.7248218 ppbv
RT: 13.652 min Scan# 1732
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 91 Resp: 1325256

Ion	Ratio	Lower	Upper
91	100		
106	28.9	22.8	34.2

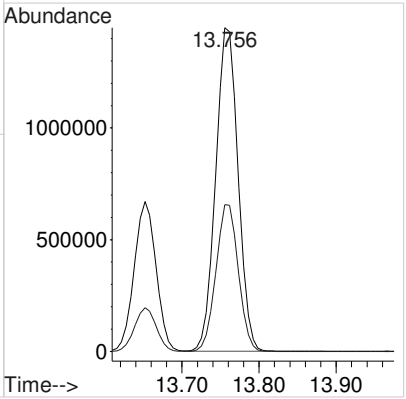


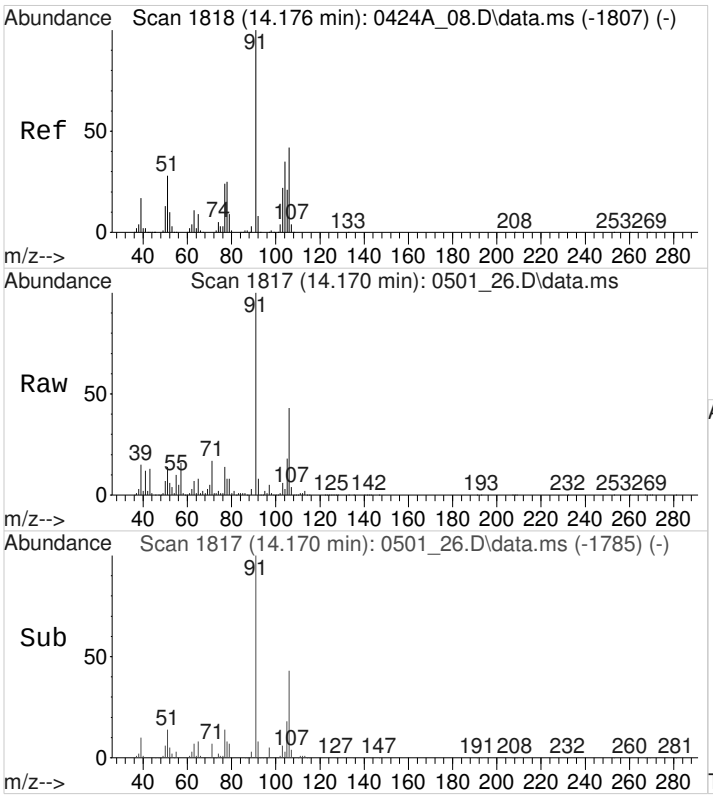


#76
M&P-Xylene
Concen: 63.7780841 ppbv
RT: 13.756 min Scan# 1749
Delta R.T. -0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 91 Resp: 2921617

Ion	Ratio	Lower	Upper
91	100		
106	45.4	36.5	54.7

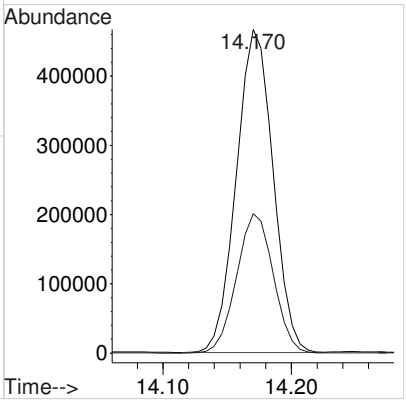


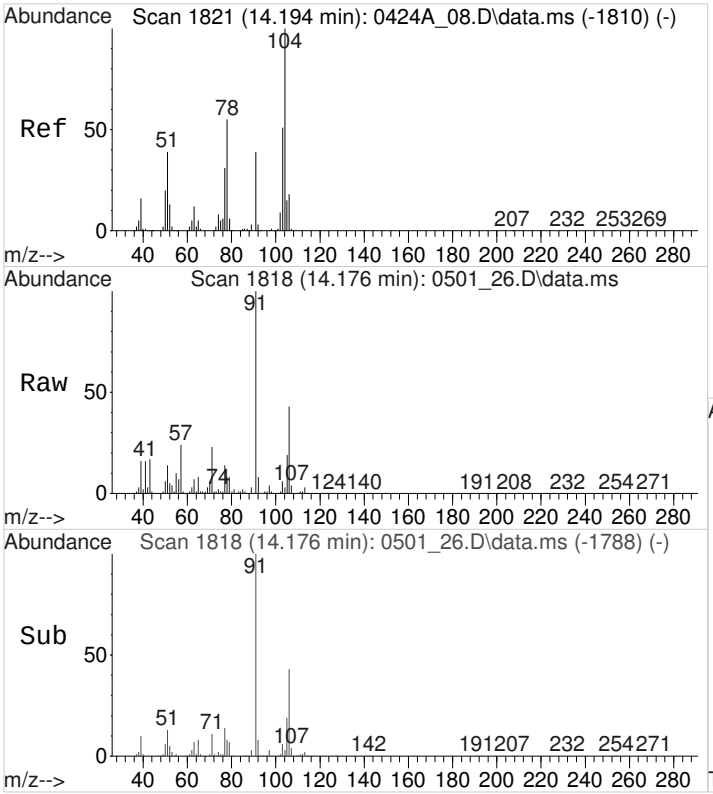


#77
O-Xylene
Concen: 21.1925525 ppbv
RT: 14.170 min Scan# 1817
Delta R.T. -0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 91 Resp: 924429

Ion	Ratio	Lower	Upper
91	100		
106	43.2	34.0	51.0

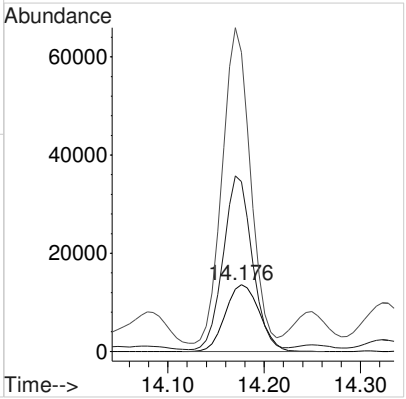


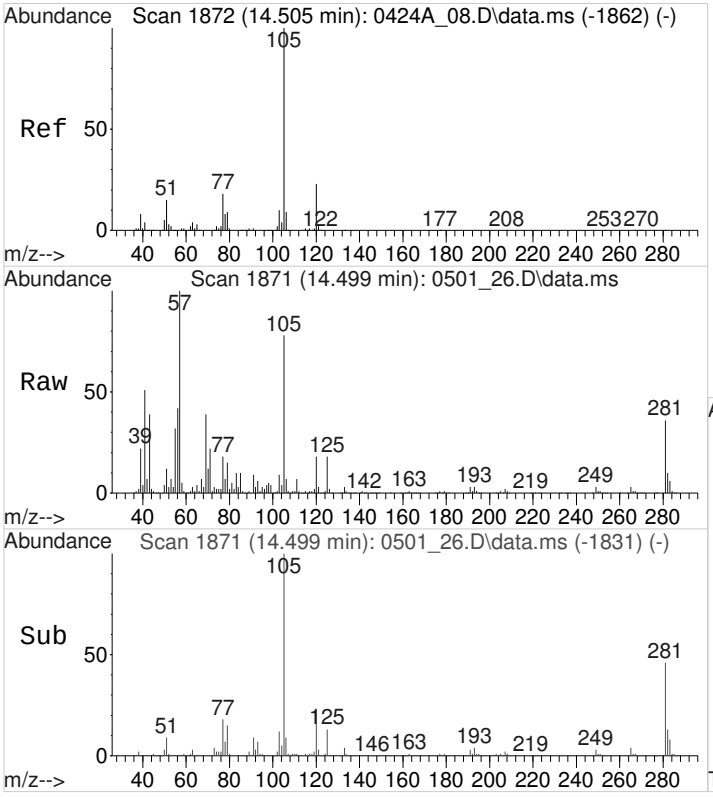


#80
Styrene
Concen: 1.0743086 ppbv
RT: 14.176 min Scan# 1818
Delta R.T. -0.018 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion:104 Resp: 33759

Ion	Ratio	Lower	Upper
104	100		
78	217.3	48.6	73.0#
51	381.8	45.0	67.4#

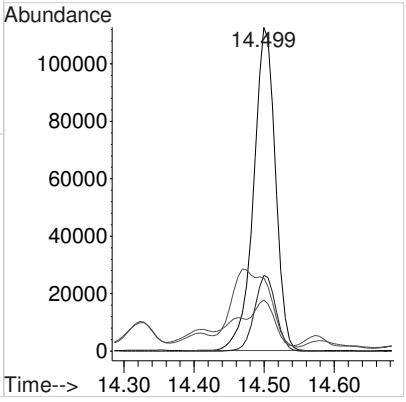


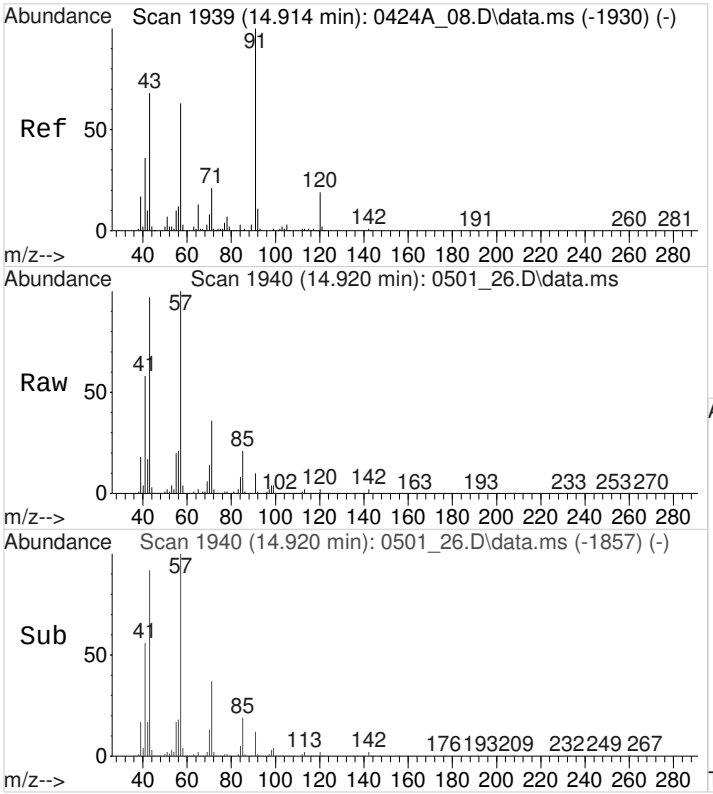


#82
Isopropylbenzene
Concen: 4.3348297 ppbv
RT: 14.499 min Scan# 1871
Delta R.T. -0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion:105 Resp: 242843

Ion	Ratio	Lower	Upper
105	100		
120	22.9	18.9	28.3
77	0.0	15.0	22.4#
51	13.9	11.6	17.4

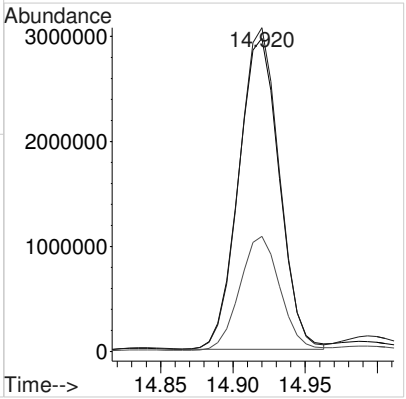


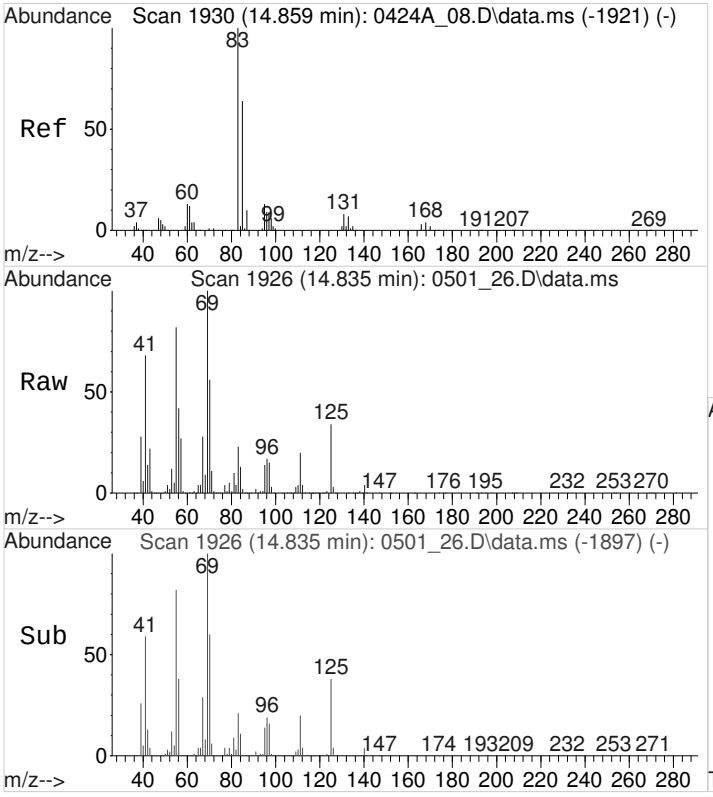


#83
n-DECANE
Concen: 132.0781675 ppbv
RT: 14.920 min Scan# 1940
Delta R.T. 0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 43 Resp: 5811962

Ion	Ratio	Lower	Upper
43	100		
57	101.2	73.8	110.8
71	36.1	24.4	36.6

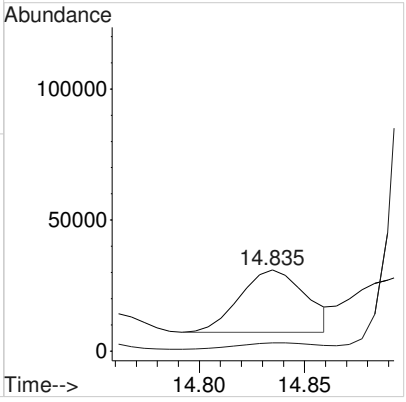


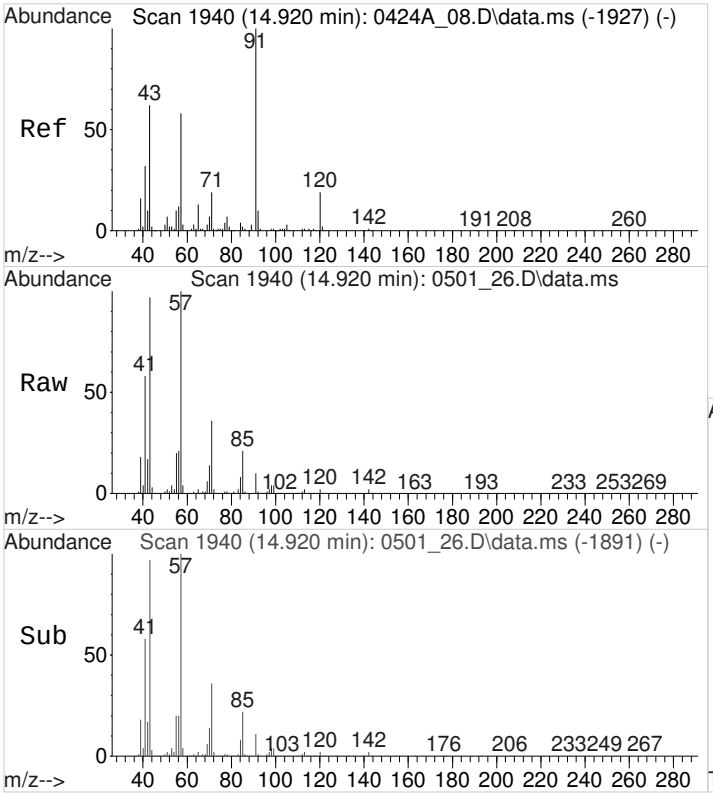


#84
1,1,2,2-Tetrachloroethane
Concen: 1.2416355 ppbv
RT: 14.835 min Scan# 1926
Delta R.T. -0.024 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 83 Resp: 52201

Ion	Ratio	Lower	Upper
83	100		
85	0.0	50.2	75.4#

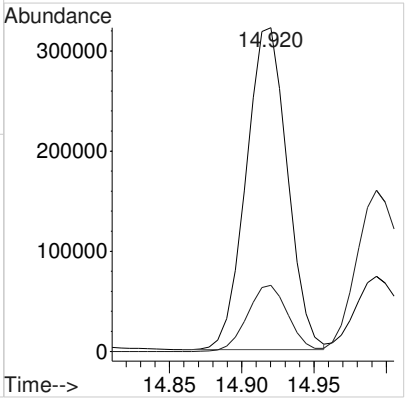


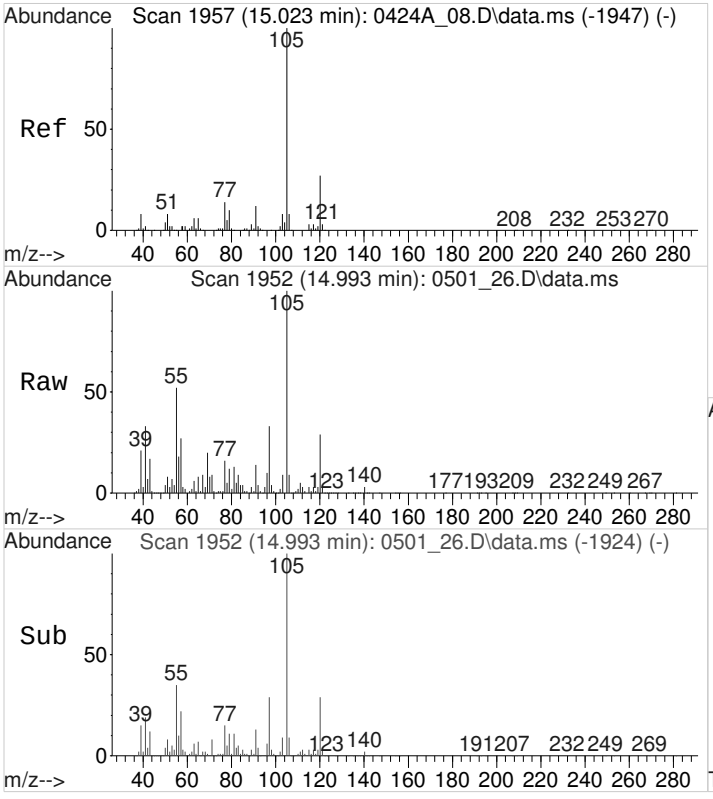


#85
n-Propylbenzene
Concen: 7.7367275 ppbv
RT: 14.920 min Scan# 1940
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 91 Resp: 637865

Ion	Ratio	Lower	Upper
91	100		
120	20.1	15.7	23.5

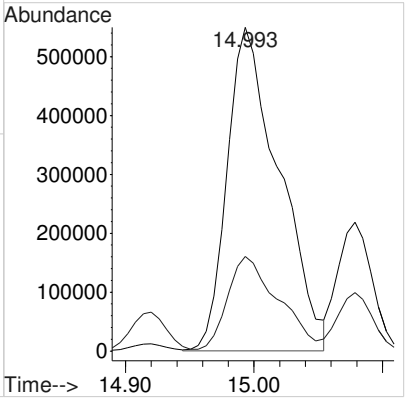


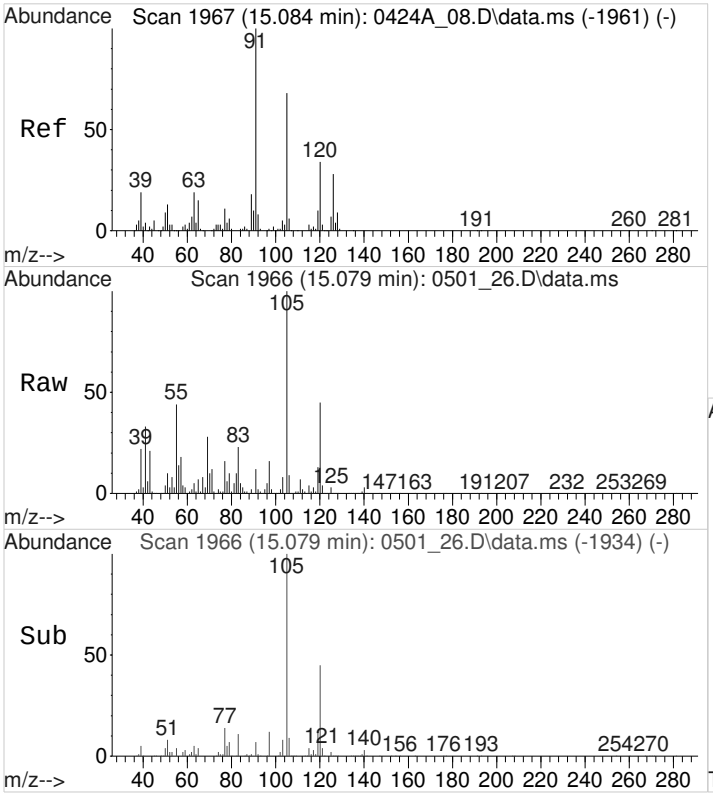


#86
4-Ethyltoluene
Concen: 26.0432925 ppbv
RT: 14.993 min Scan# 1952
Delta R.T. -0.030 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion:105 Resp: 1548031

Ion	Ratio	Lower	Upper
105	100		
120	28.5	21.3	31.9

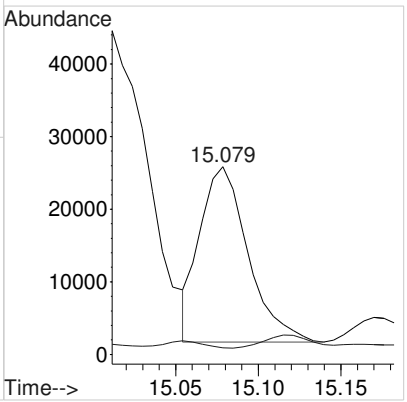


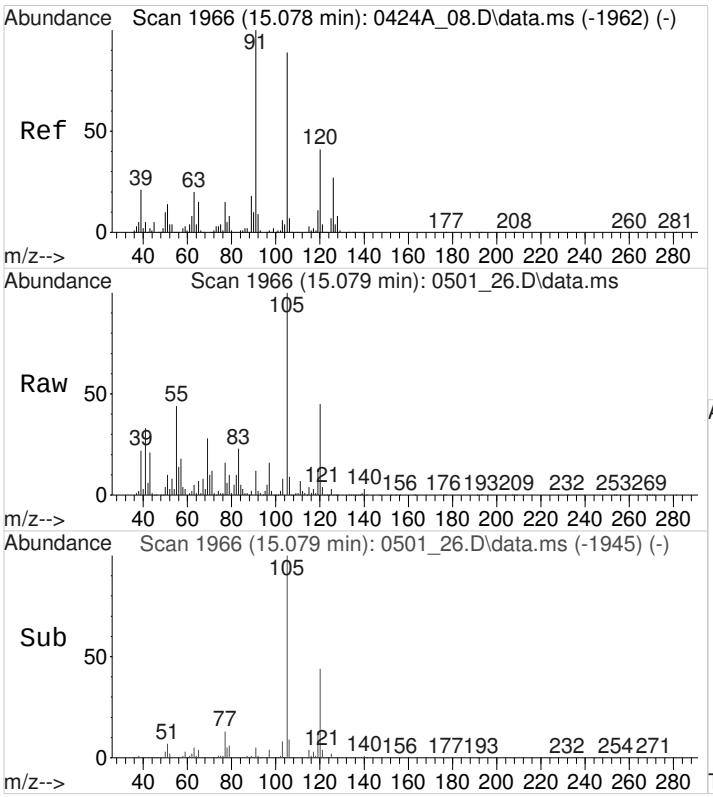


#87
2-Chlorotoluene
Concen: 0.8494291 ppbv
RT: 15.079 min Scan# 1966
Delta R.T. -0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 91 Resp: 48982

Ion	Ratio	Lower	Upper
91	100		
126	7.4	21.8	32.6#

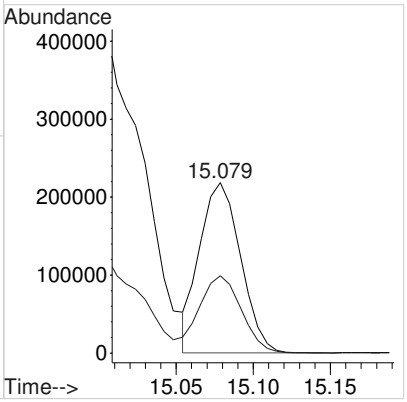


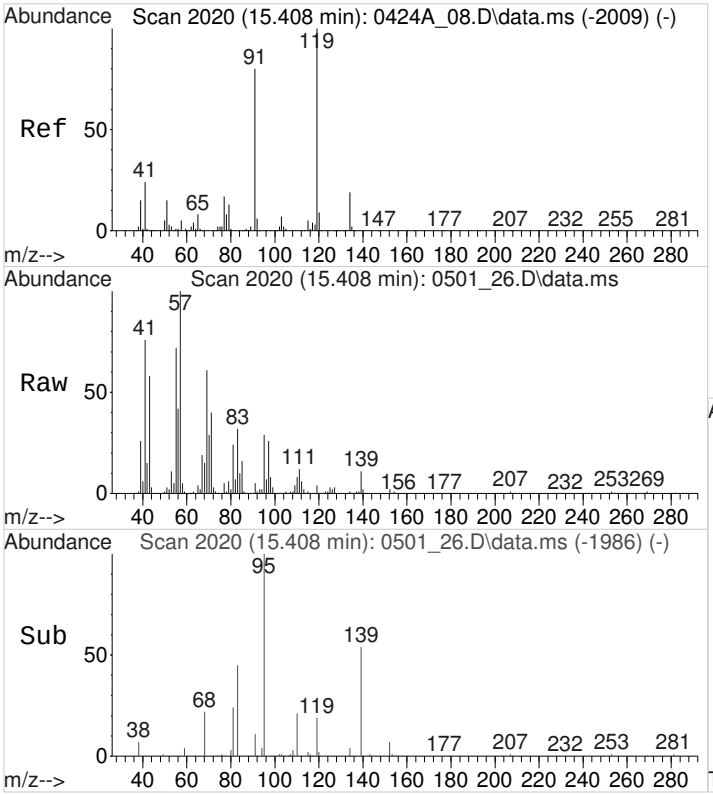


#89
1,3,5-Trimethylbenzene
Concen: 7.9867081 ppbv
RT: 15.079 min Scan# 1966
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion:105 Resp: 403383

Ion	Ratio	Lower	Upper
105	100		
120	47.4	37.8	56.8

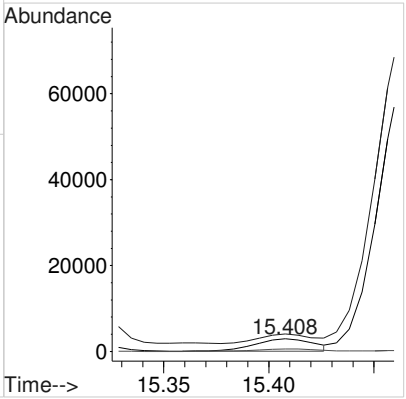


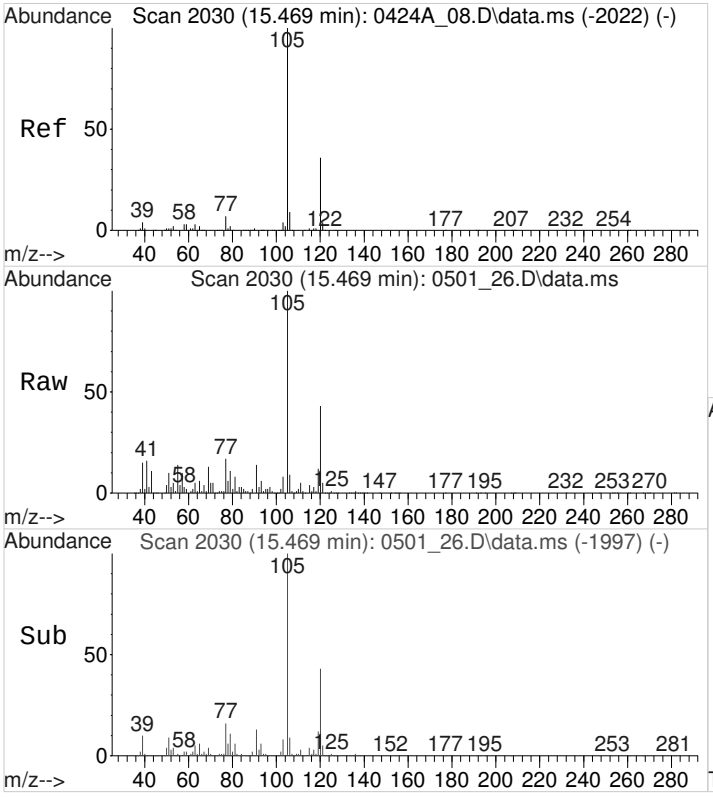


#90
tert-Butylbenzene
Concen: 0.1294508 ppbv
RT: 15.408 min Scan# 2020
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion:119 Resp: 5550

Ion	Ratio	Lower	Upper
119	100		
91	0.0	64.8	97.2#
134	23.5	15.0	22.4#

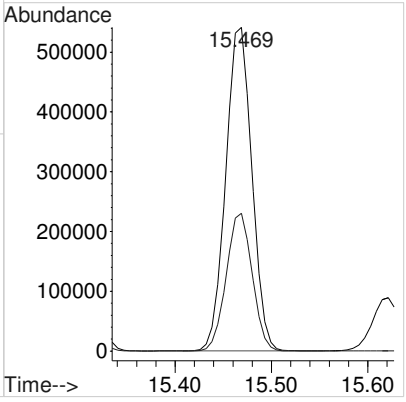


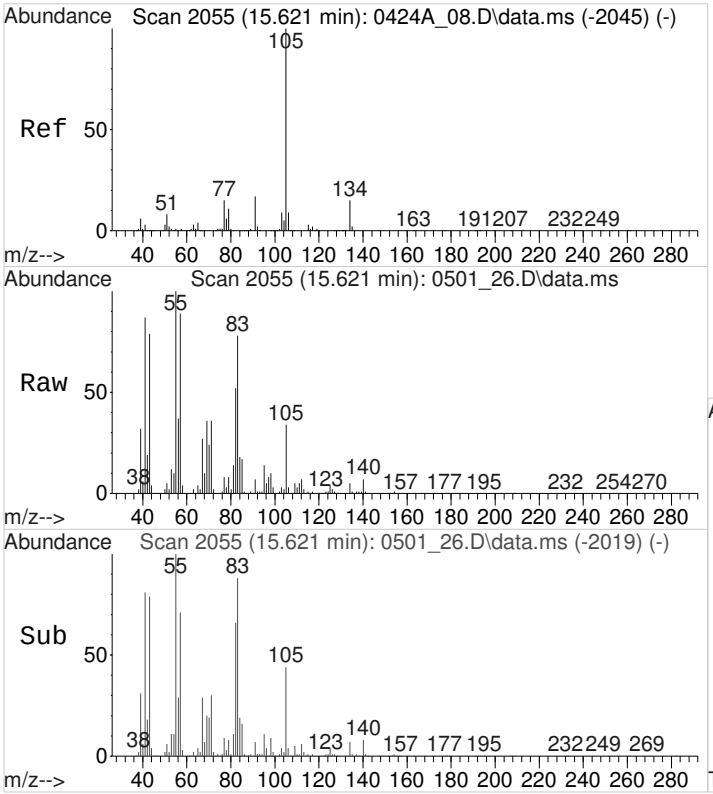


#91
1,2,4-Trimethylbenzene
Concen: 20.1150670 ppbv
RT: 15.469 min Scan# 2030
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion:105 Resp: 1016956

Ion	Ratio	Lower	Upper
105	100		
120	42.4	33.4	50.2

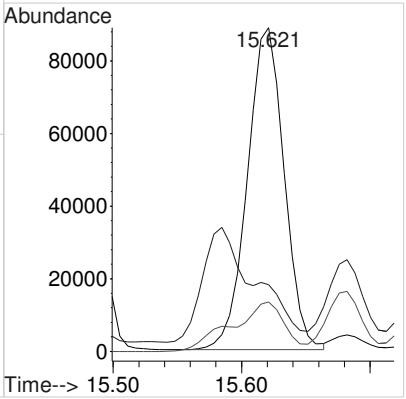


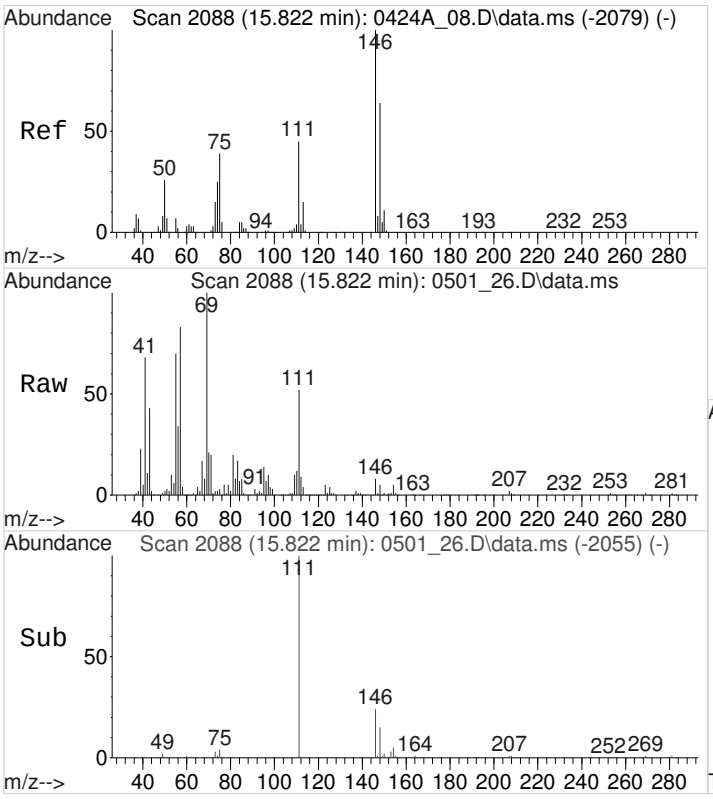


#92
sec-Butylbenzene
Concen: 2.4235975 ppbv
RT: 15.621 min Scan# 2055
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion:105 Resp: 177075

Ion	Ratio	Lower	Upper
105	100		
91	53.0	13.8	20.8#
134	22.2	12.6	19.0#

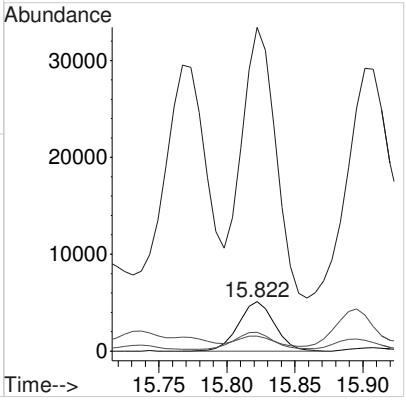


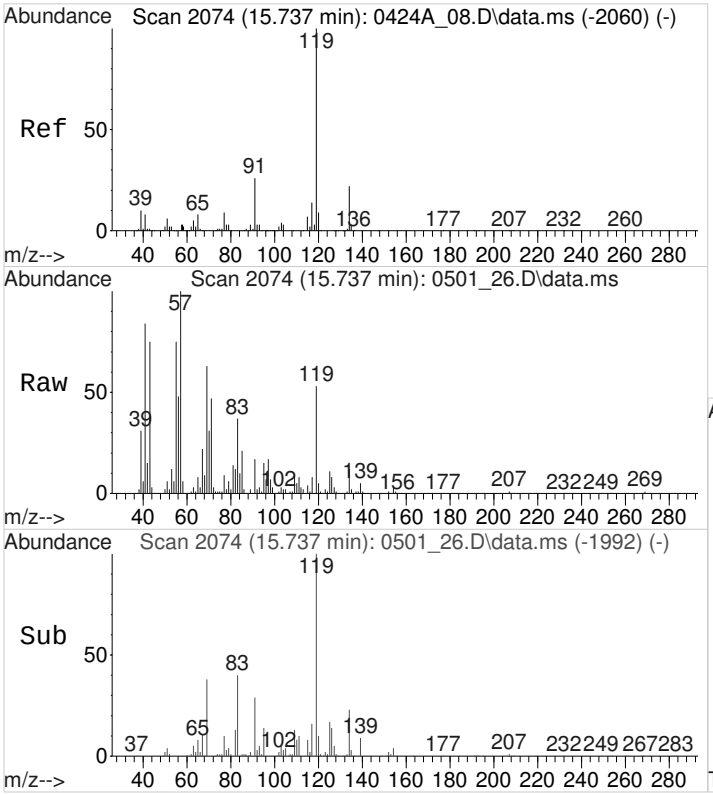


#93
1,3-Dichlorobenzene
Concen: 0.2675584 ppbv
RT: 15.822 min Scan# 2088
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion:146 Resp: 9452

Ion	Ratio	Lower	Upper
146	100		
111	510.7	31.3	46.9#
75	36.6	29.9	44.9
50	19.3	23.9	35.9#

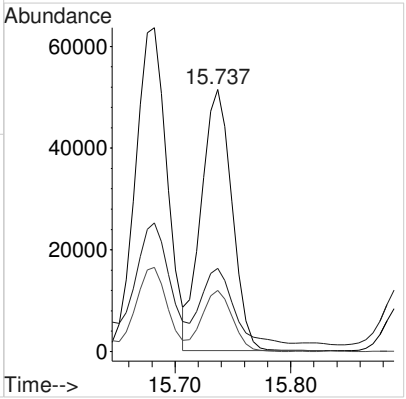


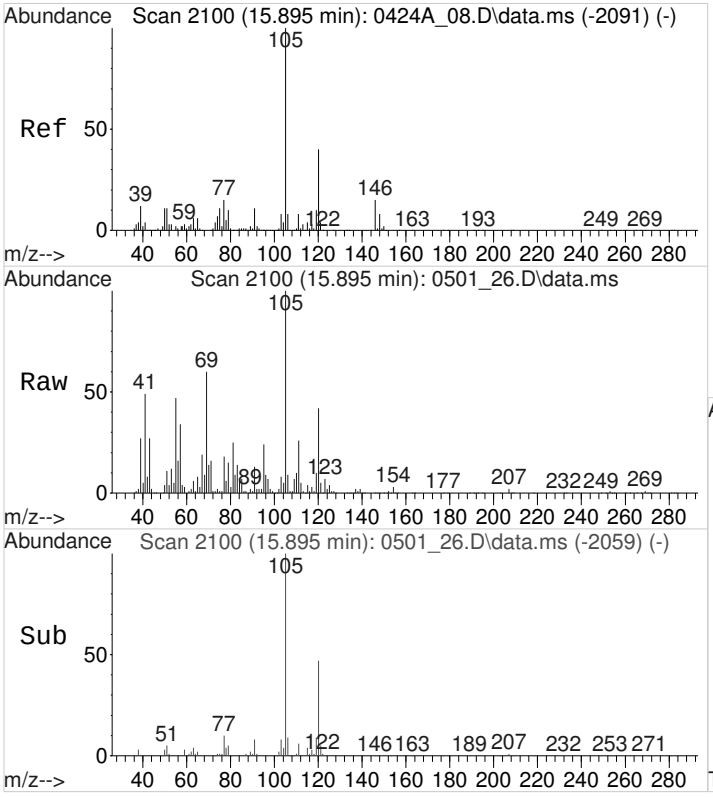


#94
P-ISOPROPYLTOLUENE
Concen: 1.6273022 ppbv
RT: 15.737 min Scan# 2074
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion:119 Resp: 94957

Ion	Ratio	Lower	Upper
119	100		
91	29.1	22.0	33.0
134	23.3	18.7	28.1

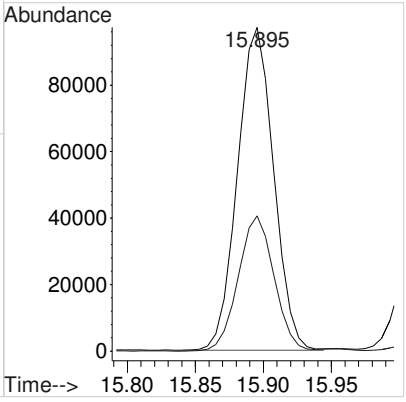


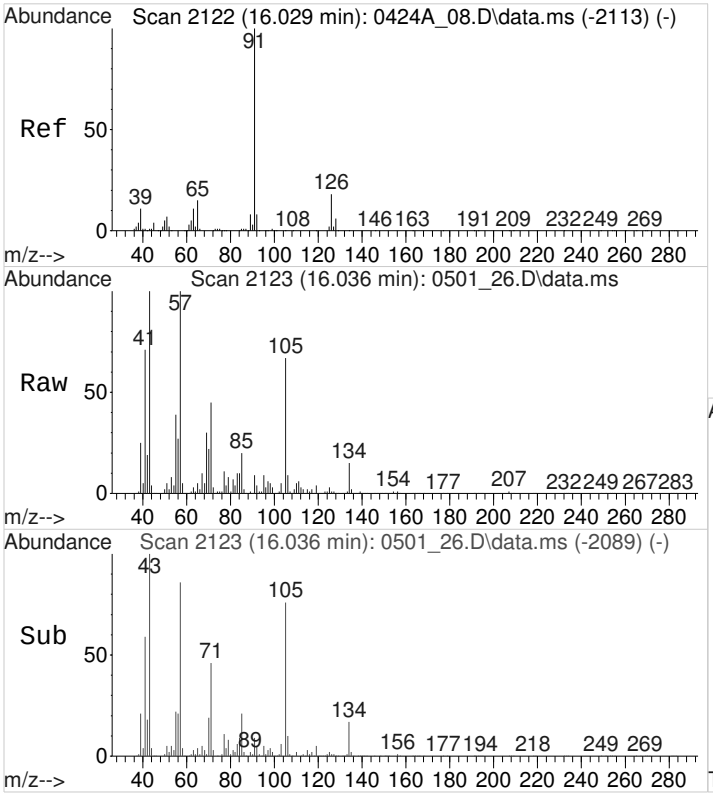


#96
1,2,3-TRIMETHYLBENZENE
Concen: 3.4852528 ppbv
RT: 15.895 min Scan# 2100
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion:105 Resp: 180087

Ion	Ratio	Lower	Upper
105	100		
120	41.4	32.1	48.1

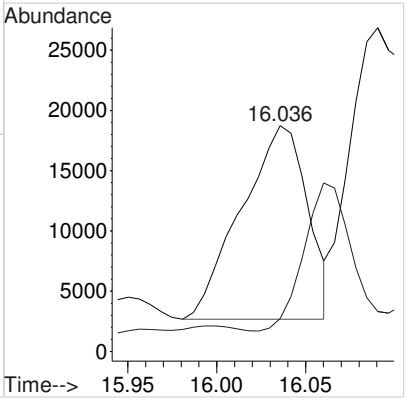


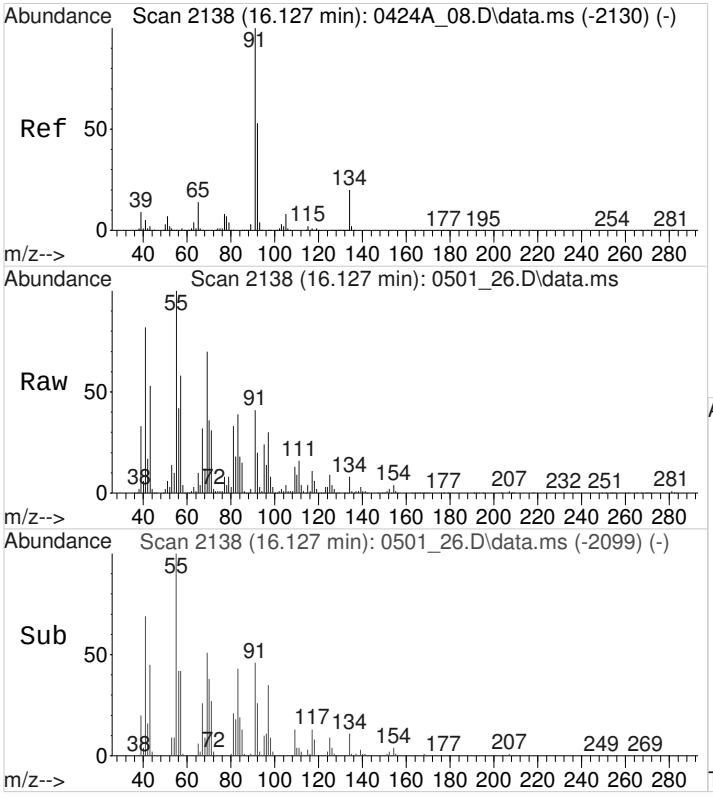


#97
Benzyl Chloride
Concen: 0.7897232 ppbv
RT: 16.036 min Scan# 2123
Delta R.T. 0.006 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 91 Resp: 41675

Ion	Ratio	Lower	Upper
91	100		
126	56.2	14.4	21.6#

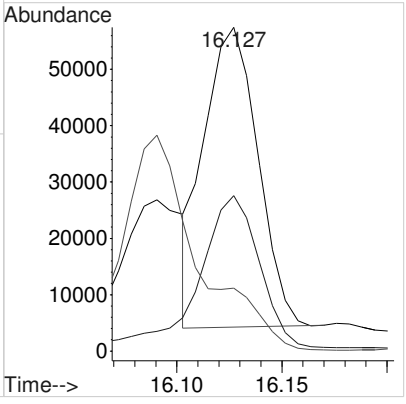


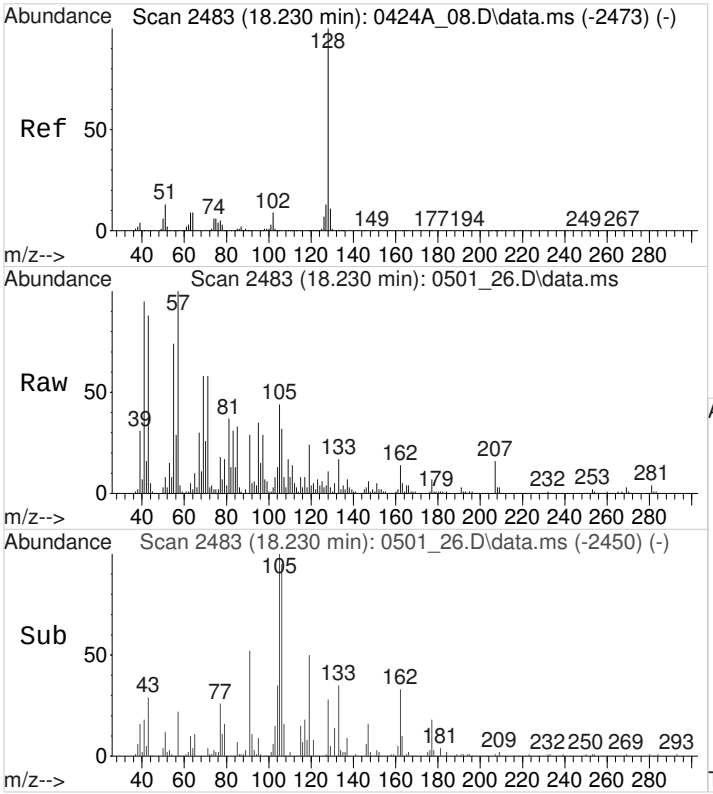


#98
n-Butylbenzene
Concen: 1.4201504 ppbv
RT: 16.127 min Scan# 2138
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion: 91 Resp: 94577

Ion	Ratio	Lower	Upper
91	100		
92	56.7	42.6	63.8
134	0.0	15.8	23.8#

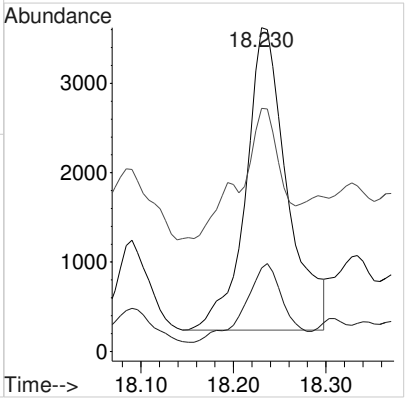




#103
Naphthalene
Concen: 0.1403245 ppbv
RT: 18.230 min Scan# 2483
Delta R.T. 0.000 min
Lab File: 0501_26.D
Acq: 2 May 2024 4:34 am

Tgt Ion:128 Resp: 10594

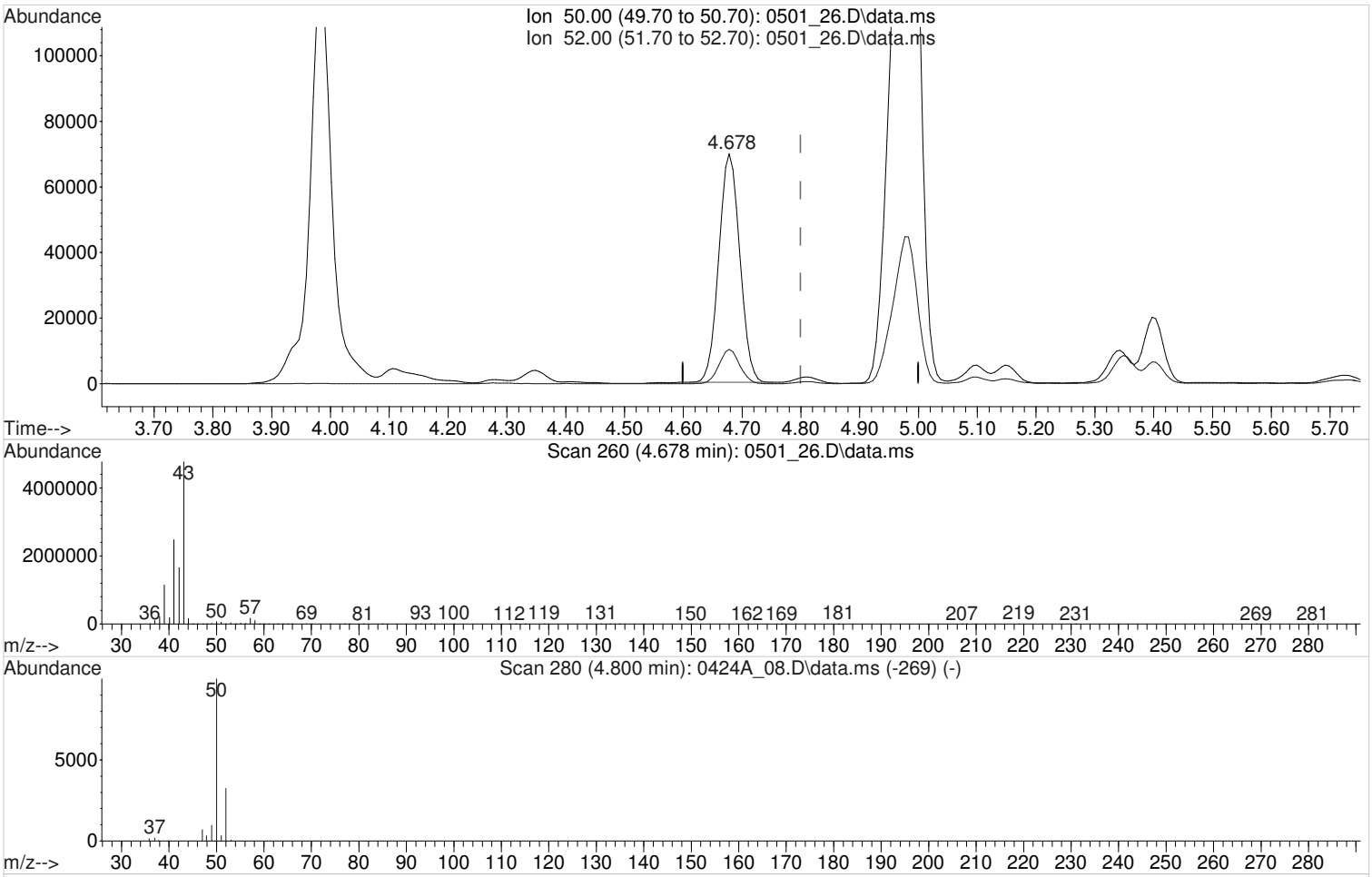
Ion	Ratio	Lower	Upper
128	100		
102	24.8	7.4	11.0#
51	27.4	9.8	14.8#



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_26.D
Acq On : 2 May 2024 4:34 am
Operator :
Sample : L1731355-02 1x WG2278229
Misc : 24D29341
ALS Vial : 26 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 02 07:31:06 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration



TIC: 0501_26.D\data.ms

(11) Chloromethane (T,M)

4.678min (-0.122) 10.4659311 ppbv

Qvalue = 69

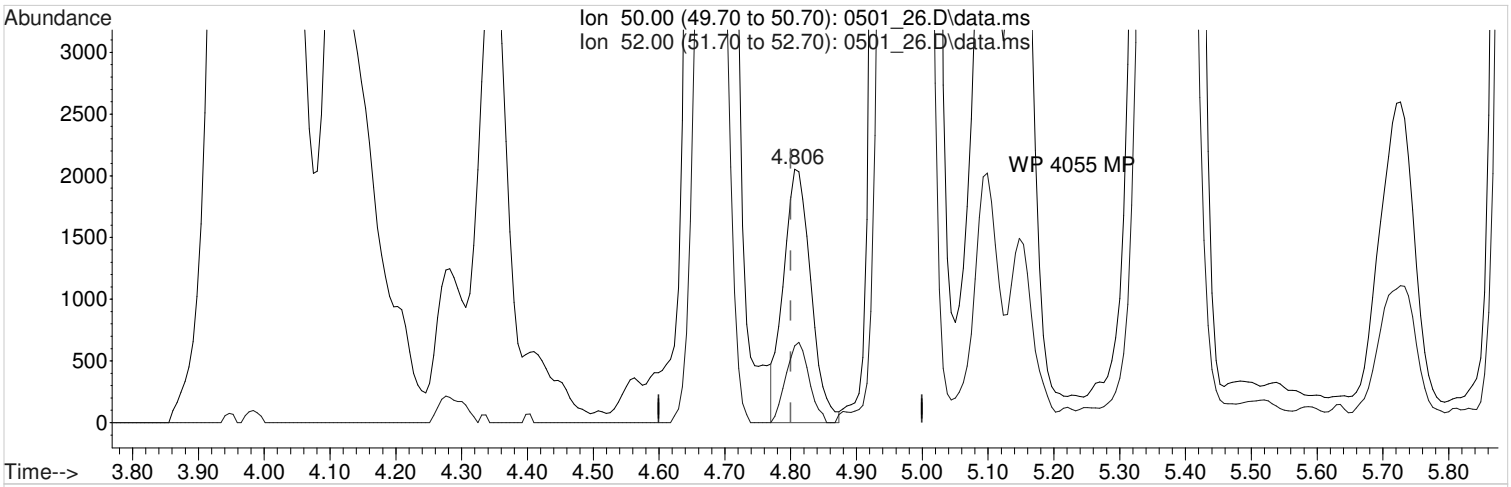
response 172605 Limit = 0.1030000

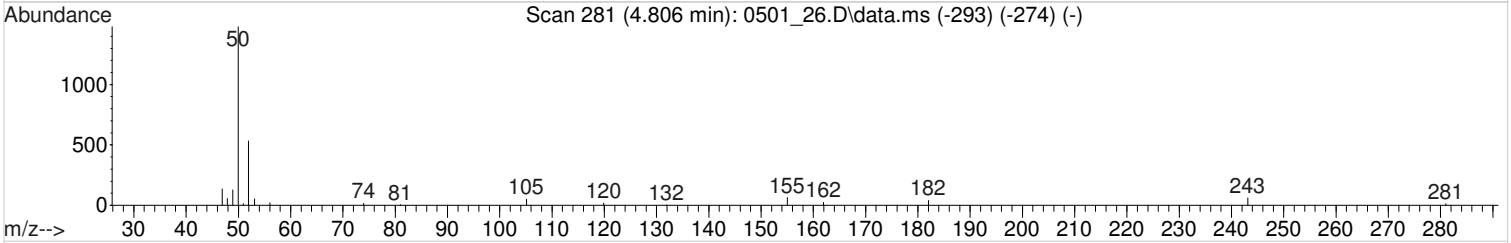
Ion	Exp%	Act%
50.00	100	100
52.00	31.90	14.78#
0.00	0.00	0.00
0.00	0.00	0.00

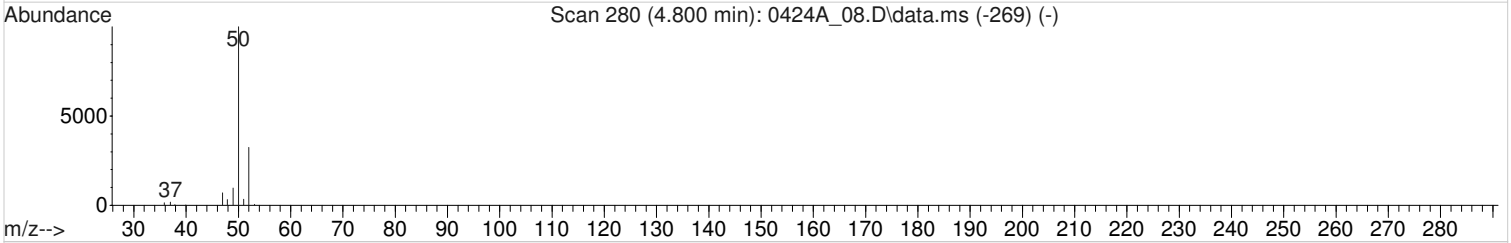
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_26.D
Acq On : 2 May 2024 4:34 am
Operator :
Sample : L1731355-02 1x WG2278229
Misc : 24D29341
ALS Vial : 26 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 02 07:31:06 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration







TIC: 0501_26.D\data.ms

(11) Chloromethane (T,M)

4.806min (+0.006) 0.3622951 ppbv m

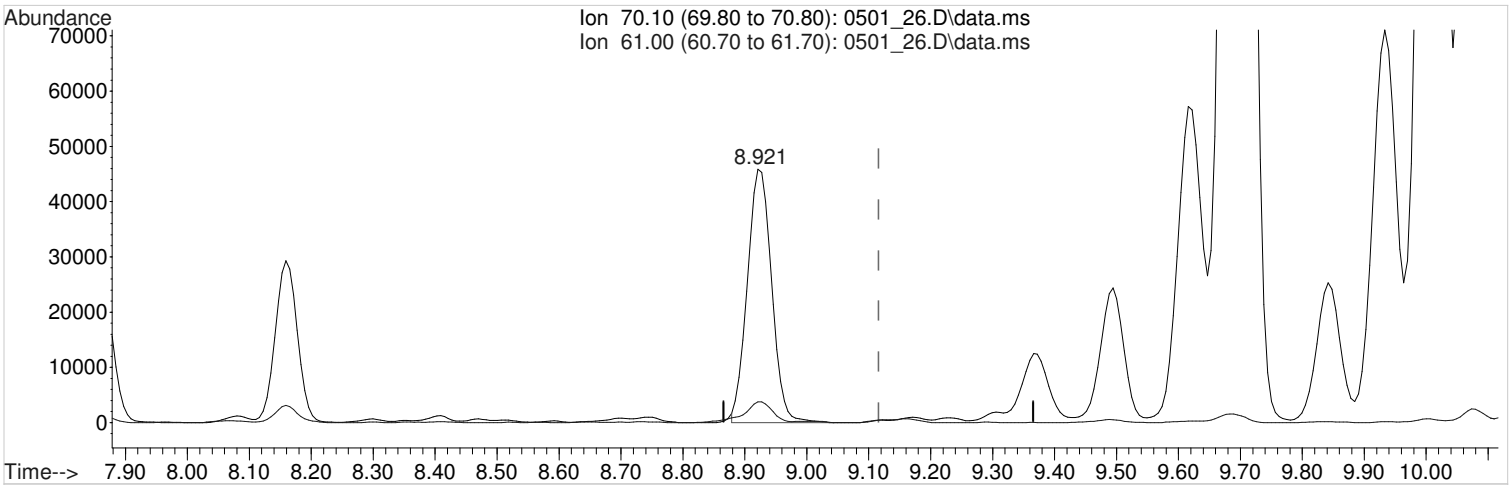
response 5975 Limit = 0.1030000

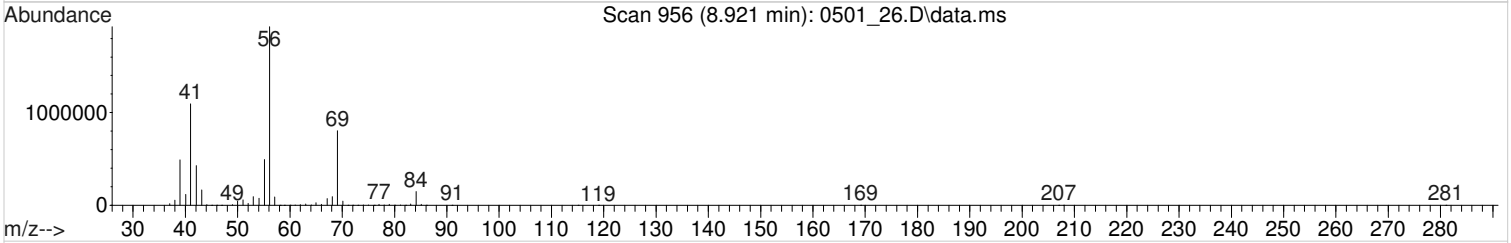
Ion	Exp%	Act%
50.00	100	100
52.00	31.90	426.98#
0.00	0.00	0.00
0.00	0.00	0.00

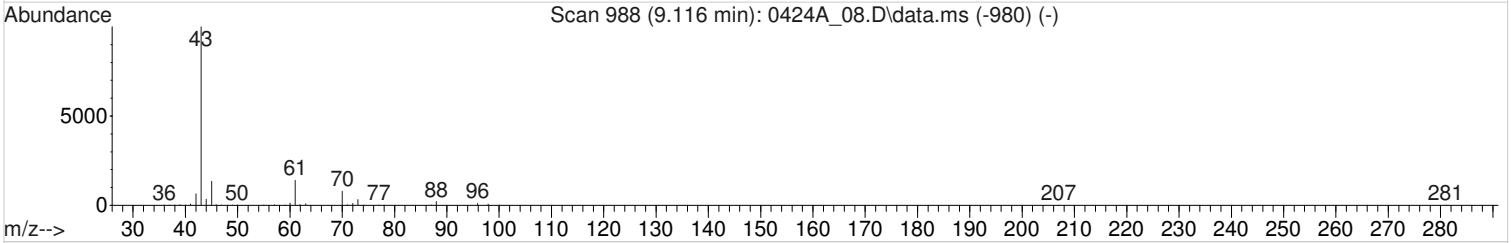
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_26.D
Acq On : 2 May 2024 4:34 am
Operator :
Sample : L1731355-02 1x WG2278229
Misc : 24D29341
ALS Vial : 26 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 02 07:31:06 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration







TIC: 0501_26.D\data.ms

(41) ETHYL ACETATE

8.921min (-0.195) 31.4390179 ppbv

Qvalue = 1

response 124640 Limit = 0.1000000

Ion	Exp%	Act%
70.10	100	100
61.00	707.60	7.84#
0.00	0.00	0.00
0.00	0.00	0.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: SG2

Lab Sample ID:	L1731355-02	**SDG:**	L1731355
Client Sample ID:	SG2	**Collected Date/Time:**	04/29/24 12:54
Lab File ID:	0503_05	**Received Date/Time:**	05/01/24 09:00
Instrument ID:	AIRMS16	**Preparation Date/Time:**	05/03/24 14:44
Analytical Batch:	WG2279821	**Analysis Date/Time:**	05/03/24 14:44
Dilution Factor:	10	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	20 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
Benzyl Chloride	100-44-7	0	ND		0.598	2.00
Bromoform	75-25-2	0	ND		0.732	6.00
1,2-Dichlorobenzene	95-50-1	0	ND		1.28	2.00
1,3-Dichlorobenzene	541-73-1	0	ND		1.82	2.00
1,4-Dichlorobenzene	106-46-7	0	ND		0.557	2.00
Ethylbenzene	100-41-4	11.70	21.7		0.835	2.00
4-Ethyltoluene	622-96-8	13.12	23.6		0.783	2.00
Heptane	142-82-5	8.27	166		1.04	2.00
Hexachloro-1,3-butadiene	87-68-3	0	ND		1.05	6.30
n-Hexane	110-54-3	6.66	380		2.06	6.30
Isopropylbenzene	98-82-8	12.66	3.92		0.777	2.00
Naphthalene	91-20-3	16.20	ND		3.50	6.30
Styrene	100-42-5	0	ND		0.788	2.00
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.743	2.00
Tetrachloroethylene	127-18-4	10.67	216		0.814	2.00
Toluene	108-88-3	10.09	160		0.870	5.00
1,2,4-Trichlorobenzene	120-82-1	0	ND		1.48	6.30
1,2,4-Trimethylbenzene	95-63-6	13.55	17.7		0.764	2.00
1,3,5-Trimethylbenzene	108-67-8	13.20	7.92		0.779	2.00
Xylenes, Total	1330-20-7	12.30	80.0		1.35	6.00
m&p-Xylene	179601-23-1	11.82	61.0		1.35	4.00
o-Xylene	95-47-6	12.30	19.0		0.828	2.00

Sample Narrative:

Elevated RL due to sample matrix interference.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_05.D
Acq On : 3 May 2024 2:44 pm
Operator :
Sample : L1731355-02 10x WG2279821
Misc : 24D22236
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 04 13:15:24 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.708	130	213258	4.0000000	ppbv		0.00
50) 1,4-Difluorobenzene	8.541	114	892742	4.0000000	ppbv		0.00
74) Chlorobenzene-d5	11.642	117	795968	4.0000000	ppbv		0.00
System Monitoring Compounds							
88) 1,4-Bromofluorobenzene	12.901	95	551864	3.8899329	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 97.25%				
Target Compounds							Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	55864751m	368.2055844	ppbv		
3) TPH-GRO (C5-C10)	10.430	TIC	68282362m	541.7856411	ppbv		
4) THC as Gas (C4-C12)	10.430	TIC	88452180m	562.0890033	ppbv		
5) Propene	4.113	41	783012	49.5749873	ppbv	#	60
6) BUTANE	4.555	43	2689449	107.9908268	ppbv		99
7) 1,1-DIFLUOROETHANE	4.119	65	97277	9.7182966	ppbv		100
8) Dichlorodifluoromethane	4.164	85	2936	0.0791367	ppbv		93
10) 1,2-Dichlorotetrafluor...	4.164	85	2492	0.0615092	ppbv	#	25
11) Chloromethane	4.550	50	69379	4.5294543	ppbv	#	76
13) 1,3-Butadiene	4.788	39	20774	1.6763228	ppbv		87
16) ISOPENTANE	5.122	43	957694	54.2800360	ppbv		99
18) Trichlorofluoromethane	5.338	101	2662	0.0736504	ppbv		94
19) PENTANE	5.377	43	1838126	54.4402919	ppbv		99
20) Ethanol	5.479	45	28298	3.4146222	ppbv		99
21) ACROLEIN	5.820	56	9638	1.1297896	ppbv	#	76
24) Acetone	5.933	58	19024	1.9779487	ppbv		74
26) 2-Propanol	5.961	45	17644	0.4553711	ppbv	#	1
27) Carbon Disulfide	6.171	76	301829	5.3659447	ppbv		100
28) Allyl Chloride	6.228	41	545780	20.9371429	ppbv	#	1
29) METHYL ACETATE	6.222	43	1240142	33.0200527	ppbv	#	57
30) ACETONITRILE	6.228	41	546942	30.5897904	ppbv	#	44
31) Methylene Chloride	6.336	49	8245	0.3842834	ppbv	#	78
32) TERT-BUTYL ALCOHOL	6.336	59	3121	0.0734767	ppbv	#	1
33) Methyl Tert-Butyl Ether	6.500	73	9681	0.1883288	ppbv	#	1
35) ACRYLONITRILE	6.568	53	906	0.0580469	ppbv	#	17
36) n-Hexane	6.664	57	1182190	38.0524150	ppbv		99
38) Vinyl Acetate	7.050	43	11919	0.2049433	ppbv	#	78
41) ETHYL ACETATE	7.384	70	1613	0.3264069	ppbv		89
42) 2-Butanone (MEK)	7.435	72	3981	0.4107498	ppbv	#	40
43) cis-1,2-Dichloroethene	7.384	61	2422	0.0977975	ppbv	#	21
44) Tetrahydrofuran	7.719	42	144752	5.9209185	ppbv	#	27
45) Chloroform	7.719	83	1678	0.0467026	ppbv	#	1
46) Cyclohexane	7.929	84	195583	7.9791889	ppbv	#	32
49) 2,2,4-Trimethylpentane	8.150	57	259989	2.5836931	ppbv	#	73
51) Benzene	8.252	78	83431	1.4195320	ppbv	#	77
52) TERT-AMYL METHYL ETHER	8.258	73	2322	0.0414089	ppbv	#	1
53) 1,2-Dichloroethane	8.258	62	1922	0.0813901	ppbv	#	1
54) Heptane	8.269	57	338463	16.5600038	ppbv	#	93
57) METHYL CYCLOHEXANE	8.978	83	499978	14.6304301	ppbv		95
59) Methyl Methacrylate	9.386	69	9363	0.4274517	ppbv		98

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_05.D
Acq On : 3 May 2024 2:44 pm
Operator :
Sample : L1731355-02 10x WG2279821
Misc : 24D22236
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 04 13:15:24 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

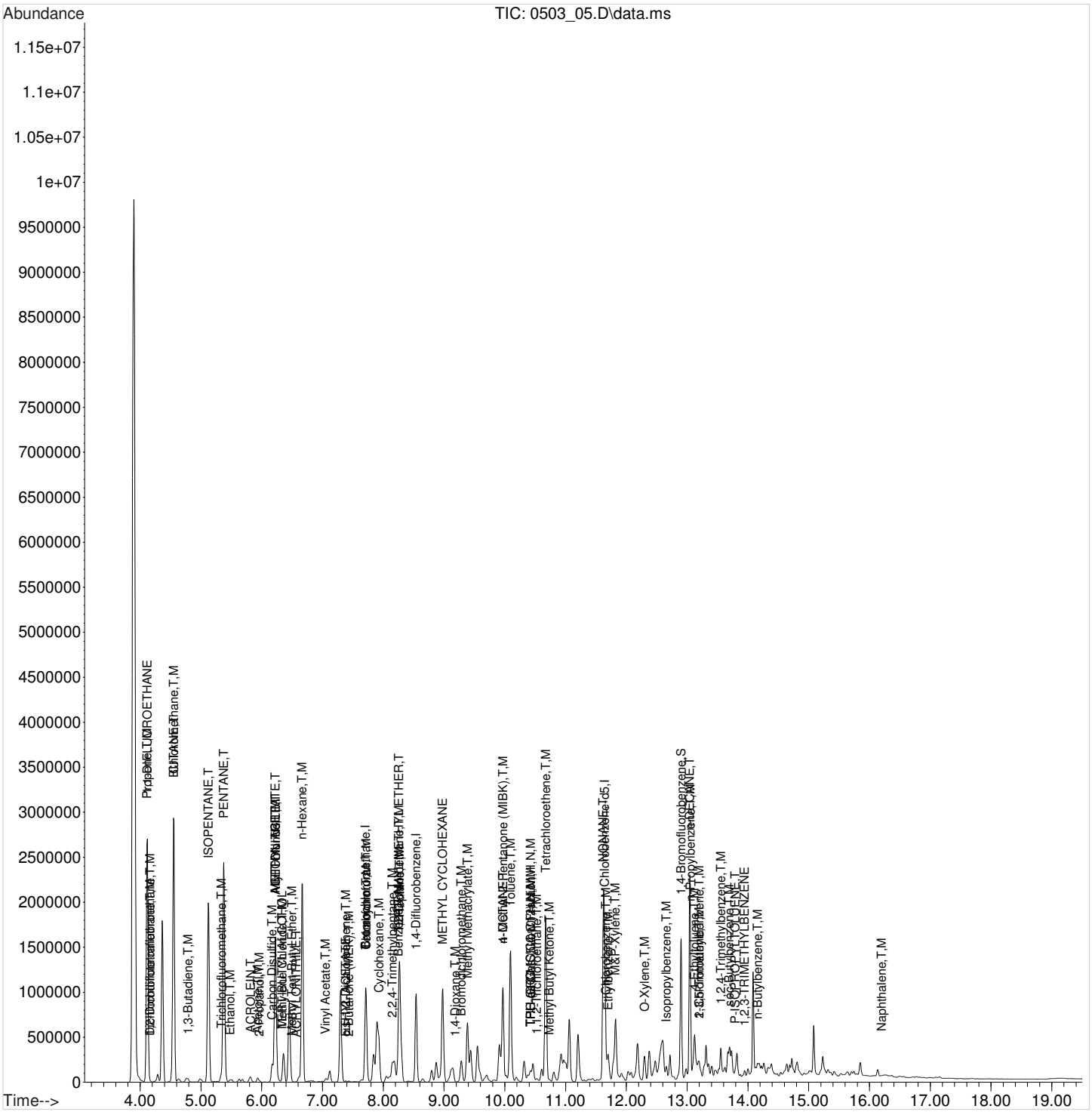
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
60)	1,4-Dioxane	9.182	88	415	0.0305824	ppbv	#	81
61)	Bromodichloromethane	9.284	83	8920	0.2501947	ppbv	#	19
63)	4-Methyl-2-Pentanone (...	9.970	43	574769	11.2764424	ppbv	#	41
64)	n-OCTANE	9.970	43	582990	10.6286295	ppbv		99
65)	Toluene	10.095	91	1179565	15.9859417	ppbv		100
67)	1,1,2-Trichloroethane	10.525	97	2749	0.1280767	ppbv	#	38
68)	Tetrachloroethene	10.673	166	672227	21.6254701	ppbv		99
69)	Methyl Butyl Ketone	10.735	43	8498	0.1755288	ppbv	#	39
72)	Chlorobenzene	11.665	112	2720	0.0512647	ppbv	#	1
73)	NONANE	11.620	43	814900	14.2269730	ppbv		99
75)	Ethylbenzene	11.699	91	200231	2.1647528	ppbv		100
76)	M&P-Xylene	11.818	91	432982	6.0950637	ppbv		99
77)	O-Xylene	12.300	91	138925	1.9028536	ppbv		99
82)	Isopropylbenzene	12.657	105	38174	0.3916234	ppbv	#	82
83)	n-DECANE	13.043	43	739499	14.1183667	ppbv		99
85)	n-Propylbenzene	13.054	91	88872	0.8001788	ppbv		99
86)	4-Ethyltoluene	13.122	105	218584	2.3631437	ppbv		98
87)	2-Chlorotoluene	13.202	91	6958	0.0938214	ppbv	#	65
89)	1,3,5-Trimethylbenzene	13.202	105	60075	0.7918055	ppbv		99
91)	1,2,4-Trimethylbenzene	13.553	105	138355	1.7703822	ppbv		100
92)	sec-Butylbenzene	13.689	105	24343	0.2167651	ppbv		96
94)	P-ISOPROPYLTOLUENE	13.791	119	13329	0.1418523	ppbv		95
96)	1,2,3-TRIMETHYLBENZENE	13.944	105	26007	0.3309546	ppbv		99
98)	n-Butylbenzene	14.160	91	12342	0.1330723	ppbv		98
103)	Naphthalene	16.201	128	4629	0.0425244	ppbv	#	85

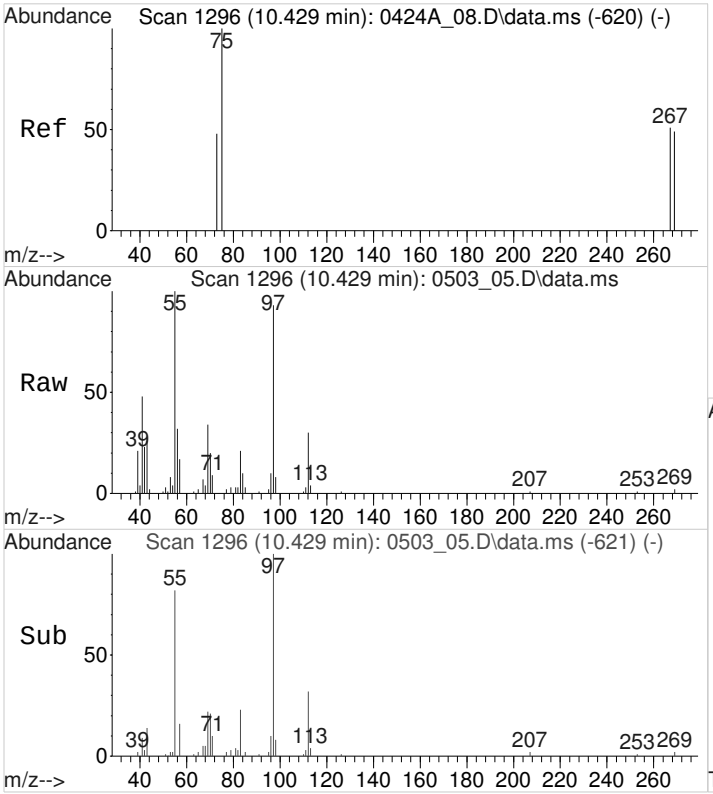
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_05.D
Acq On : 3 May 2024 2:44 pm
Operator :
Sample : L1731355-02 10x WG2279821
Misc : 24D22236
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS16

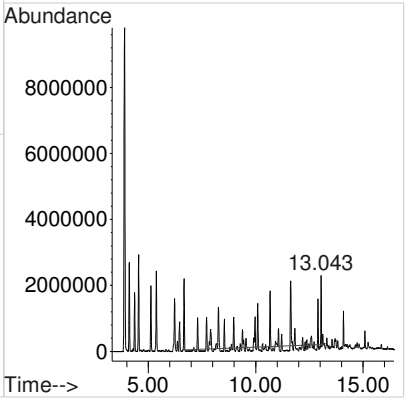
Quant Time: May 04 13:15:24 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

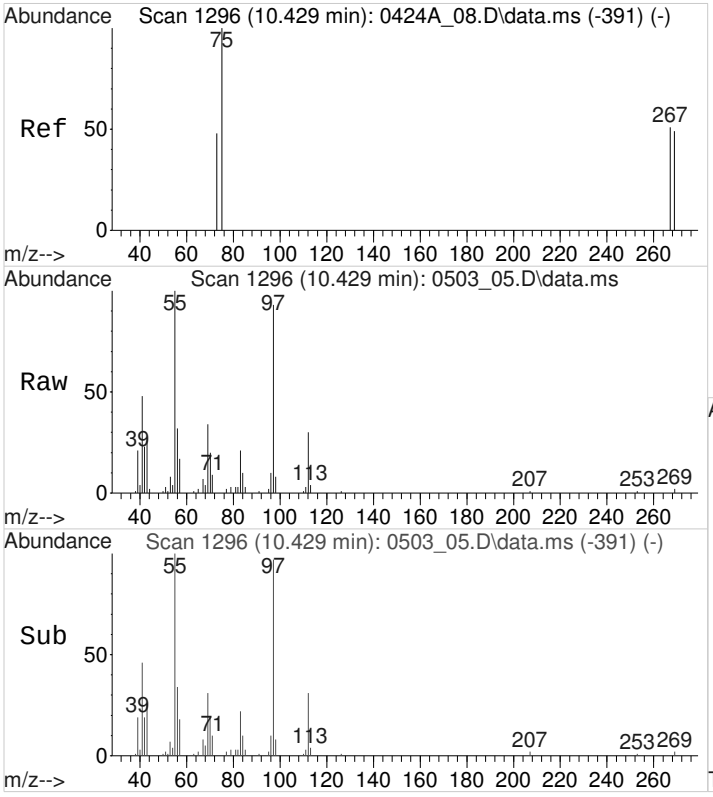




#2
TPH (GC/MS) Low Fraction
Concen: 368.2055844 ppbv m
RT: 10.430 min Scan# 1296
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

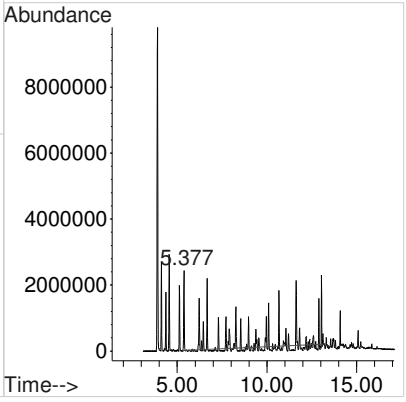
Tgt Ion:TIC Resp:55864751

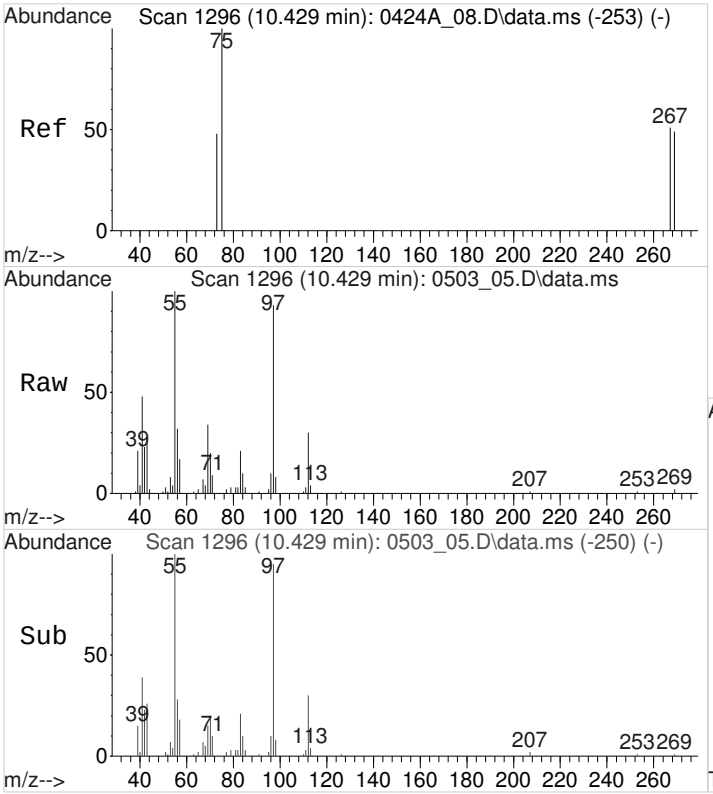




#3
TPH-GRO (C5-C10)
Concen: 541.7856411 ppbv m
RT: 10.430 min Scan# 1296
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

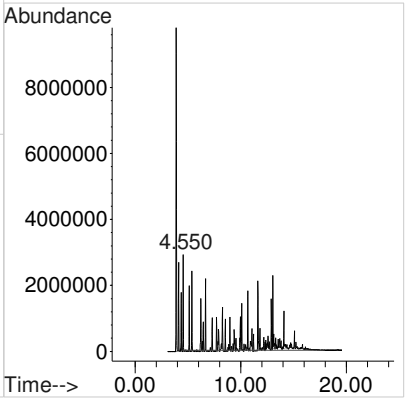
Tgt Ion:TIC Resp:68282362

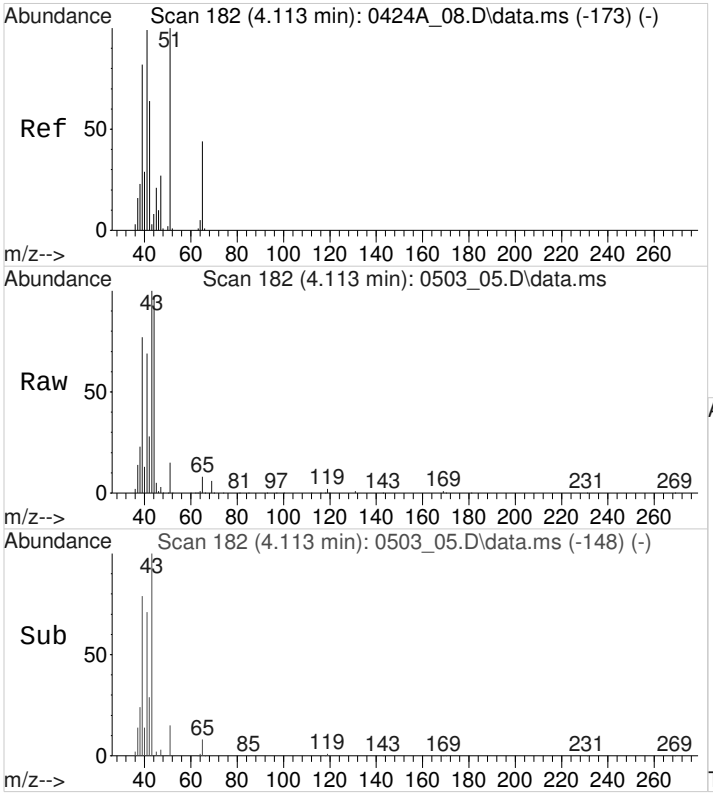




#4
THC as Gas (C4-C12)
Concen: 562.0890033 ppbv m
RT: 10.430 min Scan# 1296
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion:TIC Resp:88452180

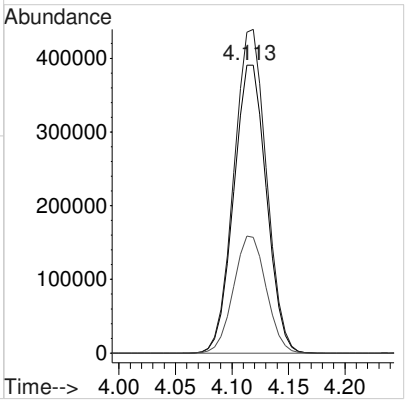


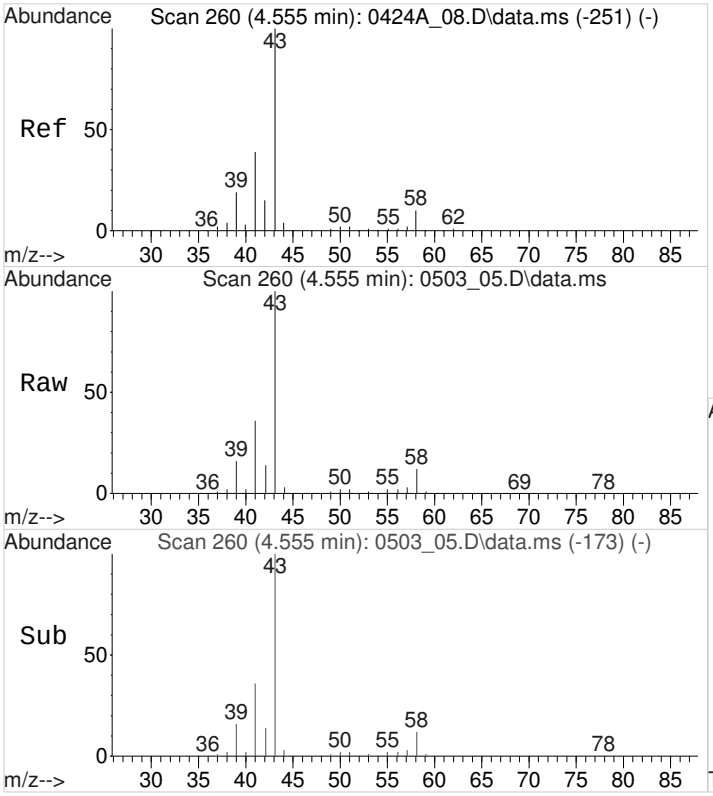


#5
Propene
Concen: 49.5749873 ppbv
RT: 4.113 min Scan# 182
Delta R.T. -0.006 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 41 Resp: 783012

Ion	Ratio	Lower	Upper
41	100		
39	111.8	57.1	85.7#
42	40.6	52.0	78.0#

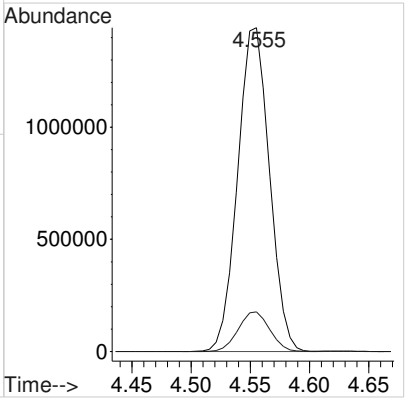


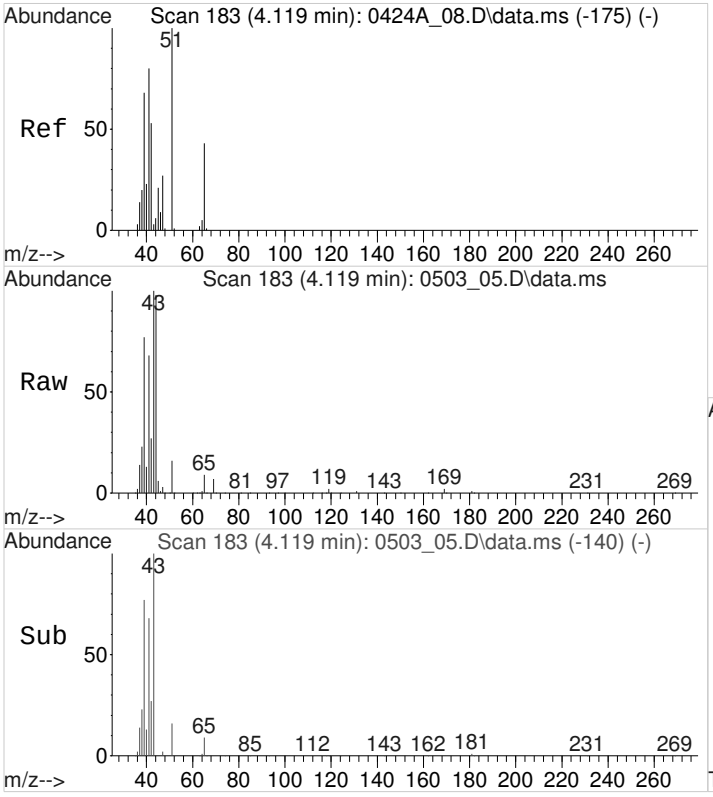


#6
BUTANE
Concen: 107.9908268 ppbv
RT: 4.555 min Scan# 260
Delta R.T. -0.006 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 43 Resp: 2689449

Ion	Ratio	Lower	Upper
43	100		
58	12.1	9.4	14.0

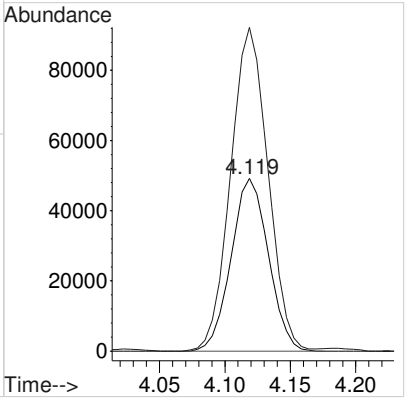


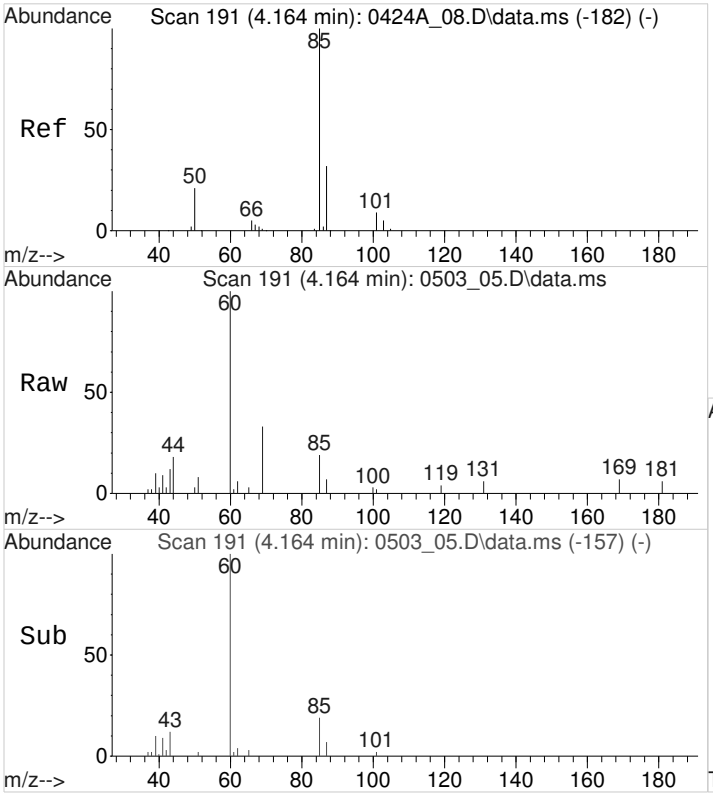


#7
1,1-DIFLUOROETHANE
Concen: 9.7182966 ppbv
RT: 4.119 min Scan# 183
Delta R.T. -0.006 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 65 Resp: 97277

Ion	Ratio	Lower	Upper
65	100		
51	188.1	150.3	225.5

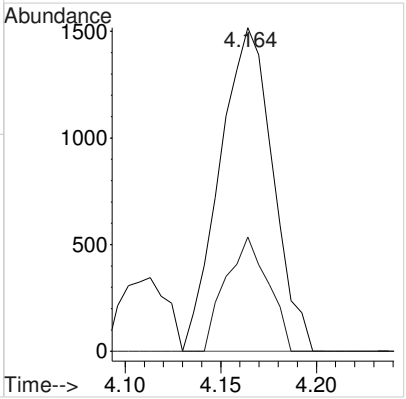


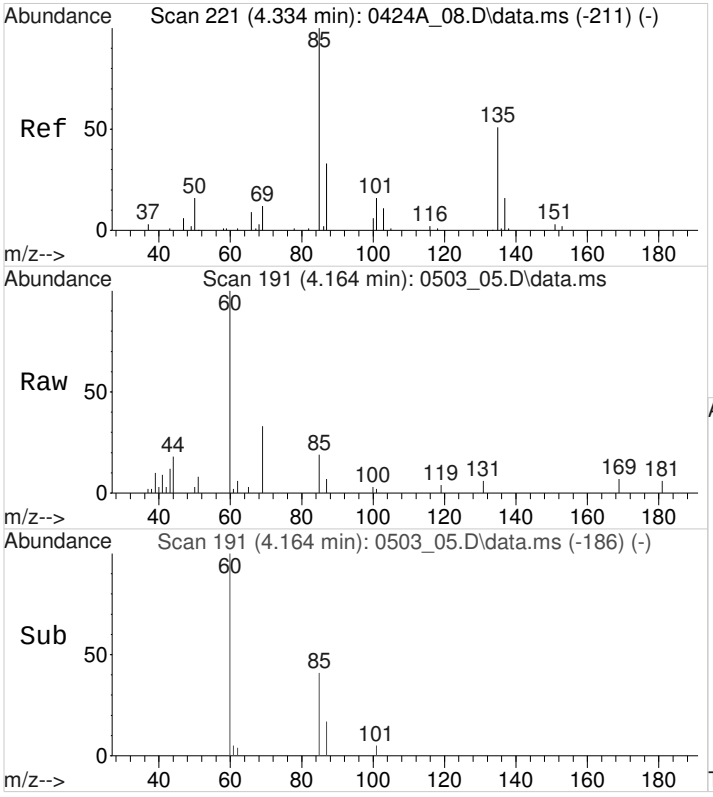


#8
Dichlorodifluoromethane
Concen: 0.0791367 ppbv
RT: 4.164 min Scan# 191
Delta R.T. -0.006 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 85 Resp: 2936

Ion	Ratio	Lower	Upper
85	100		
87	28.4	25.7	38.5

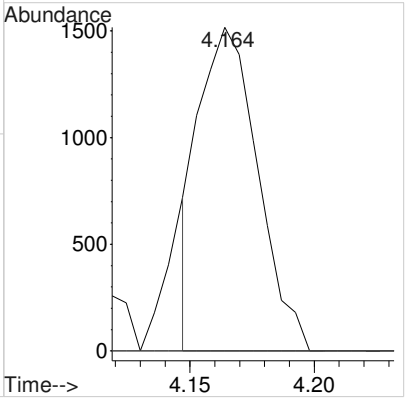


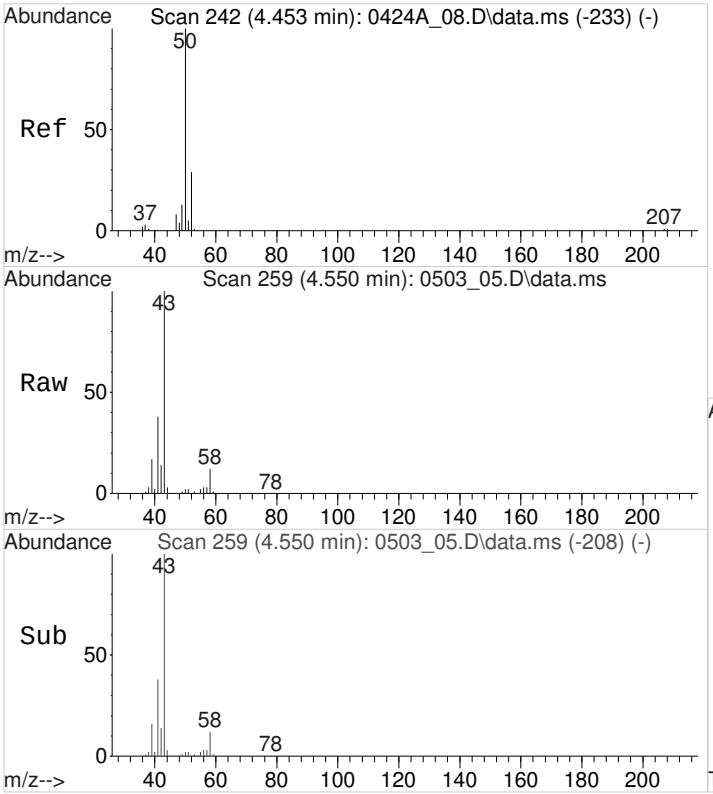


#10
1,2-Dichlorotetrafluoroethane
Concen: 0.0615092 ppbv
RT: 4.164 min Scan# 191
Delta R.T. -0.170 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 85 Resp: 2492

Ion	Ratio	Lower	Upper
85	100		
135	0.0	53.8	80.8#
137	0.0	17.1	25.7#

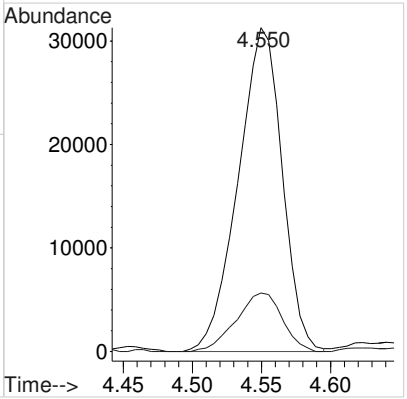


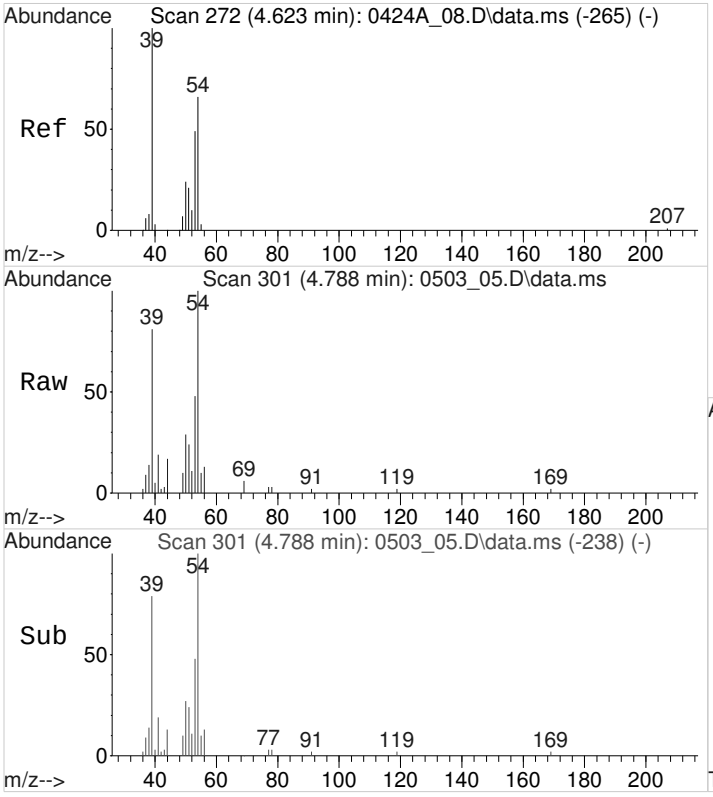


#11
Chloromethane
Concen: 4.5294543 ppbv
RT: 4.550 min Scan# 259
Delta R.T. 0.091 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 50 Resp: 69379

Ion	Ratio	Lower	Upper
50	100		
52	18.9	25.8	38.8#

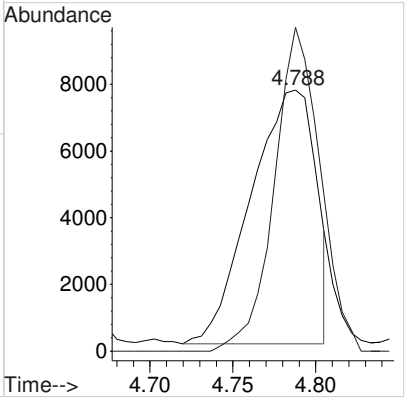


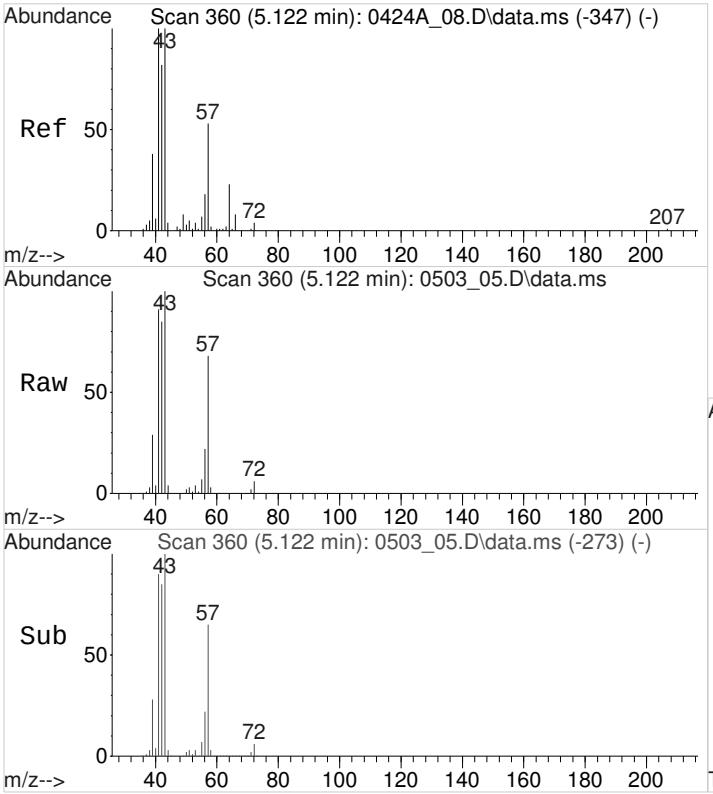


#13
1,3-Butadiene
Concen: 1.6763228 ppbv
RT: 4.788 min Scan# 301
Delta R.T. 0.159 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 39 Resp: 20774

Ion	Ratio	Lower	Upper
39	100		
54	83.1	76.2	114.4

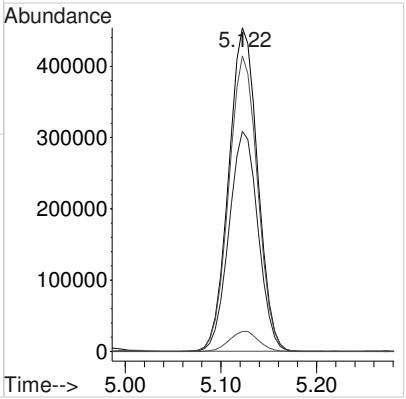


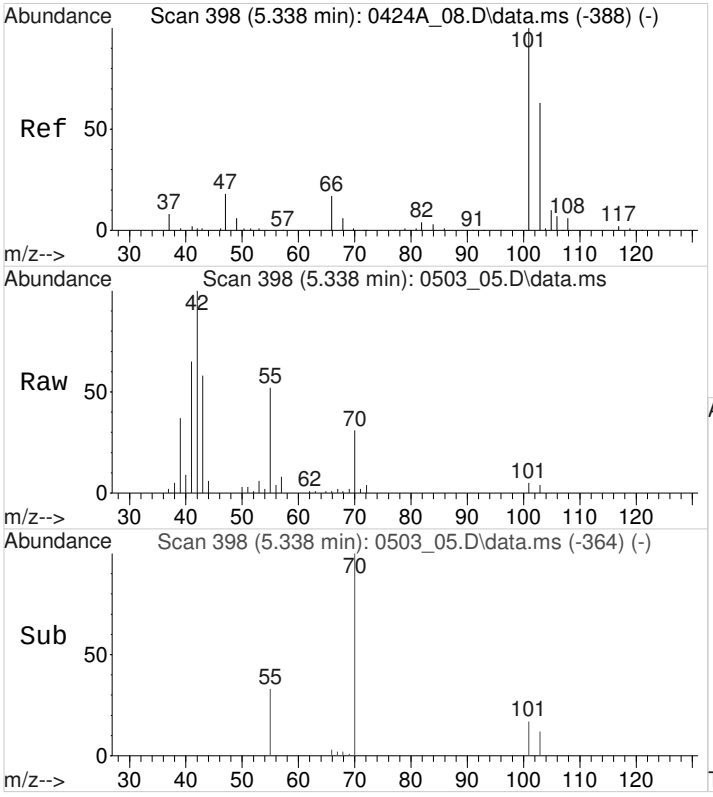


#16
ISOPENTANE
Concen: 54.2800360 ppbv
RT: 5.122 min Scan# 360
Delta R.T. -0.006 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 43 Resp: 957694

Ion	Ratio	Lower	Upper
43	100		
57	68.4	54.4	81.6
41	91.2	74.2	111.4
72	6.3	4.9	7.3

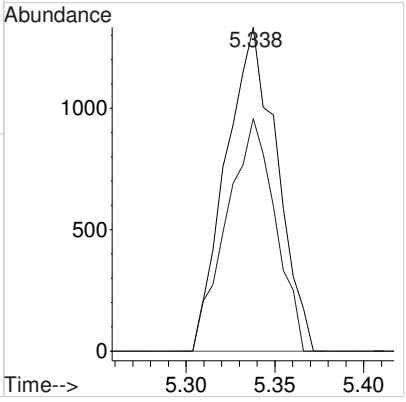


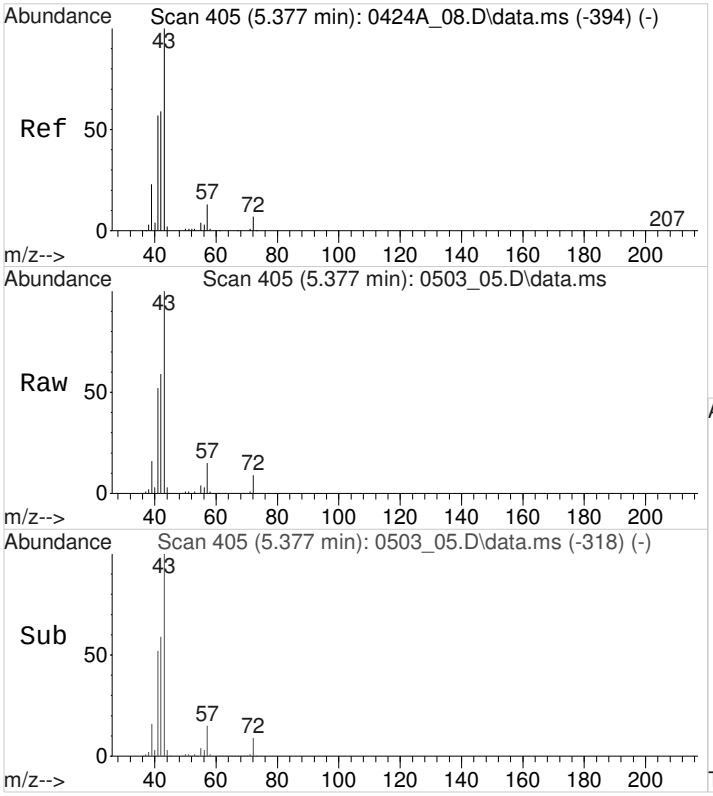


#18
Trichlorofluoromethane
Concen: 0.0736504 ppbv
RT: 5.338 min Scan# 398
Delta R.T. -0.006 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion:101 Resp: 2662

Ion	Ratio	Lower	Upper
101	100		
103	68.6	51.2	76.8

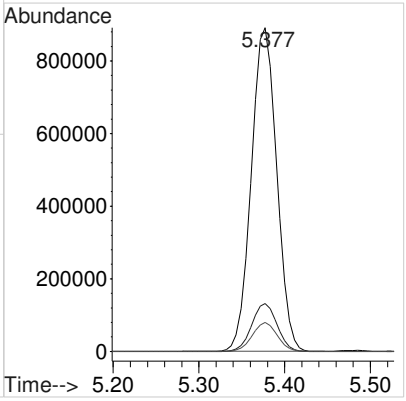


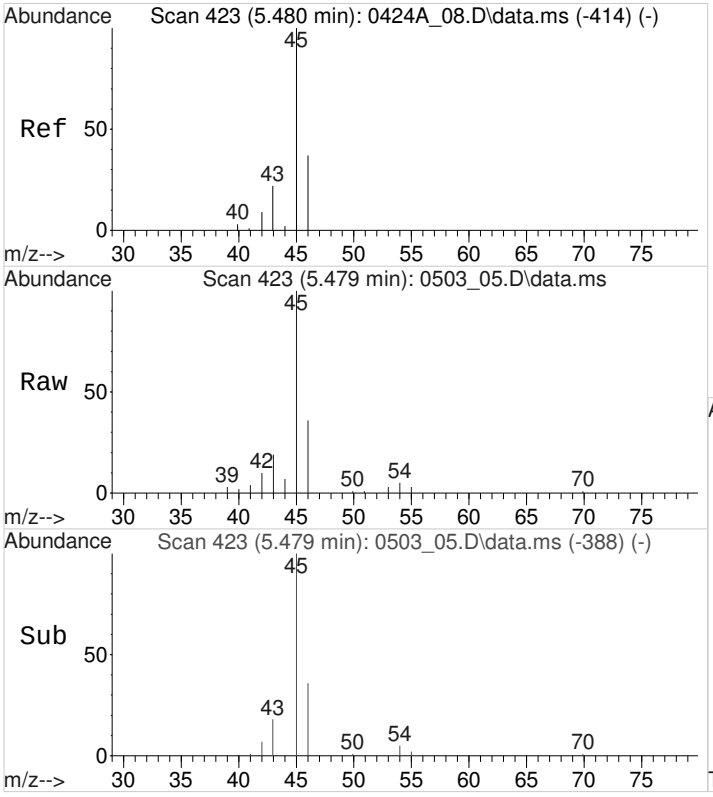


#19
PENTANE
Concen: 54.4402919 ppbv
RT: 5.377 min Scan# 405
Delta R.T. -0.006 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 43 Resp: 1838126

Ion	Ratio	Lower	Upper
43	100		
57	14.7	12.2	18.4
72	8.7	7.3	10.9

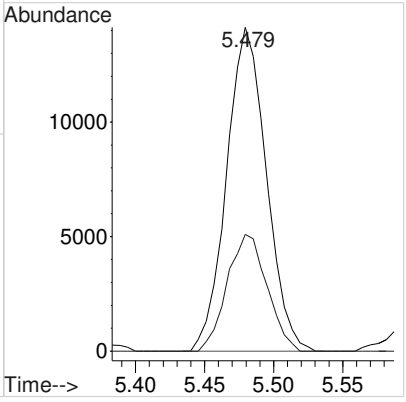


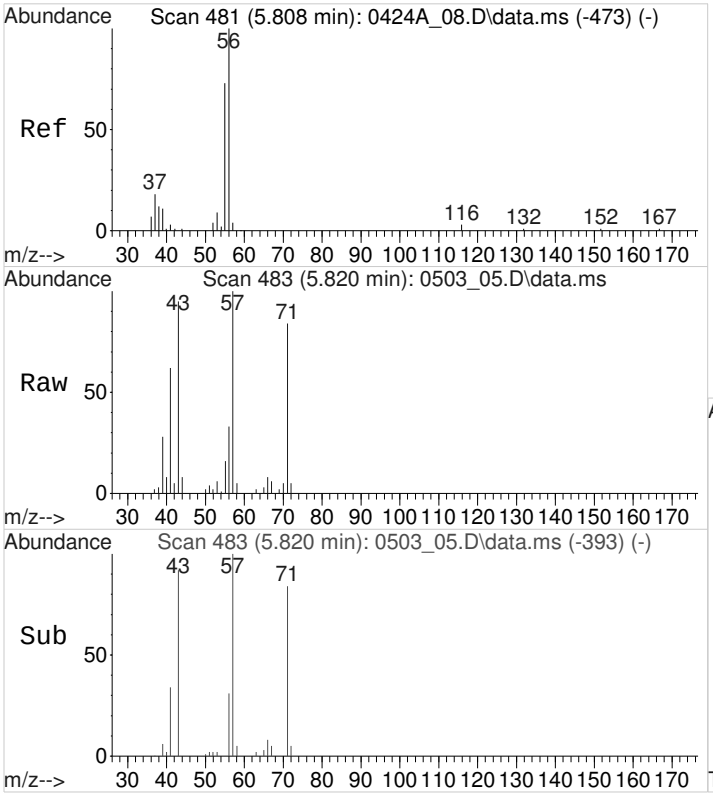


#20
Ethanol
Concen: 3.4146222 ppbv
RT: 5.479 min Scan# 423
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 45 Resp: 28298

Ion	Ratio	Lower	Upper
45	100		
46	36.1	29.1	43.7

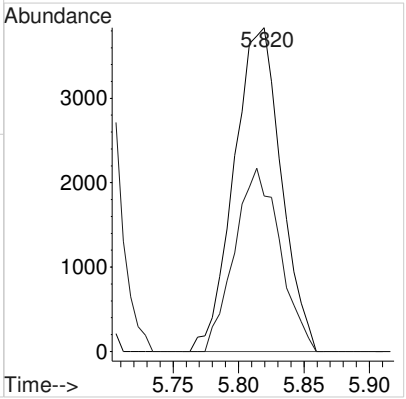


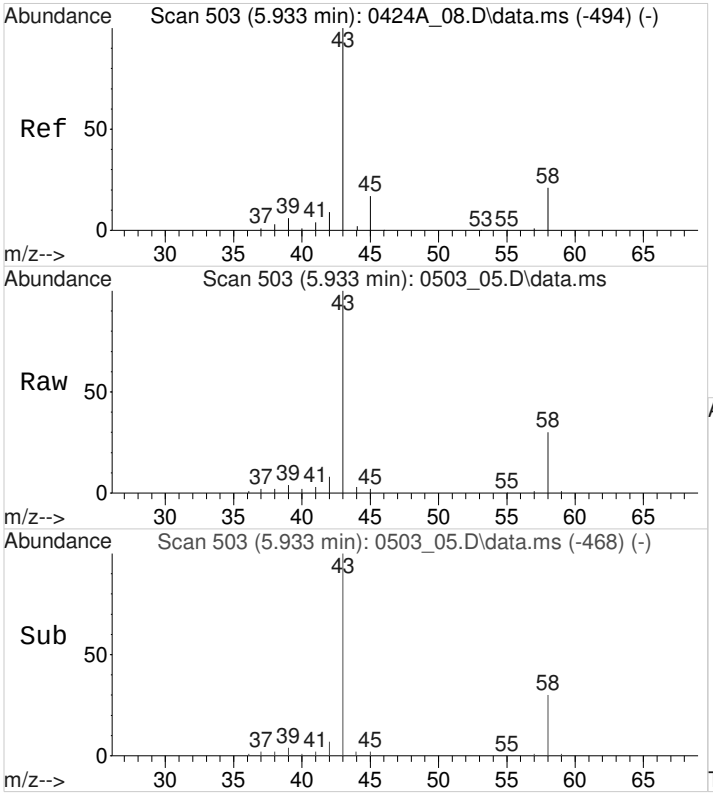


#21
ACROLEIN
Concen: 1.1297896 ppbv
RT: 5.820 min Scan# 483
Delta R.T. 0.011 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 56 Resp: 9638

Ion	Ratio	Lower	Upper
56	100		
55	54.5	59.8	89.6#

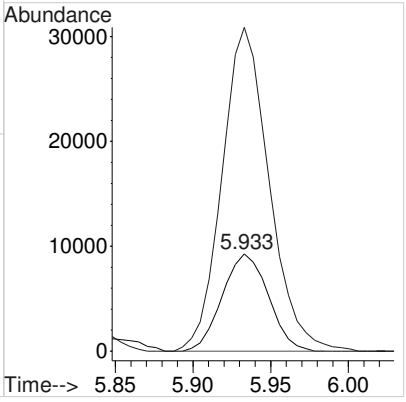


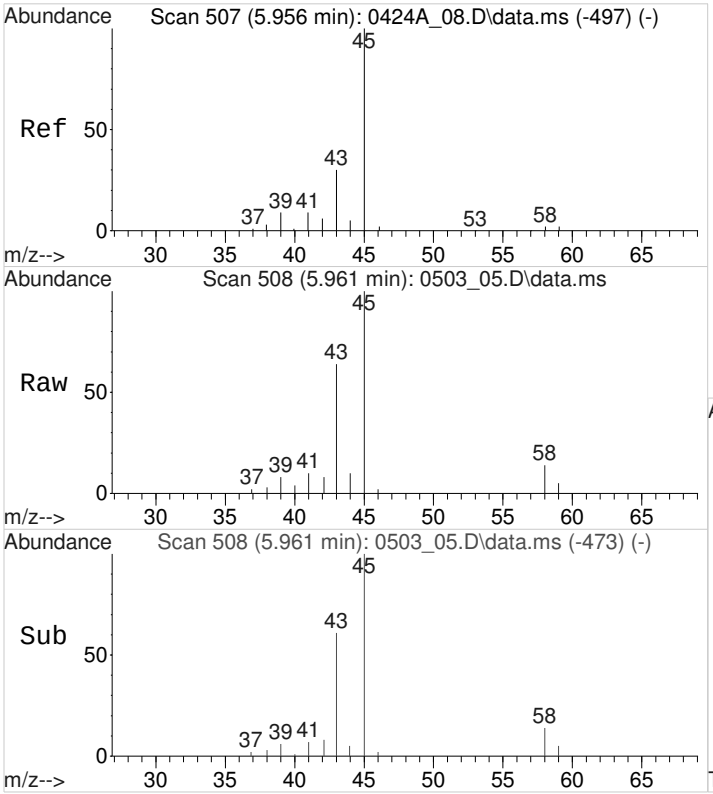


#24
Acetone
Concen: 1.9779487 ppbv
RT: 5.933 min Scan# 503
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 58 Resp: 19024

Ion	Ratio	Lower	Upper
58	100		
43	341.4	321.8	482.8

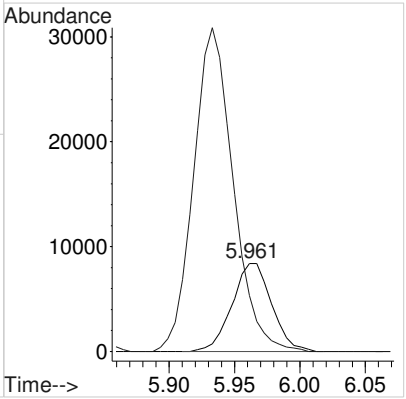


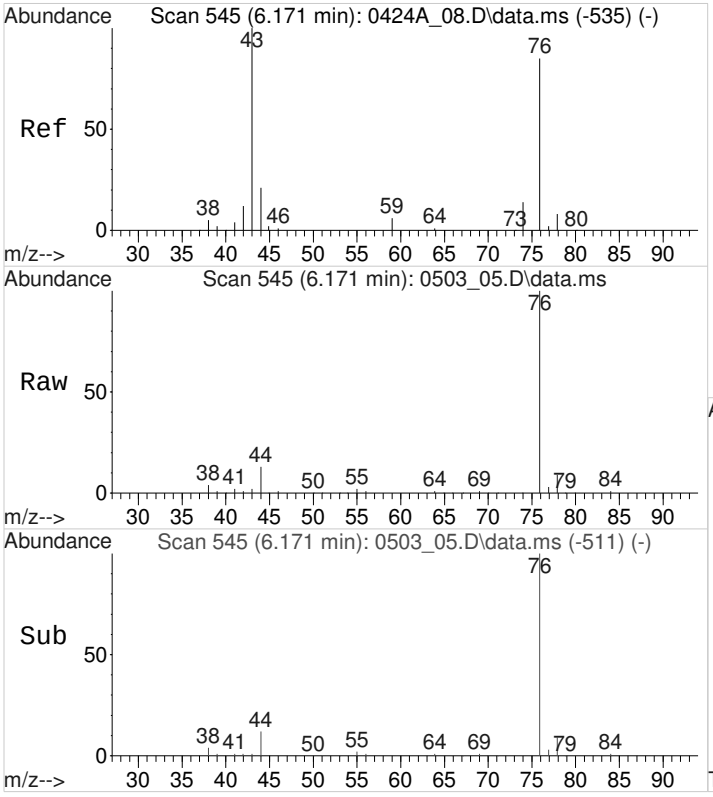


#26
2-Propanol
Concen: 0.4553711 ppbv
RT: 5.961 min Scan# 508
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 45 Resp: 17644

Ion	Ratio	Lower	Upper
45	100		
43	368.1	75.5	113.3#

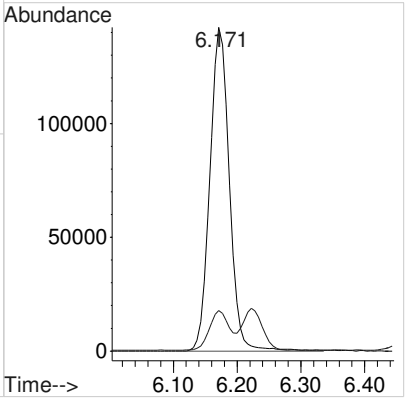


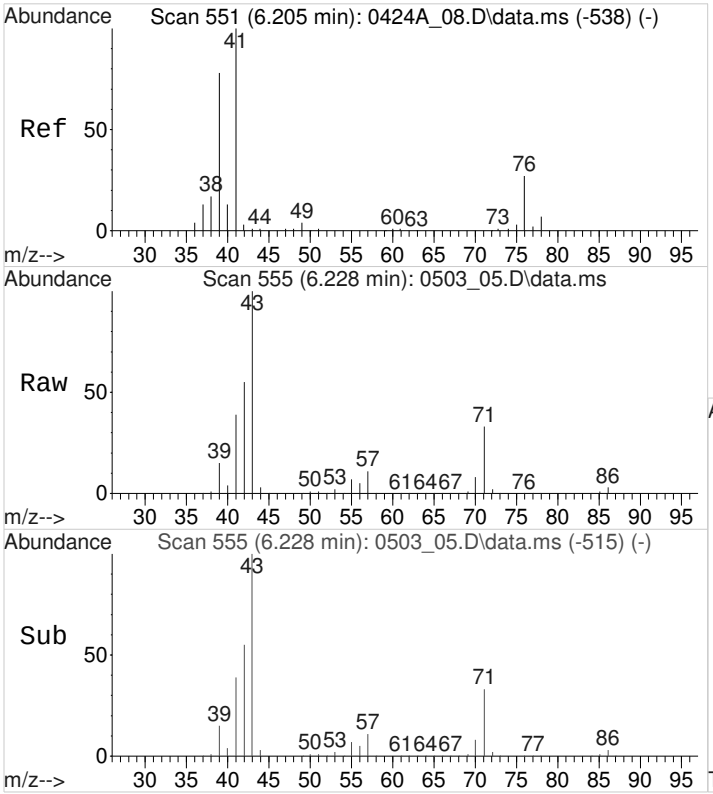


#27
Carbon Disulfide
Concen: 5.3659447 ppbv
RT: 6.171 min Scan# 545
Delta R.T. -0.006 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 76 Resp: 301829

Ion	Ratio	Lower	Upper
76	100		
44	13.0	10.5	15.7

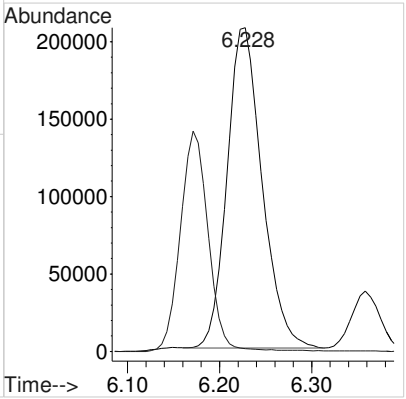


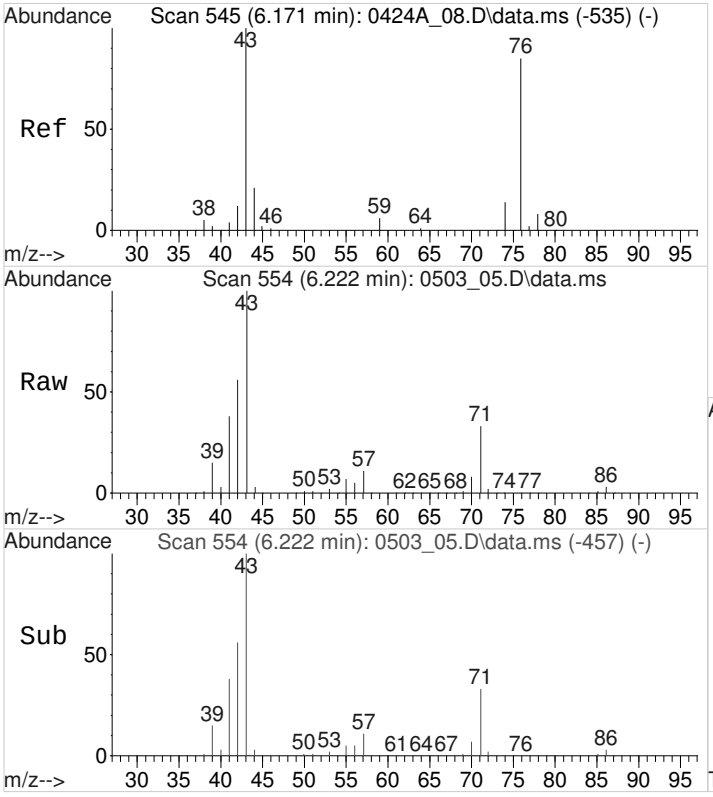


#28
Allyl Chloride
Concen: 20.9371429 ppbv
RT: 6.228 min Scan# 555
Delta R.T. 0.017 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 41 Resp: 545780

Ion	Ratio	Lower	Upper
41	100		
76	55.3	174.6	261.8#

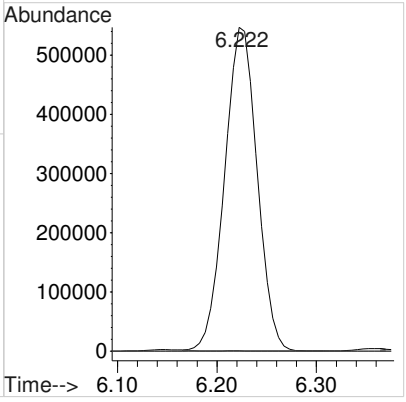


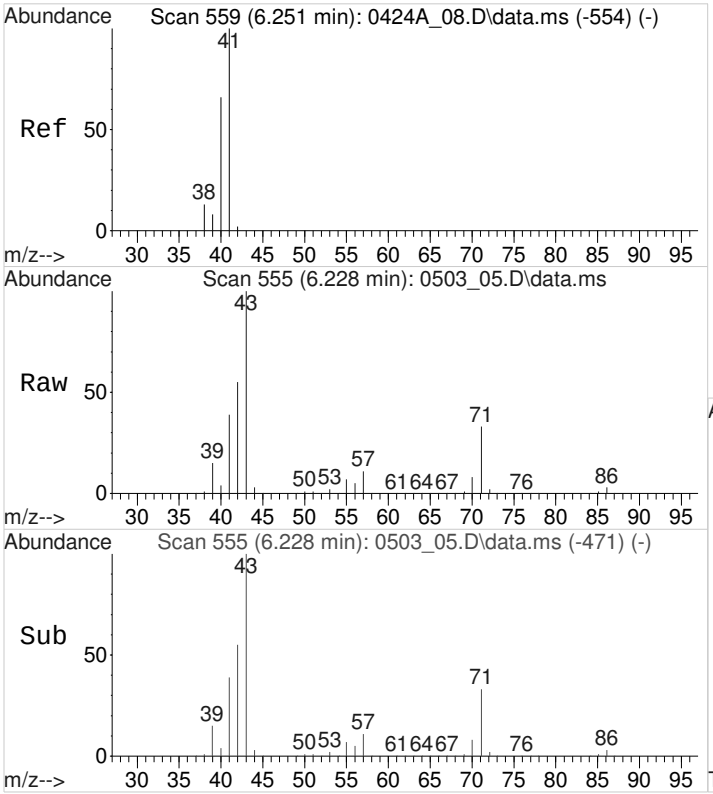


#29
METHYL ACETATE
Concen: 33.0200527 ppbv
RT: 6.222 min Scan# 554
Delta R.T. 0.051 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 43 Resp: 1240142

Ion	Ratio	Lower	Upper
43	100		
74	0.0	15.4	23.2#
29	0.0	0.0	0.0

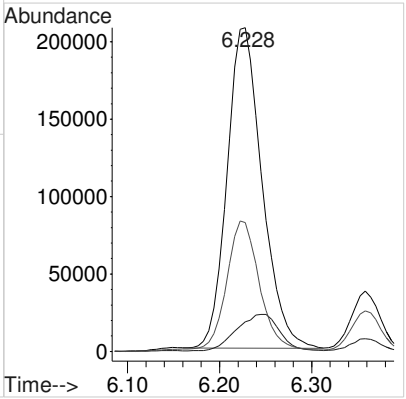


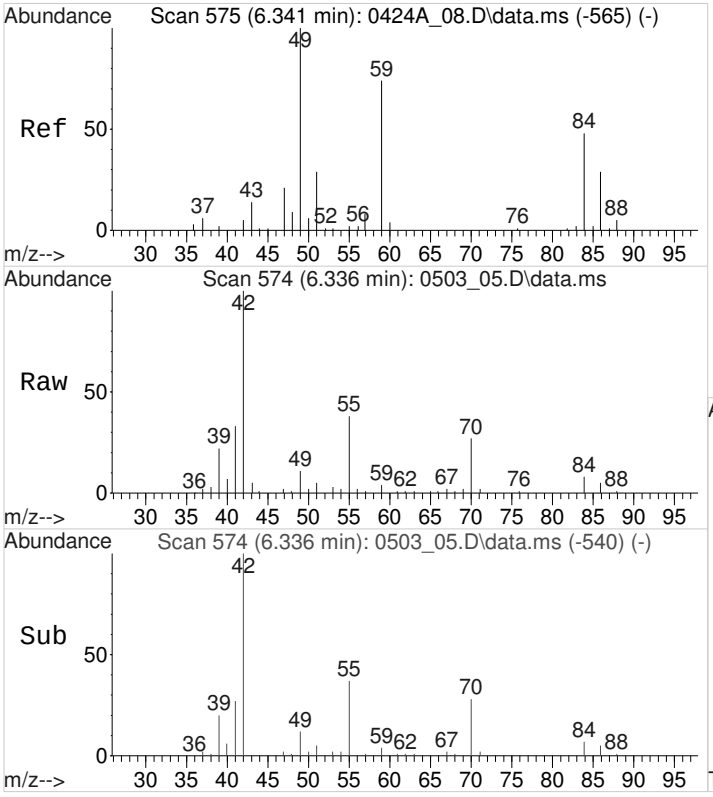


#30
ACETONITRILE
Concen: 30.5897904 ppbv
RT: 6.228 min Scan# 555
Delta R.T. -0.023 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 41 Resp: 546942

Ion	Ratio	Lower	Upper
41	100		
40	13.8	44.6	67.0#
39	39.4	13.6	20.4#

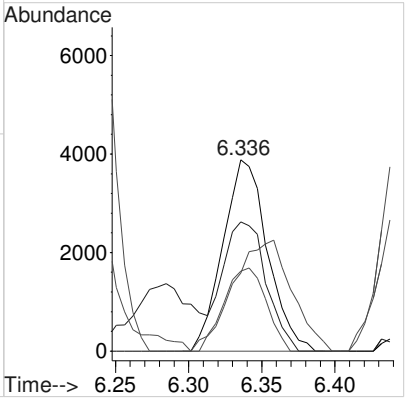


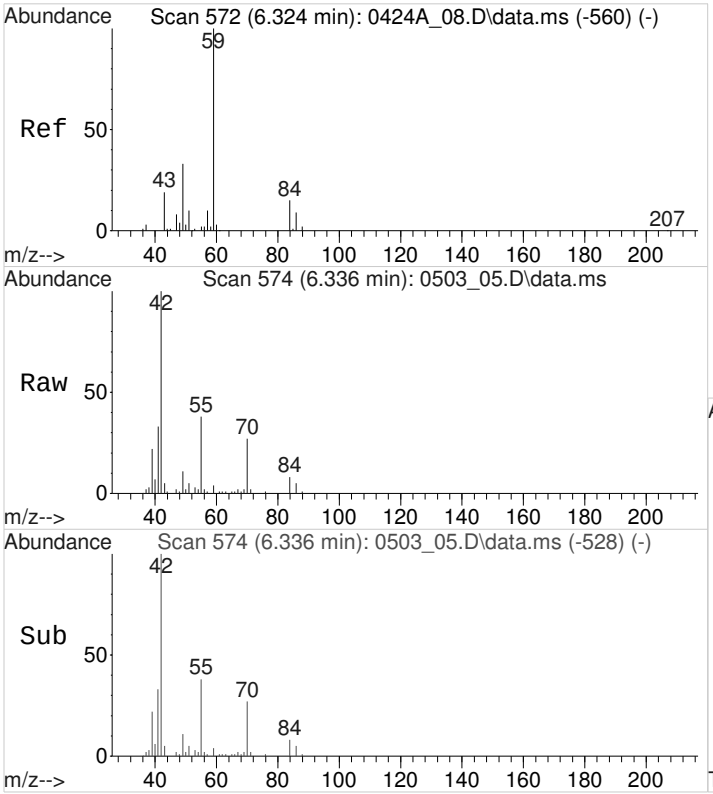


#31
Methylene Chloride
Concen: 0.3842834 ppbv
RT: 6.336 min Scan# 574
Delta R.T. -0.006 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 49 Resp: 8245

Ion	Ratio	Lower	Upper
49	100		
84	65.5	56.8	85.2
86	41.3	36.1	54.1
51	76.0	25.9	38.9#

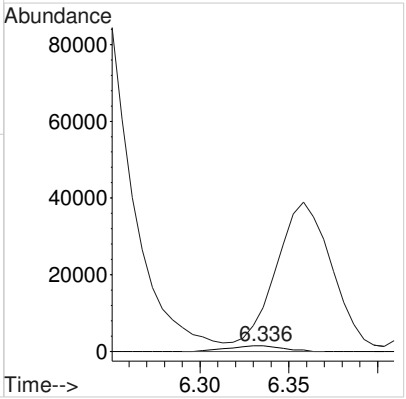


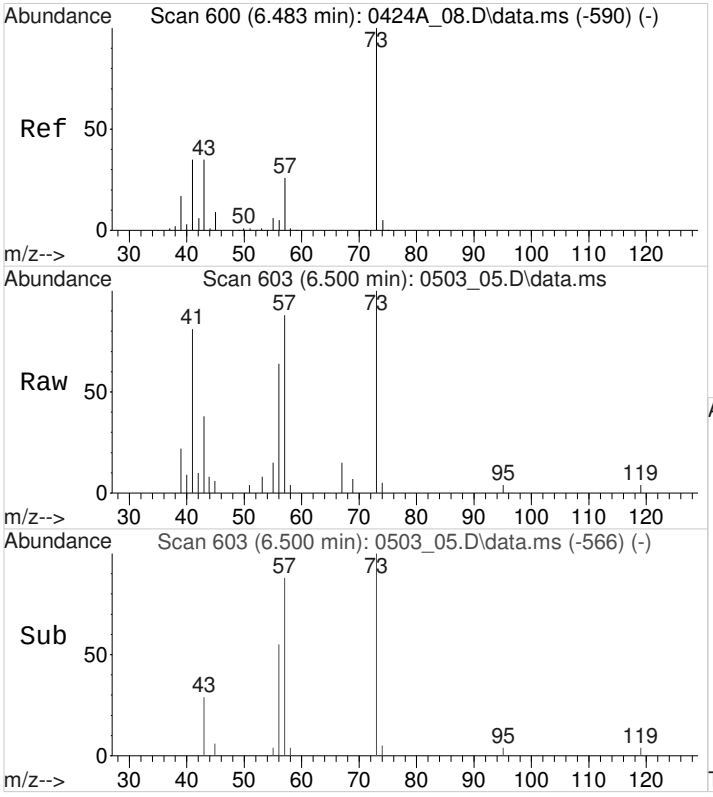


#32
TERT-BUTYL ALCOHOL
Concen: 0.0734767 ppbv
RT: 6.336 min Scan# 574
Delta R.T. 0.011 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 59 Resp: 3121

Ion	Ratio	Lower	Upper
59	100		
41	2600.6	22.2	33.4#

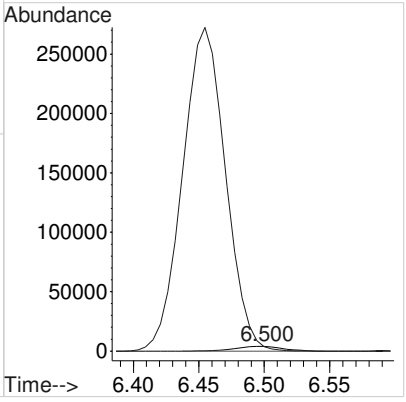


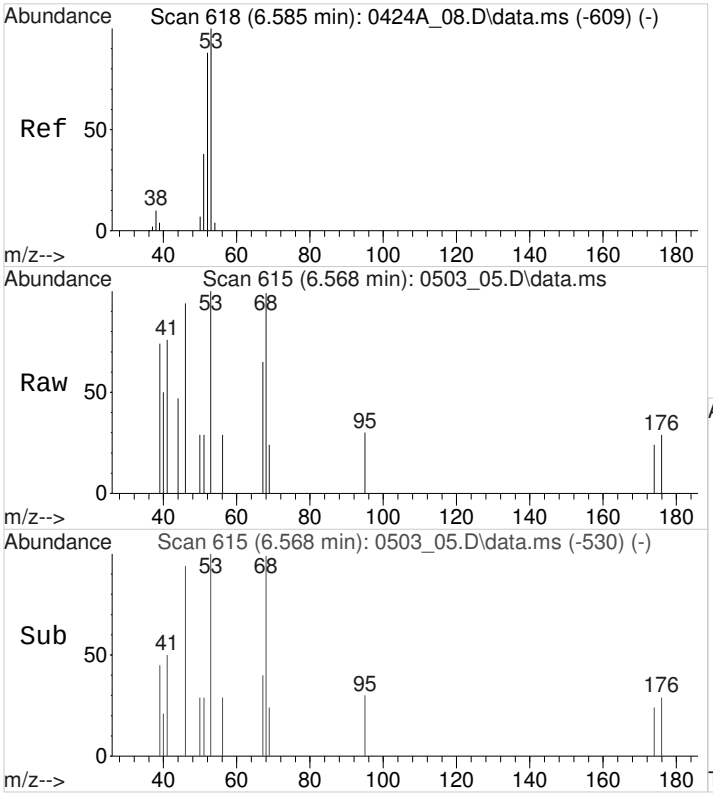


#33
Methyl Tert-Butyl Ether
Concen: 0.1883288 ppbv
RT: 6.500 min Scan# 603
Delta R.T. 0.011 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 73 Resp: 9681

Ion	Ratio	Lower	Upper
73	100		
57	6412.9	19.5	29.3#

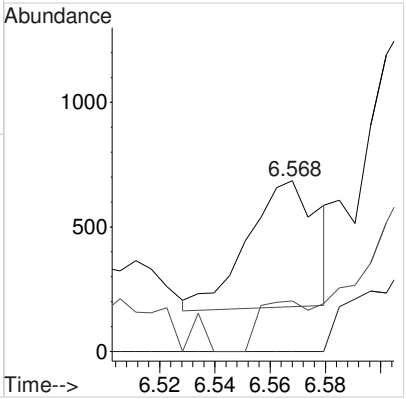


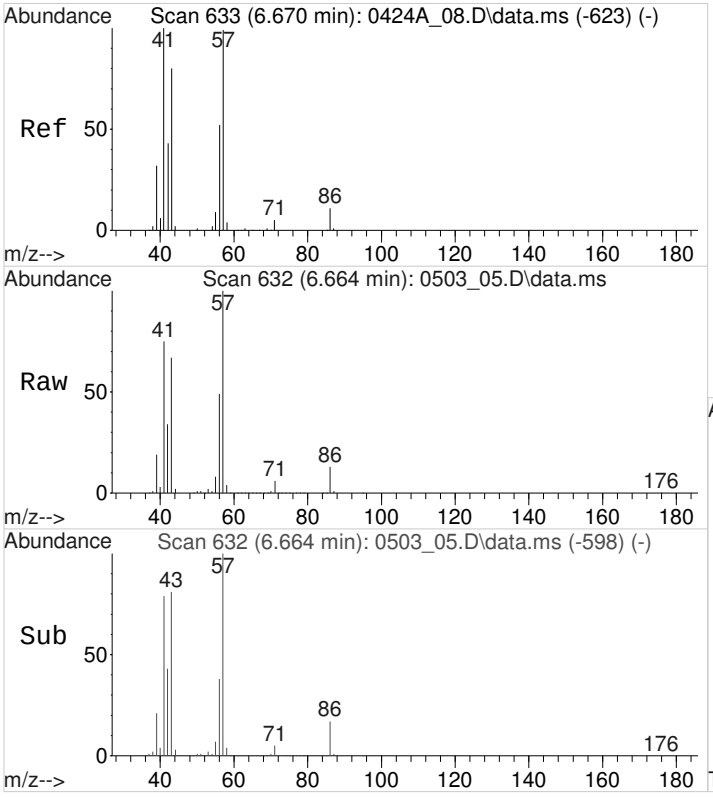


#35
ACRYLONITRILE
Concen: 0.0580469 ppbv
RT: 6.568 min Scan# 615
Delta R.T. -0.017 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 53 Resp: 906

Ion	Ratio	Lower	Upper
53	100		
52	0.0	67.5	101.3#
51	0.0	29.0	43.6#

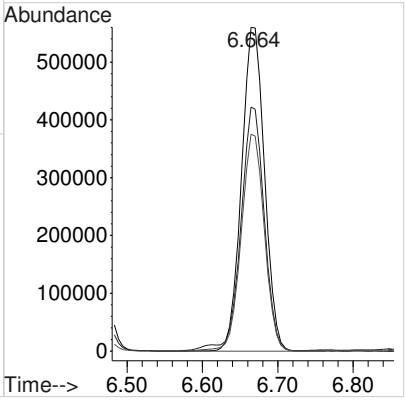


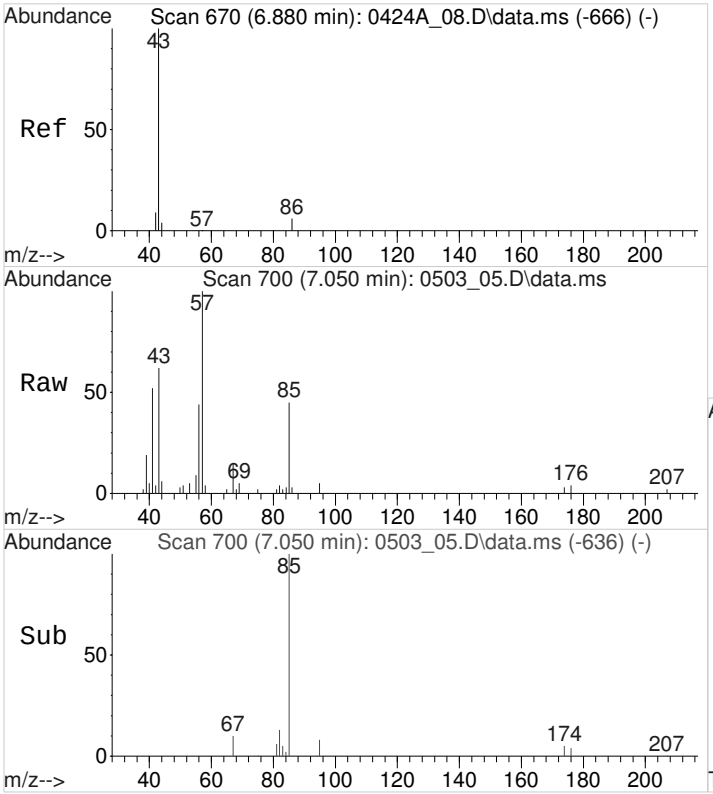


#36
n-Hexane
Concen: 38.0524150 ppbv
RT: 6.664 min Scan# 632
Delta R.T. -0.006 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 57 Resp: 1182190

Ion	Ratio	Lower	Upper
57	100		
41	76.6	60.3	90.5
43	67.7	53.7	80.5

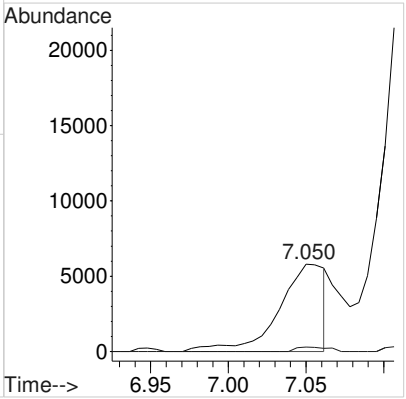


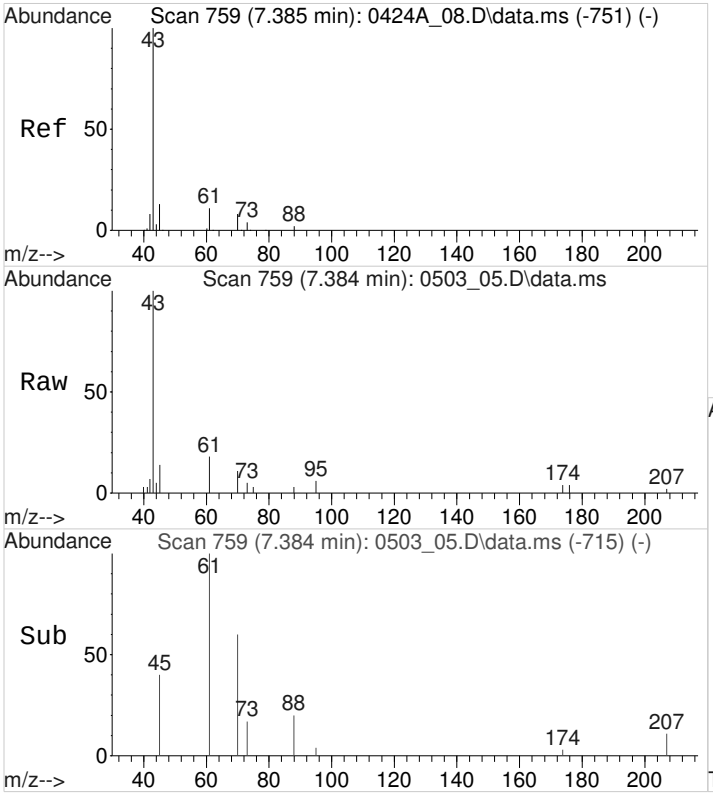


#38
Vinyl Acetate
Concen: 0.2049433 ppbv
RT: 7.050 min Scan# 700
Delta R.T. 0.165 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 43 Resp: 11919

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.3	9.5#

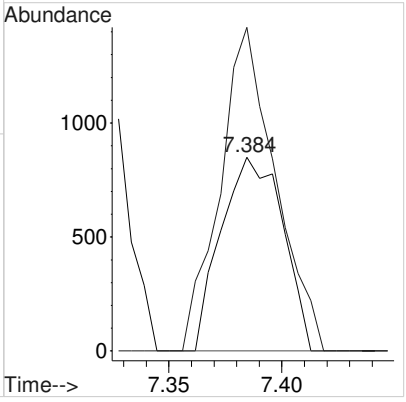


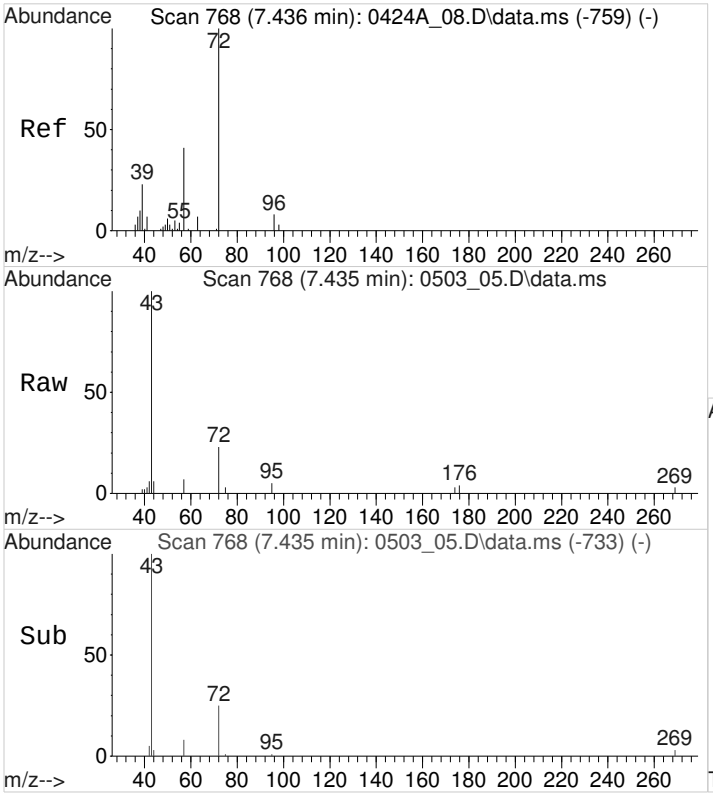


#41
ETHYL ACETATE
Concen: 0.3264069 ppbv
RT: 7.384 min Scan# 759
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 70 Resp: 1613

Ion	Ratio	Lower	Upper
70	100		
61	150.2	109.8	164.6

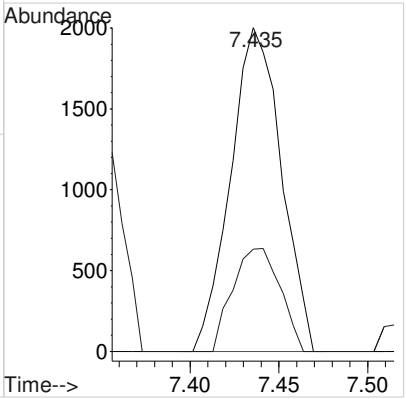


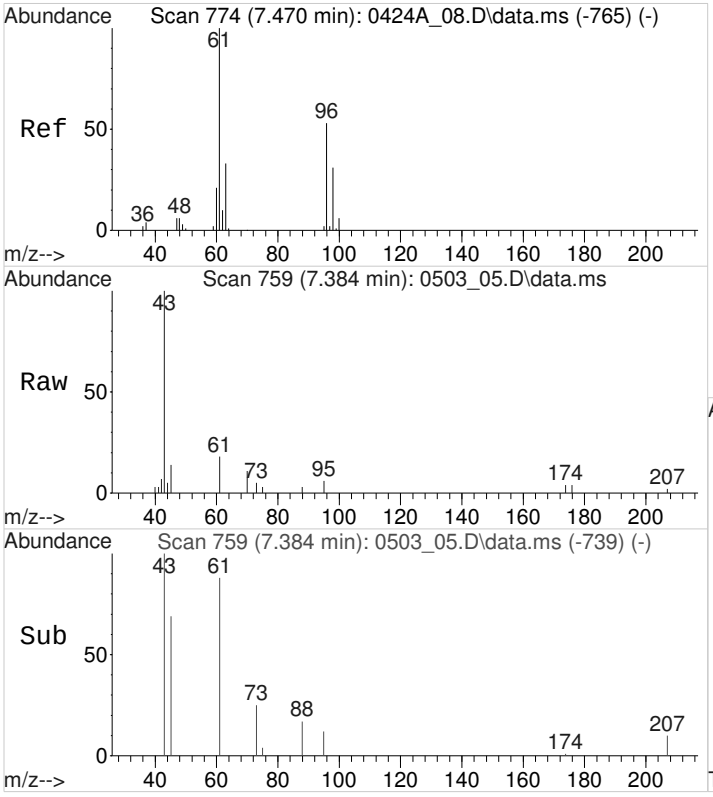


#42
2-Butanone (MEK)
Concen: 0.4107498 ppbv
RT: 7.435 min Scan# 768
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 72 Resp: 3981

Ion	Ratio	Lower	Upper
72	100		
57	0.0	27.4	41.0#

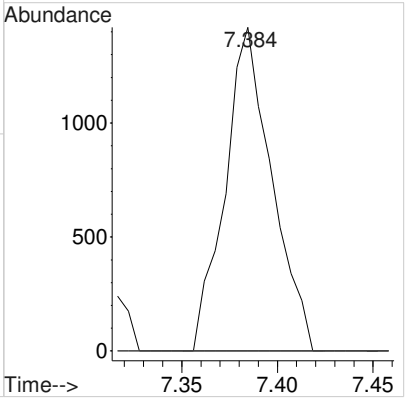


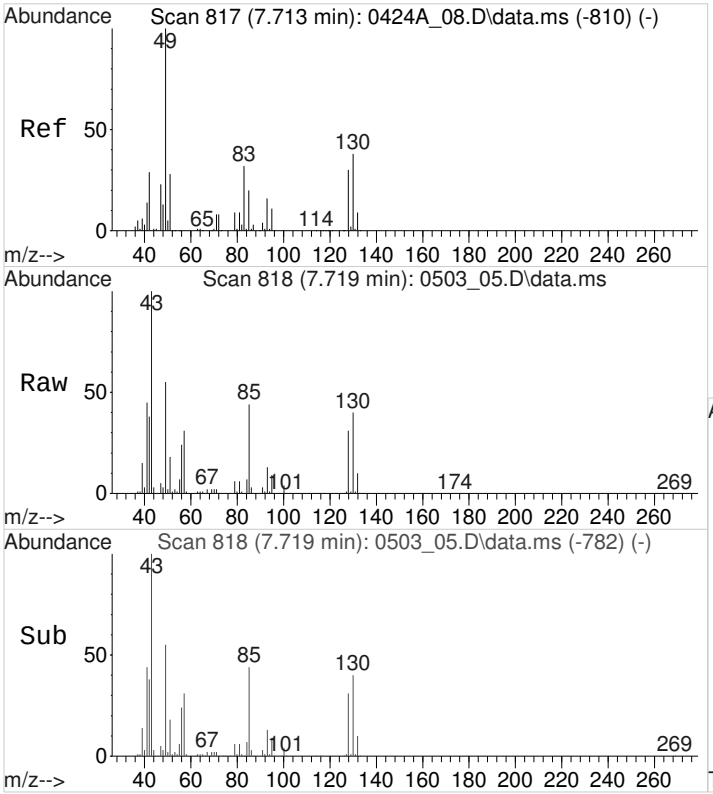


#43
cis-1,2-Dichloroethene
Concen: 0.0977975 ppbv
RT: 7.384 min Scan# 759
Delta R.T. -0.085 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 61 Resp: 2422

Ion	Ratio	Lower	Upper
61	100		
96	0.0	55.9	83.9#
98	0.0	35.5	53.3#

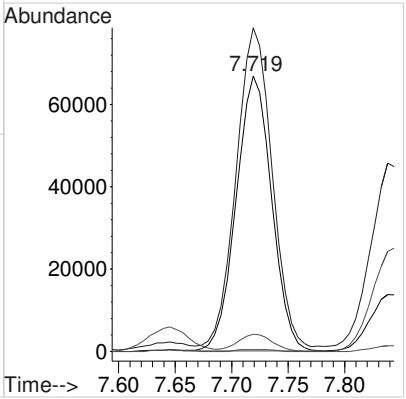


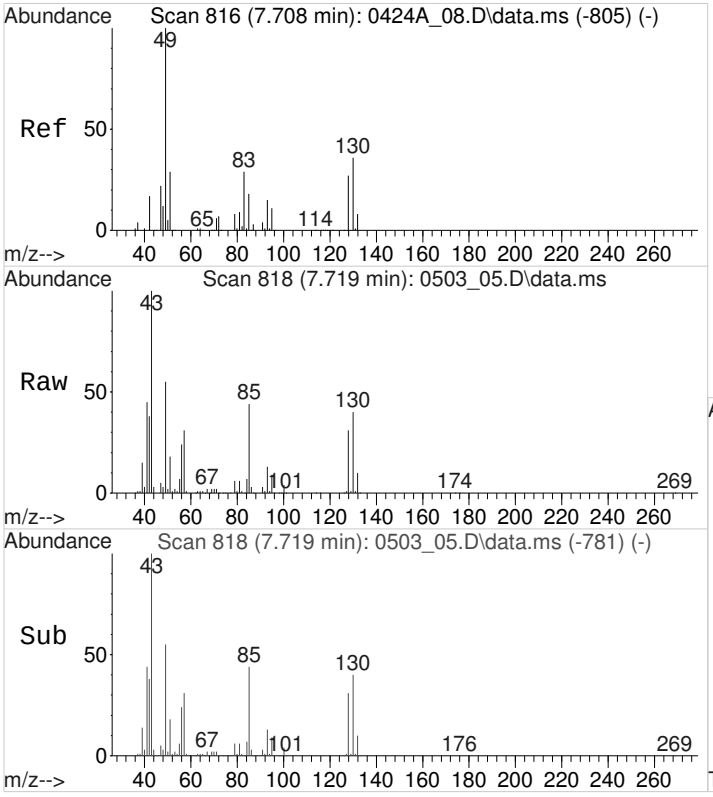


#44
Tetrahydrofuran
Concen: 5.9209185 ppbv
RT: 7.719 min Scan# 818
Delta R.T. 0.006 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 42 Resp: 144752

Ion	Ratio	Lower	Upper
42	100		
41	120.3	42.2	63.2#
72	0.7	30.1	45.1#
71	6.2	29.9	44.9#

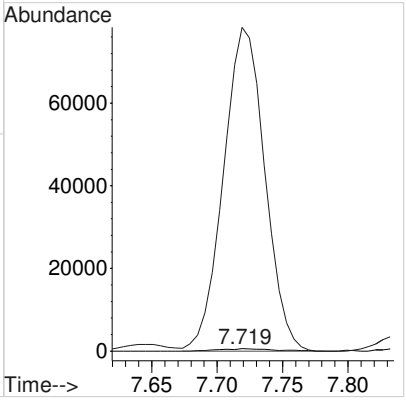


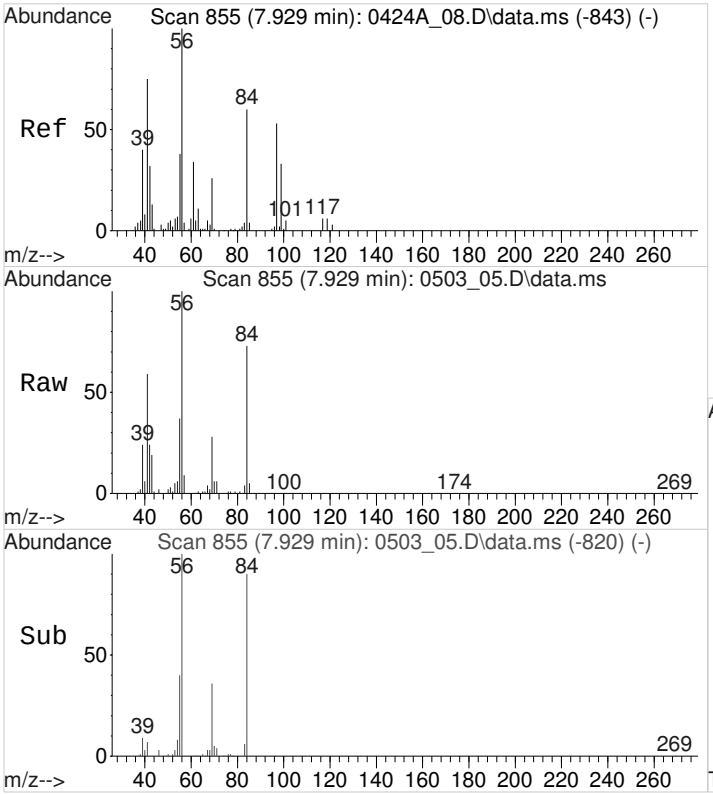


#45
Chloroform
Concen: 0.0467026 ppbv
RT: 7.719 min Scan# 818
Delta R.T. 0.011 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 83 Resp: 1678

Ion	Ratio	Lower	Upper
83	100		
85	10287.1	51.1	76.7#

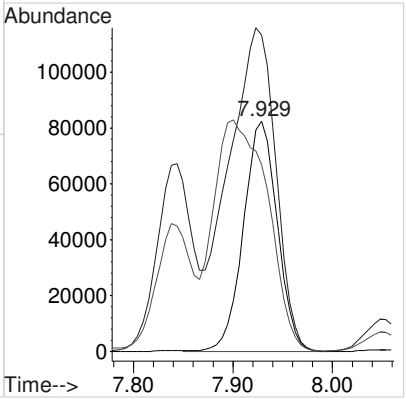


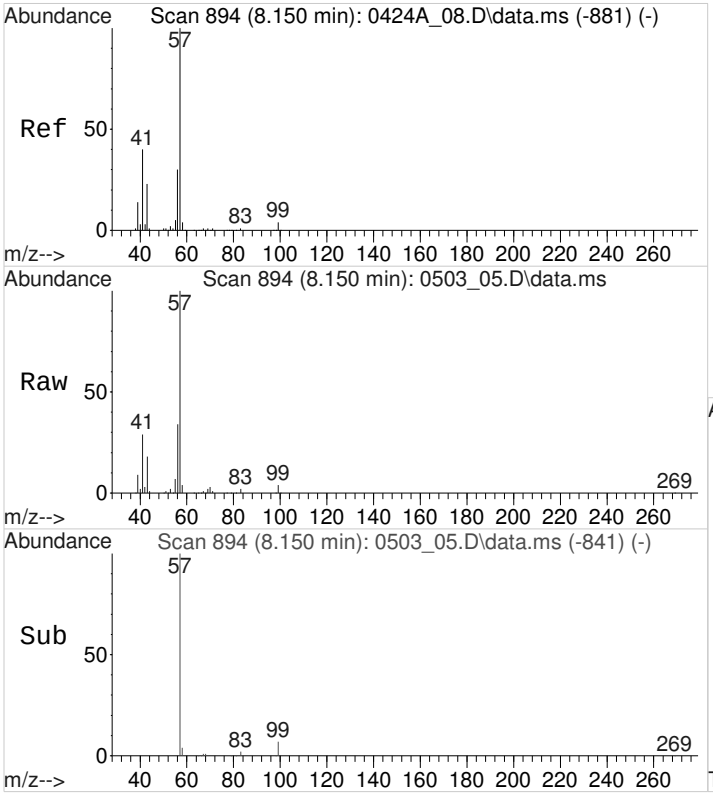


#46
Cyclohexane
Concen: 7.9791889 ppbv
RT: 7.929 min Scan# 855
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 84 Resp: 195583

Ion	Ratio	Lower	Upper
84	100		
56	196.8	107.1	160.7#
41	158.5	61.1	91.7#

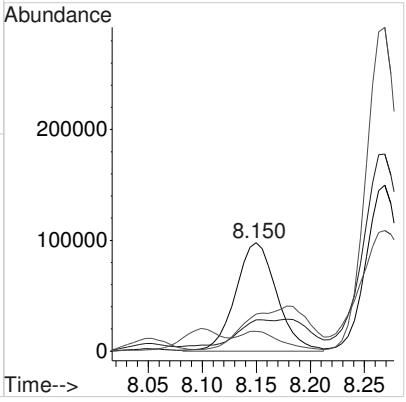


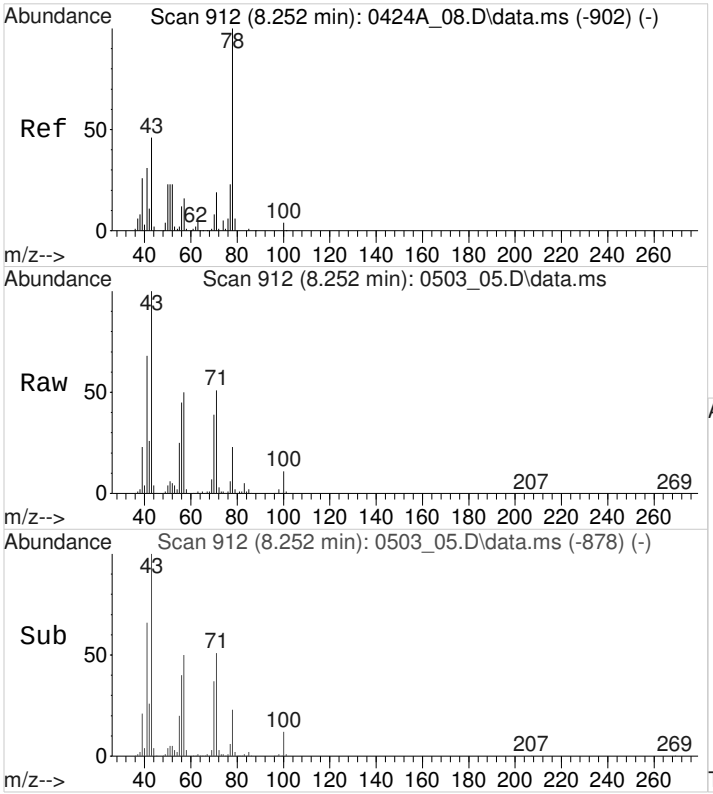


#49
2,2,4-Trimethylpentane
Concen: 2.5836931 ppbv
RT: 8.150 min Scan# 894
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 57 Resp: 259989

Ion	Ratio	Lower	Upper
57	100		
41	22.1	21.6	32.4
43	18.7	15.1	22.7
56	62.9	24.8	37.2#

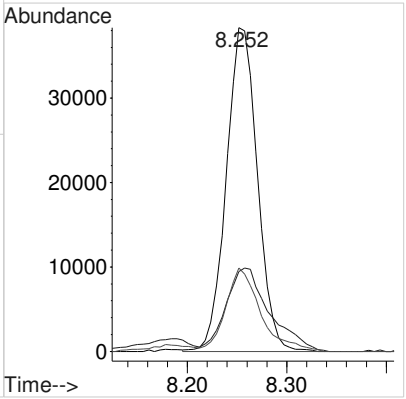


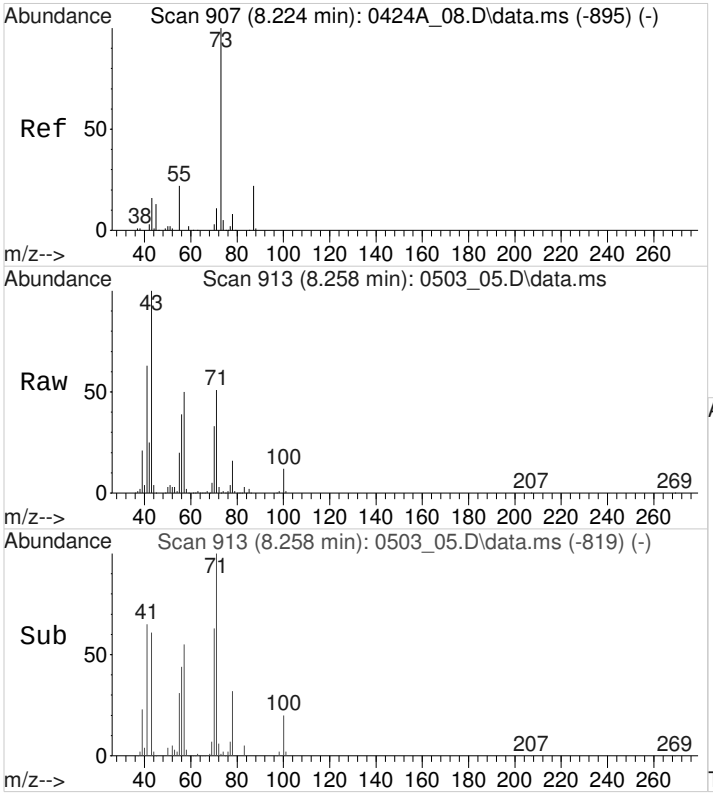


#51
Benzene
Concen: 1.4195320 ppbv
RT: 8.252 min Scan# 912
Delta R.T. -0.006 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 78 Resp: 83431

Ion	Ratio	Lower	Upper
78	100		
51	36.0	15.1	22.7#
77	28.8	18.9	28.3#

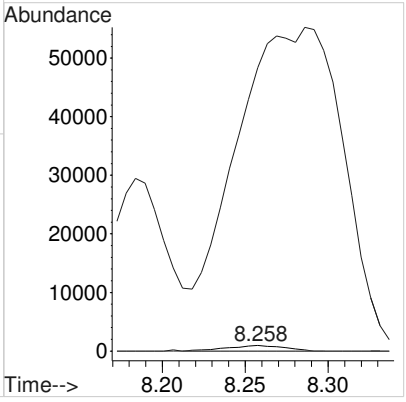


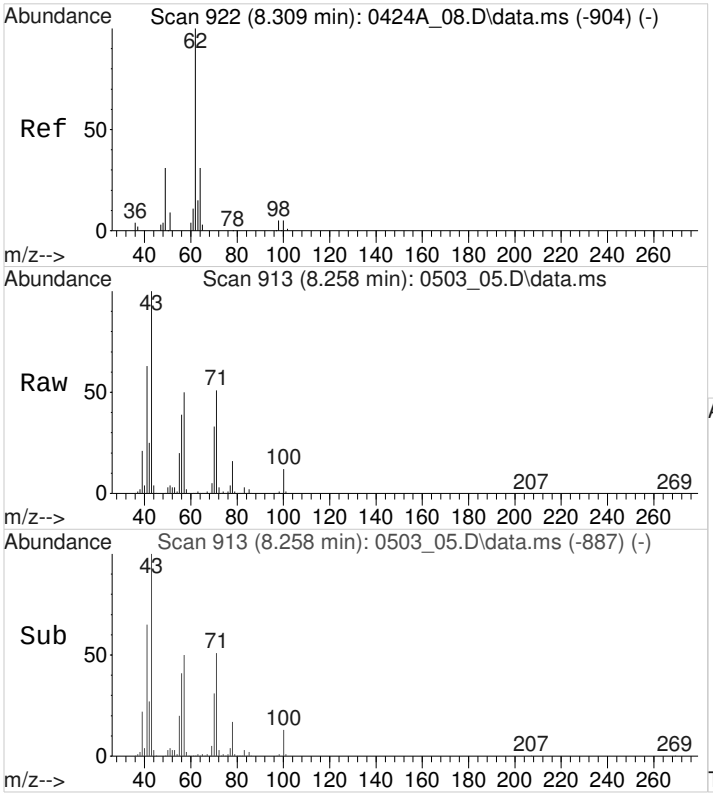


#52
TERT-AMYL METHYL ETHER
Concen: 0.0414089 ppbv
RT: 8.258 min Scan# 913
Delta R.T. 0.034 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 73 Resp: 2322

Ion	Ratio	Lower	Upper
73	100		
55	10710.1	20.8	31.2#
87	0.0	18.0	27.0#

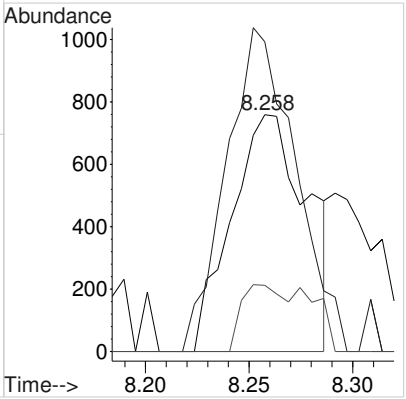


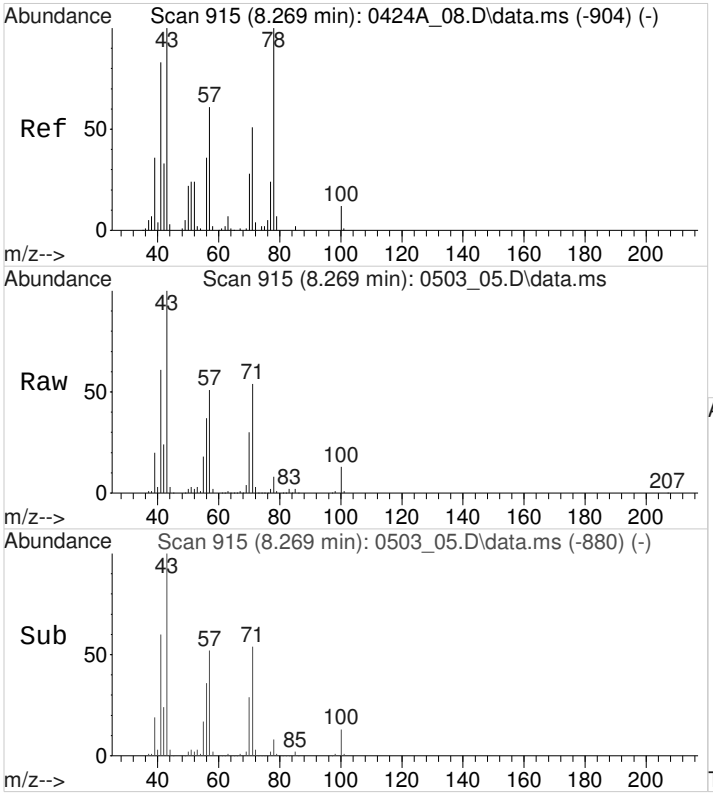


#53
1,2-Dichloroethane
Concen: 0.0813901 ppbv
RT: 8.258 min Scan# 913
Delta R.T. -0.051 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 62 Resp: 1922

Ion	Ratio	Lower	Upper
62	100		
49	125.9	24.9	37.3#
64	16.5	25.3	37.9#

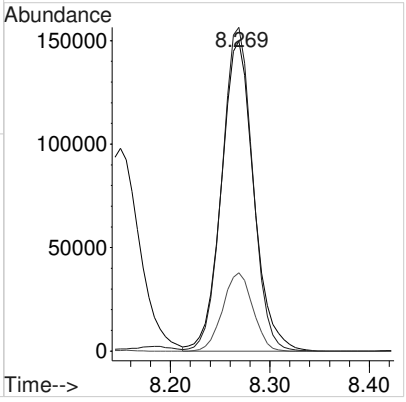


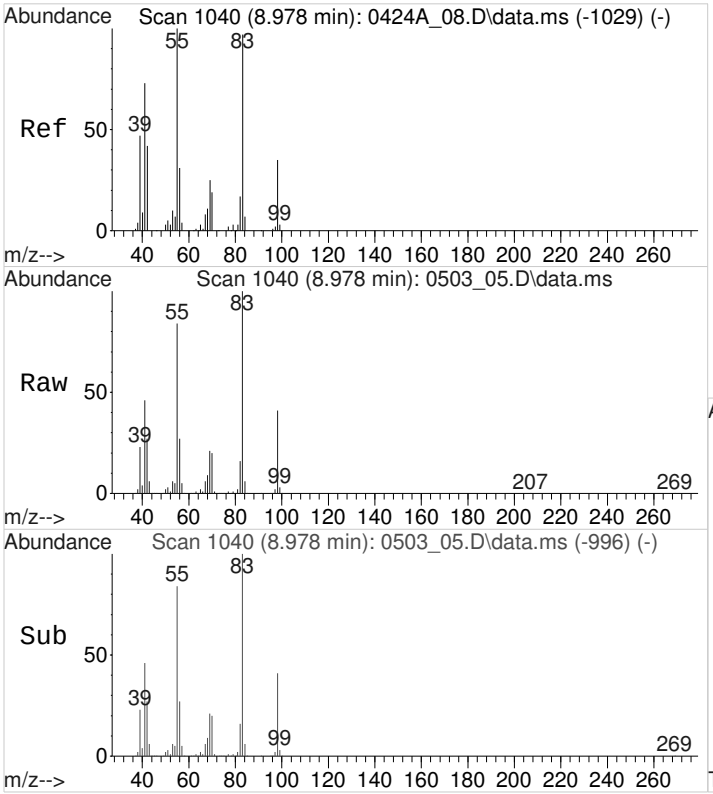


#54
Heptane
Concen: 16.5600038 ppbv
RT: 8.269 min Scan# 915
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 57 Resp: 338463

Ion	Ratio	Lower	Upper
57	100		
71	99.1	83.4	125.0
100	23.4	24.5	36.7#

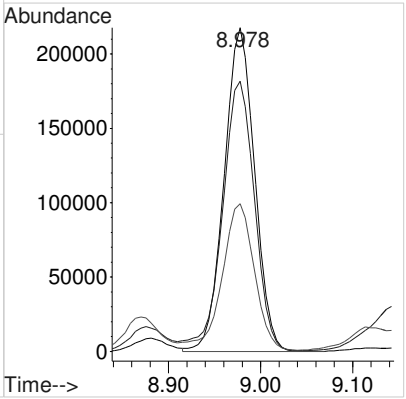


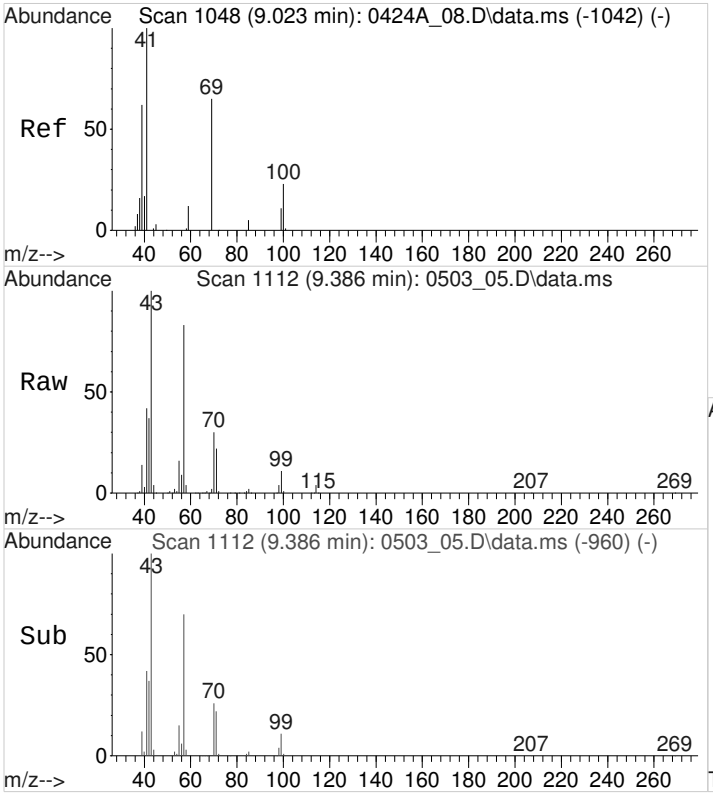


#57
METHYL CYCLOHEXANE
Concen: 14.6304301 ppbv
RT: 8.978 min Scan# 1040
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 83 Resp: 499978

Ion	Ratio	Lower	Upper
83	100		
55	87.7	73.4	110.0
41	48.7	35.3	52.9

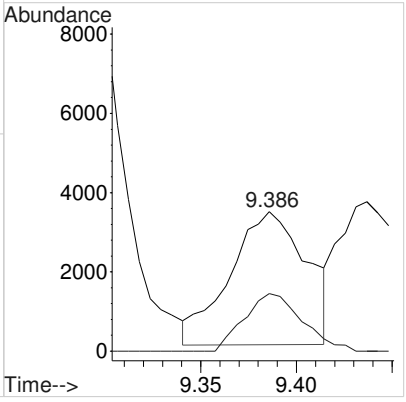


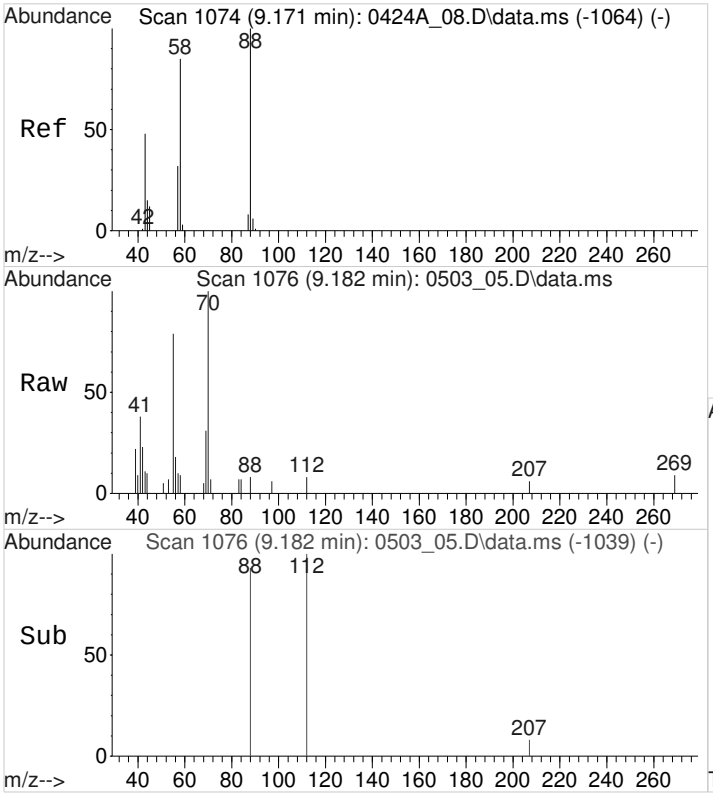


#59
Methyl Methacrylate
Concen: 0.4274517 ppbv
RT: 9.386 min Scan# 1112
Delta R.T. 0.363 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 69 Resp: 9363

Ion	Ratio	Lower	Upper
69	100		
100	32.7	27.3	40.9

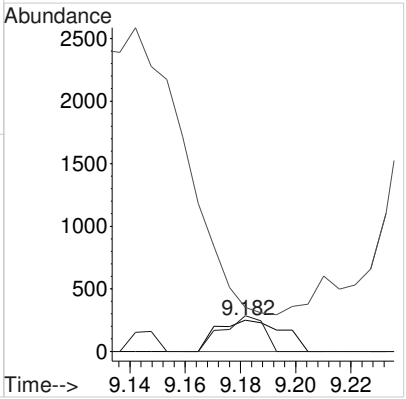


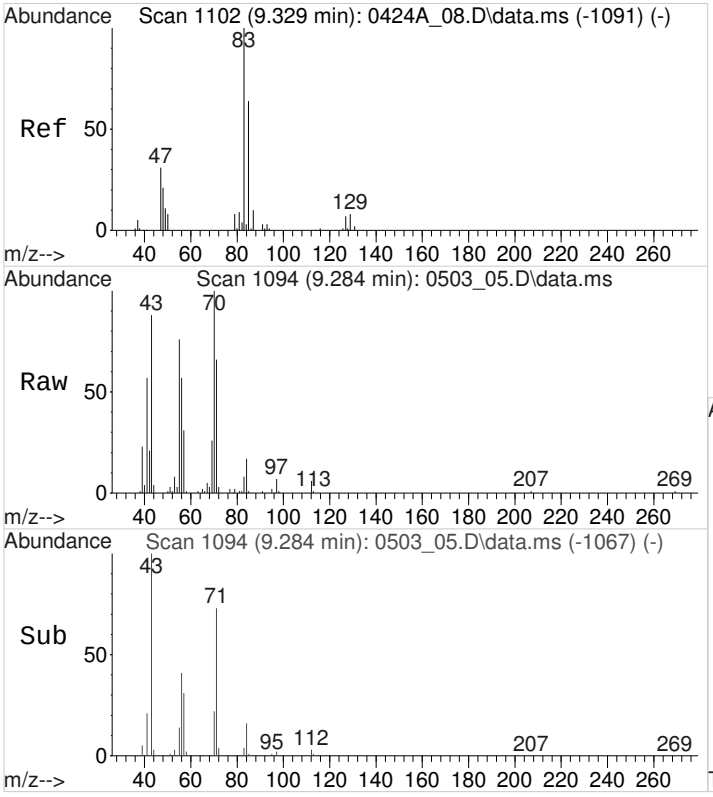


#60
1,4-Dioxane
Concen: 0.0305824 ppbv
RT: 9.182 min Scan# 1076
Delta R.T. 0.011 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 88 Resp: 415

Ion	Ratio	Lower	Upper
88	100		
58	71.6	59.5	89.3
43	0.0	25.0	37.6#

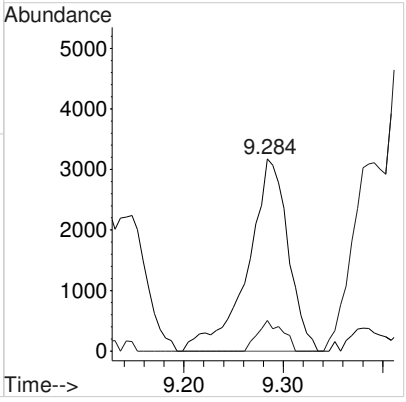


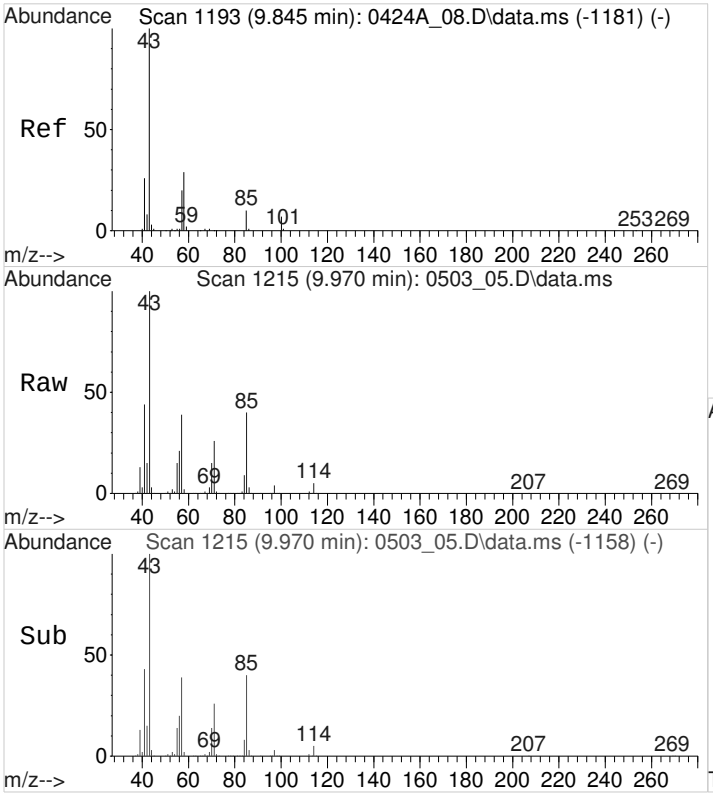


#61
Bromodichloromethane
Concen: 0.2501947 ppbv
RT: 9.284 min Scan# 1094
Delta R.T. -0.045 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 83 Resp: 8920

Ion	Ratio	Lower	Upper
83	100		
85	0.0	50.4	75.6#

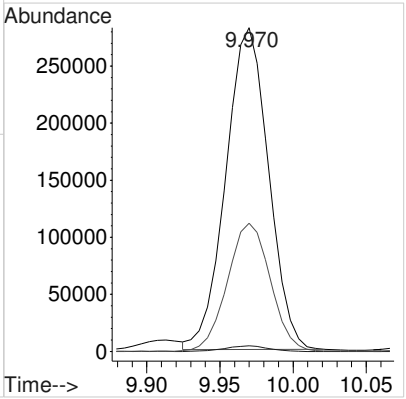


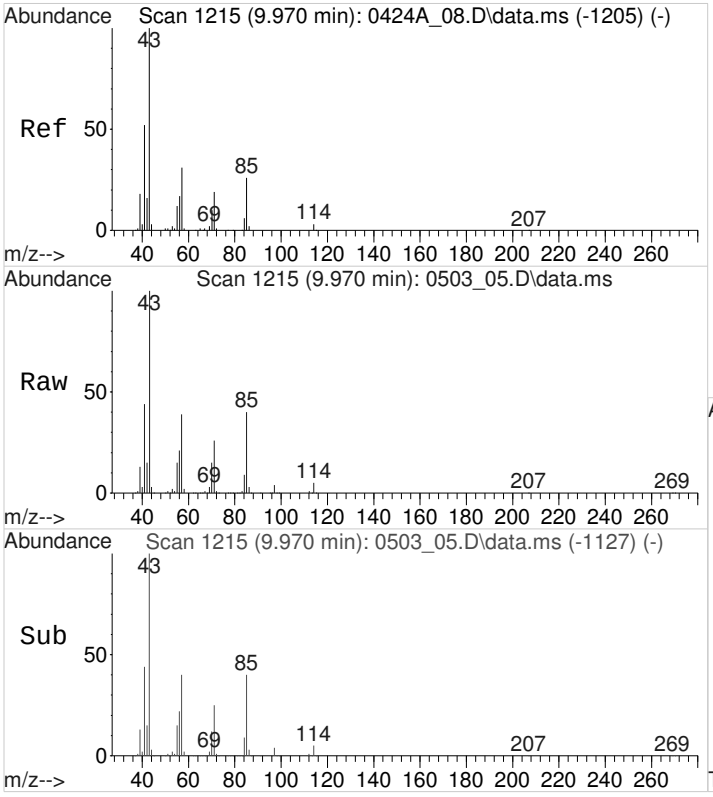


#63
4-Methyl-2-Pentanone (MIBK)
Concen: 11.2764424 ppbv
RT: 9.970 min Scan# 1215
Delta R.T. 0.125 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 43 Resp: 574769

Ion	Ratio	Lower	Upper
43	100		
58	1.8	29.4	44.2#
85	39.7	12.2	18.2#

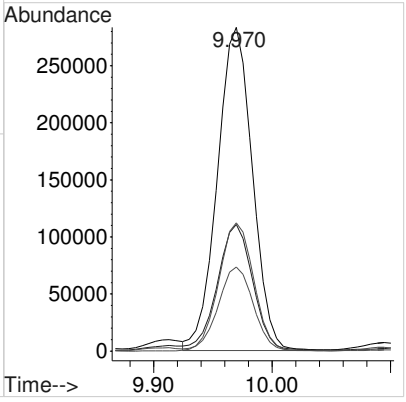


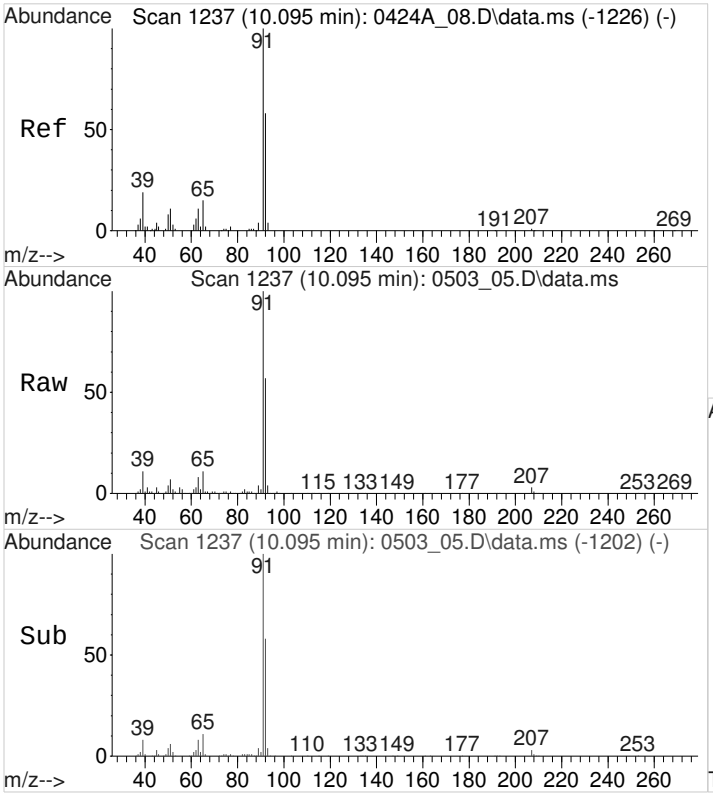


#64
n-OCTANE
Concen: 10.6286295 ppbv
RT: 9.970 min Scan# 1215
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 43 Resp: 582990

Ion	Ratio	Lower	Upper
43	100		
57	39.6	30.5	45.7
85	39.3	31.7	47.5
71	26.0	20.6	30.8

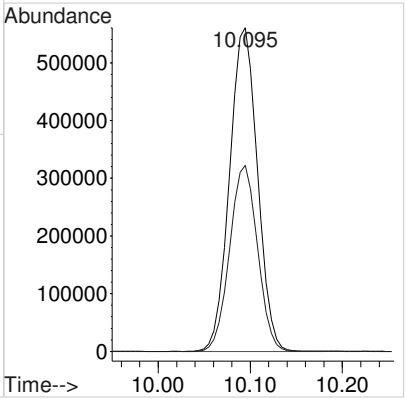


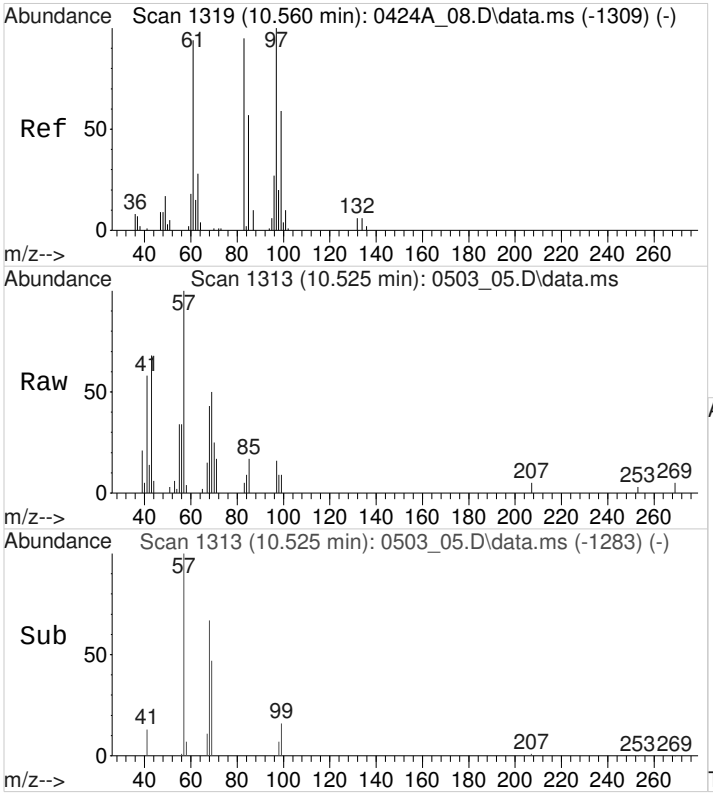


#65
Toluene
Concen: 15.9859417 ppbv
RT: 10.095 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 91 Resp: 1179565

Ion	Ratio	Lower	Upper
91	100		
92	57.4	45.7	68.5

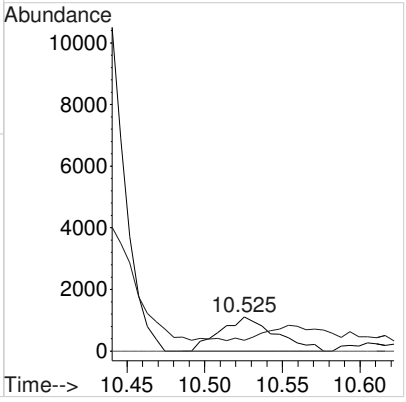


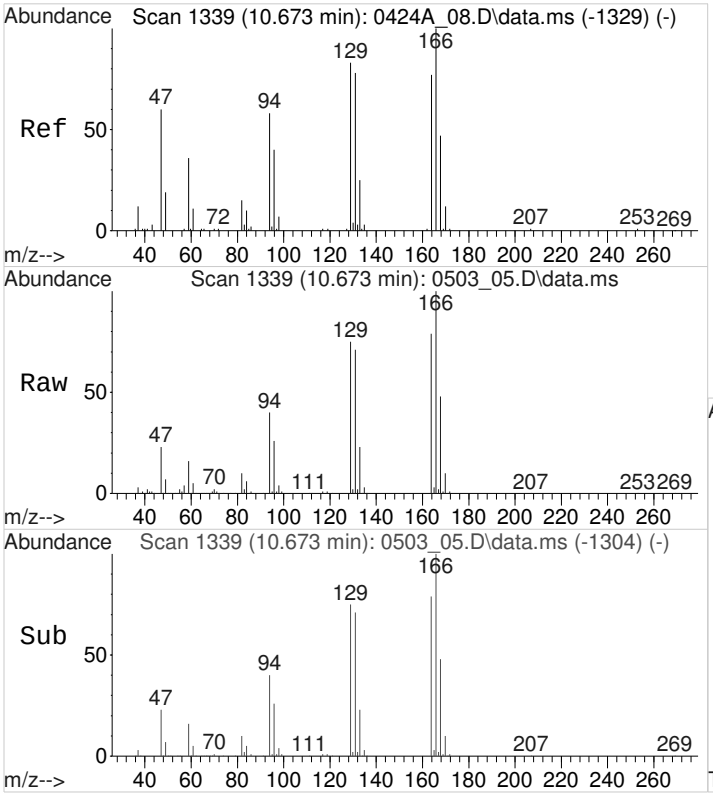


#67
1,1,2-Trichloroethane
Concen: 0.1280767 ppbv
RT: 10.525 min Scan# 1313
Delta R.T. -0.028 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 97 Resp: 2749

Ion	Ratio	Lower	Upper
97	100		
83	43.6	71.9	107.9#
61	0.0	49.0	73.4#

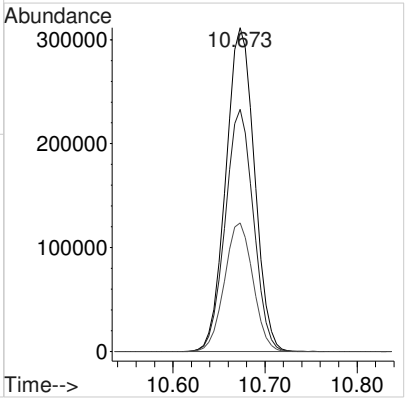


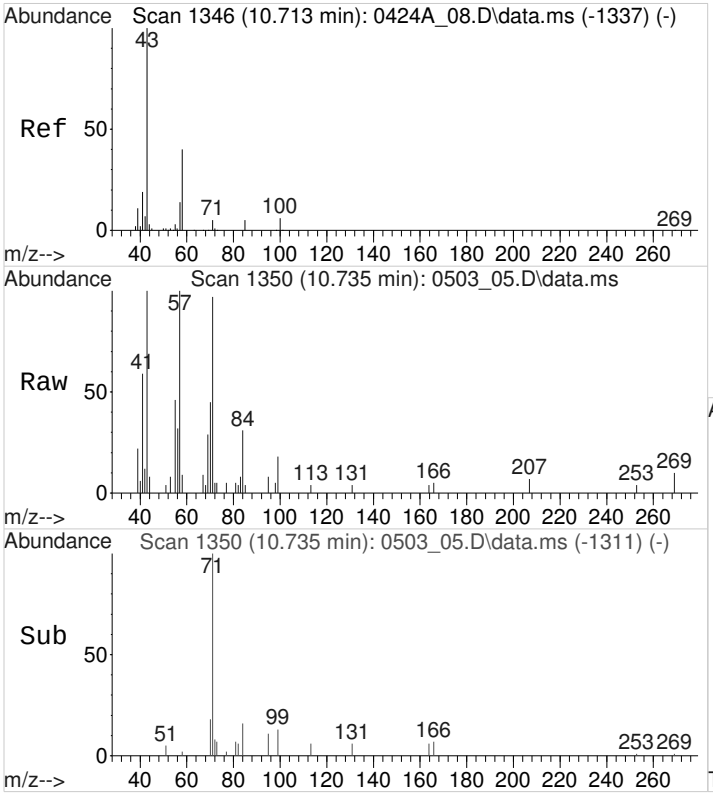


#68
Tetrachloroethene
Concen: 21.6254701 ppbv
RT: 10.673 min Scan# 1339
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion:166 Resp: 672227

Ion	Ratio	Lower	Upper
166	100		
129	73.6	59.4	89.0
94	39.5	32.2	48.2

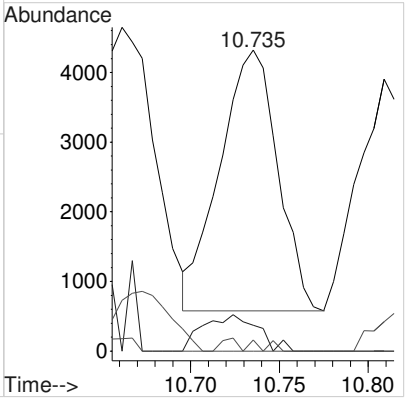


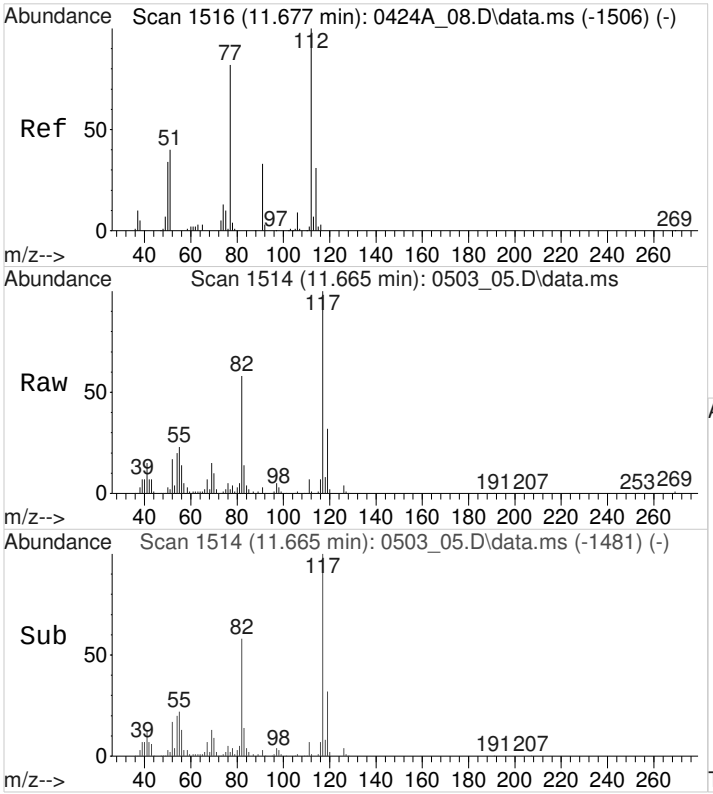


#69
Methyl Butyl Ketone
Concen: 0.1755288 ppbv
RT: 10.735 min Scan# 1350
Delta R.T. 0.023 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 43 Resp: 8498

Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.0	61.6#
85	1.2	6.5	9.7#
100	0.0	6.8	10.2#

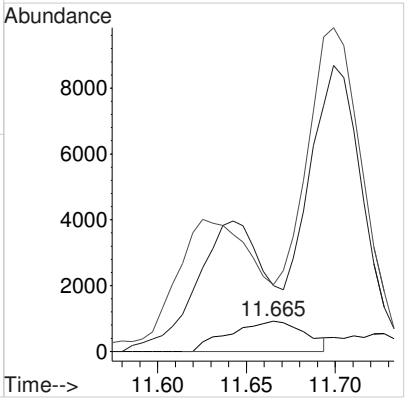


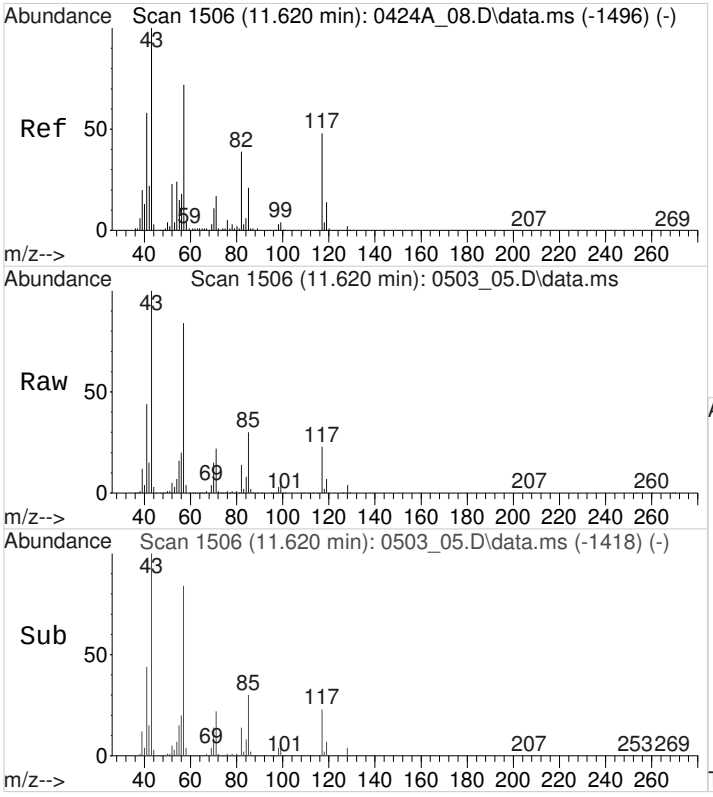


#72
Chlorobenzene
Concen: 0.0512647 ppbv
RT: 11.665 min Scan# 1514
Delta R.T. -0.011 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion:112 Resp: 2720

Ion	Ratio	Lower	Upper
112	100		
77	397.8	65.0	97.6#
51	440.3	34.0	51.0#

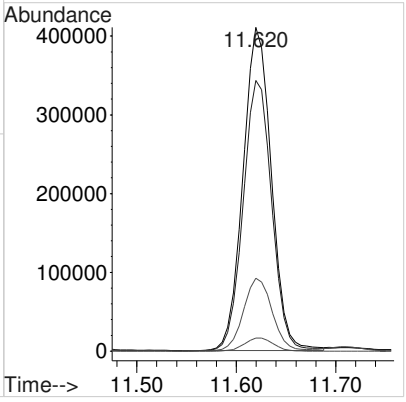


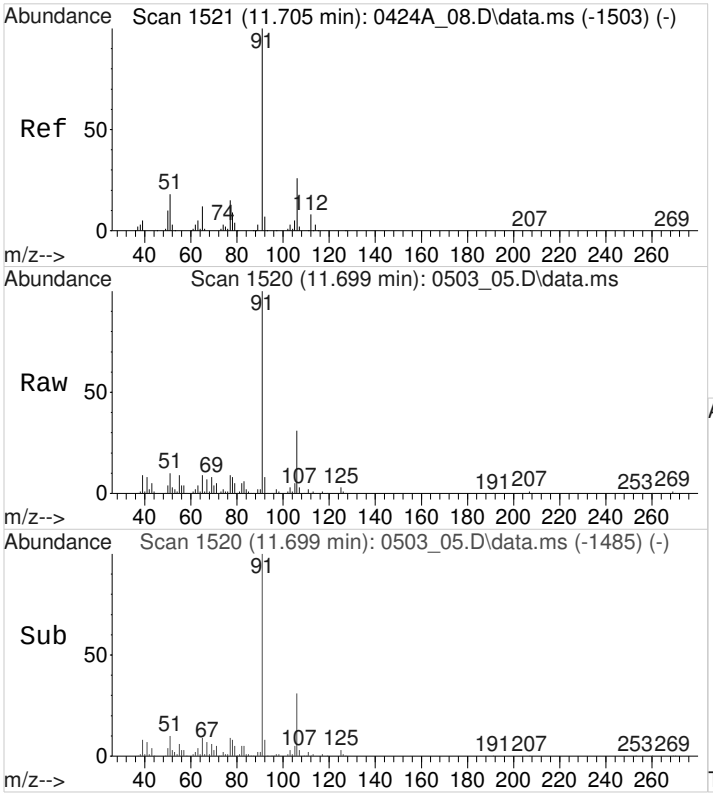


#73
NONANE
Concen: 14.2269730 ppbv
RT: 11.620 min Scan# 1506
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 43 Resp: 814900

Ion	Ratio	Lower	Upper
43	100		
57	84.3	68.6	102.8
71	22.9	18.0	27.0
128	4.1	3.3	4.9

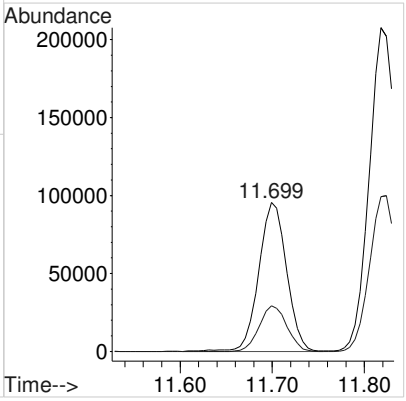


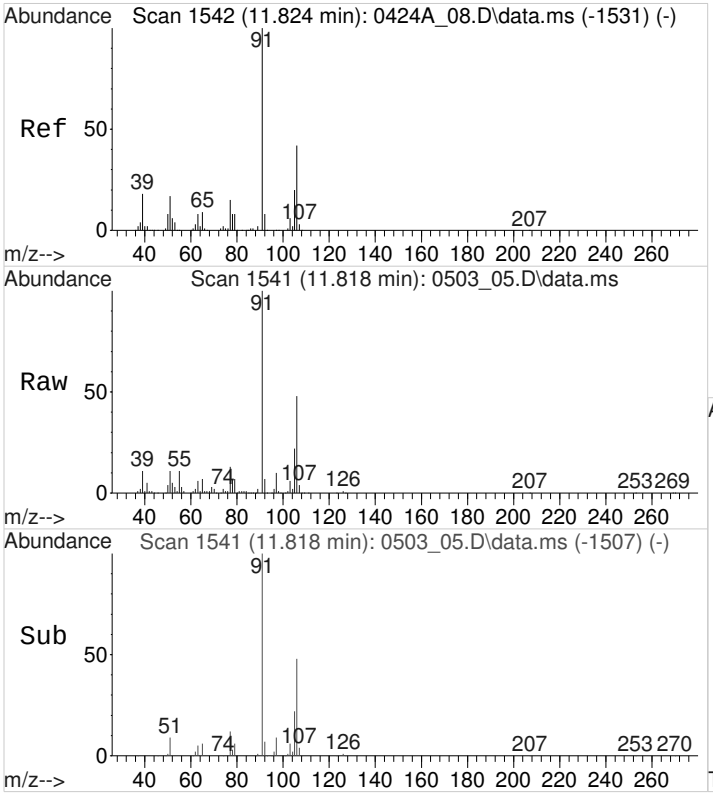


#75
Ethylbenzene
Concen: 2.1647528 ppbv
RT: 11.699 min Scan# 1520
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 91 Resp: 200231

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.2	36.4

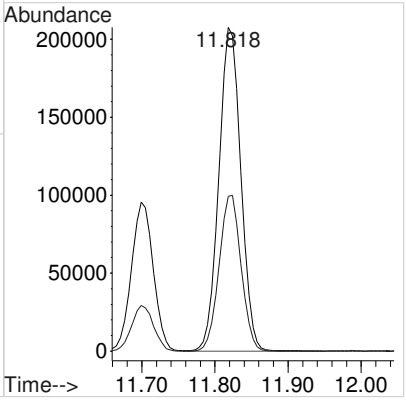


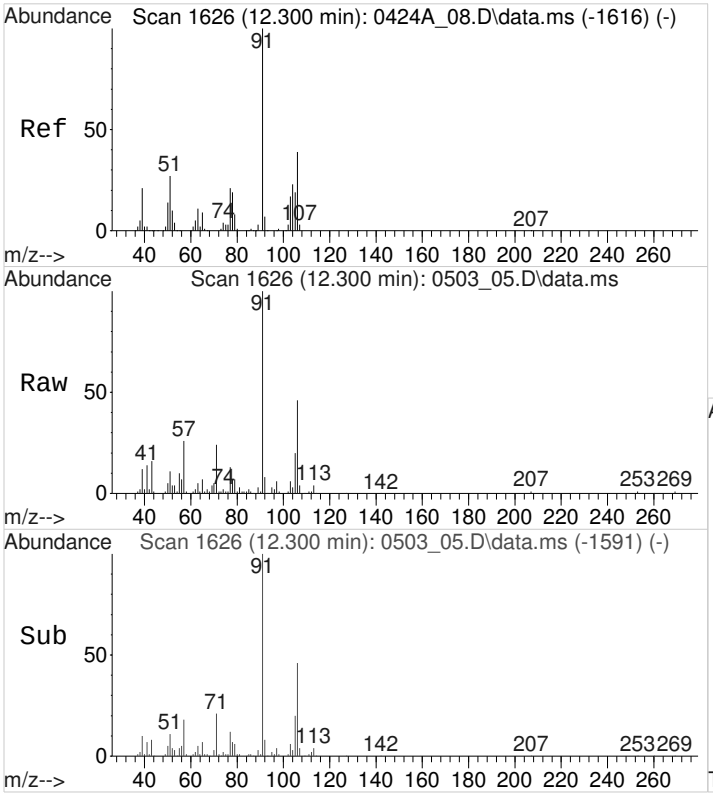


#76
M&P-Xylene
Concen: 6.0950637 ppbv
RT: 11.818 min Scan# 1541
Delta R.T. -0.006 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 91 Resp: 432982

Ion	Ratio	Lower	Upper
91	100		
106	48.0	38.9	58.3

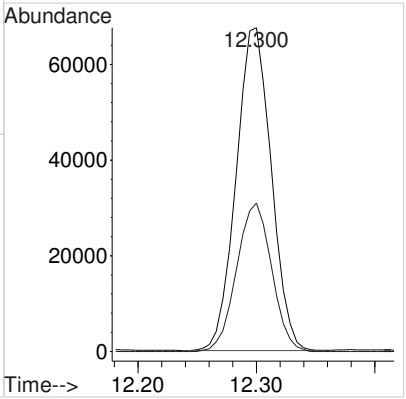


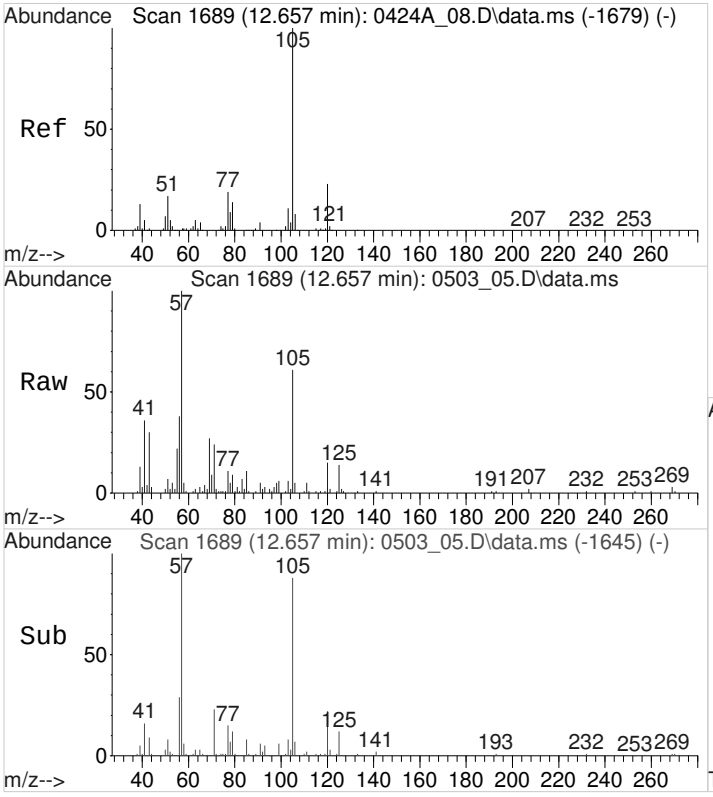


#77
O-Xylene
Concen: 1.9028536 ppbv
RT: 12.300 min Scan# 1626
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 91 Resp: 138925

Ion	Ratio	Lower	Upper
91	100		
106	45.7	36.2	54.4

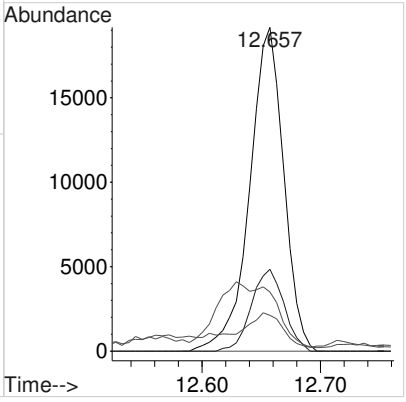


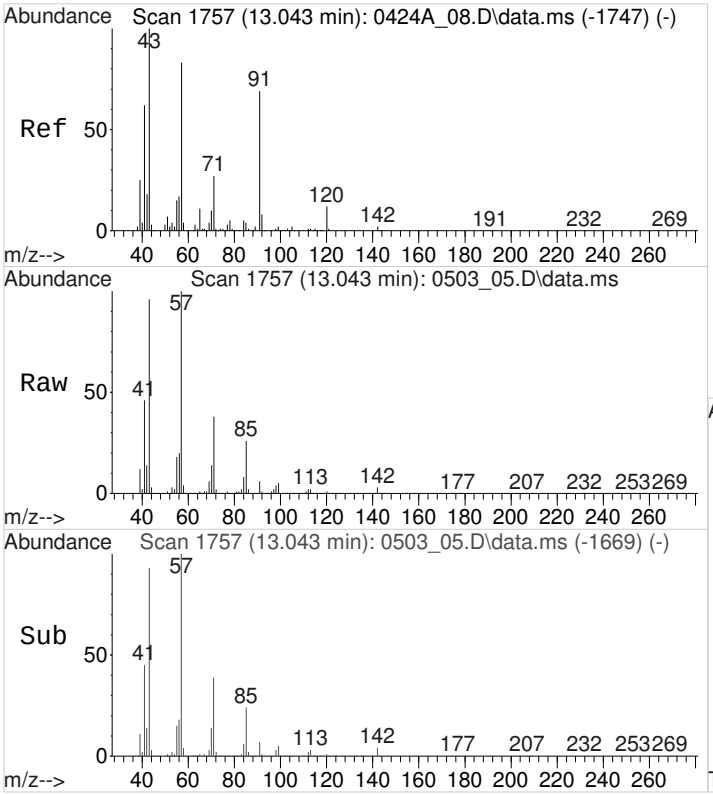


#82
Isopropylbenzene
Concen: 0.3916234 ppbv
RT: 12.657 min Scan# 1689
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion:105 Resp: 38174

Ion	Ratio	Lower	Upper
105	100		
120	24.2	20.6	31.0
77	34.5	12.4	18.6#
51	15.1	8.2	12.4#

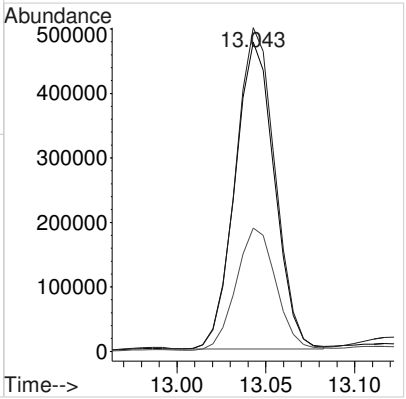


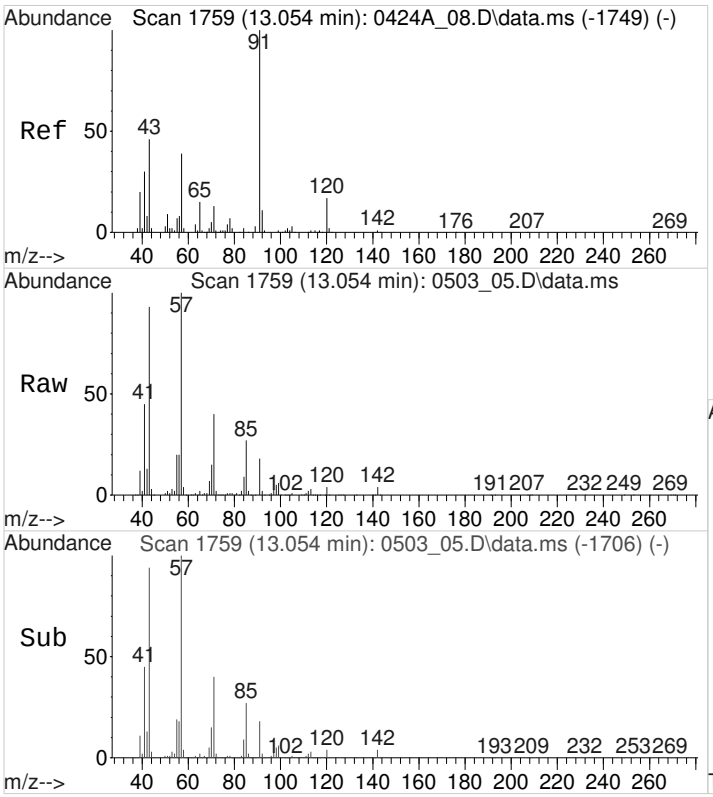


#83
n-DECANE
Concen: 14.1183667 ppbv
RT: 13.043 min Scan# 1757
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 43 Resp: 739499

Ion	Ratio	Lower	Upper
43	100		
57	104.3	83.8	125.8
71	40.6	31.8	47.6

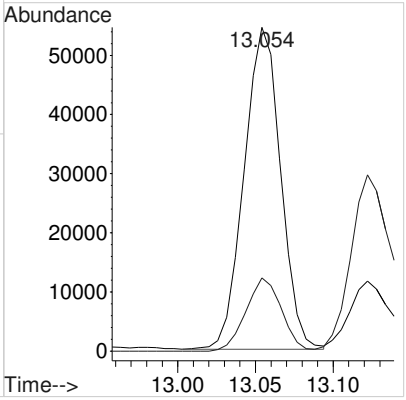


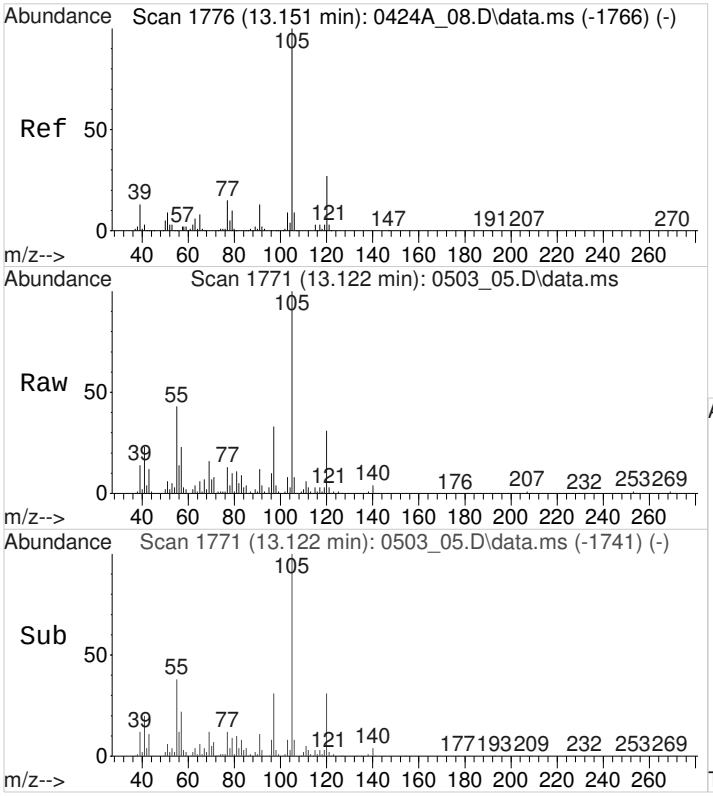


#85
n-Propylbenzene
Concen: 0.8001788 ppbv
RT: 13.054 min Scan# 1759
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 91 Resp: 88872

Ion	Ratio	Lower	Upper
91	100		
120	22.1	17.9	26.9

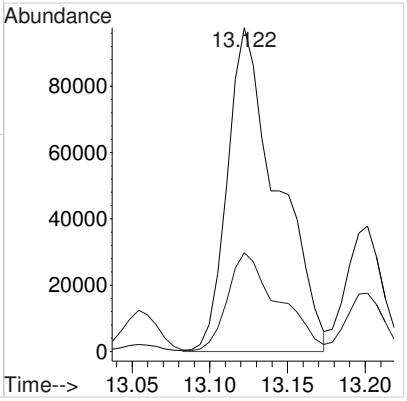


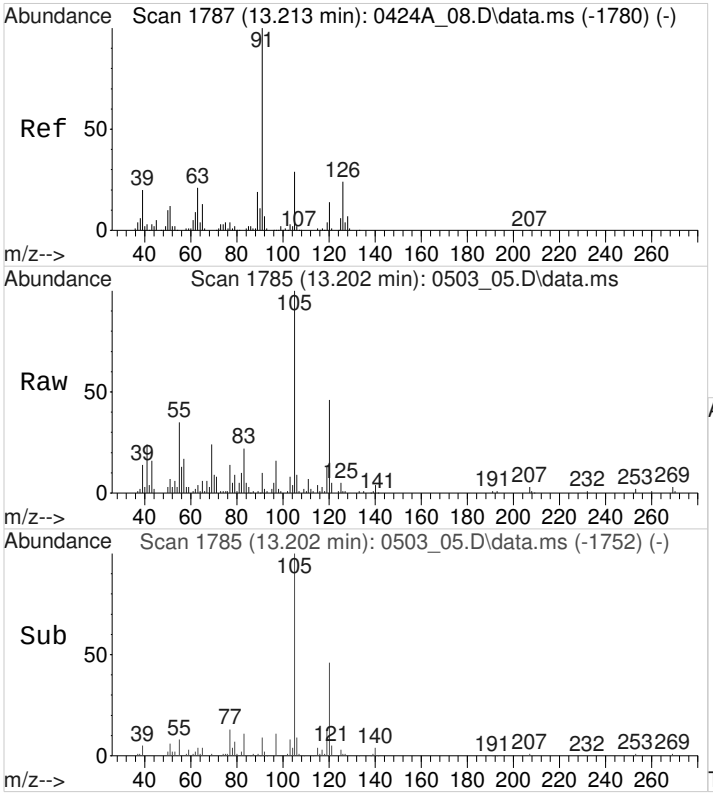


#86
4-Ethyltoluene
Concen: 2.3631437 ppbv
RT: 13.122 min Scan# 1771
Delta R.T. -0.028 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion:105 Resp: 218584

Ion	Ratio	Lower	Upper
105	100		
120	31.0	23.9	35.9

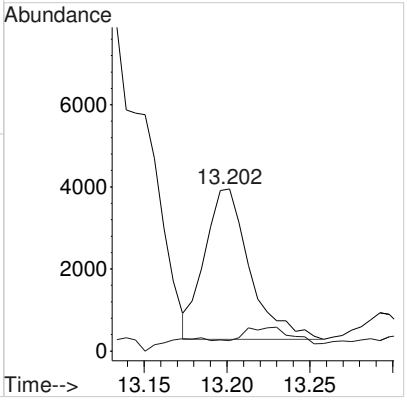


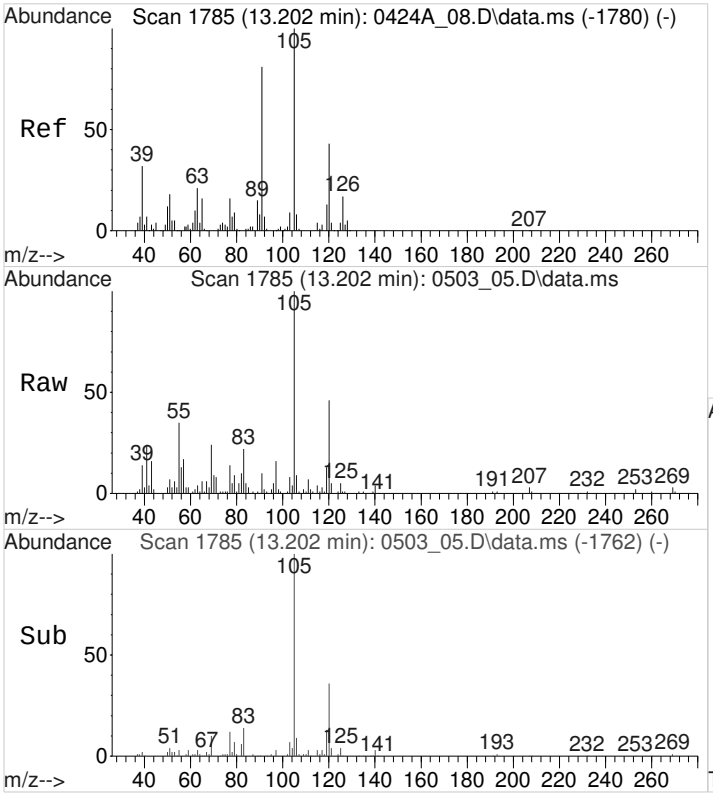


#87
2-Chlorotoluene
Concen: 0.0938214 ppbv
RT: 13.202 min Scan# 1785
Delta R.T. -0.011 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 91 Resp: 6958

Ion	Ratio	Lower	Upper
91	100		
126	11.4	24.2	36.2#

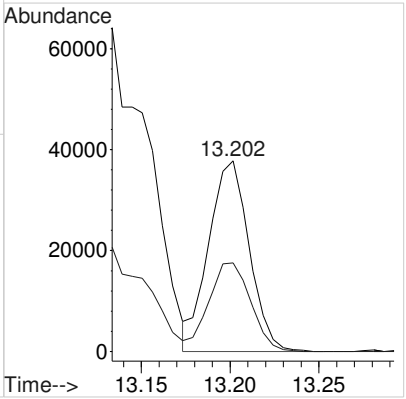


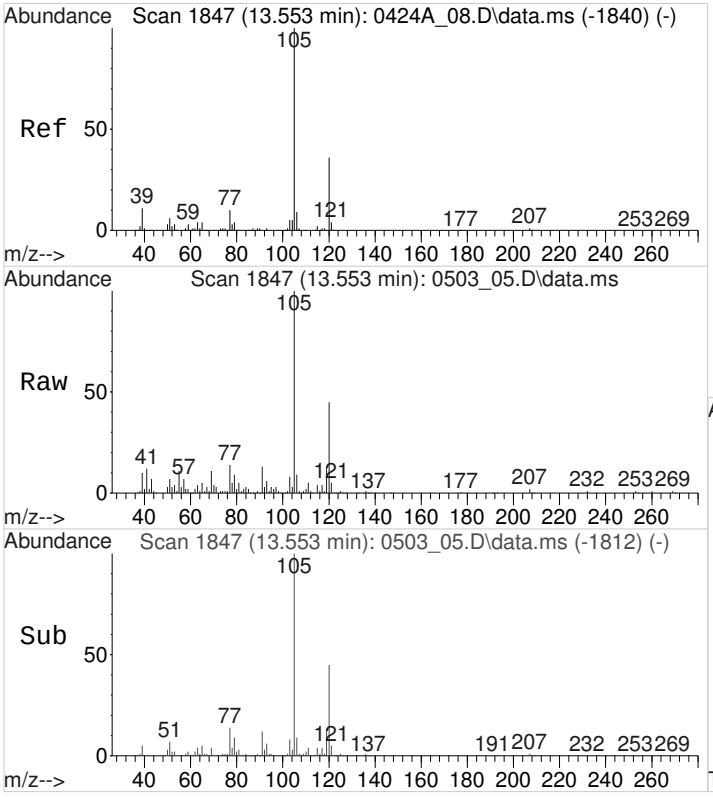


#89
1,3,5-Trimethylbenzene
Concen: 0.7918055 ppbv
RT: 13.202 min Scan# 1785
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion:105 Resp: 60075

Ion	Ratio	Lower	Upper
105	100		
120	48.0	38.8	58.2

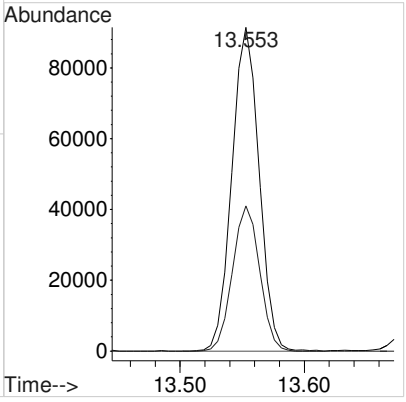


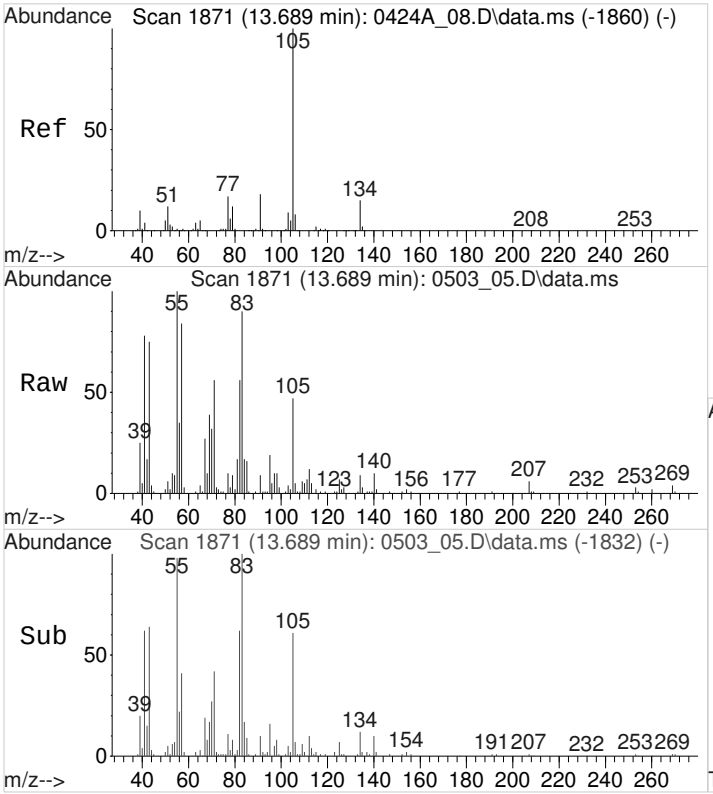


#91
1,2,4-Trimethylbenzene
Concen: 1.7703822 ppbv
RT: 13.553 min Scan# 1847
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion:105 Resp: 138355

Ion	Ratio	Lower	Upper
105	100		
120	44.7	35.7	53.5

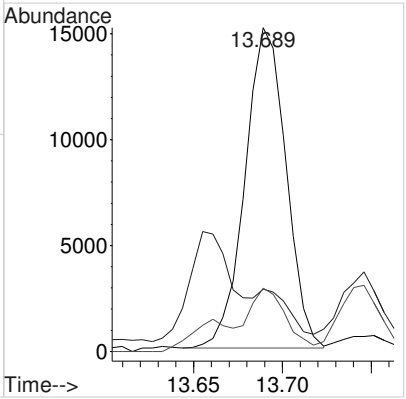


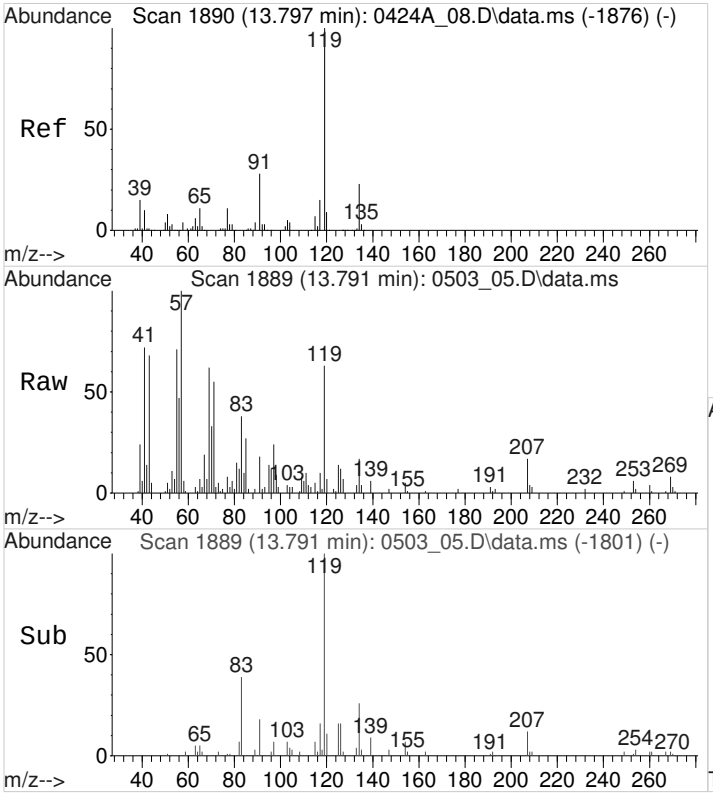


#92
sec-Butylbenzene
Concen: 0.2167651 ppbv
RT: 13.689 min Scan# 1871
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion:105 Resp: 24343

Ion	Ratio	Lower	Upper
105	100		
91	12.8	12.3	18.5
134	18.1	15.0	22.6

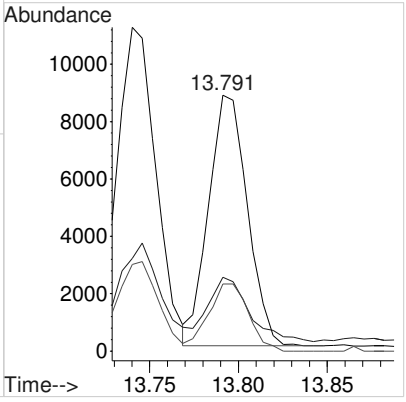


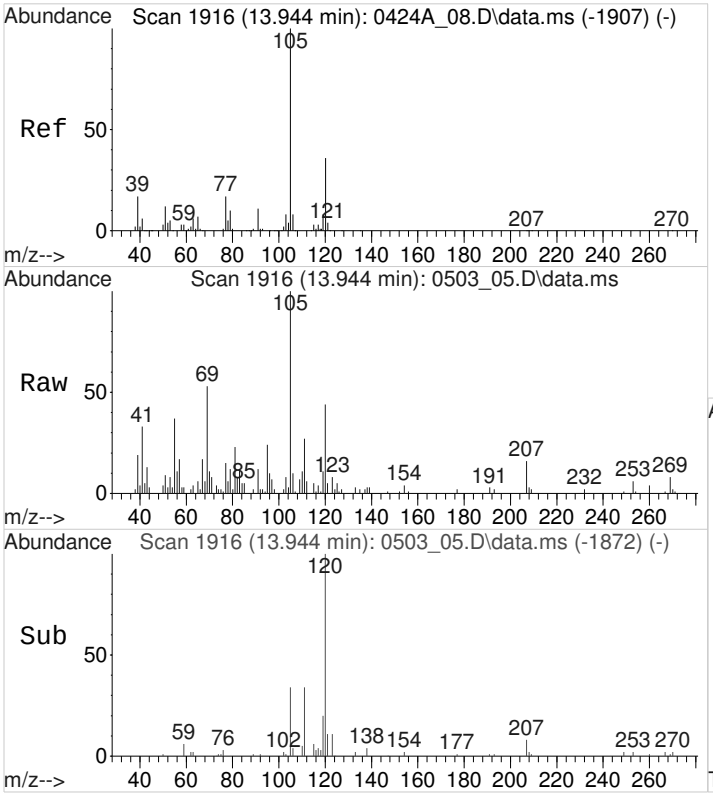


#94
P-ISOPROPYLTOLUENE
Concen: 0.1418523 ppbv
RT: 13.791 min Scan# 1889
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion:119 Resp: 13329

Ion	Ratio	Lower	Upper
119	100		
91	26.2	18.5	27.7
134	27.7	20.6	31.0

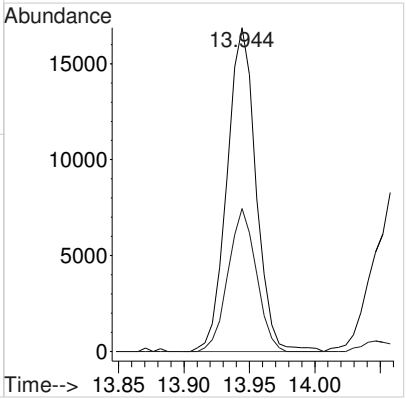


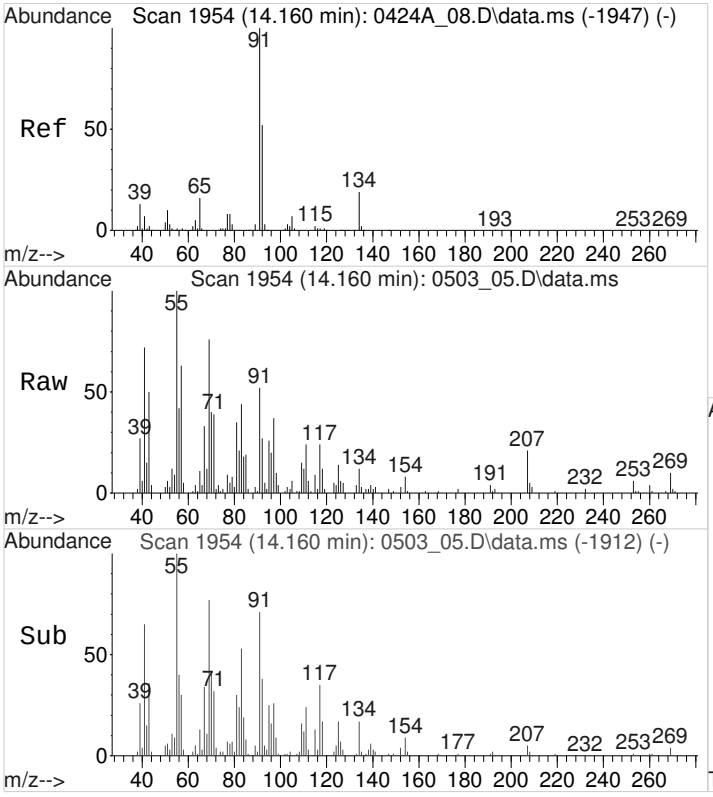


#96
1,2,3-TRIMETHYLBENZENE
Concen: 0.3309546 ppbv
RT: 13.944 min Scan# 1916
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion:105 Resp: 26007

Ion	Ratio	Lower	Upper
105	100		
120	42.9	34.0	51.0

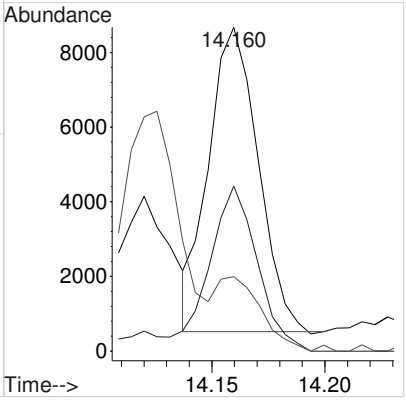


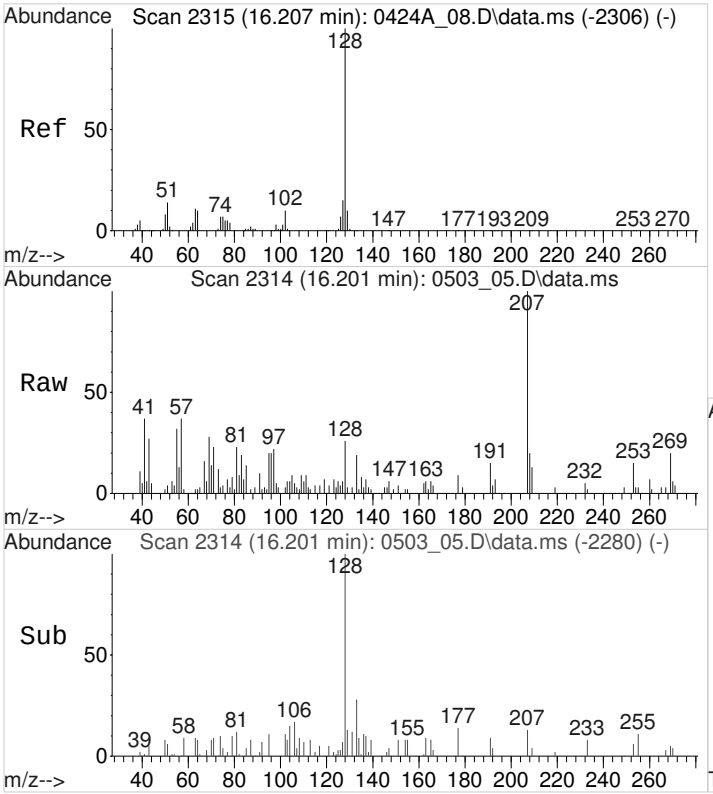


#98
n-Butylbenzene
Concen: 0.1330723 ppbv
RT: 14.160 min Scan# 1954
Delta R.T. 0.000 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion: 91 Resp: 12342

Ion	Ratio	Lower	Upper
91	100		
92	52.5	41.4	62.2
134	22.1	19.9	29.9

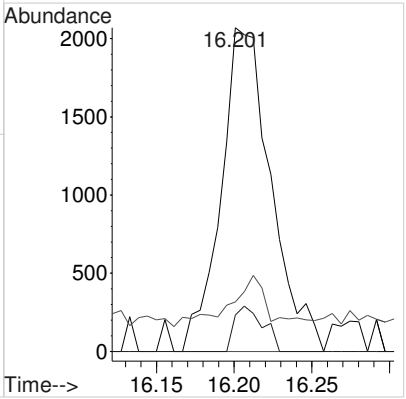




#103
Naphthalene
Concen: 0.0425244 ppbv
RT: 16.201 min Scan# 2314
Delta R.T. -0.006 min
Lab File: 0503_05.D
Acq: 3 May 2024 2:44 pm

Tgt Ion:128 Resp: 4629

Ion	Ratio	Lower	Upper
128	100		
102	8.0	6.2	9.4
51	18.4	6.3	9.5#



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: SG1

Lab Sample ID:	L1731355-03	**SDG:**	L1731355
Client Sample ID:	SG1	**Collected Date/Time:**	04/29/24 13:37
Lab File ID:	0503_24	**Received Date/Time:**	05/01/24 09:00
Instrument ID:	AIRMS16	**Preparation Date/Time:**	05/04/24 03:13
Analytical Batch:	WG2279821	**Analysis Date/Time:**	05/04/24 03:13
Dilution Factor:	100	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	2 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
Acetone	67-64-1	5.93	1700		58.4	125
Benzene	71-43-2	8.26	ND		7.15	20.0
Benzyl Chloride	100-44-7	0	ND		5.98	20.0
Bromodichloromethane	75-27-4	0	ND		7.02	20.0
Bromoform	75-25-2	0	ND		7.32	60.0
Bromomethane	74-83-9	0	ND		9.82	20.0
1,3-Butadiene	106-99-0	0	ND		10.4	200
Carbon disulfide	75-15-0	6.17	20.7		10.2	20.0
Carbon tetrachloride	56-23-5	0	ND		7.32	20.0
Chlorobenzene	108-90-7	0	ND		8.32	20.0
Chloroethane	75-00-3	0	ND		9.96	20.0
Chloroform	67-66-3	0	ND		7.17	20.0
Chloromethane	74-87-3	4.45	ND		10.3	20.0
Cyclohexane	110-82-7	7.93	104		7.53	20.0
Dibromochloromethane	124-48-1	0	ND		7.27	20.0
1,2-Dibromoethane	106-93-4	0	ND		7.21	20.0
1,2-Dichlorobenzene	95-50-1	0	ND		12.8	20.0
1,3-Dichlorobenzene	541-73-1	0	ND		18.2	20.0
1,4-Dichlorobenzene	106-46-7	0	ND		5.57	20.0
1,2-Dichloroethane	107-06-2	0	ND		7.00	20.0
1,1-Dichloroethane	75-34-3	0	ND		7.23	20.0
1,1-Dichloroethene	75-35-4	5.88	164		7.62	20.0
cis-1,2-Dichloroethene	156-59-2	0	ND		7.84	20.0
trans-1,2-Dichloroethene	156-60-5	6.55	ND		6.73	20.0
1,2-Dichloropropane	78-87-5	0	ND		7.60	20.0
cis-1,3-Dichloropropene	10061-01-5	0	ND		6.89	20.0
trans-1,3-Dichloropropene	10061-02-6	0	ND		7.28	20.0
Ethanol	64-17-5	5.48	741		26.5	250
Ethylbenzene	100-41-4	11.70	39.3		8.35	20.0
4-Ethyltoluene	622-96-8	13.12	37.2		7.83	20.0
Ethyl acetate	141-78-6	7.38	ND		10.0	63.0
Trichlorofluoromethane	75-69-4	0	ND		8.19	20.0
Dichlorodifluoromethane	75-71-8	0	ND		13.7	20.0
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		7.93	20.0
1,2-Dichlorotetrafluoroethane	76-14-2	0	ND		8.90	20.0
Heptane	142-82-5	8.27	403		10.4	20.0
Hexachloro-1,3-butadiene	87-68-3	0	ND		10.5	63.0
n-Hexane	110-54-3	6.66	358		20.6	63.0
Isopropylbenzene	98-82-8	12.65	ND		7.77	20.0
Methylene Chloride	75-09-2	6.34	105		9.79	20.0
Methyl Butyl Ketone	591-78-6	0	ND		13.3	125
2-Butanone (MEK)	78-93-3	7.44	ND		8.14	125
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		7.65	125

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: SG1

Lab Sample ID:	L1731355-03	**SDG:**	L1731355
Client Sample ID:	SG1	**Collected Date/Time:**	04/29/24 13:37
Lab File ID:	0503_24	**Received Date/Time:**	05/01/24 09:00
Instrument ID:	AIRMS16	**Preparation Date/Time:**	05/04/24 03:13
Analytical Batch:	WG2279821	**Analysis Date/Time:**	05/04/24 03:13
Dilution Factor:	100	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	2 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
Methyl methacrylate	80-62-6	9.02	54.8		8.76	20.0
MTBE	1634-04-4	0	ND		6.47	20.0
Naphthalene	91-20-3	0	ND		35.0	63.0
2-Propanol	67-63-0	5.96	570		26.4	125
Propene	115-07-1	0	ND		9.32	125
Styrene	100-42-5	0	ND		7.88	20.0
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		7.43	20.0
Tetrachloroethylene	127-18-4	10.67	141		8.14	20.0
Tetrahydrofuran	109-99-9	0	ND		7.34	20.0
Toluene	108-88-3	10.09	131		8.70	50.0
1,2,4-Trichlorobenzene	120-82-1	0	ND		14.8	63.0
1,1,1-Trichloroethane	71-55-6	7.91	33.4		7.36	20.0
1,1,2-Trichloroethane	79-00-5	0	ND		7.75	20.0
Trichloroethylene	79-01-6	8.82	ND		6.80	20.0
1,2,4-Trimethylbenzene	95-63-6	13.55	34.9		7.64	20.0
1,3,5-Trimethylbenzene	108-67-8	13.20	ND		7.79	20.0
2,2,4-Trimethylpentane	540-84-1	0	ND		13.3	20.0
Vinyl chloride	75-01-4	0	ND		9.49	20.0
Vinyl Bromide	593-60-2	0	ND		8.52	20.0
Vinyl acetate	108-05-4	0	ND		11.6	63.0
Xylenes, Total	1330-20-7	12.29	167		13.5	60.0
m&p-Xylene	179601-23-1	11.82	132		13.5	40.0
o-Xylene	95-47-6	12.29	35.2		8.28	20.0

Sample Narrative:

Elevated RL due to sample matrix interference.

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_24.D
Acq On : 4 May 2024 3:13 am
Operator :
Sample : L1731355-03 100x WG2279821
Misc : 24D22236
ALS Vial : 24 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 04 13:47:27 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.708	130	210415	4.0000000	ppbv		0.00
50) 1,4-Difluorobenzene	8.541	114	899118	4.0000000	ppbv		0.00
74) Chlorobenzene-d5	11.642	117	799396	4.0000000	ppbv		0.00
System Monitoring Compounds							
88) 1,4-Bromofluorobenzene	12.895	95	546673	3.8368190	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 95.92%				
Target Compounds						Qvalue	
2) TPH (GC/MS) Low Fraction	10.430	TIC	16704057m	111.5843009	ppbv		
3) TPH-GRO (C5-C10)	10.430	TIC	16046675m	129.0424672	ppbv		
4) THC as Gas (C4-C12)	10.430	TIC	24863946m	160.1383111	ppbv		
6) BUTANE	4.550	43	24740	1.0068201	ppbv		98
7) 1,1-DIFLUOROETHANE	4.119	65	181628	18.3904102	ppbv		99
11) Chloromethane	4.448	50	797	0.0527357	ppbv	#	79
16) ISOPENTANE	5.122	43	29833	1.7137163	ppbv		96
19) PENTANE	5.377	43	75965	2.2802756	ppbv		99
20) Ethanol	5.479	45	60622	7.4138845	ppbv		99
21) ACROLEIN	5.808	56	2406	0.2858478	ppbv		100
23) 1,1-Dichloroethene	5.876	61	44026	1.6390240	ppbv		95
24) Acetone	5.927	58	161331	17.0004197	ppbv		75
26) 2-Propanol	5.961	45	217765	5.6961986	ppbv	#	1
27) Carbon Disulfide	6.171	76	11502	0.2072465	ppbv		93
28) Allyl Chloride	6.245	41	486352	18.9094607	ppbv	#	1
29) METHYL ACETATE	6.222	43	217004	5.8560223	ppbv	#	57
30) ACETONITRILE	6.245	41	486352	27.5685909	ppbv	#	86
31) Methylene Chloride	6.341	49	22258	1.0514188	ppbv		96
32) TERT-BUTYL ALCOHOL	6.324	59	209243	4.9926996	ppbv		100
34) Trans-1,2-Dichloroethene	6.545	61	2294	0.0901942	ppbv		96
35) ACRYLONITRILE	6.608	53	2963	0.1924027	ppbv	#	44
36) n-Hexane	6.664	57	109696	3.5786100	ppbv		99
40) ETHYL TERT-BUTYL ETHER	7.158	59	12821	0.2126608	ppbv	#	37
41) ETHYL ACETATE	7.384	70	2142	0.4393119	ppbv		99
42) 2-Butanone (MEK)	7.436	72	6003	0.6277434	ppbv		97
46) Cyclohexane	7.929	84	25232	1.0432970	ppbv	#	1
47) 1,1,1-Trichloroethane	7.912	97	10776	0.3336334	ppbv		98
51) Benzene	8.258	78	6384	0.1078499	ppbv	#	43
54) Heptane	8.269	57	82971	4.0307404	ppbv	#	93
55) Trichloroethene	8.819	95	740	0.0300501	ppbv		91
57) METHYL CYCLOHEXANE	8.978	83	86076	2.5009070	ppbv		96
59) Methyl Methacrylate	9.023	69	12083	0.5477168	ppbv	#	87
60) 1,4-Dioxane	9.187	88	728	0.0532678	ppbv	#	1
64) n-OCTANE	9.970	43	142888	2.5865519	ppbv		98
65) Toluene	10.095	91	97090	1.3064721	ppbv		100
68) Tetrachloroethene	10.673	166	44227	1.4126883	ppbv		99
73) NONANE	11.620	43	134730	2.3355102	ppbv		98
75) Ethylbenzene	11.699	91	36475	0.3926503	ppbv		99
76) M&P-Xylene	11.818	91	93886	1.3159606	ppbv		99
77) O-Xylene	12.294	91	25835	0.3523442	ppbv		100

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_24.D
Acq On : 4 May 2024 3:13 am
Operator :
Sample : L1731355-03 100x WG2279821
Misc : 24D22236
ALS Vial : 24 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 04 13:47:27 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

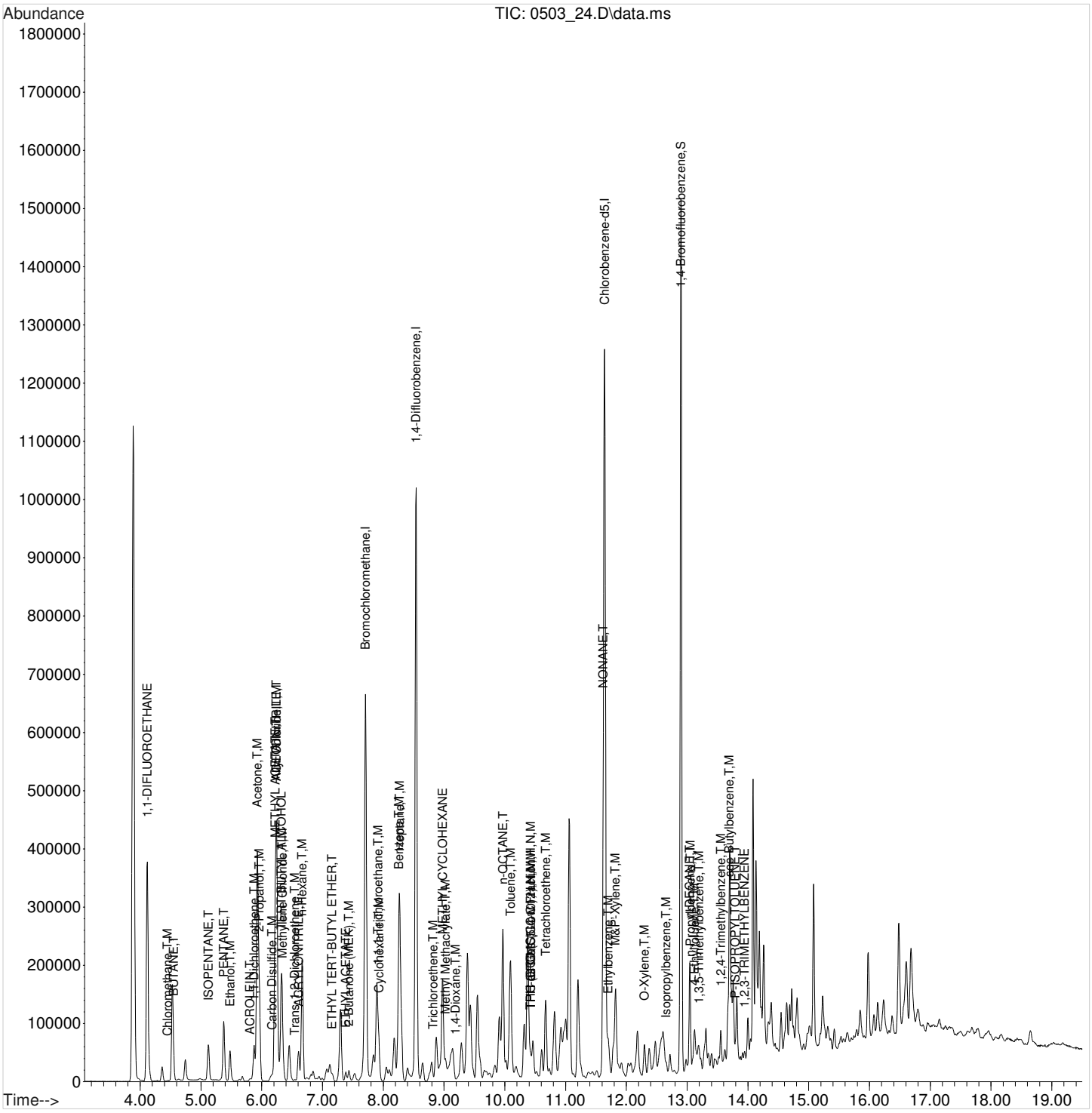
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
82) Isopropylbenzene	12.652	105	6606	0.0674797 ppbv #	40
83) n-DECANE	13.043	43	62898	1.1956865 ppbv	95
85) n-Propylbenzene	13.054	91	11522	0.1032960 ppbv	99
86) 4-Ethyltoluene	13.122	105	34592	0.3723755 ppbv	98
89) 1,3,5-Trimethylbenzene	13.196	105	11009	0.1444795 ppbv	98
91) 1,2,4-Trimethylbenzene	13.553	105	27418	0.3493346 ppbv	97
92) sec-Butylbenzene	13.689	105	3742	0.0331782 ppbv #	91
94) P-ISOPROPYLTOLUENE	13.791	119	4684	0.0496351 ppbv	93
96) 1,2,3-TRIMETHYLBENZENE	13.944	105	7563	0.0958310 ppbv	100

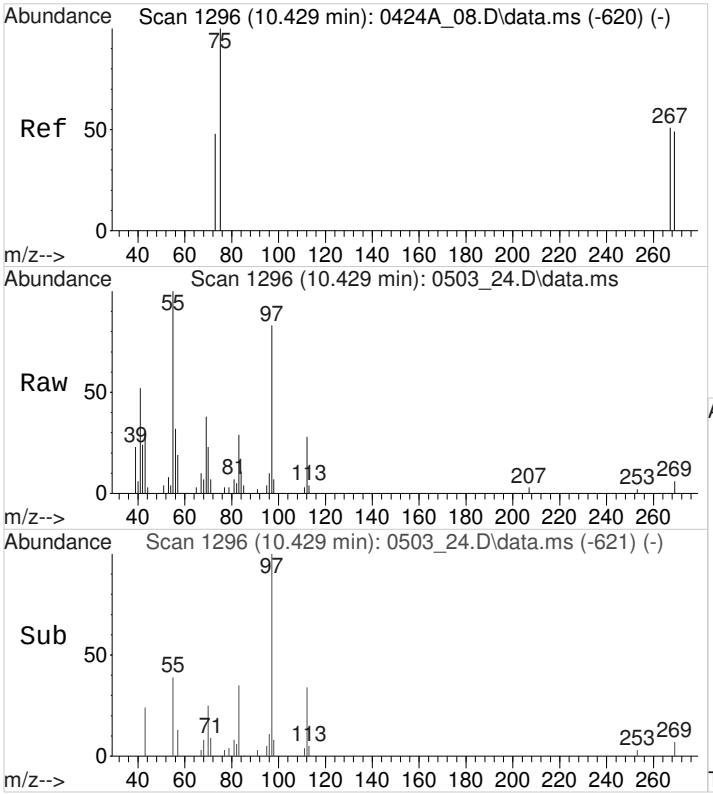
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_24.D
Acq On : 4 May 2024 3:13 am
Operator :
Sample : L1731355-03 100x WG2279821
Misc : 24D22236
ALS Vial : 24 Sample Multiplier: 1
InstName : AIRMS16

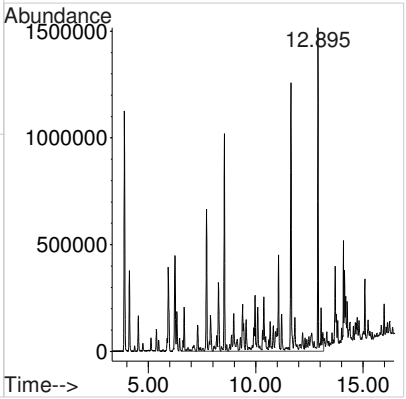
Quant Time: May 04 13:47:27 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

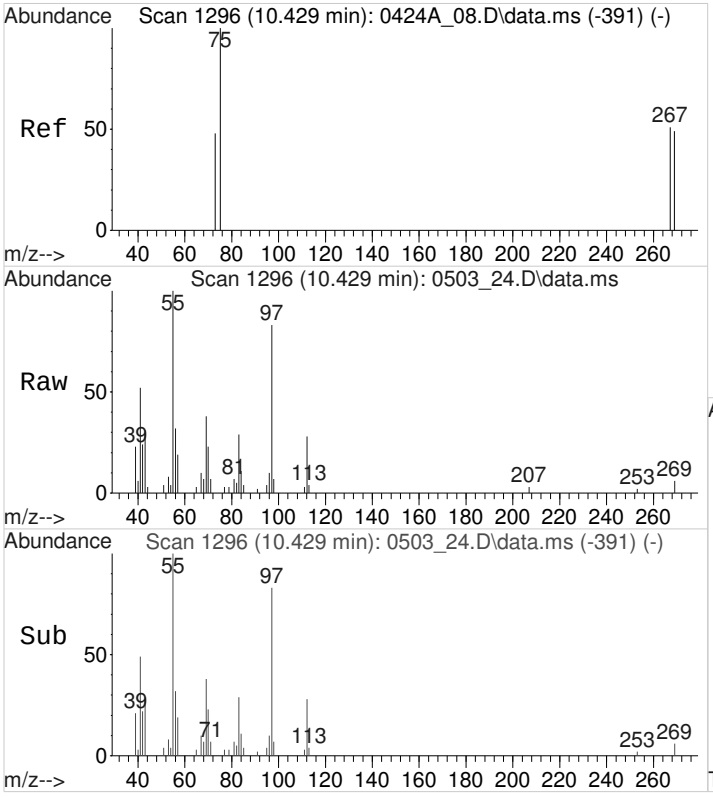




#2
TPH (GC/MS) Low Fraction
Concen: 111.5843009 ppbv m
RT: 10.430 min Scan# 1296
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

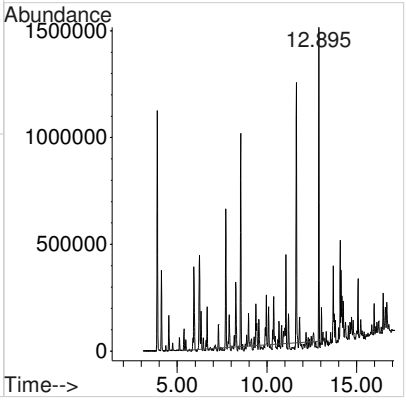
Tgt Ion:TIC Resp:16704057

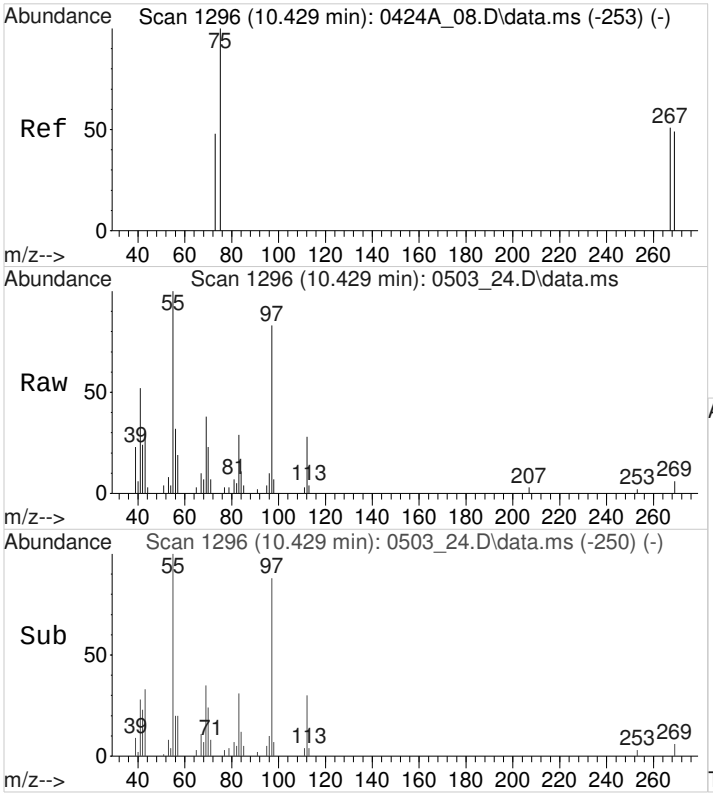




#3
TPH-GRO (C5-C10)
Concen: 129.0424672 ppbv m
RT: 10.430 min Scan# 1296
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

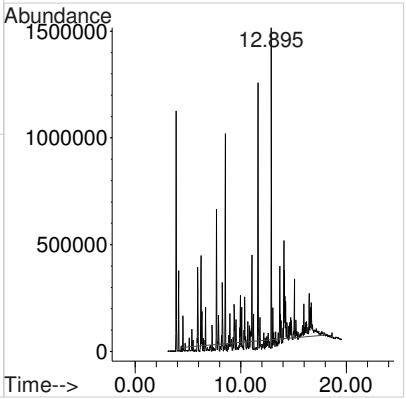
Tgt Ion:TIC Resp:16046675

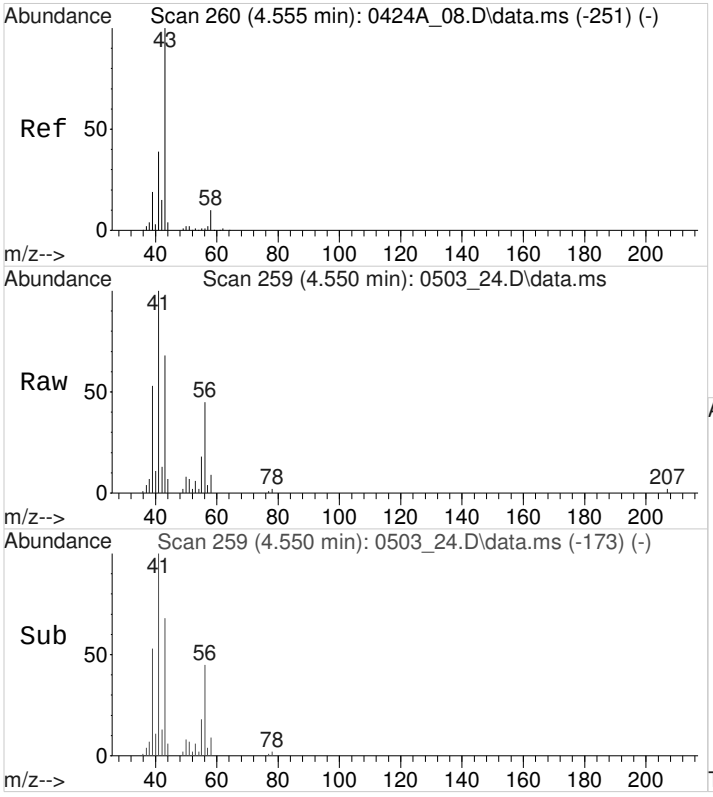




#4
THC as Gas (C4-C12)
Concen: 160.1383111 ppbv m
RT: 10.430 min Scan# 1296
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion:TIC Resp:24863946

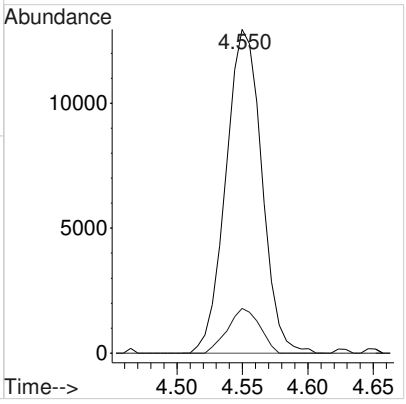


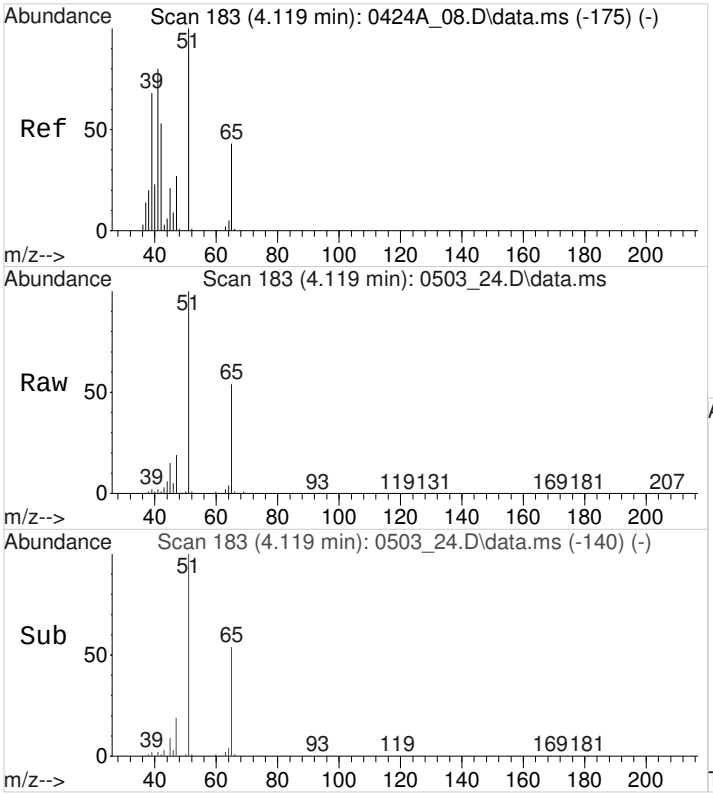


#6
BUTANE
Concen: 1.0068201 ppbv
RT: 4.550 min Scan# 259
Delta R.T. -0.011 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 43 Resp: 24740

Ion	Ratio	Lower	Upper
43	100		
58	12.3	9.4	14.0

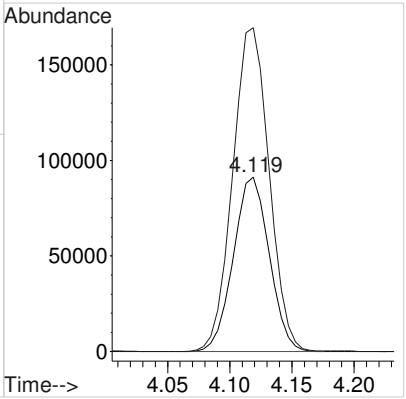


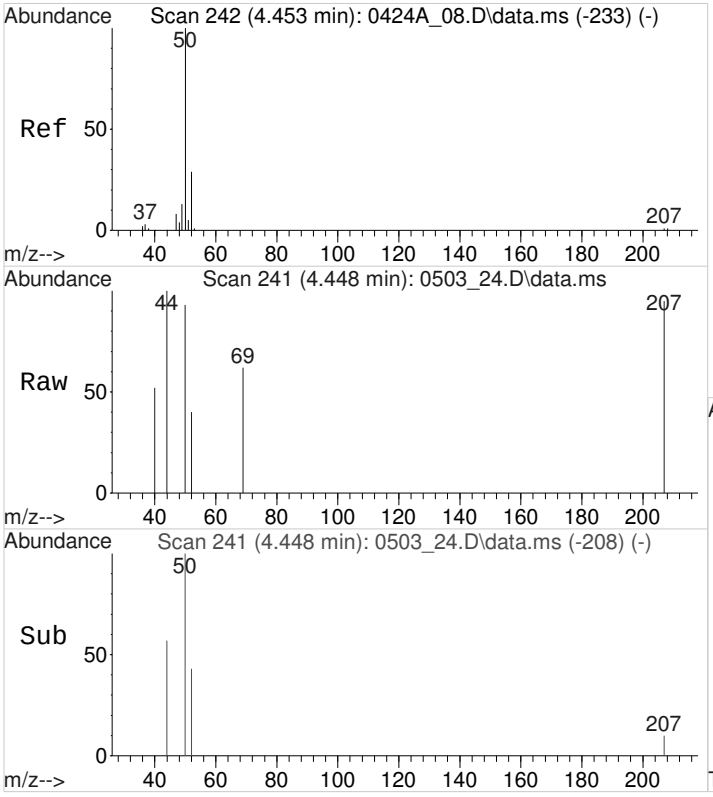


#7
1,1-DIFLUOROETHANE
Concen: 18.3904102 ppbv
RT: 4.119 min Scan# 183
Delta R.T. -0.006 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 65 Resp: 181628

Ion	Ratio	Lower	Upper
65	100		
51	189.1	150.3	225.5

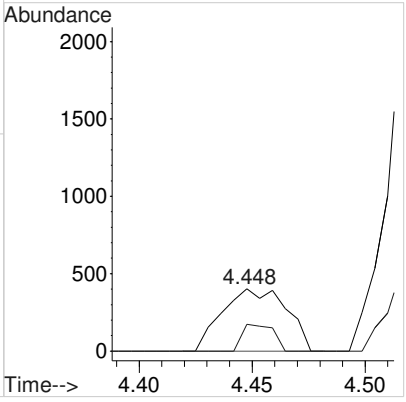


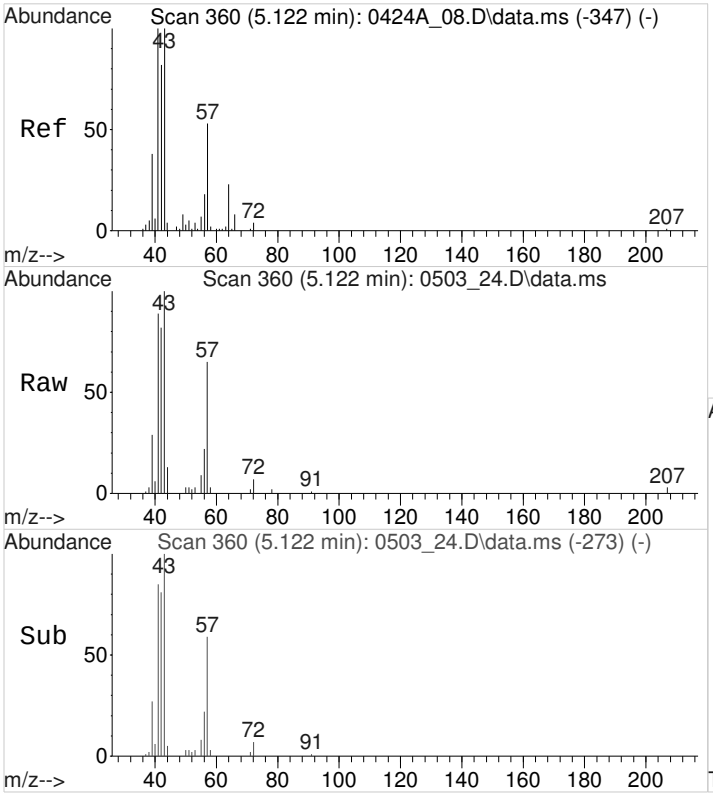


#11
Chloromethane
Concen: 0.0527357 ppbv
RT: 4.448 min Scan# 241
Delta R.T. -0.011 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 50 Resp: 797

Ion	Ratio	Lower	Upper
50	100		
52	20.7	25.8	38.8#

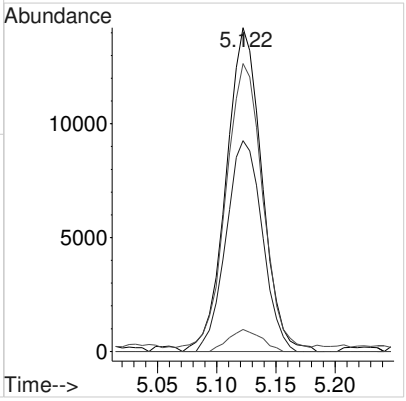


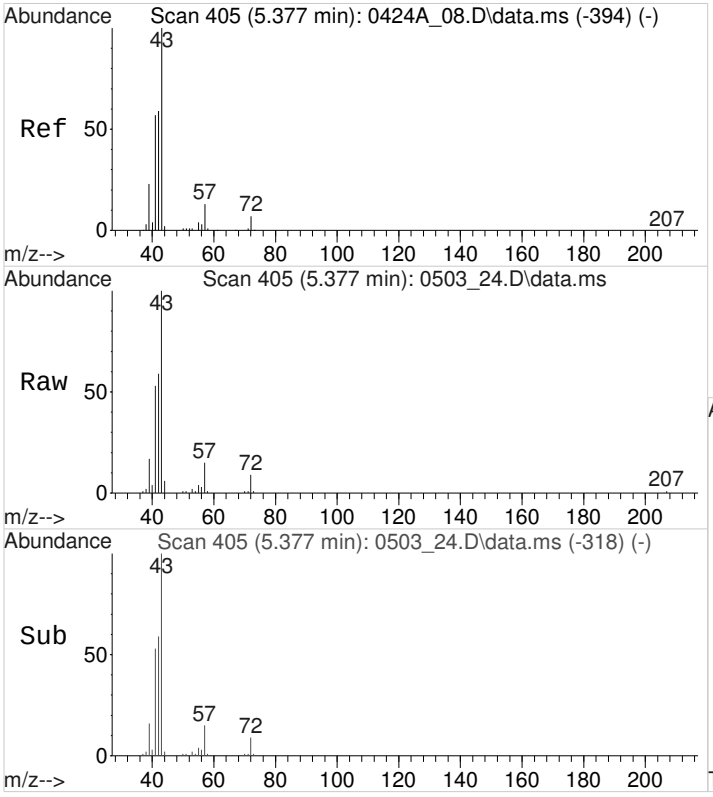


#16
ISOPENTANE
Concen: 1.7137163 ppbv
RT: 5.122 min Scan# 360
Delta R.T. -0.006 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 43 Resp: 29833

Ion	Ratio	Lower	Upper
43	100		
57	65.7	54.4	81.6
41	88.7	74.2	111.4
72	6.2	4.9	7.3

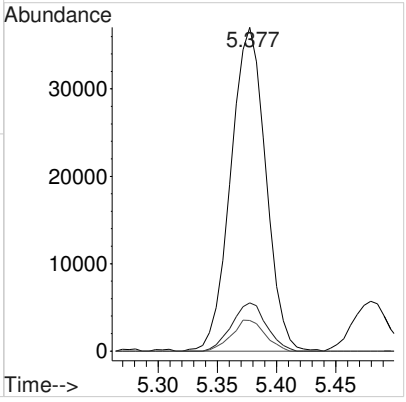


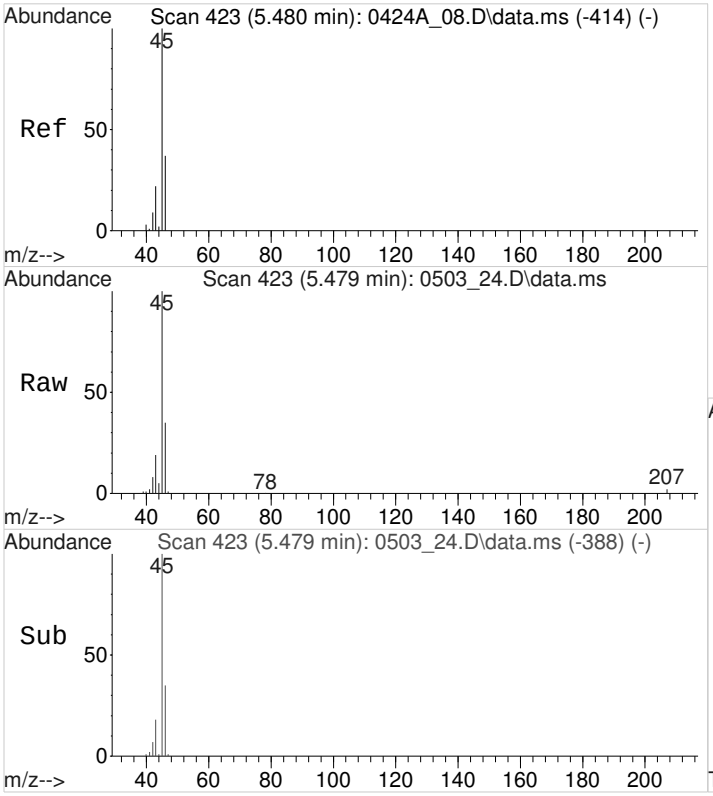


#19
PENTANE
Concen: 2.2802756 ppbv
RT: 5.377 min Scan# 405
Delta R.T. -0.006 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 43 Resp: 75965

Ion	Ratio	Lower	Upper
43	100		
57	14.8	12.2	18.4
72	9.1	7.3	10.9

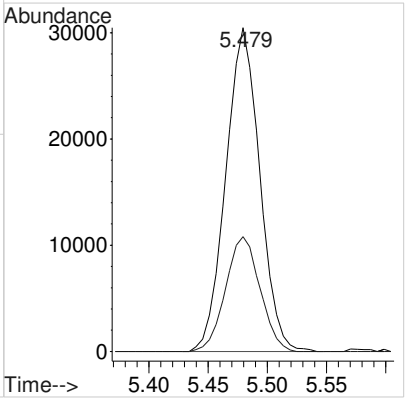


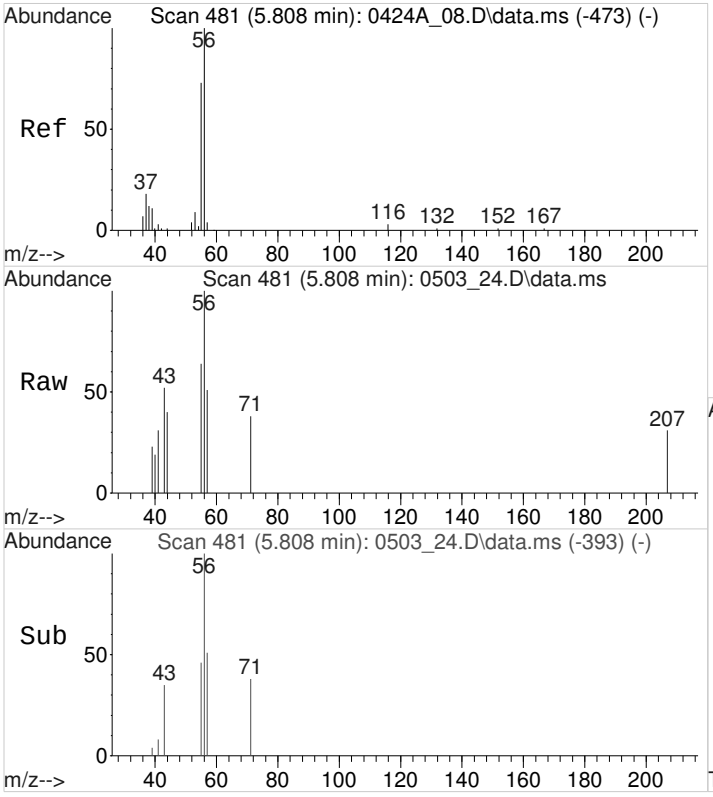


#20
Ethanol
Concen: 7.4138845 ppbv
RT: 5.479 min Scan# 423
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 45 Resp: 60622

Ion	Ratio	Lower	Upper
45	100		
46	35.9	29.1	43.7

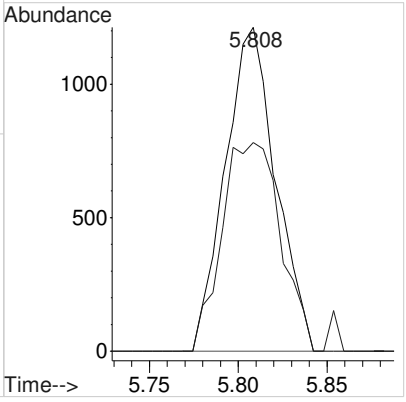


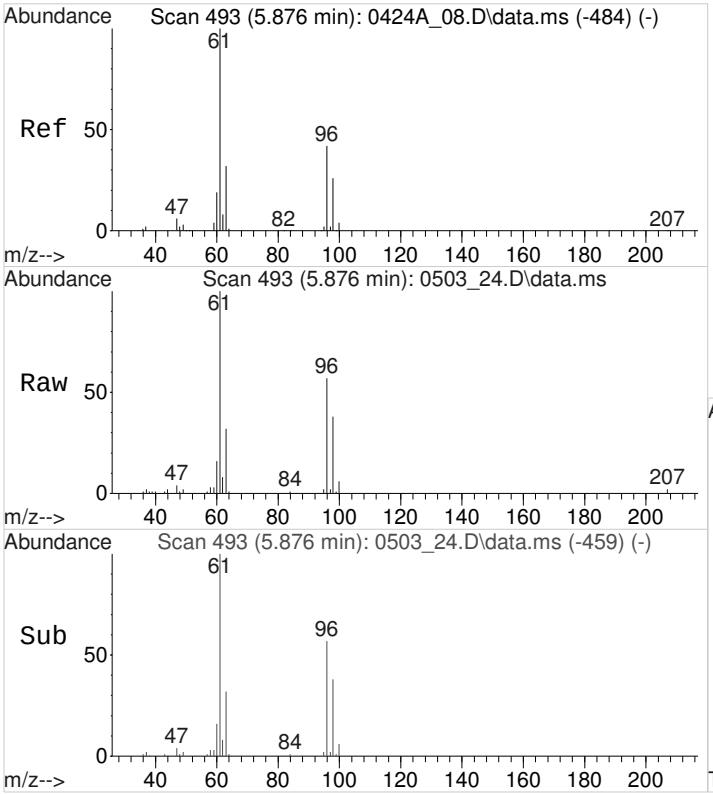


#21
ACROLEIN
Concen: 0.2858478 ppbv
RT: 5.808 min Scan# 481
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 56 Resp: 2406

Ion	Ratio	Lower	Upper
56	100		
55	74.7	59.8	89.6

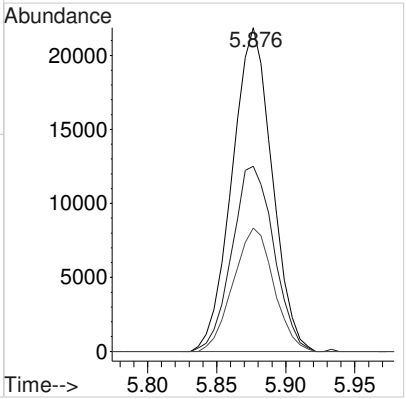


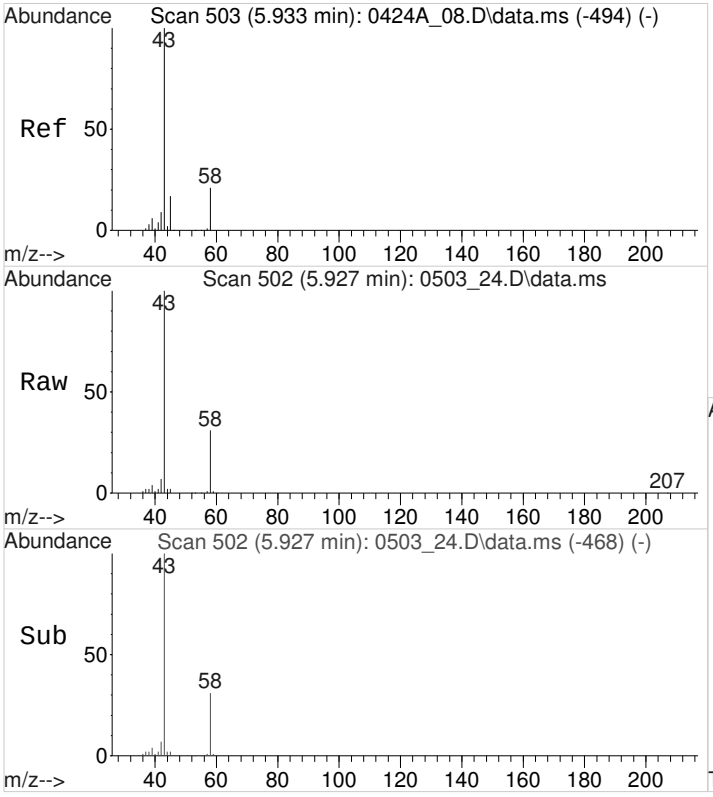


#23
1,1-Dichloroethene
Concen: 1.6390240 ppbv
RT: 5.876 min Scan# 493
Delta R.T. -0.006 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 61 Resp: 44026

Ion	Ratio	Lower	Upper
61	100		
96	60.0	45.0	67.6
98	38.5	29.0	43.6

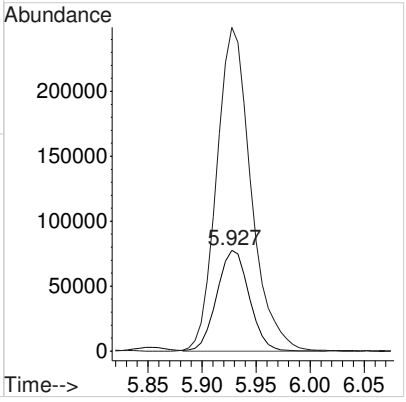


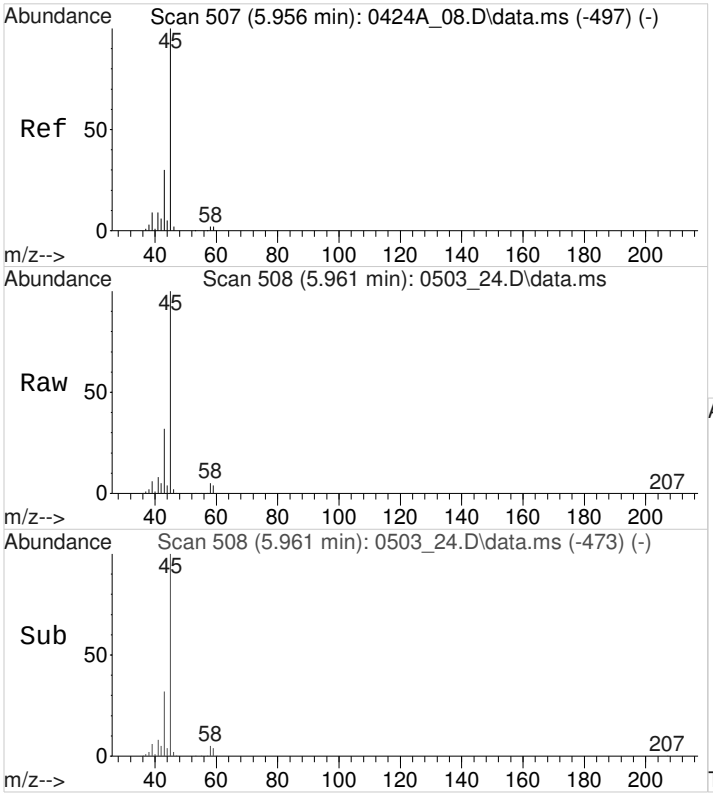


#24
Acetone
Concen: 17.0004197 ppbv
RT: 5.927 min Scan# 502
Delta R.T. -0.006 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 58 Resp: 161331

Ion	Ratio	Lower	Upper
58	100		
43	341.8	321.8	482.8

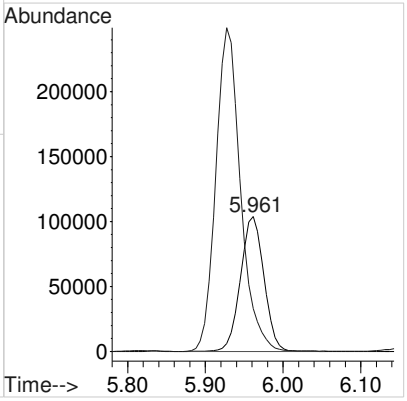


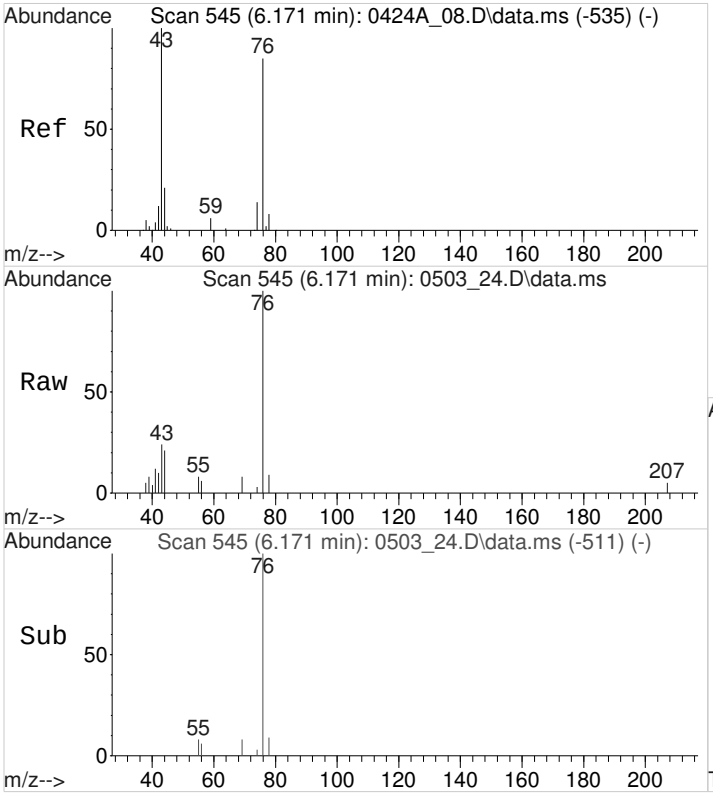


#26
2-Propanol
Concen: 5.6961986 ppbv
RT: 5.961 min Scan# 508
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 45 Resp: 217765

Ion	Ratio	Lower	Upper
45	100		
43	253.2	75.5	113.3#

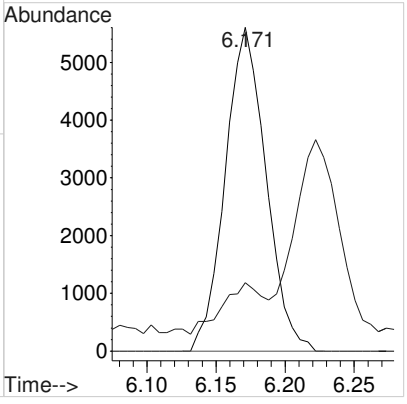


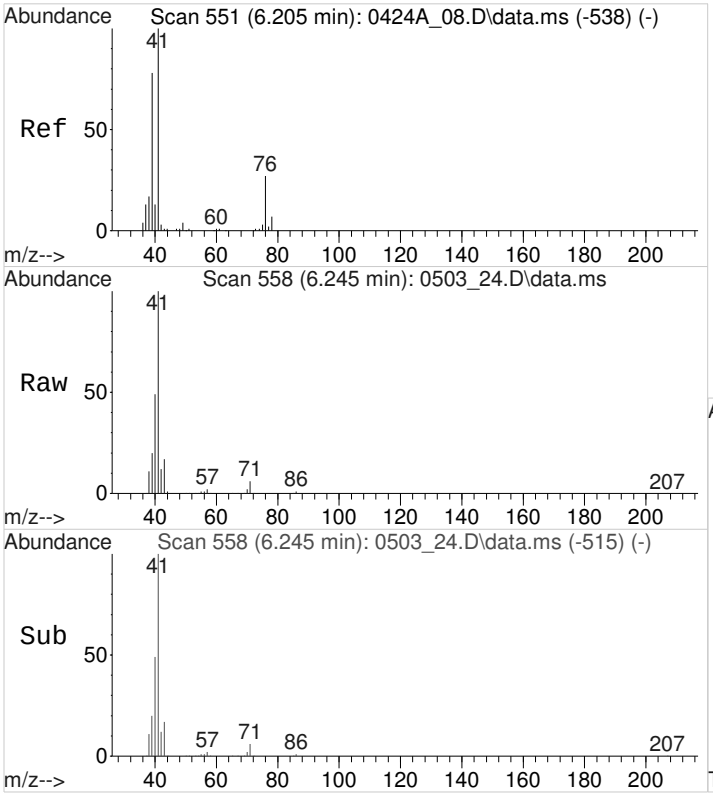


#27
Carbon Disulfide
Concen: 0.2072465 ppbv
RT: 6.171 min Scan# 545
Delta R.T. -0.006 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 76 Resp: 11502

Ion	Ratio	Lower	Upper
76	100		
44	15.7	10.5	15.7

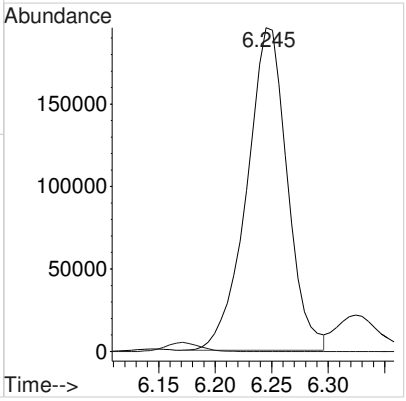


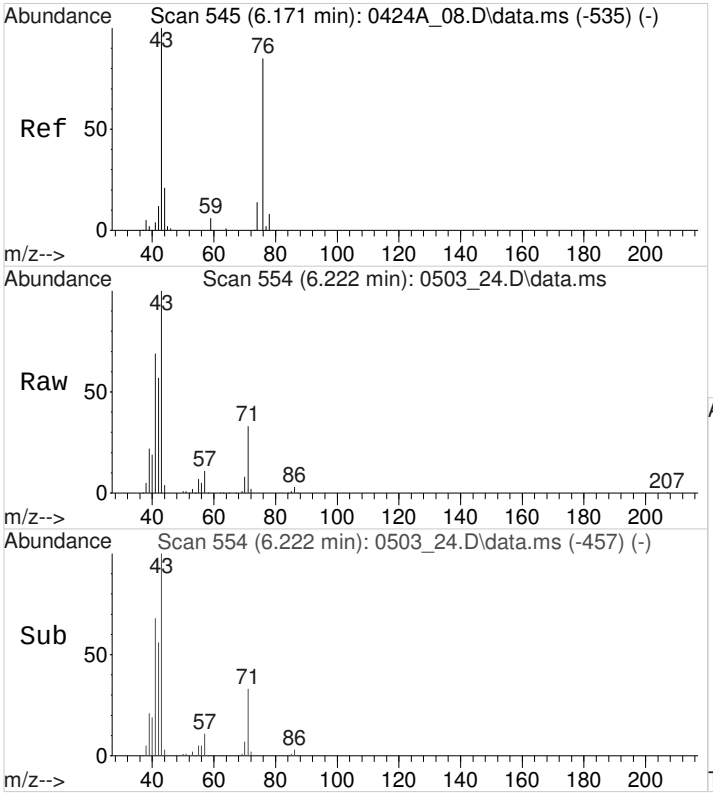


#28
Allyl Chloride
Concen: 18.9094607 ppbv
RT: 6.245 min Scan# 558
Delta R.T. 0.034 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 41 Resp: 486352

Ion	Ratio	Lower	Upper
41	100		
76	2.4	174.6	261.8#

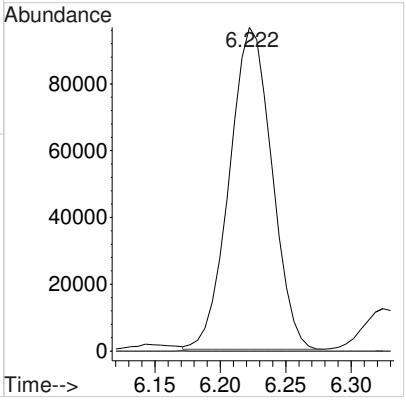


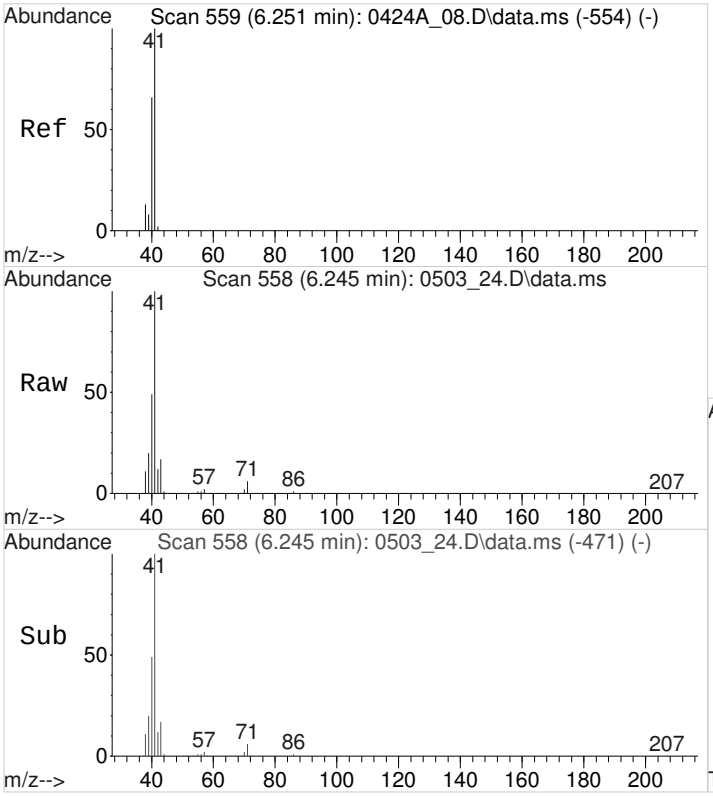


#29
METHYL ACETATE
Concen: 5.8560223 ppbv
RT: 6.222 min Scan# 554
Delta R.T. 0.051 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 43 Resp: 217004

Ion	Ratio	Lower	Upper
43	100		
74	0.0	15.4	23.2#
29	0.0	0.0	0.0

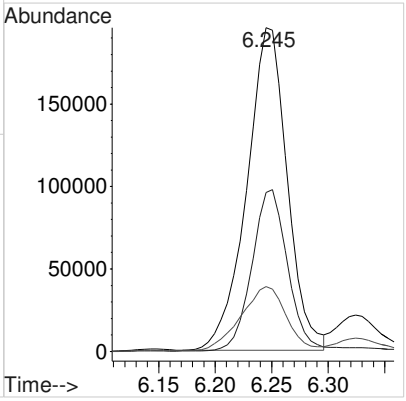


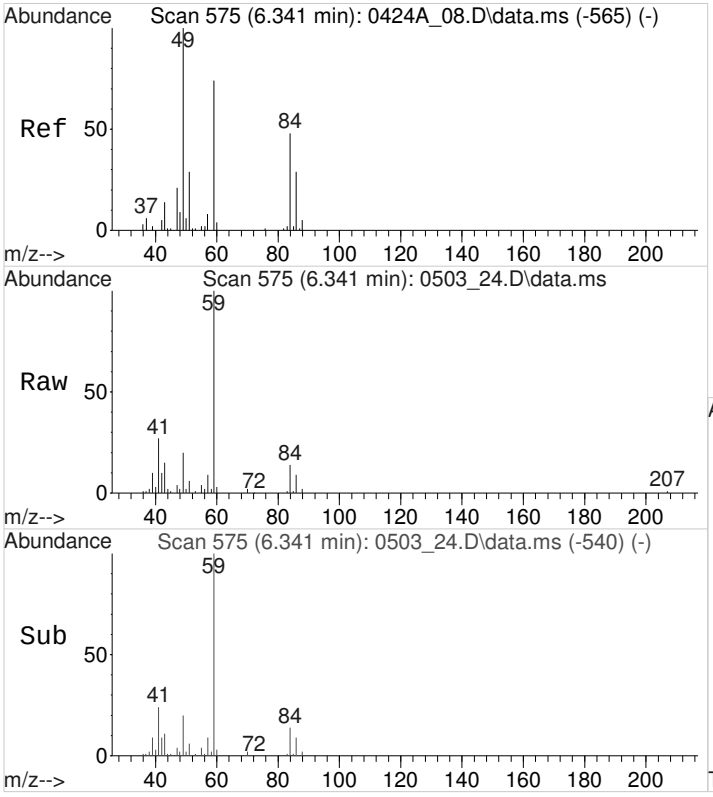


#30
ACETONITRILE
Concen: 27.5685909 ppbv
RT: 6.245 min Scan# 558
Delta R.T. -0.006 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 41 Resp: 486352

Ion	Ratio	Lower	Upper
41	100		
40	45.6	44.6	67.0
39	23.0	13.6	20.4#

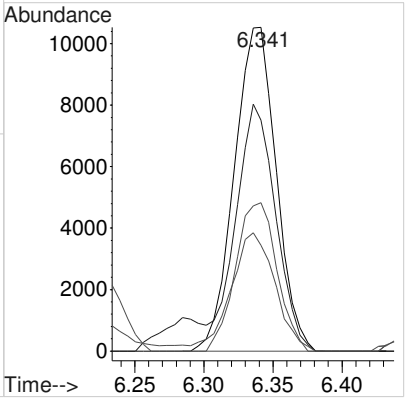


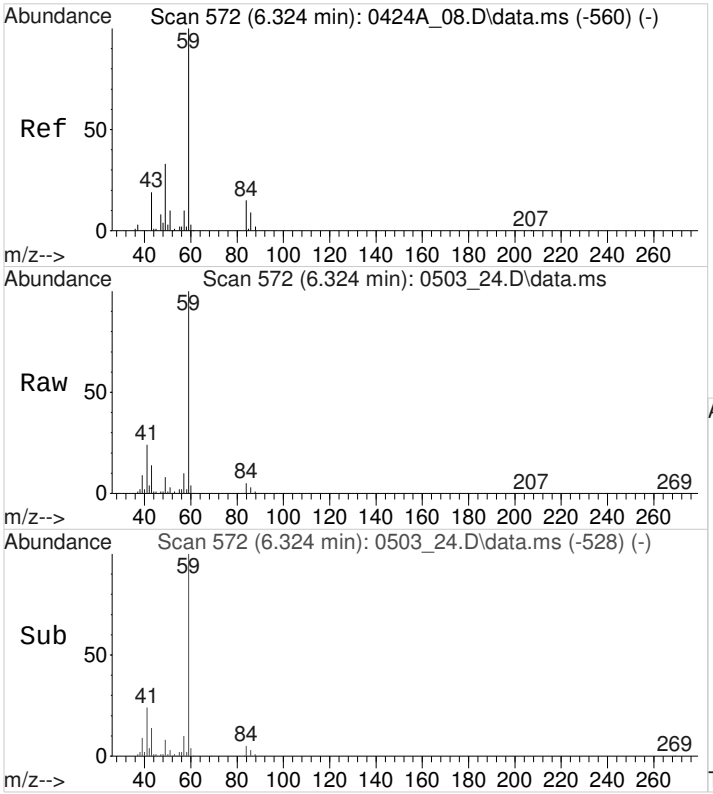


#31
Methylene Chloride
Concen: 1.0514188 ppbv
RT: 6.341 min Scan# 575
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 49 Resp: 22258

Ion	Ratio	Lower	Upper
49	100		
84	72.6	56.8	85.2
86	45.3	36.1	54.1
51	38.9	25.9	38.9

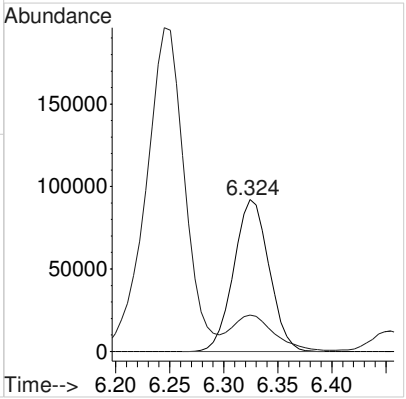


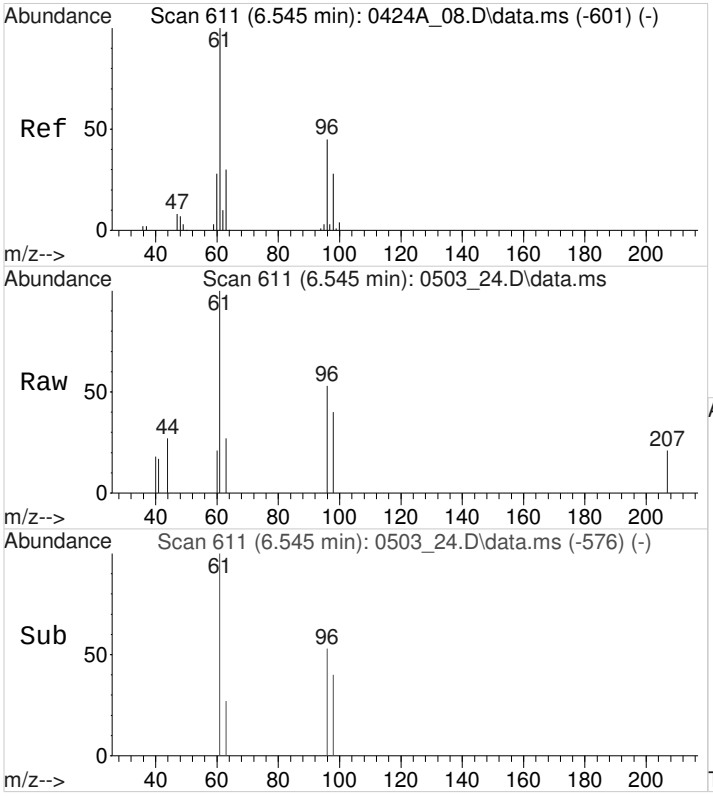


#32
TERT-BUTYL ALCOHOL
Concen: 4.9926996 ppbv
RT: 6.324 min Scan# 572
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 59 Resp: 209243

Ion	Ratio	Lower	Upper
59	100		
41	28.0	22.2	33.4

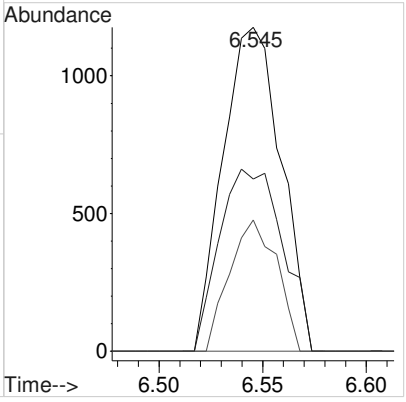


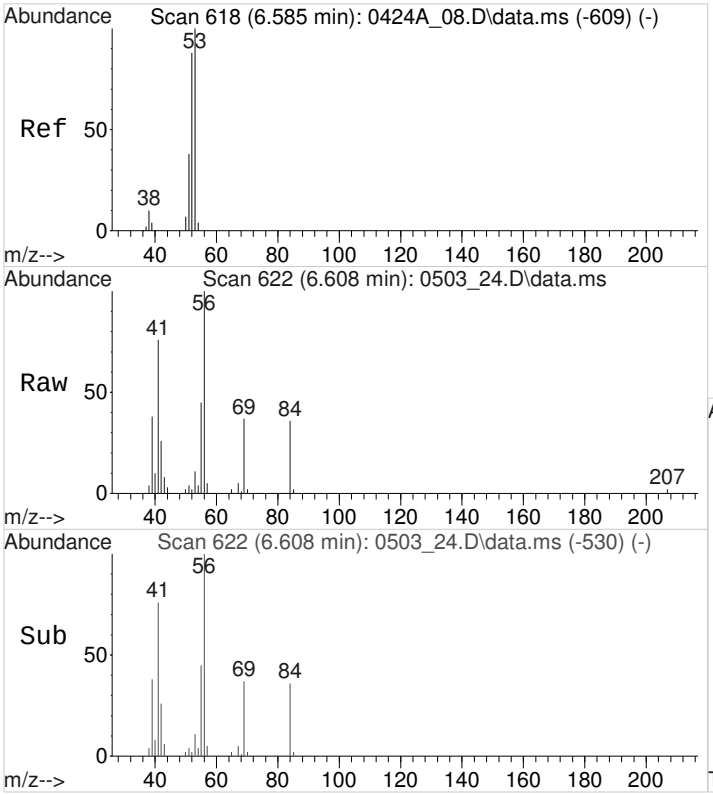


#34
Trans-1,2-Dichloroethene
Concen: 0.0901942 ppbv
RT: 6.545 min Scan# 611
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 61 Resp: 2294

Ion	Ratio	Lower	Upper
61	100		
96	61.1	49.5	74.3
98	33.0	31.0	46.6

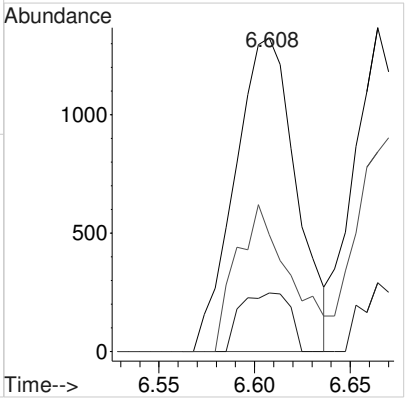


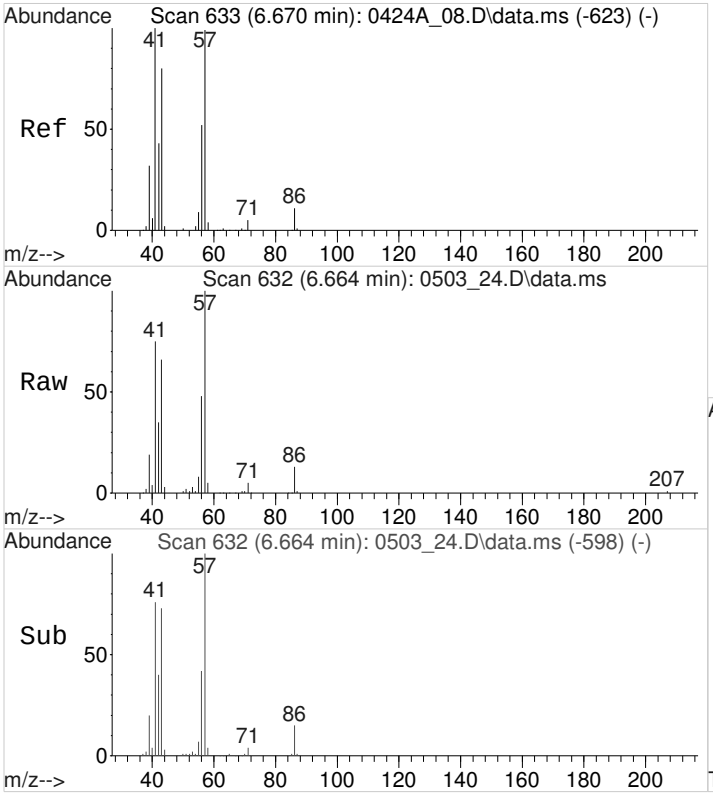


#35
ACRYLONITRILE
Concen: 0.1924027 ppbv
RT: 6.608 min Scan# 622
Delta R.T. 0.023 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 53 Resp: 2963

Ion	Ratio	Lower	Upper
53	100		
52	15.0	67.5	101.3#
51	40.9	29.0	43.6

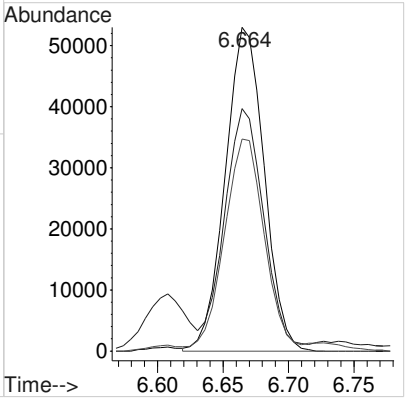


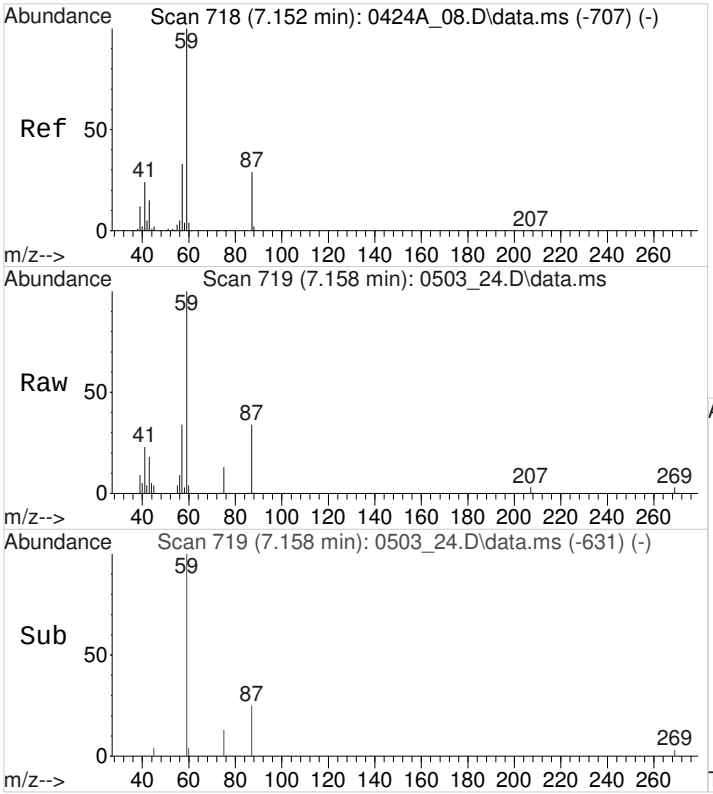


#36
n-Hexane
Concen: 3.5786100 ppbv
RT: 6.664 min Scan# 632
Delta R.T. -0.006 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 57 Resp: 109696

Ion	Ratio	Lower	Upper
57	100		
41	73.6	60.3	90.5
43	67.5	53.7	80.5

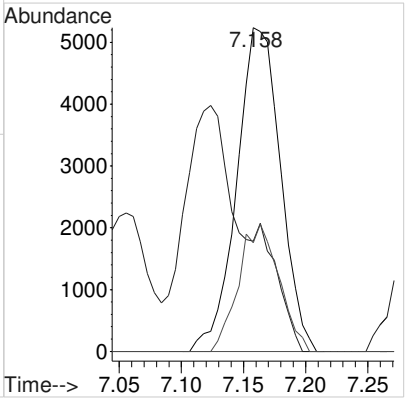


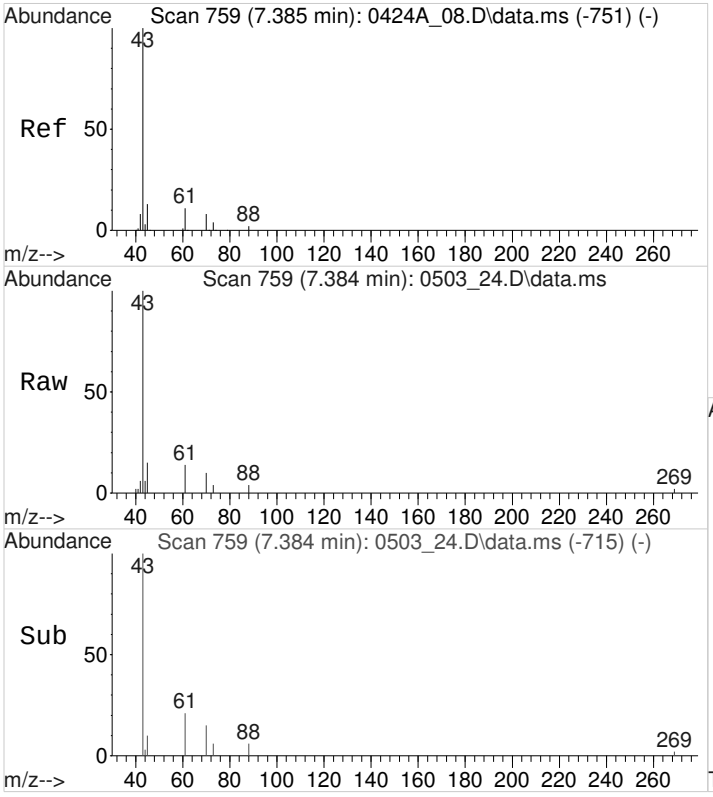


#40
ETHYL TERT-BUTYL ETHER
Concen: 0.2126608 ppbv
RT: 7.158 min Scan# 719
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 59 Resp: 12821

Ion	Ratio	Lower	Upper
59	100		
57	107.3	26.0	39.0#
87	36.2	28.8	43.2

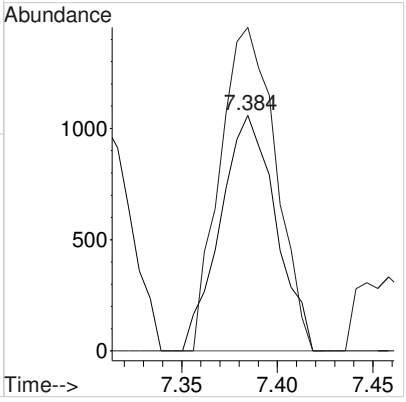


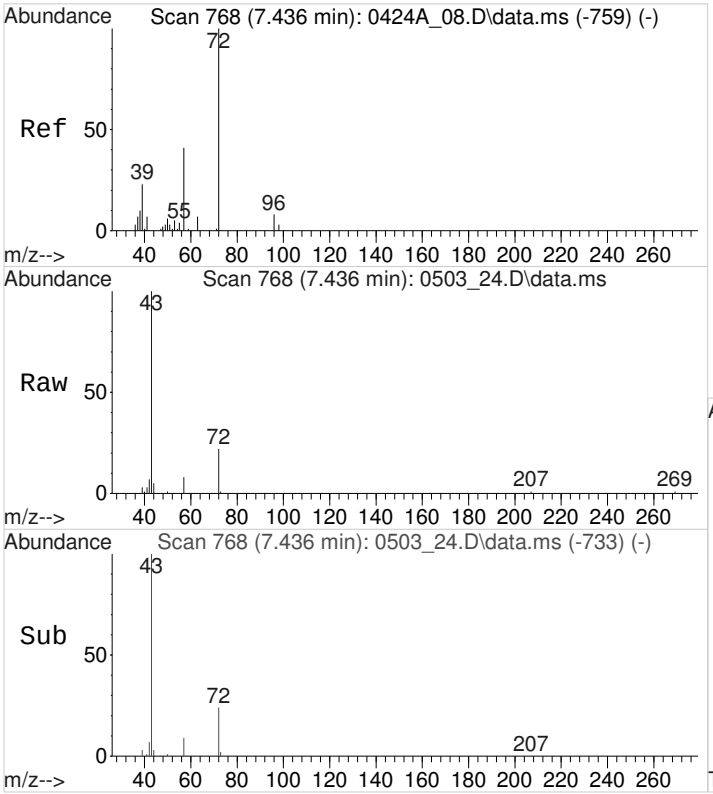


#41
ETHYL ACETATE
Concen: 0.4393119 ppbv
RT: 7.384 min Scan# 759
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 70 Resp: 2142

Ion	Ratio	Lower	Upper
70	100		
61	138.0	109.8	164.6

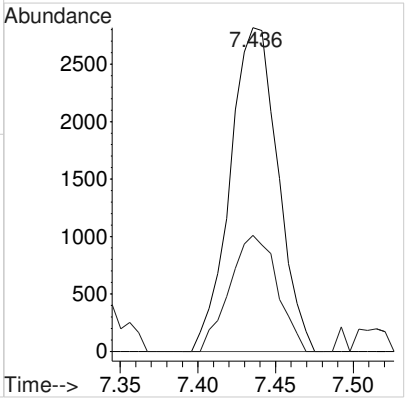


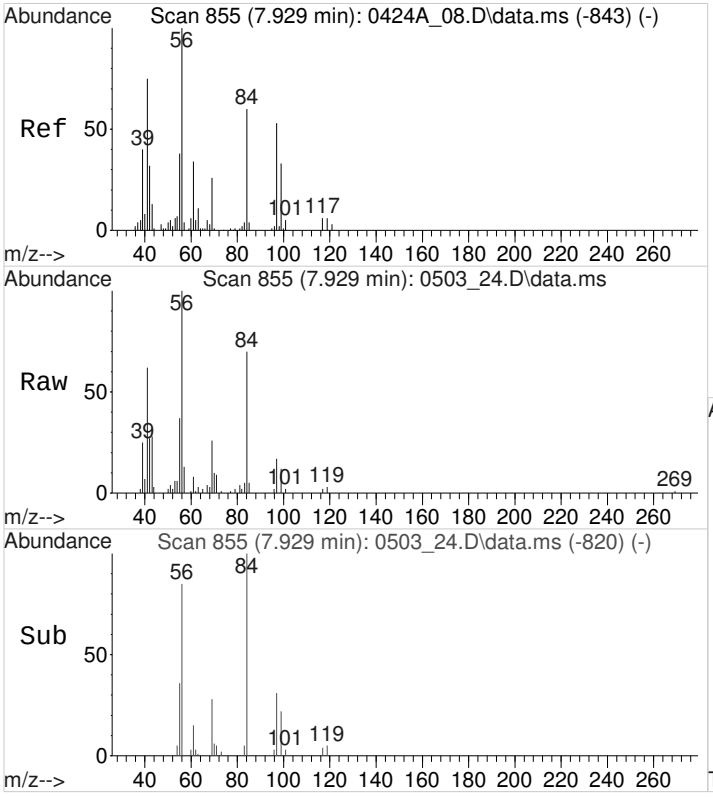


#42
2-Butanone (MEK)
Concen: 0.6277434 ppbv
RT: 7.436 min Scan# 768
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 72 Resp: 6003

Ion	Ratio	Lower	Upper
72	100		
57	35.7	27.4	41.0

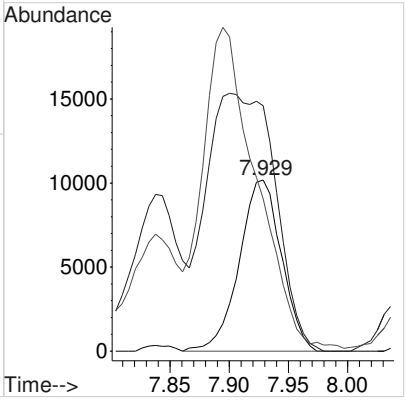


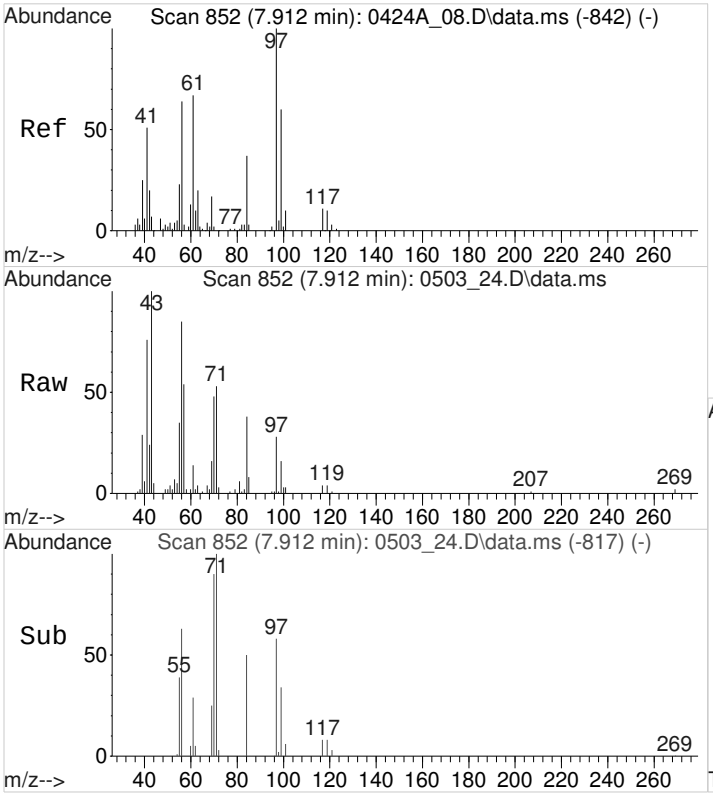


#46
Cyclohexane
Concen: 1.0432970 ppbv
RT: 7.929 min Scan# 855
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 84 Resp: 25232

Ion	Ratio	Lower	Upper
84	100		
56	243.1	107.1	160.7#
41	236.1	61.1	91.7#

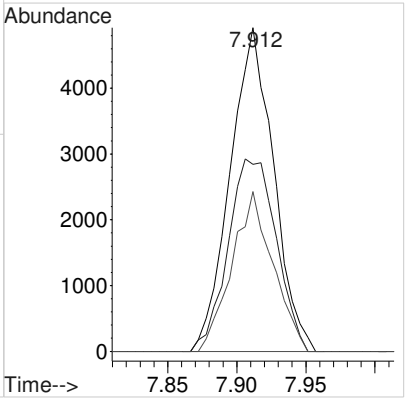


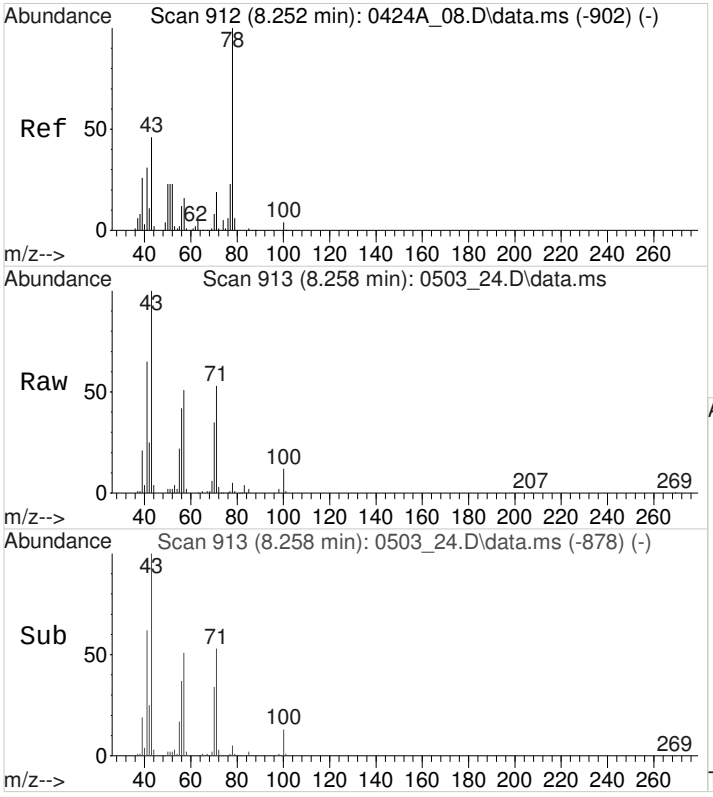


#47
1,1,1-Trichloroethane
Concen: 0.3336334 ppbv
RT: 7.912 min Scan# 852
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 97 Resp: 10776

Ion	Ratio	Lower	Upper
97	100		
99	66.1	51.0	76.6
61	46.6	37.3	55.9

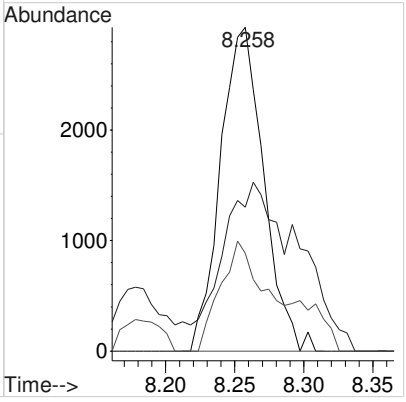


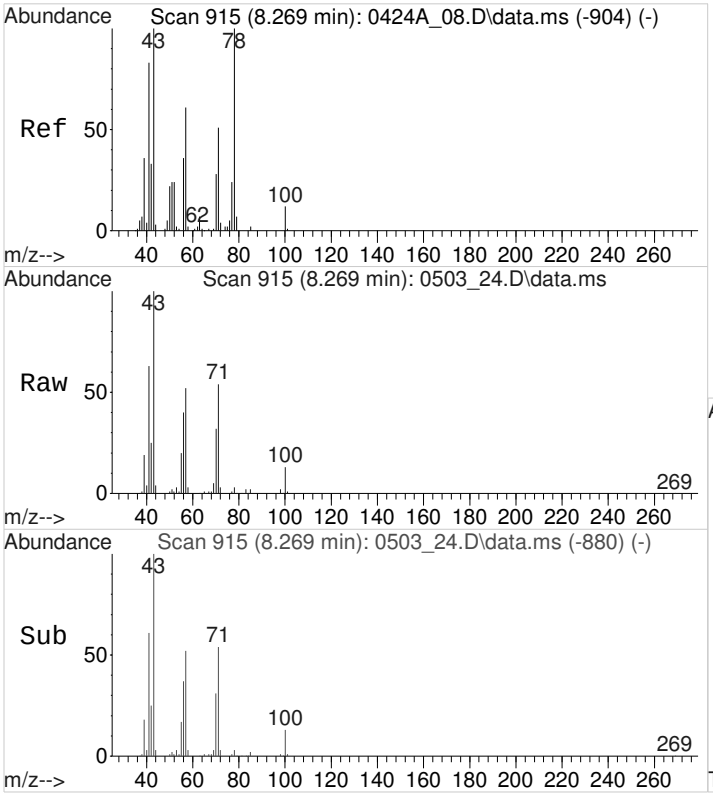


#51
Benzene
Concen: 0.1078499 ppbv
RT: 8.258 min Scan# 913
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 78 Resp: 6384

Ion	Ratio	Lower	Upper
78	100		
51	50.0	15.1	22.7#
77	46.6	18.9	28.3#

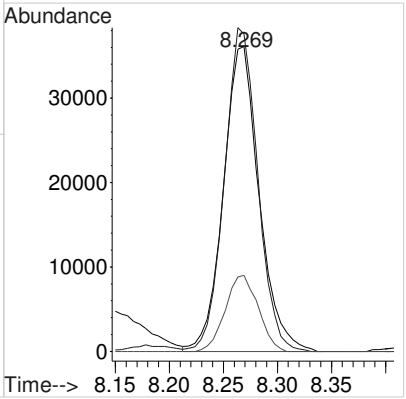


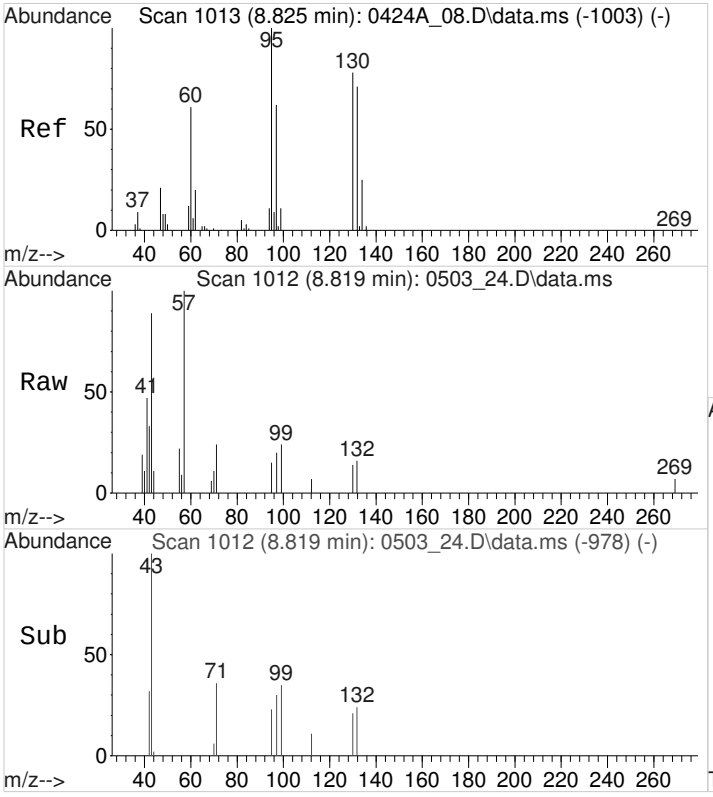


#54
Heptane
Concen: 4.0307404 ppbv
RT: 8.269 min Scan# 915
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 57 Resp: 82971

Ion	Ratio	Lower	Upper
57	100		
71	99.0	83.4	125.0
100	23.0	24.5	36.7#

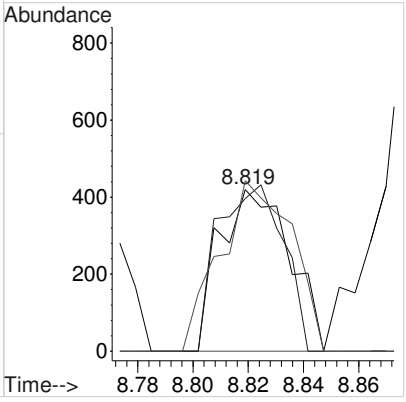


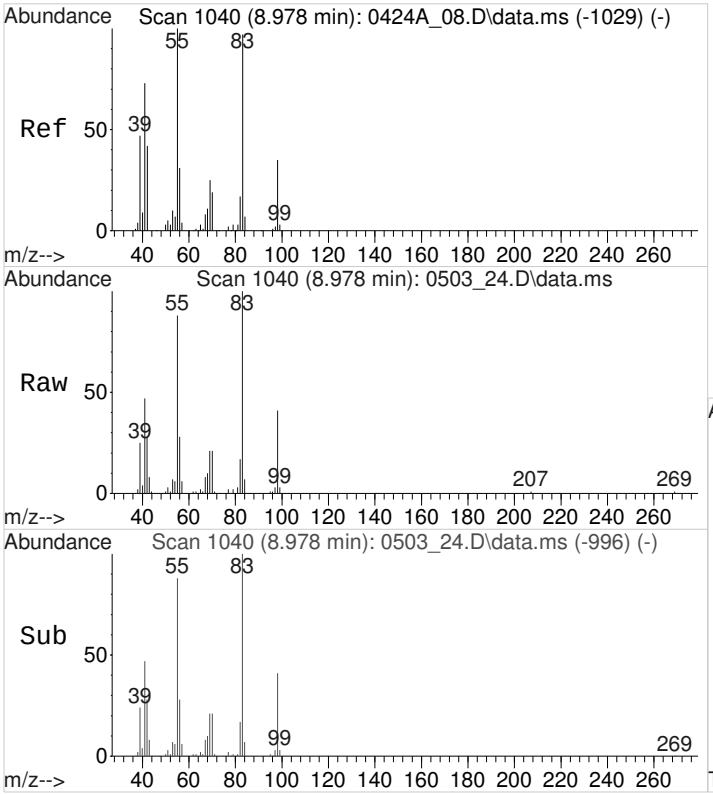


#55
Trichloroethene
Concen: 0.0300501 ppbv
RT: 8.819 min Scan# 1012
Delta R.T. -0.006 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 95 Resp: 740

Ion	Ratio	Lower	Upper
95	100		
130	95.8	77.5	116.3
132	108.4	74.1	111.1

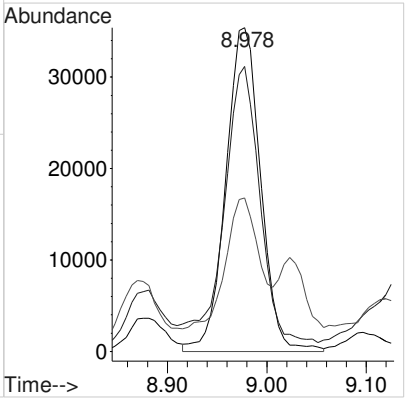


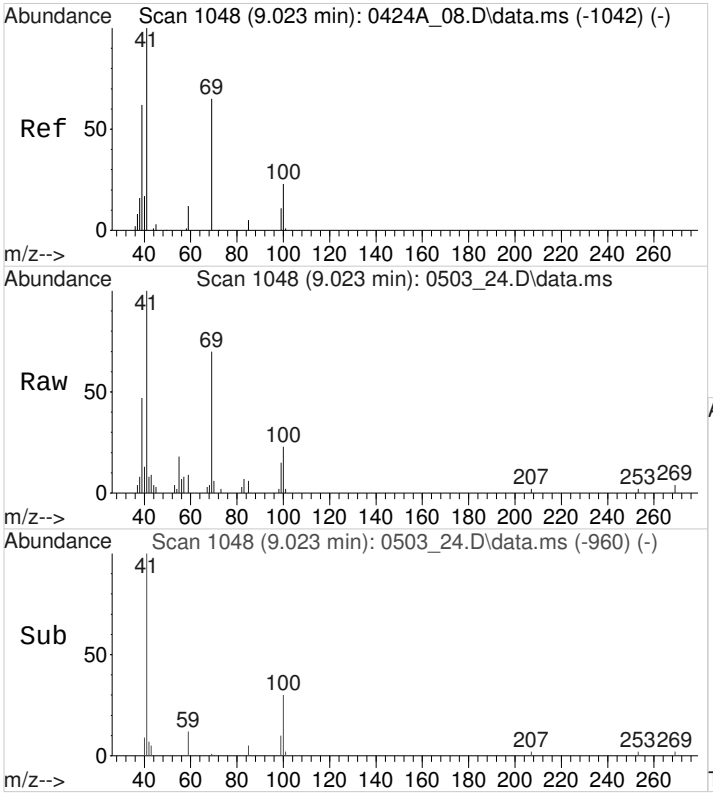


#57
METHYL CYCLOHEXANE
Concen: 2.5009070 ppbv
RT: 8.978 min Scan# 1040
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 83 Resp: 86076

Ion	Ratio	Lower	Upper
83	100		
55	91.5	73.4	110.0
41	52.2	35.3	52.9

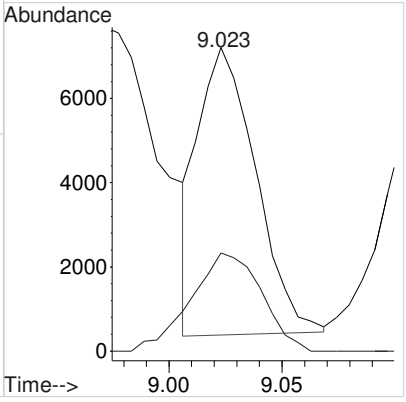


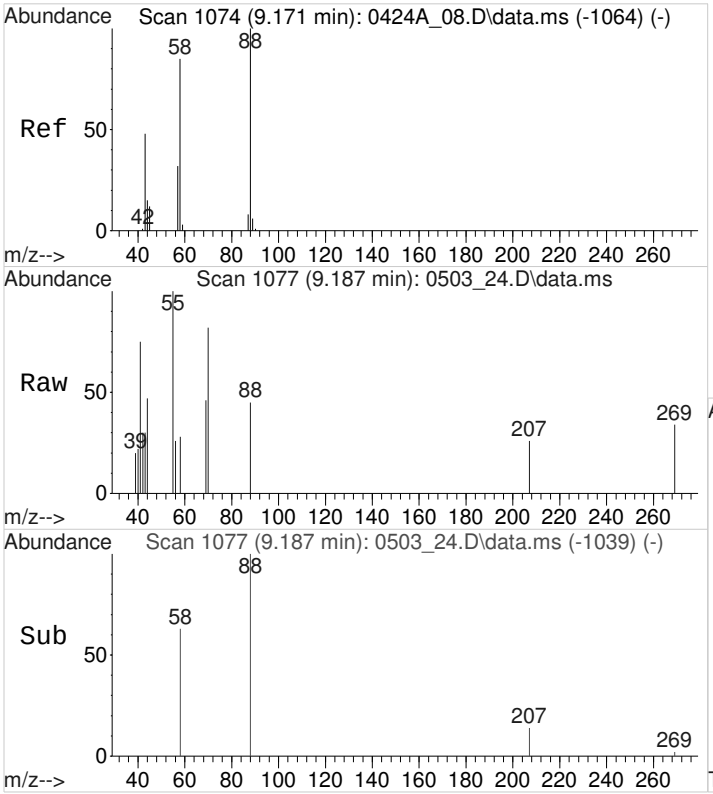


#59
Methyl Methacrylate
Concen: 0.5477168 ppbv
RT: 9.023 min Scan# 1048
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 69 Resp: 12083

Ion	Ratio	Lower	Upper
69	100		
100	41.6	27.3	40.9#

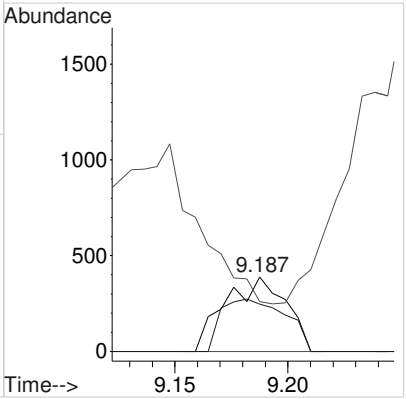


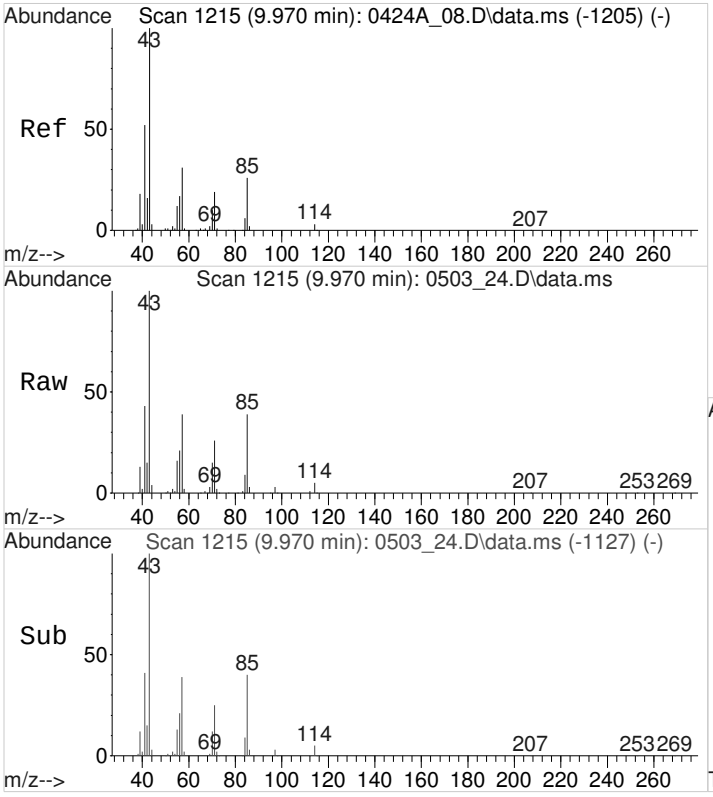


#60
1,4-Dioxane
Concen: 0.0532678 ppbv
RT: 9.187 min Scan# 1077
Delta R.T. 0.017 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 88 Resp: 728

Ion	Ratio	Lower	Upper
88	100		
58	74.0	59.5	89.3
43	222.0	25.0	37.6#

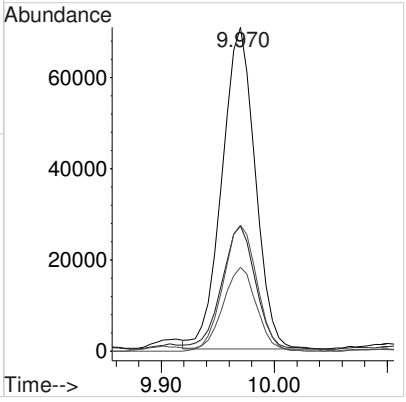


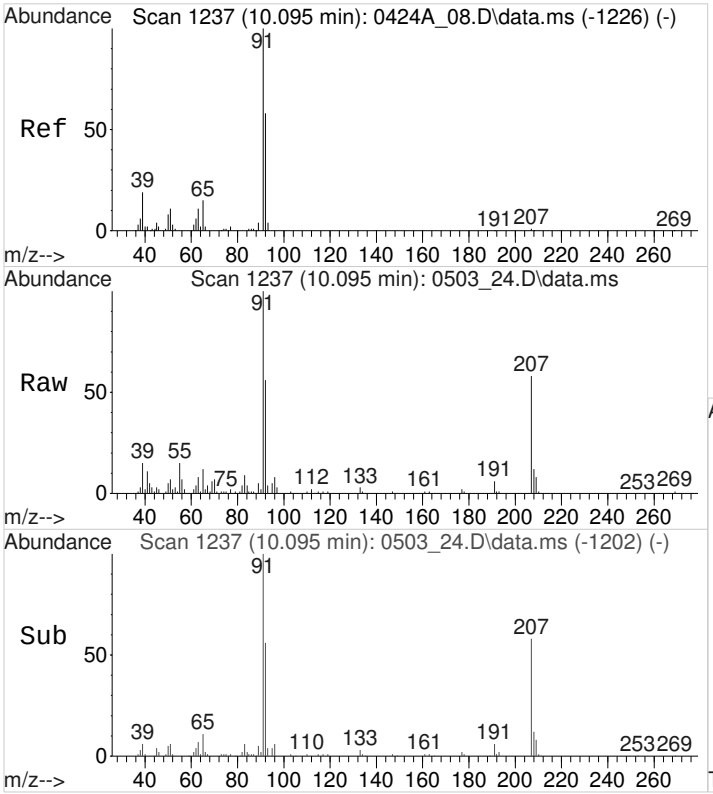


#64
n-OCTANE
Concen: 2.5865519 ppbv
RT: 9.970 min Scan# 1215
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 43 Resp: 142888

Ion	Ratio	Lower	Upper
43	100		
57	39.9	30.5	45.7
85	39.6	31.7	47.5
71	26.5	20.6	30.8

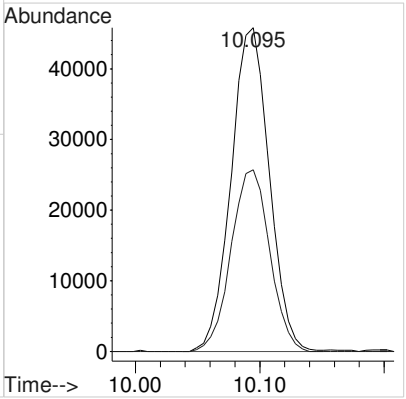


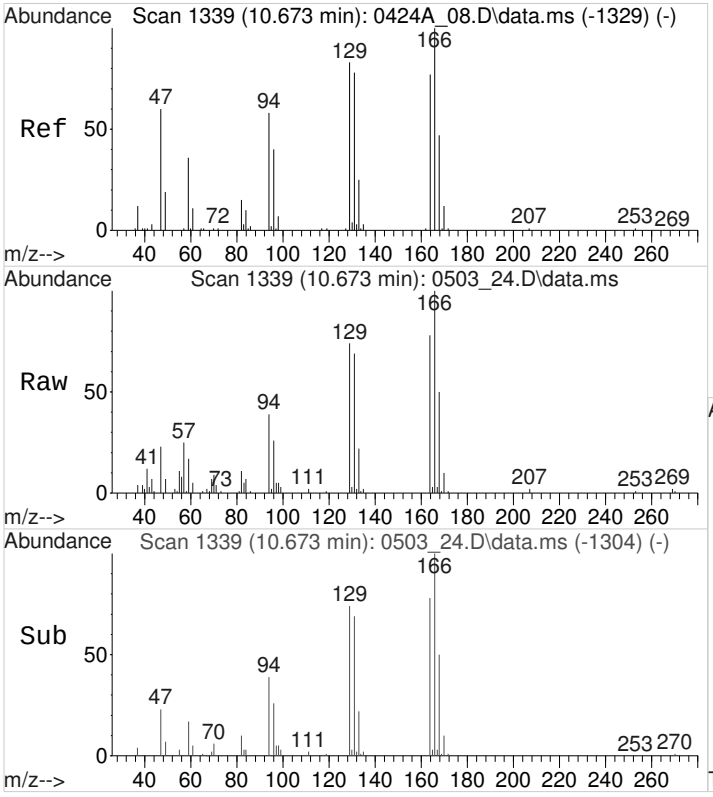


#65
Toluene
Concen: 1.3064721 ppbv
RT: 10.095 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 91 Resp: 97090

Ion	Ratio	Lower	Upper
91	100		
92	56.9	45.7	68.5

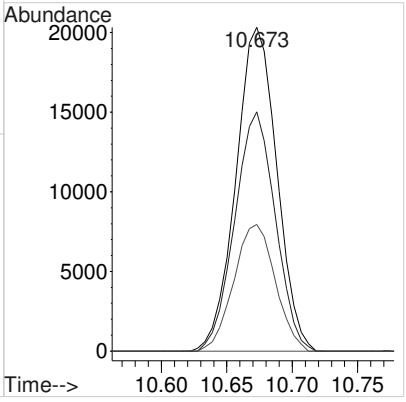


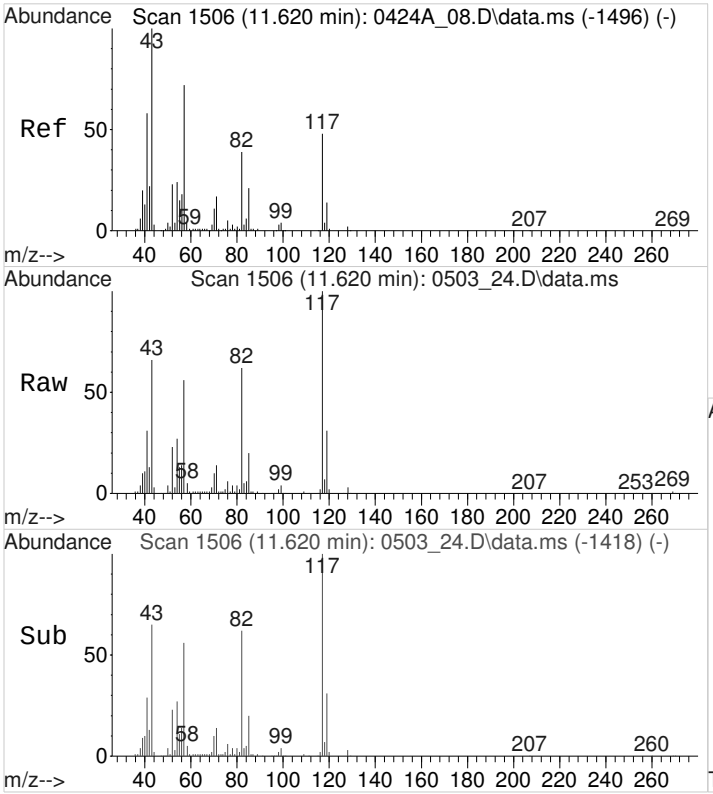


#68
Tetrachloroethene
Concen: 1.4126883 ppbv
RT: 10.673 min Scan# 1339
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion:166 Resp: 44227

Ion	Ratio	Lower	Upper
166	100		
129	73.0	59.4	89.0
94	39.5	32.2	48.2

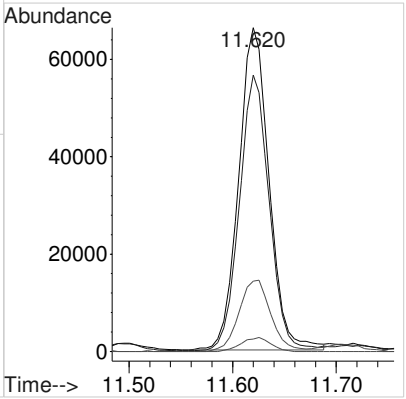


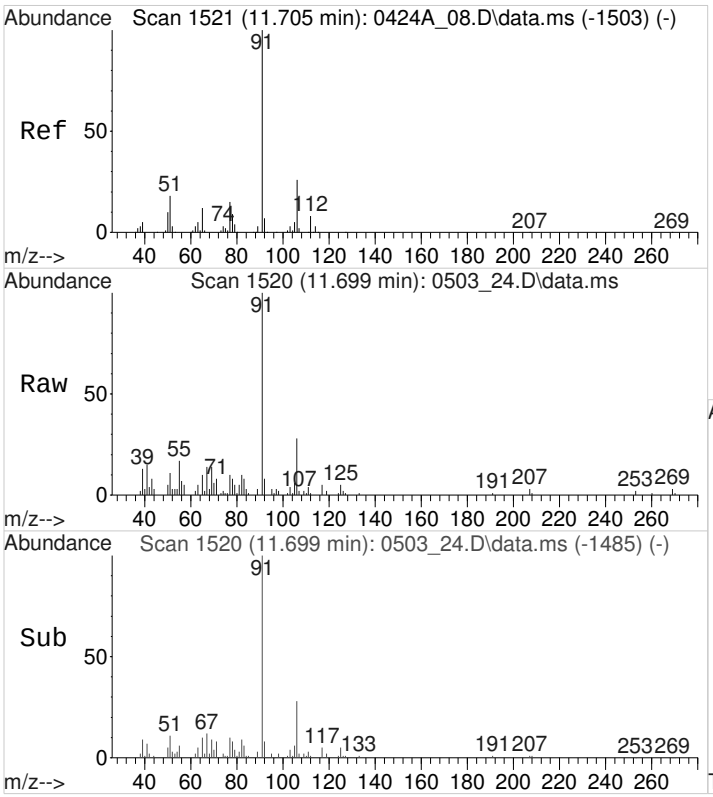


#73
NONANE
Concen: 2.3355102 ppbv
RT: 11.620 min Scan# 1506
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 43 Resp: 134730

Ion	Ratio	Lower	Upper
43	100		
57	83.6	68.6	102.8
71	23.2	18.0	27.0
128	4.2	3.3	4.9

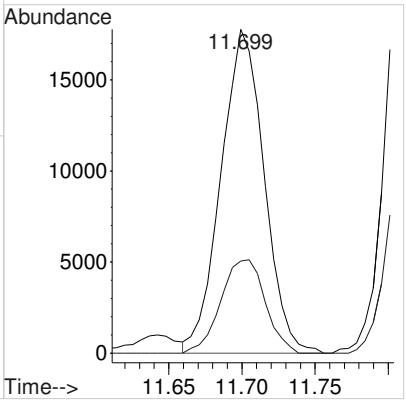


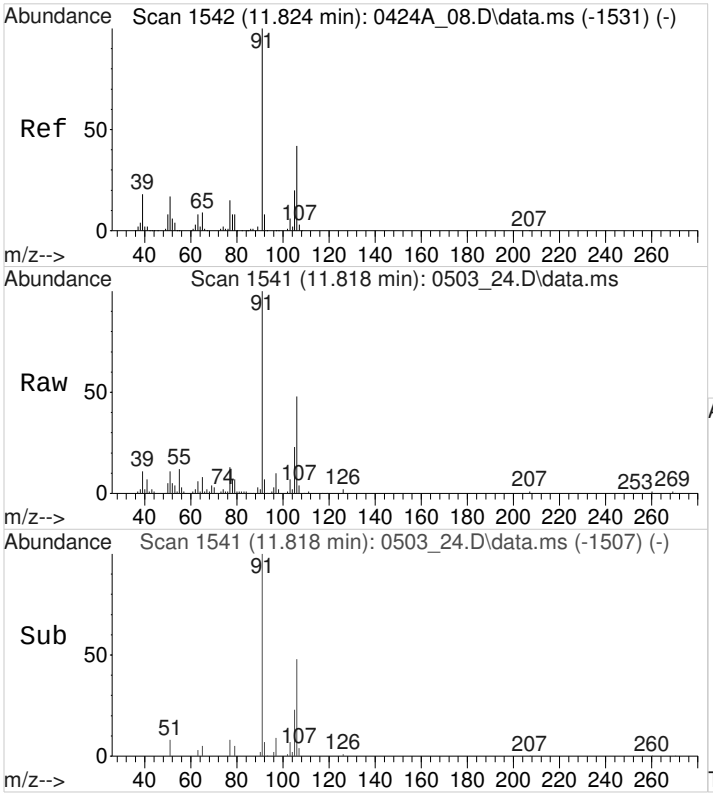


#75
Ethylbenzene
Concen: 0.3926503 ppbv
RT: 11.699 min Scan# 1520
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 91 Resp: 36475

Ion	Ratio	Lower	Upper
91	100		
106	29.7	24.2	36.4

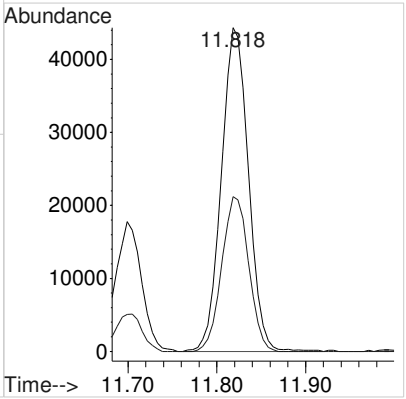


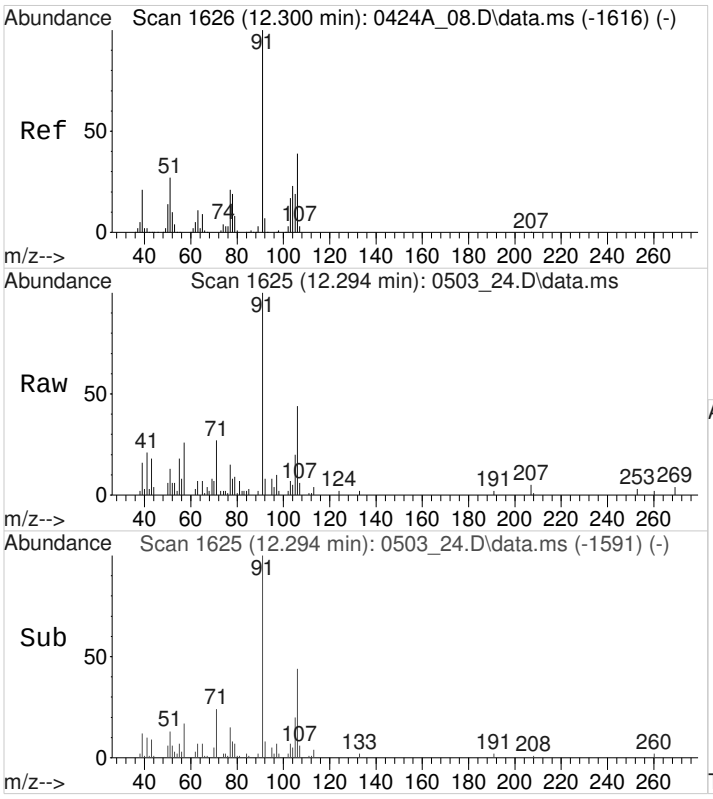


#76
M&P-Xylene
Concen: 1.3159606 ppbv
RT: 11.818 min Scan# 1541
Delta R.T. -0.006 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 91 Resp: 93886

Ion	Ratio	Lower	Upper
91	100		
106	47.6	38.9	58.3

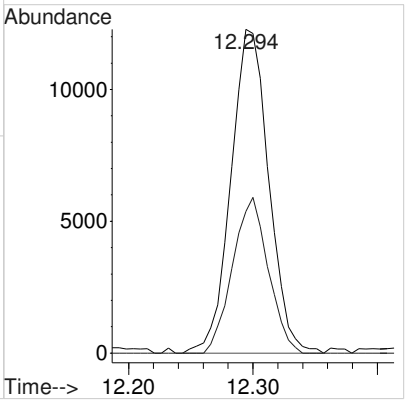


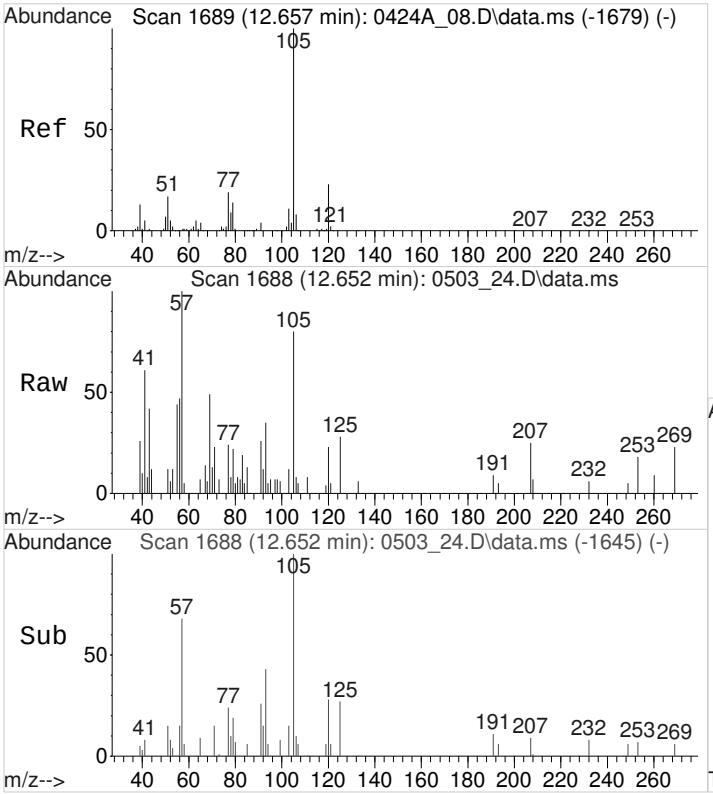


#77
O-Xylene
Concen: 0.3523442 ppbv
RT: 12.294 min Scan# 1625
Delta R.T. -0.006 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 91 Resp: 25835

Ion	Ratio	Lower	Upper
91	100		
106	45.3	36.2	54.4

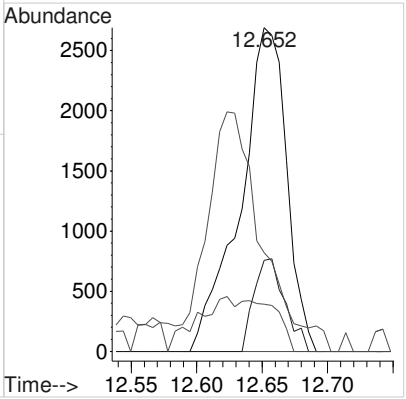


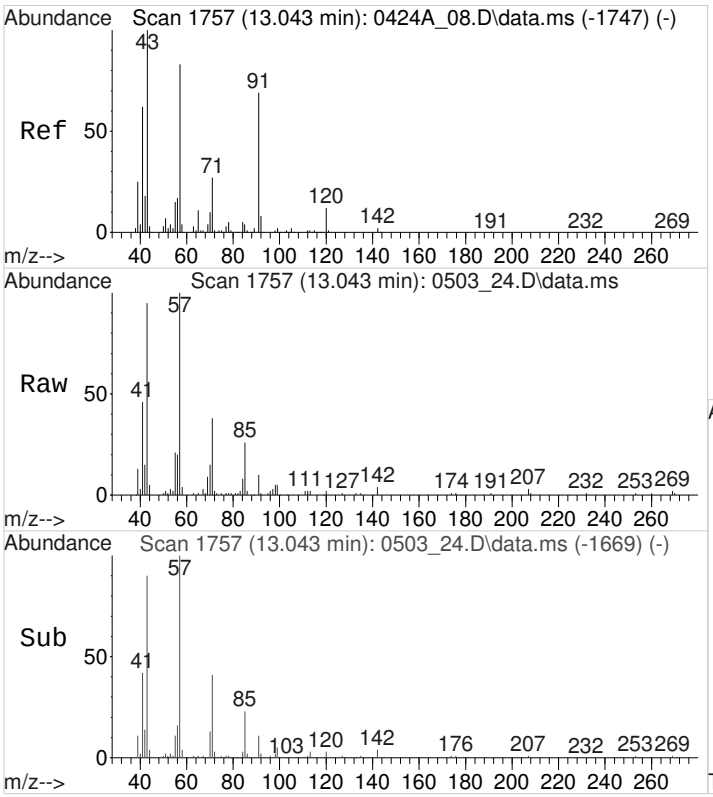


#82
Isopropylbenzene
Concen: 0.0674797 ppbv
RT: 12.652 min Scan# 1688
Delta R.T. -0.006 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion:105 Resp: 6606

Ion	Ratio	Lower	Upper
105	100		
120	19.1	20.6	31.0#
77	87.2	12.4	18.6#
51	14.0	8.2	12.4#

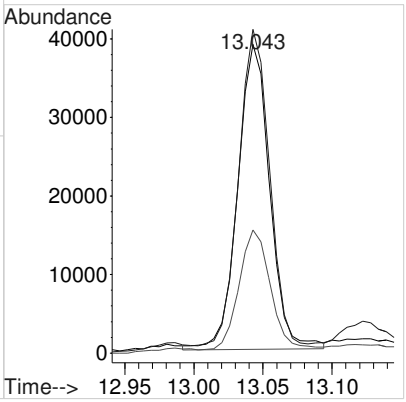


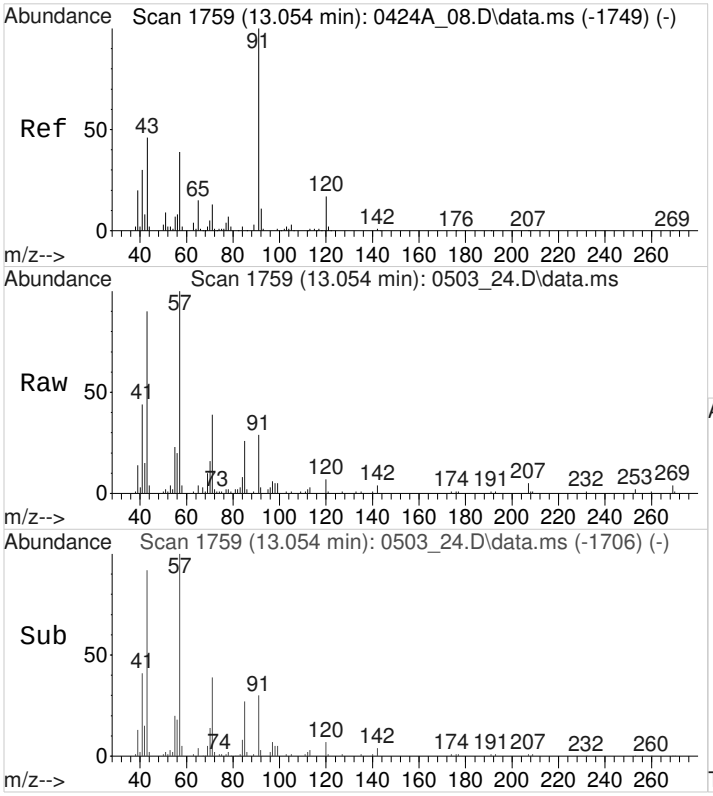


#83
n-DECANE
Concen: 1.1956865 ppbv
RT: 13.043 min Scan# 1757
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 43 Resp: 62898

Ion	Ratio	Lower	Upper
43	100		
57	98.9	83.8	125.8
71	38.5	31.8	47.6

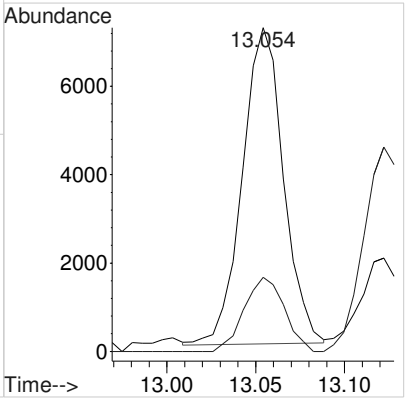


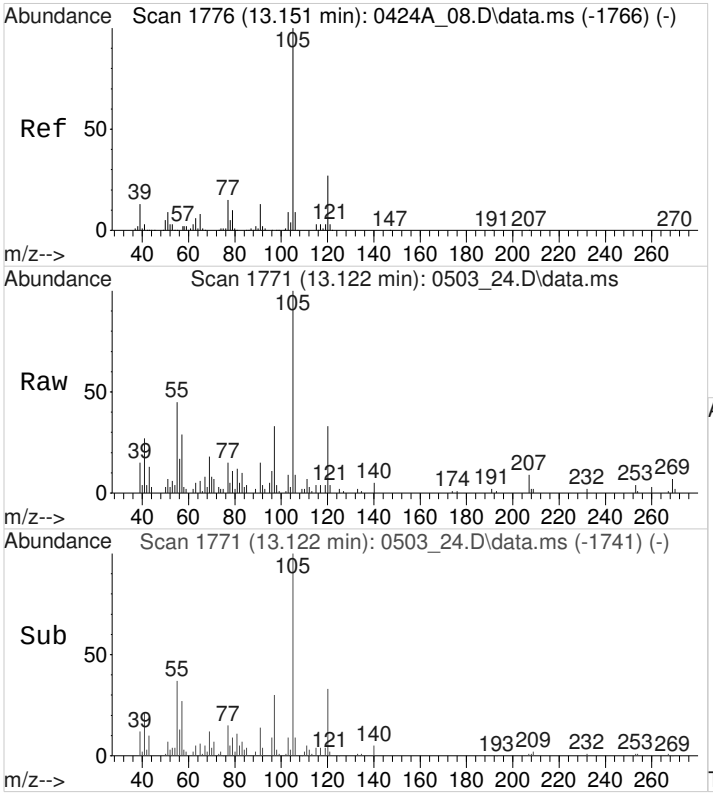


#85
n-Propylbenzene
Concen: 0.1032960 ppbv
RT: 13.054 min Scan# 1759
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion: 91 Resp: 11522

Ion	Ratio	Lower	Upper
91	100		
120	23.0	17.9	26.9

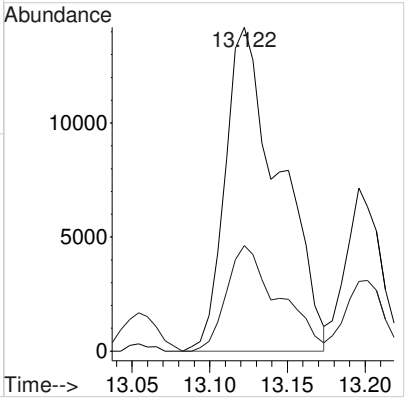


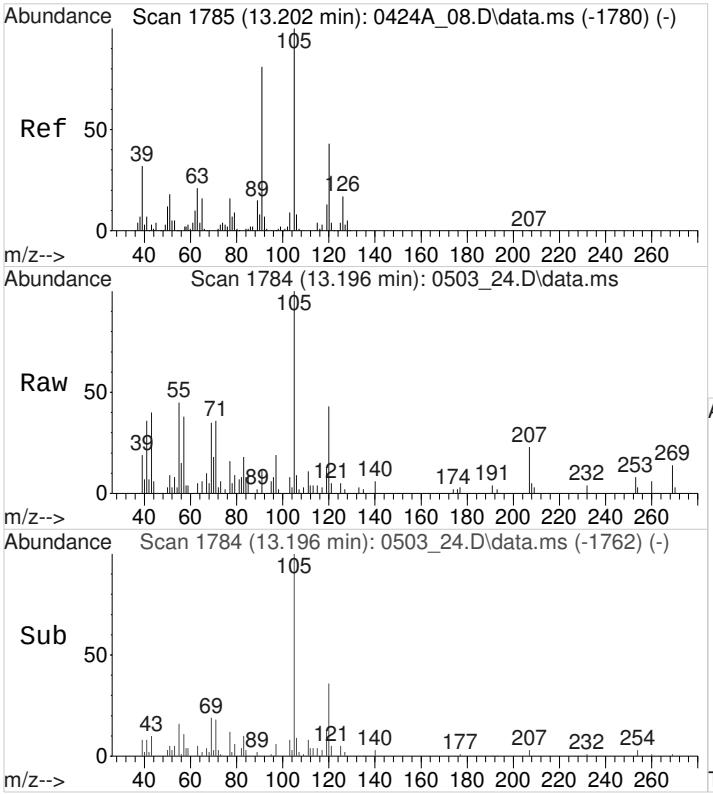


#86
4-Ethyltoluene
Concen: 0.3723755 ppbv
RT: 13.122 min Scan# 1771
Delta R.T. -0.028 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion:105 Resp: 34592

Ion	Ratio	Lower	Upper
105	100		
120	31.0	23.9	35.9

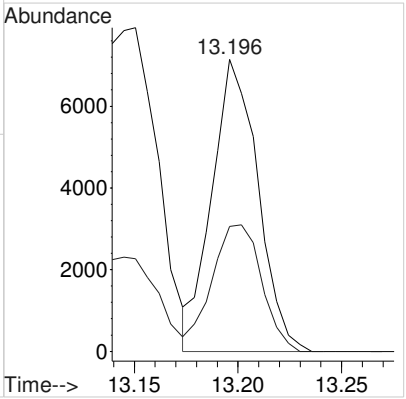


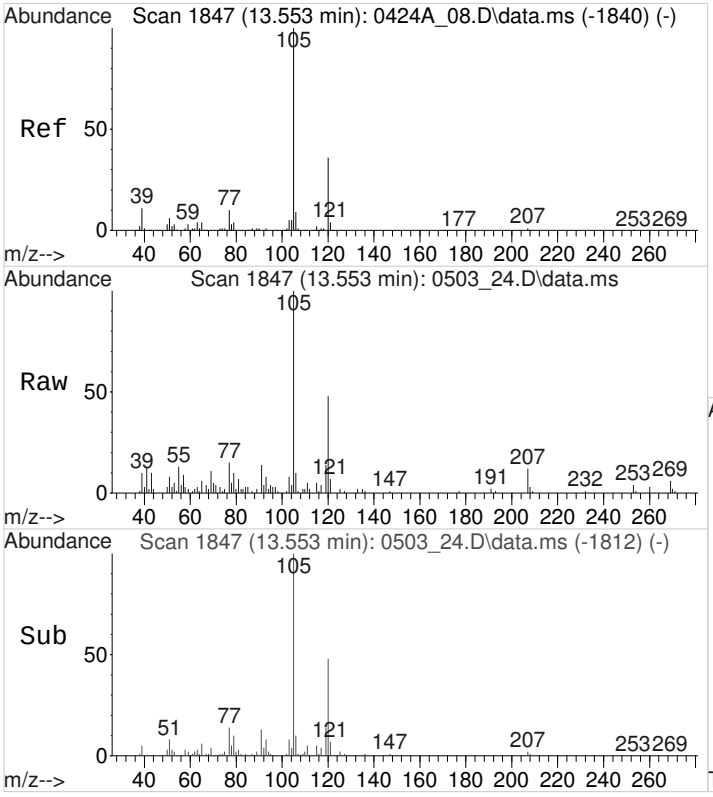


#89
1,3,5-Trimethylbenzene
Concen: 0.1444795 ppbv
RT: 13.196 min Scan# 1784
Delta R.T. -0.006 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion:105 Resp: 11009

Ion	Ratio	Lower	Upper
105	100		
120	46.9	38.8	58.2

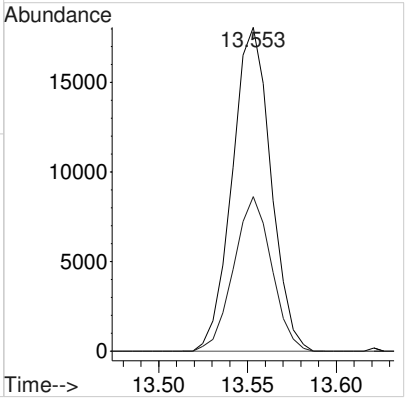


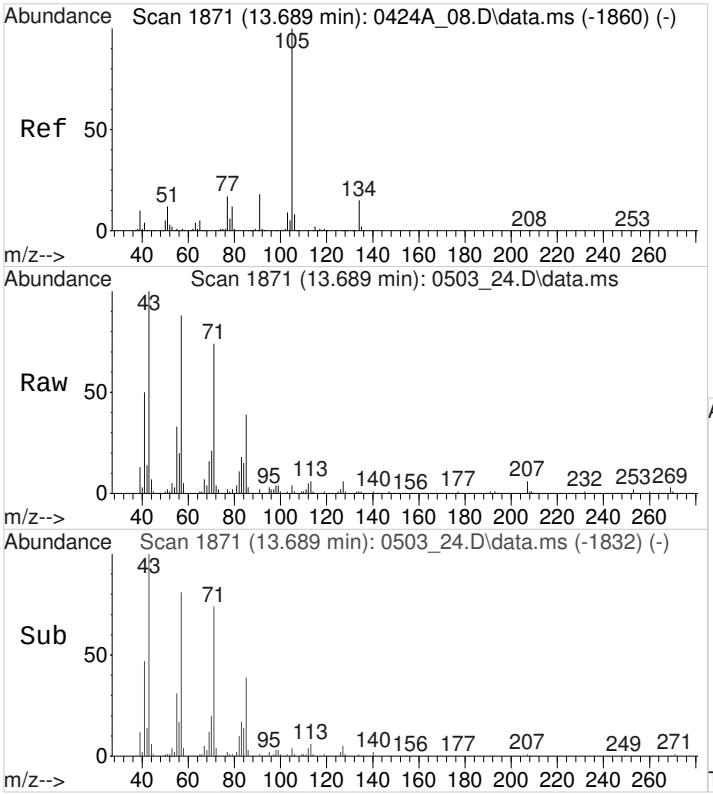


#91
1,2,4-Trimethylbenzene
Concen: 0.3493346 ppbv
RT: 13.553 min Scan# 1847
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion:105 Resp: 27418

Ion	Ratio	Lower	Upper
105	100		
120	46.7	35.7	53.5

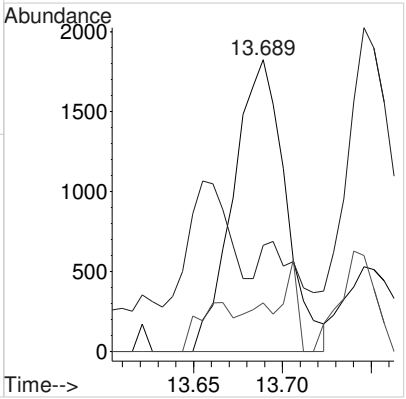


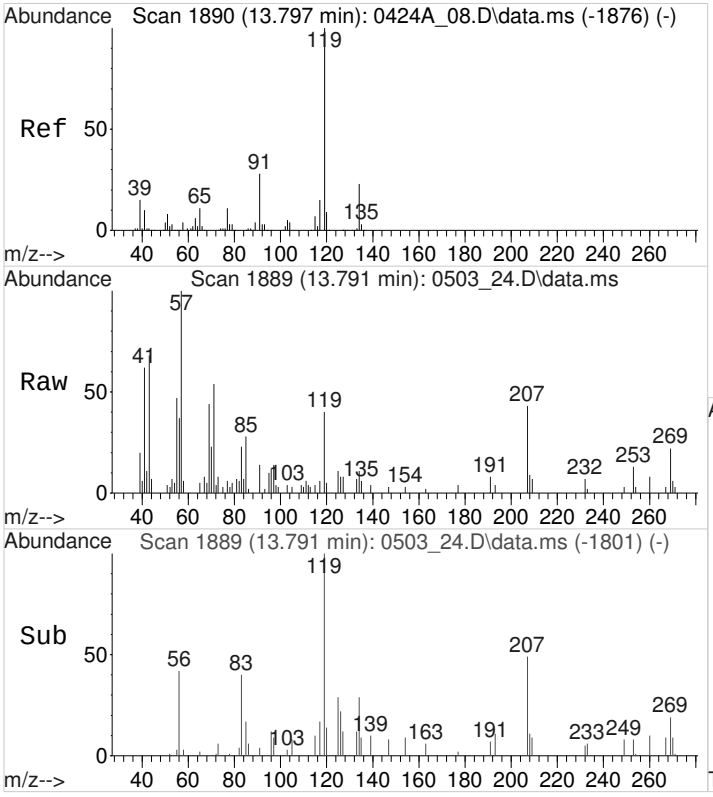


#92
sec-Butylbenzene
Concen: 0.0331782 ppbv
RT: 13.689 min Scan# 1871
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion:105 Resp: 3742

Ion	Ratio	Lower	Upper
105	100		
91	10.9	12.3	18.5#
134	15.2	15.0	22.6

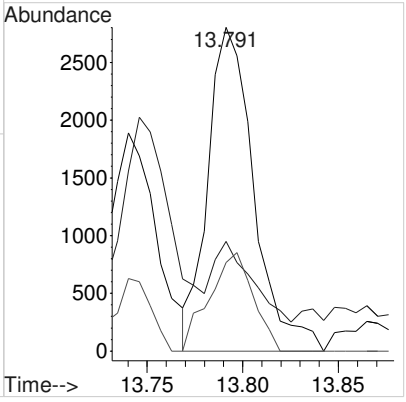


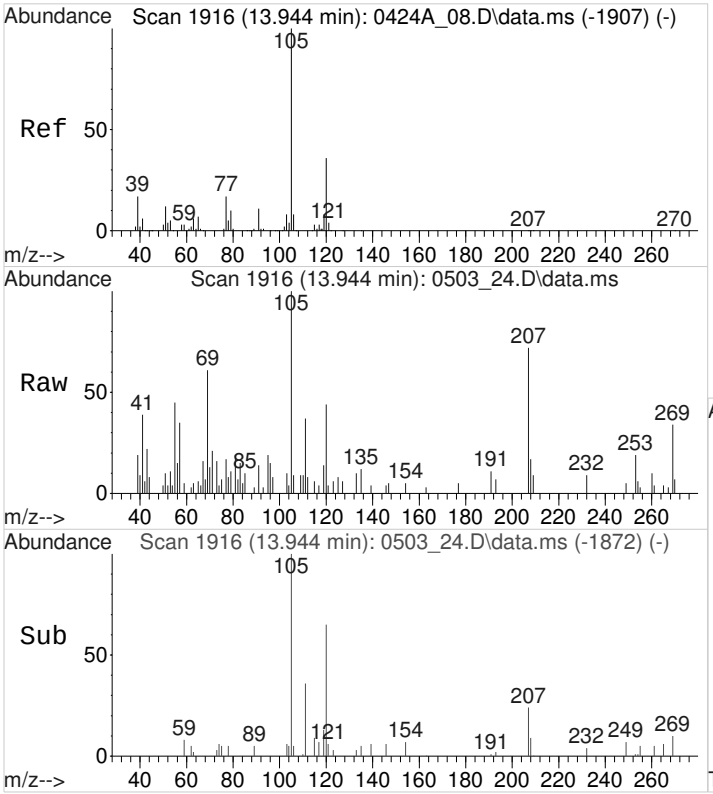


#94
P-ISOPROPYLTOLUENE
Concen: 0.0496351 ppbv
RT: 13.791 min Scan# 1889
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion:119 Resp: 4684

Ion	Ratio	Lower	Upper
119	100		
91	19.9	18.5	27.7
134	29.1	20.6	31.0

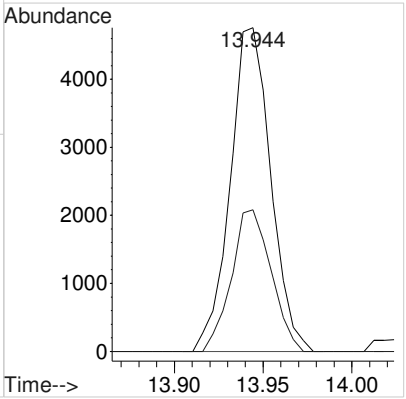




#96
1,2,3-TRIMETHYLBENZENE
Concen: 0.0958310 ppbv
RT: 13.944 min Scan# 1916
Delta R.T. 0.000 min
Lab File: 0503_24.D
Acq: 4 May 2024 3:13 am

Tgt Ion:105 Resp: 7563

Ion	Ratio	Lower	Upper
105	100		
120	42.8	34.0	51.0



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
SG-DUP 1

Lab Sample ID:	L1731355-04	**SDG:**	L1731355
Client Sample ID:	SG-DUP 1	**Collected Date/Time:**	04/29/24 00:00
Lab File ID:	0503_25	**Received Date/Time:**	05/01/24 09:00
Instrument ID:	AIRMS16	**Preparation Date/Time:**	05/04/24 03:51
Analytical Batch:	WG2279821	**Analysis Date/Time:**	05/04/24 03:51
Dilution Factor:	100	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	2 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
Acetone	67-64-1	5.93	1750		58.4	125
Benzene	71-43-2	8.25	ND		7.15	20.0
Benzyl Chloride	100-44-7	0	ND		5.98	20.0
Bromodichloromethane	75-27-4	0	ND		7.02	20.0
Bromoform	75-25-2	0	ND		7.32	60.0
Bromomethane	74-83-9	0	ND		9.82	20.0
1,3-Butadiene	106-99-0	0	ND		10.4	200
Carbon disulfide	75-15-0	6.17	25.1		10.2	20.0
Carbon tetrachloride	56-23-5	0	ND		7.32	20.0
Chlorobenzene	108-90-7	0	ND		8.32	20.0
Chloroethane	75-00-3	0	ND		9.96	20.0
Chloroform	67-66-3	0	ND		7.17	20.0
Chloromethane	74-87-3	4.45	ND		10.3	20.0
Cyclohexane	110-82-7	7.93	132		7.53	20.0
Dibromochloromethane	124-48-1	0	ND		7.27	20.0
1,2-Dibromoethane	106-93-4	0	ND		7.21	20.0
1,2-Dichlorobenzene	95-50-1	0	ND		12.8	20.0
1,3-Dichlorobenzene	541-73-1	0	ND		18.2	20.0
1,4-Dichlorobenzene	106-46-7	0	ND		5.57	20.0
1,2-Dichloroethane	107-06-2	0	ND		7.00	20.0
1,1-Dichloroethane	75-34-3	0	ND		7.23	20.0
1,1-Dichloroethene	75-35-4	0	ND		7.62	20.0
cis-1,2-Dichloroethene	156-59-2	0	ND		7.84	20.0
trans-1,2-Dichloroethene	156-60-5	6.55	ND		6.73	20.0
1,2-Dichloropropane	78-87-5	0	ND		7.60	20.0
cis-1,3-Dichloropropene	10061-01-5	0	ND		6.89	20.0
trans-1,3-Dichloropropene	10061-02-6	0	ND		7.28	20.0
Ethanol	64-17-5	5.48	936		26.5	250
Ethylbenzene	100-41-4	11.70	46.1		8.35	20.0
4-Ethyltoluene	622-96-8	13.12	43.3		7.83	20.0
Ethyl acetate	141-78-6	7.38	67.3		10.0	63.0
Trichlorofluoromethane	75-69-4	0	ND		8.19	20.0
Dichlorodifluoromethane	75-71-8	4.16	ND		13.7	20.0
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		7.93	20.0
1,2-Dichlorotetrafluoroethane	76-14-2	0	ND		8.90	20.0
Heptane	142-82-5	8.27	553		10.4	20.0
Hexachloro-1,3-butadiene	87-68-3	0	ND		10.5	63.0
n-Hexane	110-54-3	6.66	466		20.6	63.0
Isopropylbenzene	98-82-8	12.66	ND		7.77	20.0
Methylene Chloride	75-09-2	6.34	174		9.79	20.0
Methyl Butyl Ketone	591-78-6	0	ND		13.3	125
2-Butanone (MEK)	78-93-3	7.44	ND		8.14	125
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		7.65	125

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
SG-DUP 1

Lab Sample ID:	L1731355-04	**SDG:**	L1731355
Client Sample ID:	SG-DUP 1	**Collected Date/Time:**	04/29/24 00:00
Lab File ID:	0503_25	**Received Date/Time:**	05/01/24 09:00
Instrument ID:	AIRMS16	**Preparation Date/Time:**	05/04/24 03:51
Analytical Batch:	WG2279821	**Analysis Date/Time:**	05/04/24 03:51
Dilution Factor:	100	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	2 mL
Matrix:	Air	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
Methyl methacrylate	80-62-6	0	ND		8.76	20.0
MTBE	1634-04-4	0	ND		6.47	20.0
Naphthalene	91-20-3	0	ND		35.0	63.0
2-Propanol	67-63-0	5.96	598		26.4	125
Propene	115-07-1	0	ND		9.32	125
Styrene	100-42-5	0	ND		7.88	20.0
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		7.43	20.0
Tetrachloroethylene	127-18-4	10.67	154		8.14	20.0
Tetrahydrofuran	109-99-9	0	ND		7.34	20.0
Toluene	108-88-3	10.09	159		8.70	50.0
1,2,4-Trichlorobenzene	120-82-1	0	ND		14.8	63.0
1,1,1-Trichloroethane	71-55-6	0	ND		7.36	20.0
1,1,2-Trichloroethane	79-00-5	0	ND		7.75	20.0
Trichloroethylene	79-01-6	0	ND		6.80	20.0
1,2,4-Trimethylbenzene	95-63-6	13.55	39.1		7.64	20.0
1,3,5-Trimethylbenzene	108-67-8	13.20	ND		7.79	20.0
2,2,4-Trimethylpentane	540-84-1	0	ND		13.3	20.0
Vinyl chloride	75-01-4	0	ND		9.49	20.0
Vinyl Bromide	593-60-2	0	ND		8.52	20.0
Vinyl acetate	108-05-4	0	ND		11.6	63.0
Xylenes, Total	1330-20-7	12.30	192		13.5	60.0
m&p-Xylene	179601-23-1	11.82	151		13.5	40.0
o-Xylene	95-47-6	12.30	40.7		8.28	20.0

Sample Narrative:
Elevated RL due to sample matrix interference.

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_25.D
Acq On : 4 May 2024 3:51 am
Operator :
Sample : L1731355-04 100x WG2279821
Misc : 24D22236
ALS Vial : 25 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 04 13:49:04 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.708	130	213580	4.0000000	ppbv		0.00
50) 1,4-Difluorobenzene	8.541	114	907508	4.0000000	ppbv		0.00
74) Chlorobenzene-d5	11.642	117	813280	4.0000000	ppbv		0.00
System Monitoring Compounds							
88) 1,4-Bromofluorobenzene	12.895	95	559932	3.8627878	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 96.57%				
Target Compounds						Qvalue	
2) TPH (GC/MS) Low Fraction	10.430	TIC	21547005m	141.8025891	ppbv		
3) TPH-GRO (C5-C10)	10.430	TIC	20032446m	158.7075841	ppbv		
4) THC as Gas (C4-C12)	10.430	TIC	28990443m	183.9484556	ppbv		
6) BUTANE	4.550	43	36290	1.4549741	ppbv		99
7) 1,1-DIFLUOROETHANE	4.119	65	353092	35.2218861	ppbv		100
8) Dichlorodifluoromethane	4.164	85	1218	0.0327804	ppbv		89
11) Chloromethane	4.448	50	1104	0.0719667	ppbv		93
16) ISOPENTANE	5.122	43	35508	2.0094829	ppbv		96
19) PENTANE	5.377	43	86431	2.5559918	ppbv		99
20) Ethanol	5.479	45	77714	9.3633430	ppbv		99
21) ACROLEIN	5.808	56	2660	0.3113415	ppbv		91
24) Acetone	5.927	58	168814	17.5253376	ppbv		75
26) 2-Propanol	5.961	45	232170	5.9830035	ppbv	#	1
27) Carbon Disulfide	6.171	76	14149	0.2511630	ppbv		100
28) Allyl Chloride	6.245	41	491208	18.8152495	ppbv	#	1
29) METHYL ACETATE	6.222	43	249777	6.6405422	ppbv	#	58
30) ACETONITRILE	6.245	41	491208	27.4312380	ppbv	#	84
31) Methylene Chloride	6.336	49	37438	1.7422816	ppbv		97
32) TERT-BUTYL ALCOHOL	6.324	59	225324	5.2967328	ppbv		99
34) Trans-1,2-Dichloroethene	6.545	61	2177	0.0843257	ppbv		91
35) ACRYLONITRILE	6.608	53	3258	0.2084235	ppbv	#	40
36) n-Hexane	6.664	57	144910	4.6573411	ppbv		99
40) ETHYL TERT-BUTYL ETHER	7.158	59	12889	0.2106206	ppbv	#	17
41) ETHYL ACETATE	7.384	70	3331	0.6730453	ppbv		97
42) 2-Butanone (MEK)	7.435	72	6028	0.6210165	ppbv		93
46) Cyclohexane	7.929	84	32400	1.3198282	ppbv	#	1
51) Benzene	8.252	78	7951	0.1330807	ppbv	#	1
54) Heptane	8.269	57	114892	5.5298650	ppbv	#	92
57) METHYL CYCLOHEXANE	8.978	83	112020	3.2246106	ppbv		94
64) n-OCTANE	9.970	43	189681	3.4018527	ppbv		98
65) Toluene	10.095	91	119271	1.5901083	ppbv		99
68) Tetrachloroethene	10.673	166	48558	1.5366887	ppbv		99
73) NONANE	11.620	43	178990	3.0740609	ppbv		98
75) Ethylbenzene	11.699	91	43601	0.4613483	ppbv		97
76) M&P-Xylene	11.818	91	109698	1.5113416	ppbv		100
77) O-Xylene	12.300	91	30361	0.4070020	ppbv		97
82) Isopropylbenzene	12.657	105	8097	0.0812981	ppbv	#	48
83) n-DECANE	13.043	43	72590	1.3563731	ppbv		98
85) n-Propylbenzene	13.054	91	12903	0.1137021	ppbv		98
86) 4-Ethyltoluene	13.122	105	40946	0.4332502	ppbv		98

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_25.D
Acq On : 4 May 2024 3:51 am
Operator :
Sample : L1731355-04 100x WG2279821
Misc : 24D22236
ALS Vial : 25 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 04 13:49:04 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

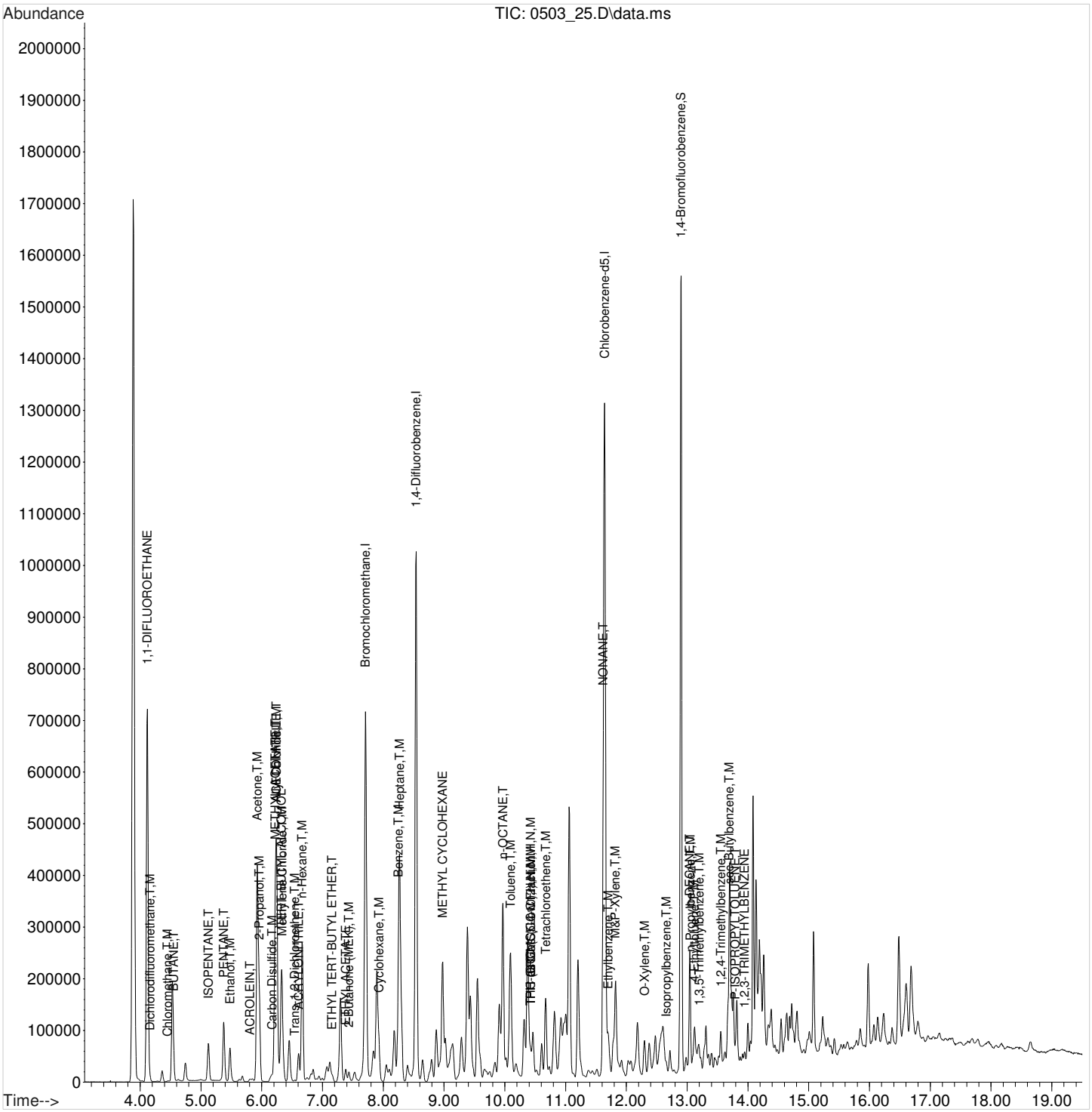
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) 1,3,5-Trimethylbenzene	13.202	105	12830	0.1655034	ppbv	98
91) 1,2,4-Trimethylbenzene	13.553	105	31179	0.3904720	ppbv	99
92) sec-Butylbenzene	13.689	105	4640	0.0404379	ppbv	94
94) P-ISOPROPYLTOLUENE	13.791	119	4154	0.0432674	ppbv	92
96) 1,2,3-TRIMETHYLBENZENE	13.944	105	8110	0.1010077	ppbv	97

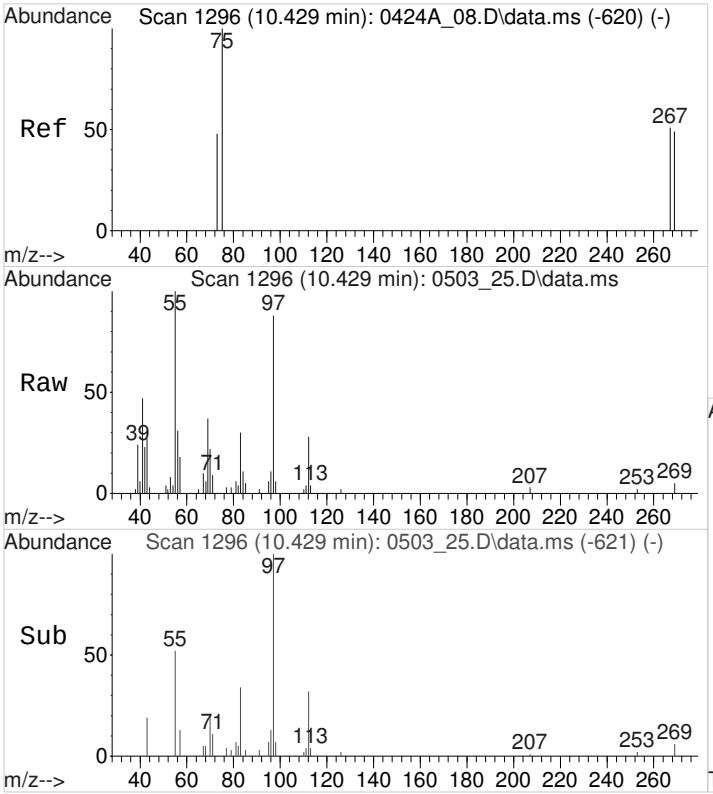
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_25.D
Acq On : 4 May 2024 3:51 am
Operator :
Sample : L1731355-04 100x WG2279821
Misc : 24D22236
ALS Vial : 25 Sample Multiplier: 1
InstName : AIRMS16

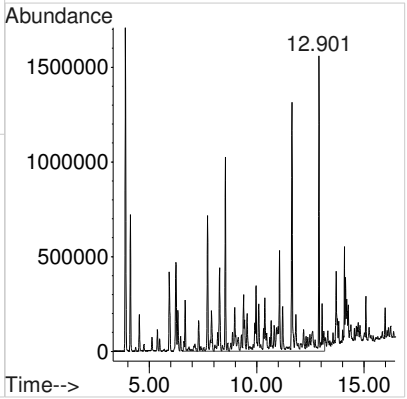
Quant Time: May 04 13:49:04 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

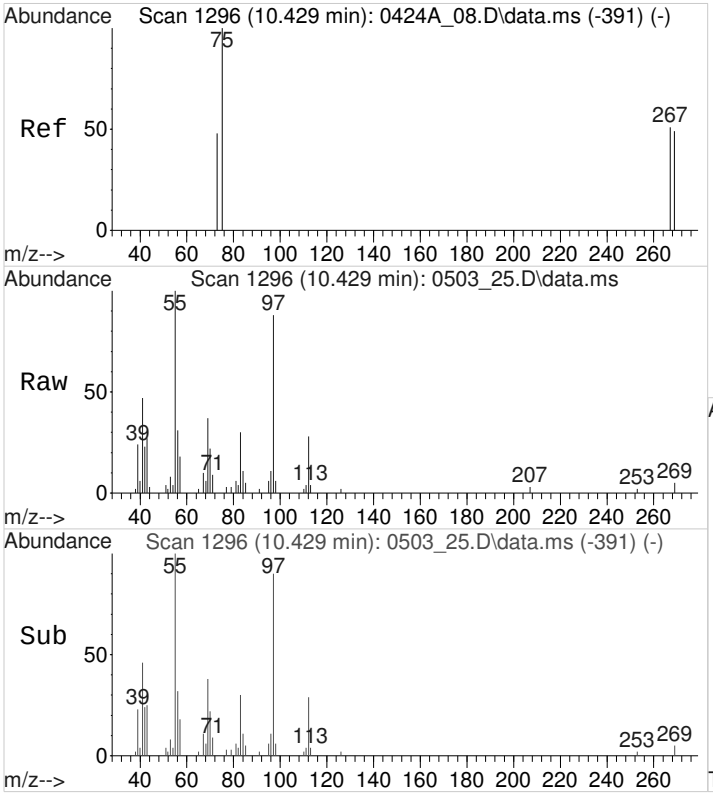




#2
TPH (GC/MS) Low Fraction
Concen: 141.8025891 ppbv m
RT: 10.430 min Scan# 1296
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

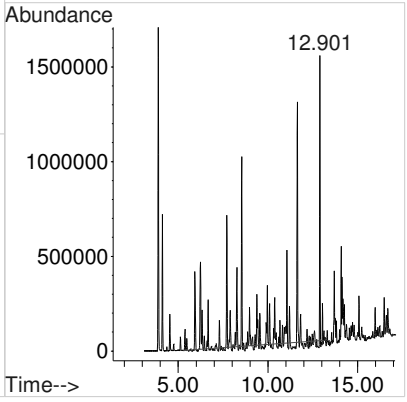
Tgt Ion:TIC Resp:21547005

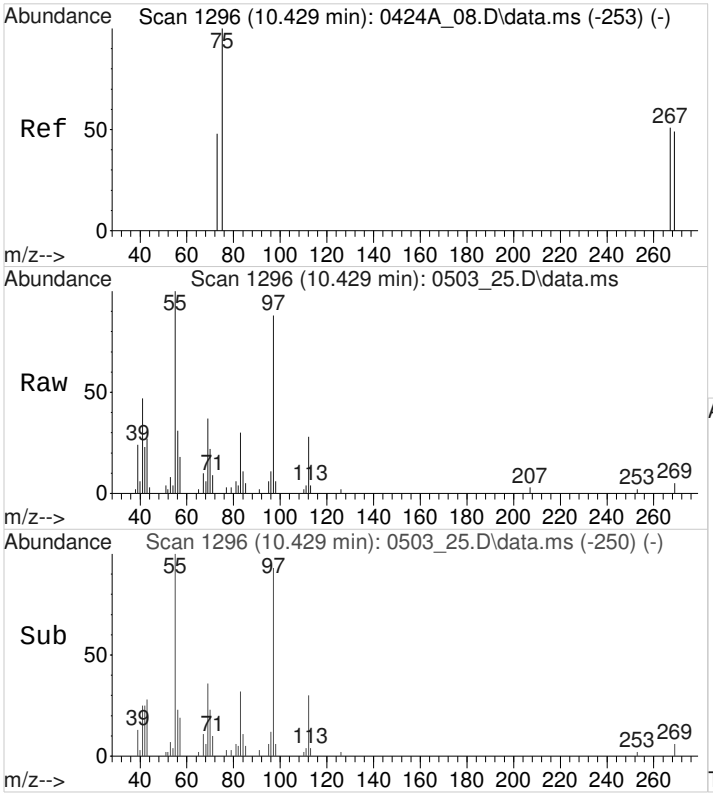




#3
TPH-GRO (C5-C10)
Concen: 158.7075841 ppbv m
RT: 10.430 min Scan# 1296
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

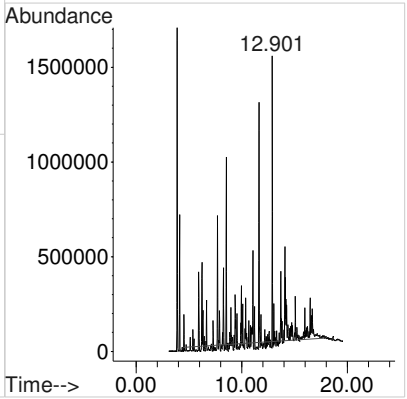
Tgt Ion:TIC Resp:20032446

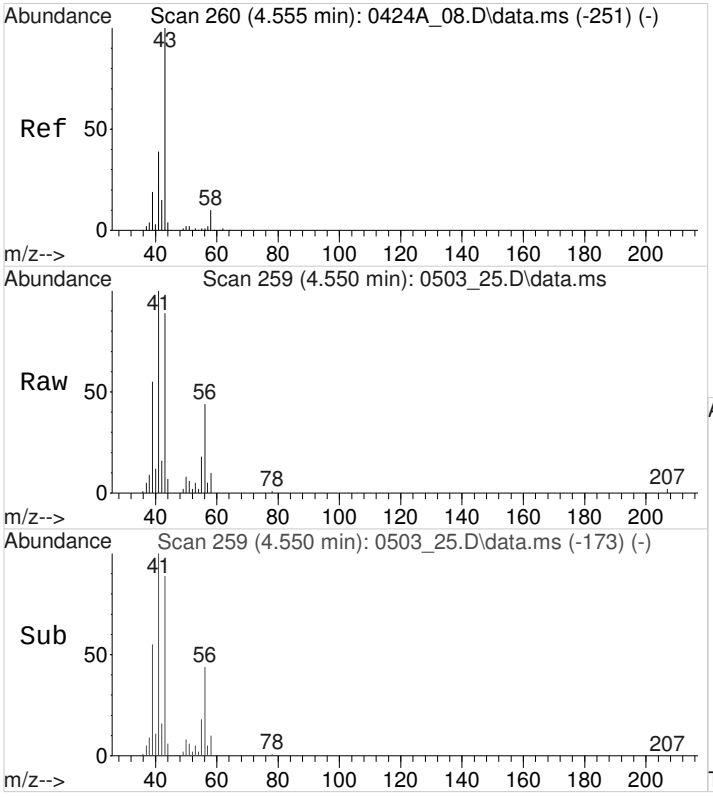




#4
THC as Gas (C4-C12)
Concen: 183.9484556 ppbv m
RT: 10.430 min Scan# 1296
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion:TIC Resp:28990443

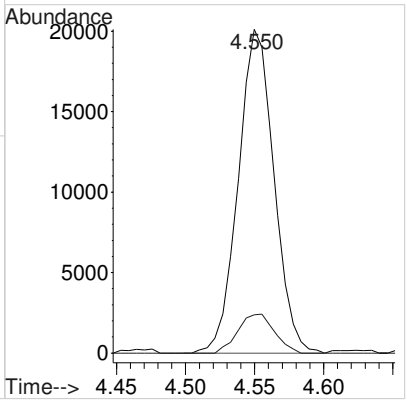


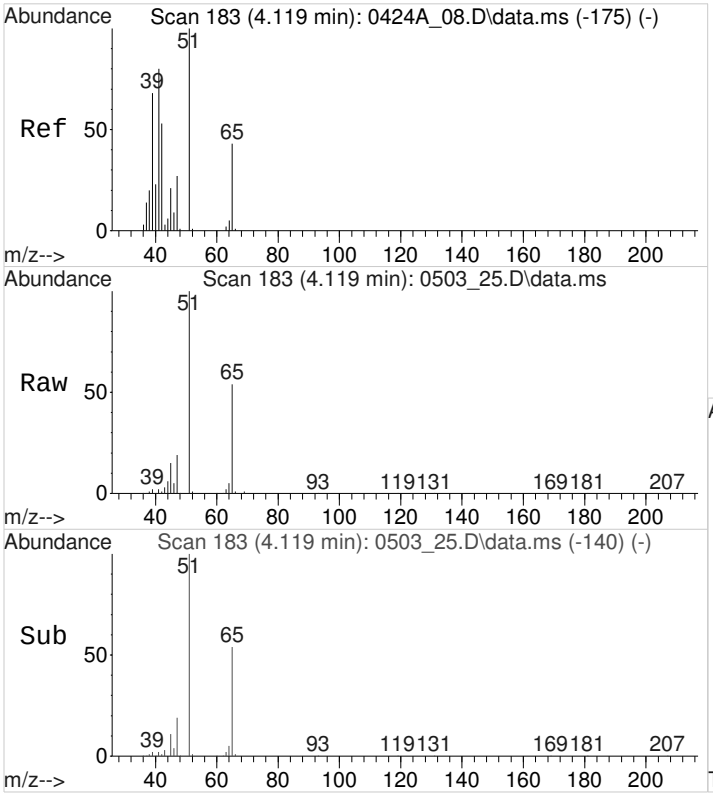


#6
BUTANE
Concen: 1.4549741 ppbv
RT: 4.550 min Scan# 259
Delta R.T. -0.011 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 43 Resp: 36290

Ion	Ratio	Lower	Upper
43	100		
58	12.3	9.4	14.0

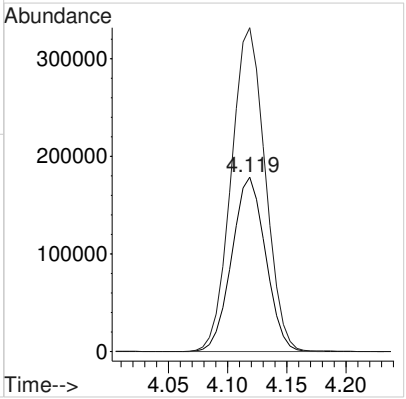


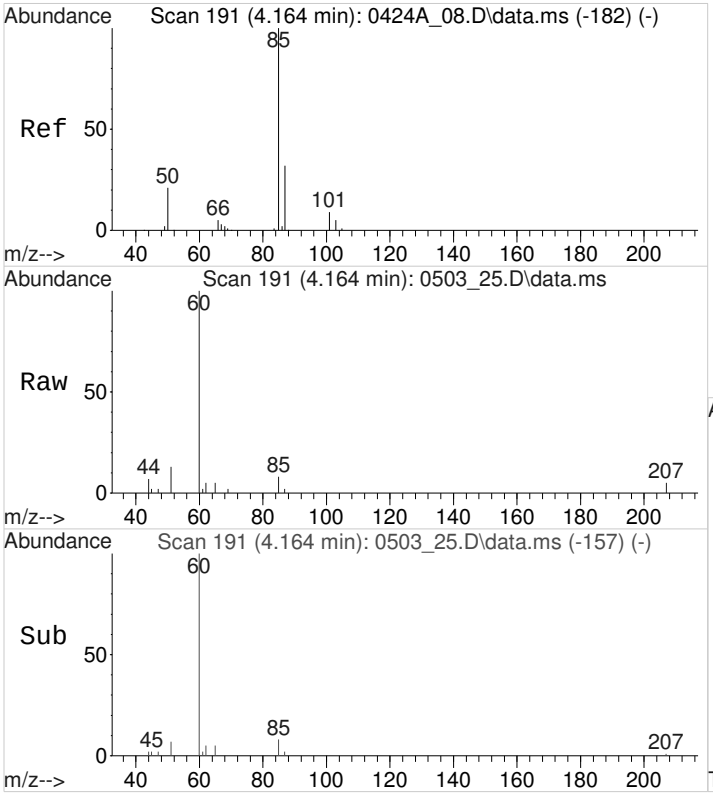


#7
1,1-DIFLUOROETHANE
Concen: 35.2218861 ppbv
RT: 4.119 min Scan# 183
Delta R.T. -0.006 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 65 Resp: 353092

Ion	Ratio	Lower	Upper
65	100		
51	187.4	150.3	225.5

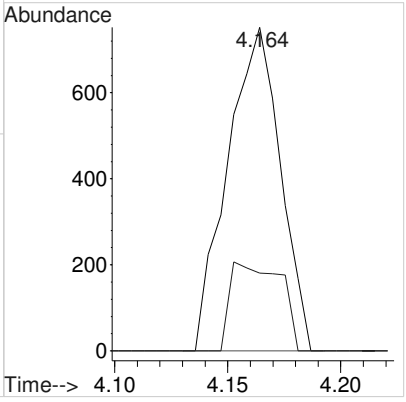


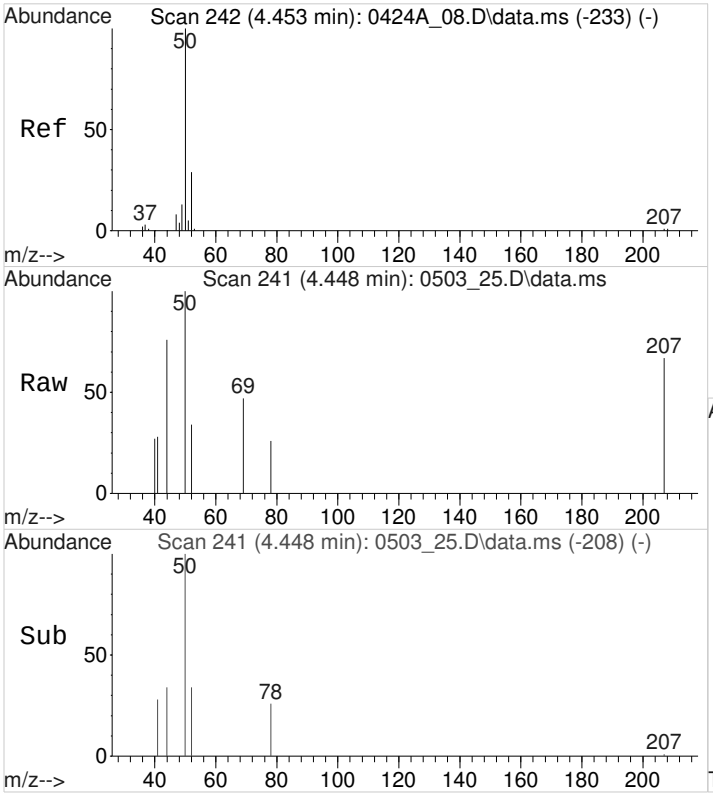


#8
Dichlorodifluoromethane
Concen: 0.0327804 ppbv
RT: 4.164 min Scan# 191
Delta R.T. -0.006 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 85 Resp: 1218

Ion	Ratio	Lower	Upper
85	100		
87	26.1	25.7	38.5

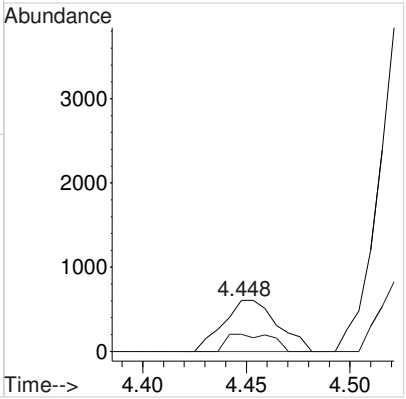


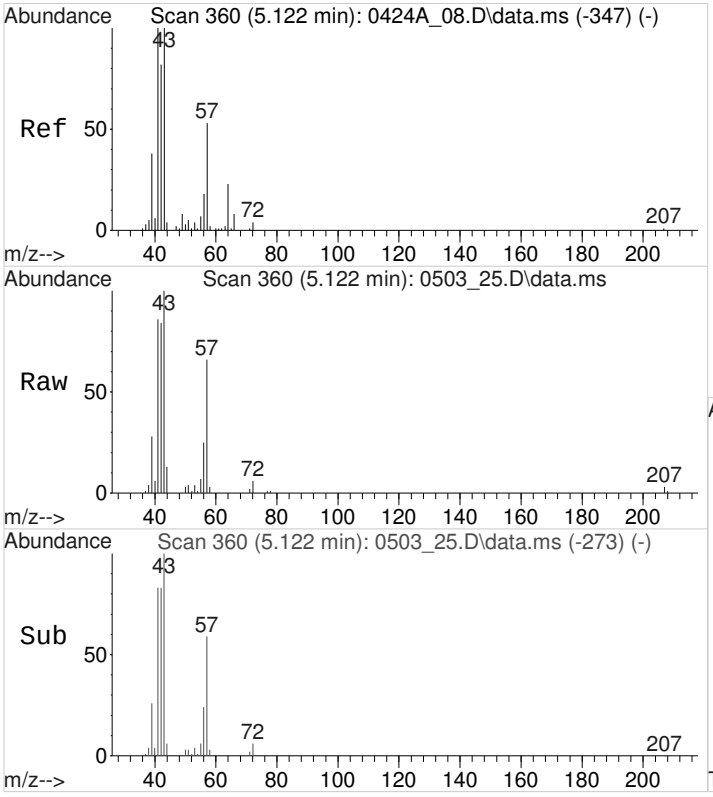


#11
Chloromethane
Concen: 0.0719667 ppbv
RT: 4.448 min Scan# 241
Delta R.T. -0.011 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 50 Resp: 1104

Ion	Ratio	Lower	Upper
50	100		
52	28.5	25.8	38.8

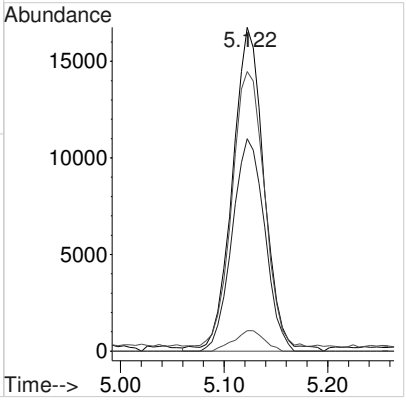


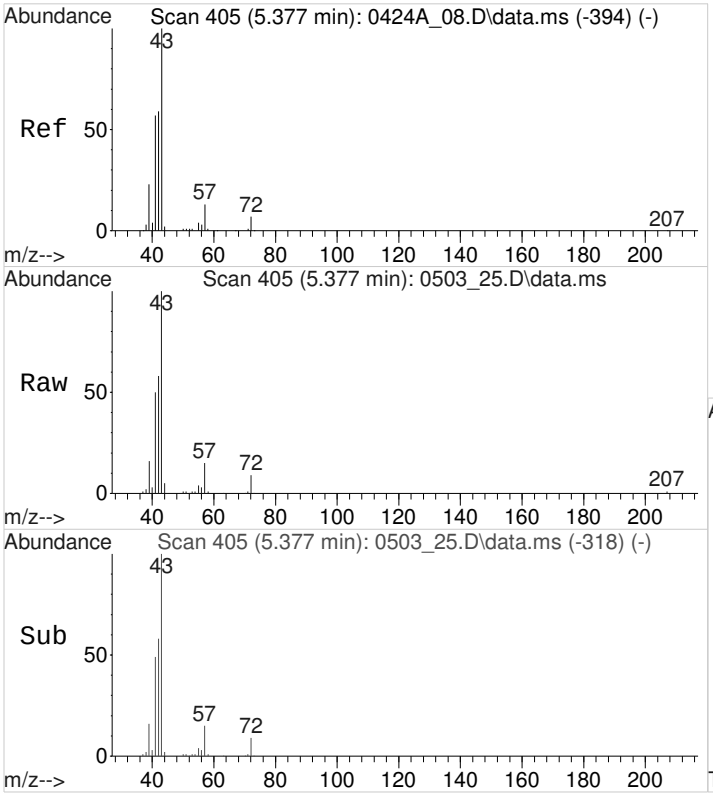


#16
ISOPENTANE
Concen: 2.0094829 ppbv
RT: 5.122 min Scan# 360
Delta R.T. -0.006 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 43 Resp: 35508

Ion	Ratio	Lower	Upper
43	100		
57	67.4	54.4	81.6
41	86.4	74.2	111.4
72	6.0	4.9	7.3

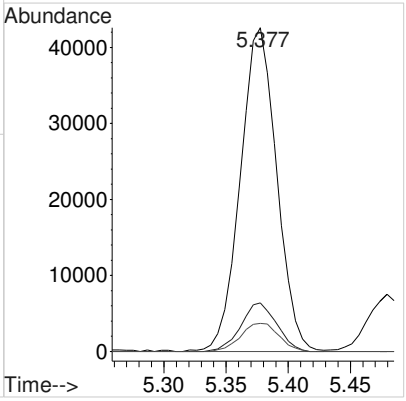


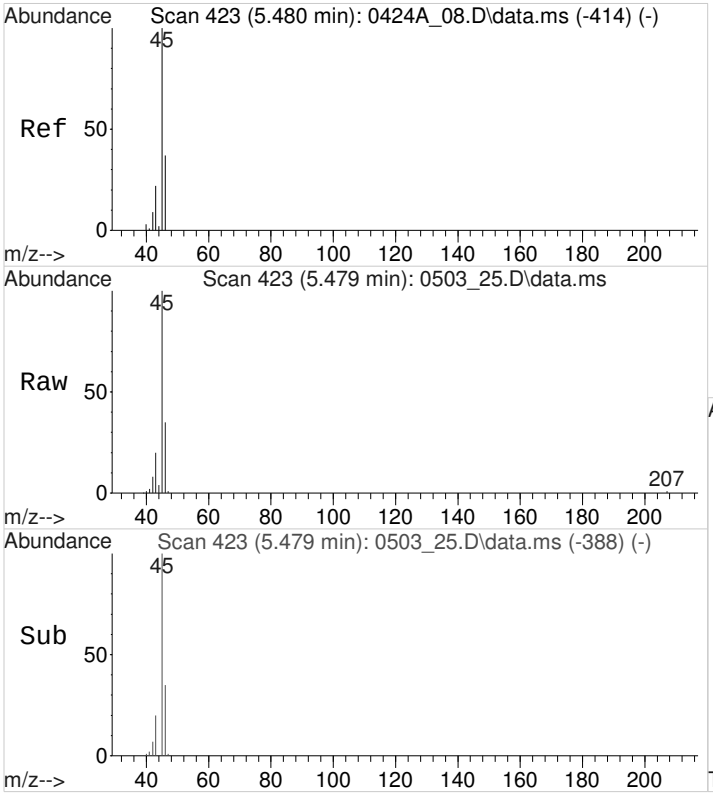


#19
PENTANE
Concen: 2.5559918 ppbv
RT: 5.377 min Scan# 405
Delta R.T. -0.006 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 43 Resp: 86431

Ion	Ratio	Lower	Upper
43	100		
57	14.7	12.2	18.4
72	9.1	7.3	10.9

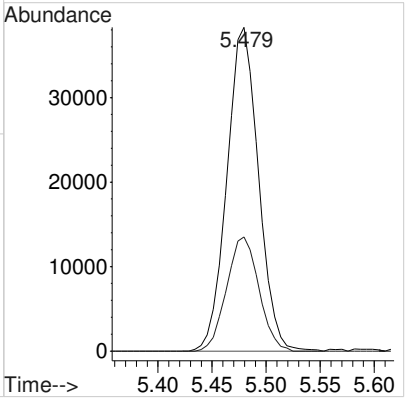


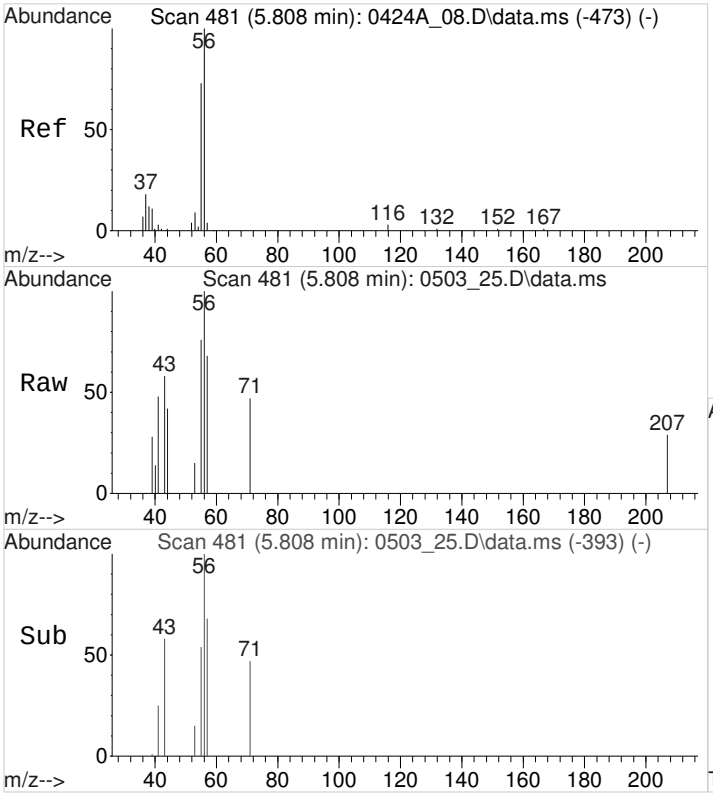


#20
Ethanol
Concen: 9.3633430 ppbv
RT: 5.479 min Scan# 423
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 45 Resp: 77714

Ion	Ratio	Lower	Upper
45	100		
46	35.9	29.1	43.7

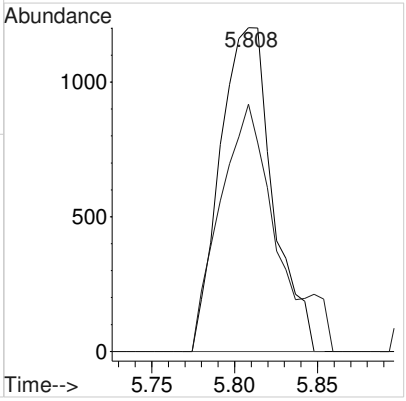


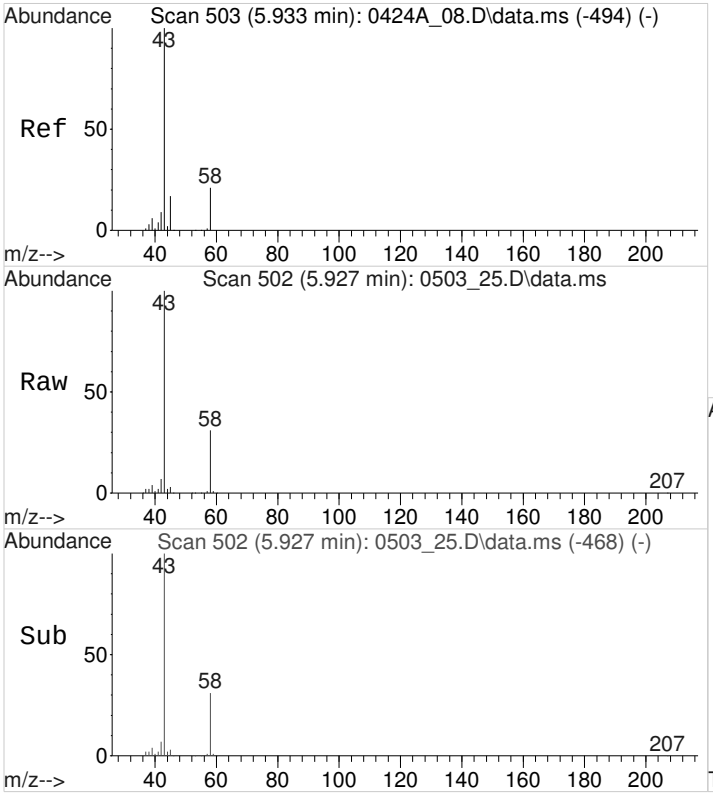


#21
ACROLEIN
Concen: 0.3113415 ppbv
RT: 5.808 min Scan# 481
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 56 Resp: 2660

Ion	Ratio	Lower	Upper
56	100		
55	82.4	59.8	89.6

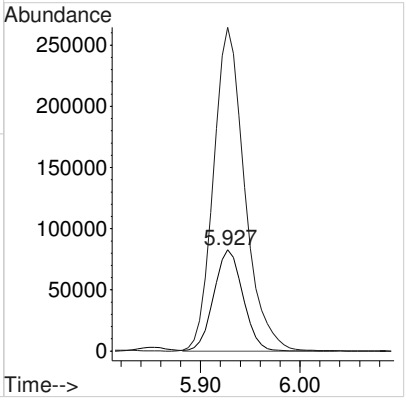


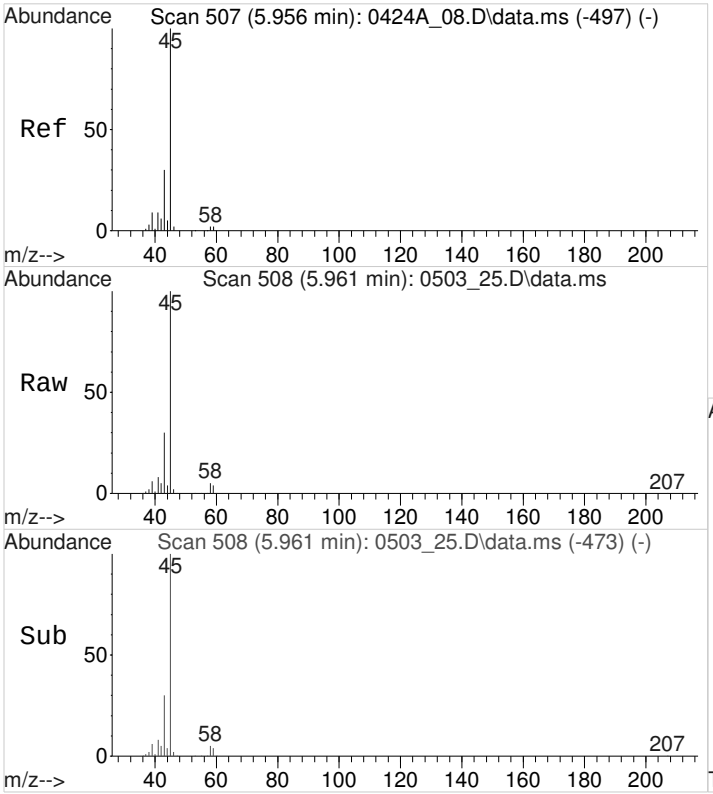


#24
Acetone
Concen: 17.5253376 ppbv
RT: 5.927 min Scan# 502
Delta R.T. -0.006 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 58 Resp: 168814

Ion	Ratio	Lower	Upper
58	100		
43	341.9	321.8	482.8

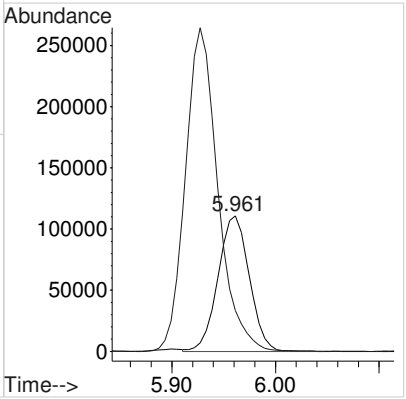


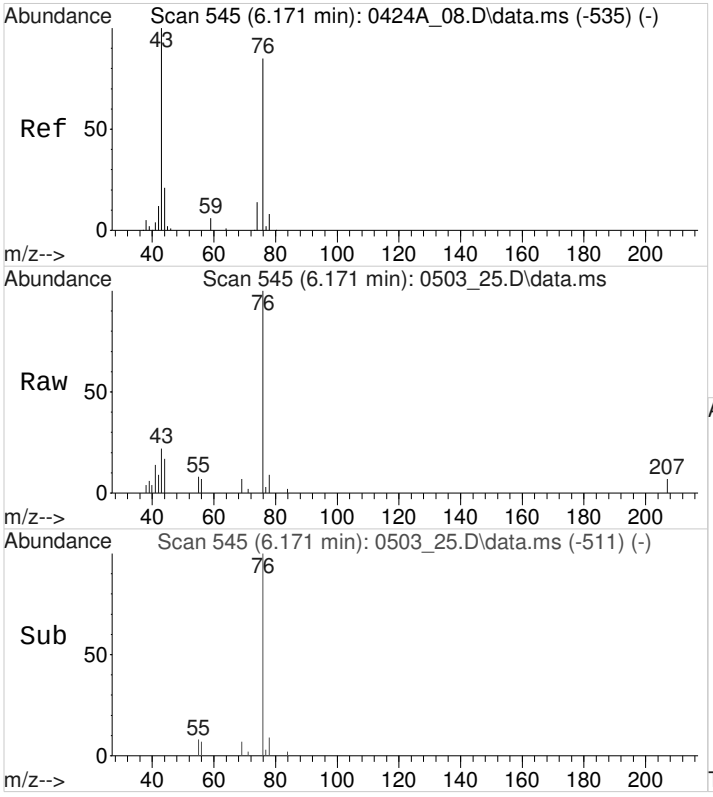


#26
2-Propanol
Concen: 5.9830035 ppbv
RT: 5.961 min Scan# 508
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 45 Resp: 232170

Ion	Ratio	Lower	Upper
45	100		
43	248.6	75.5	113.3#

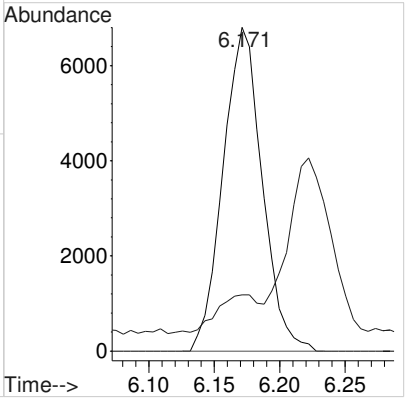


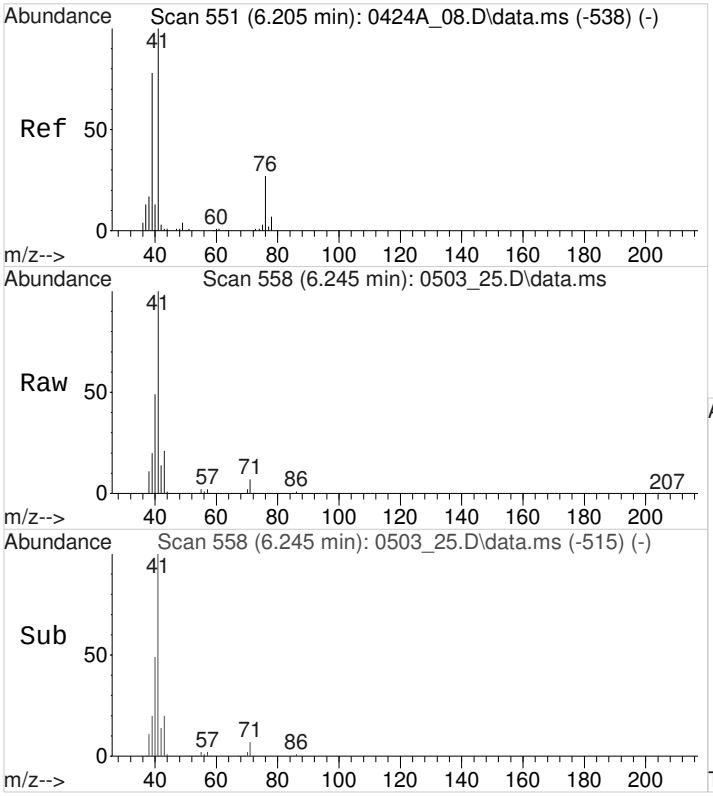


#27
Carbon Disulfide
Concen: 0.2511630 ppbv
RT: 6.171 min Scan# 545
Delta R.T. -0.006 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 76 Resp: 14149

Ion	Ratio	Lower	Upper
76	100		
44	12.9	10.5	15.7

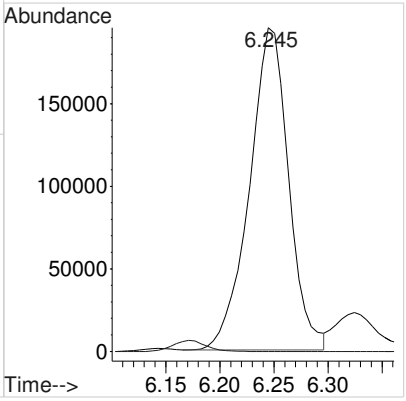


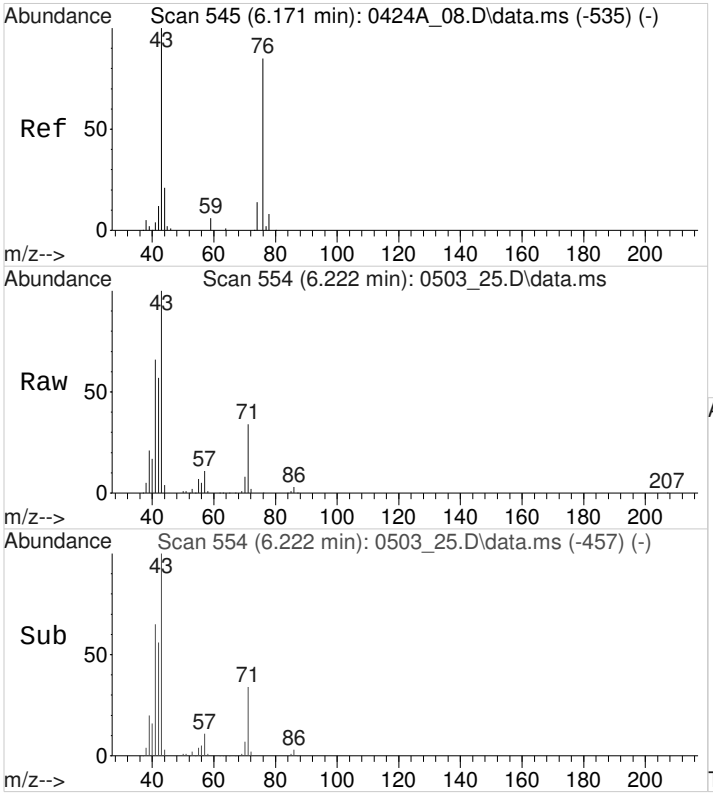


#28
Allyl Chloride
Concen: 18.8152495 ppbv
RT: 6.245 min Scan# 558
Delta R.T. 0.034 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 41 Resp: 491208

Ion	Ratio	Lower	Upper
41	100		
76	2.9	174.6	261.8#

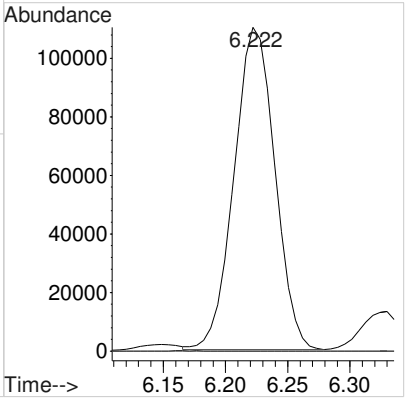


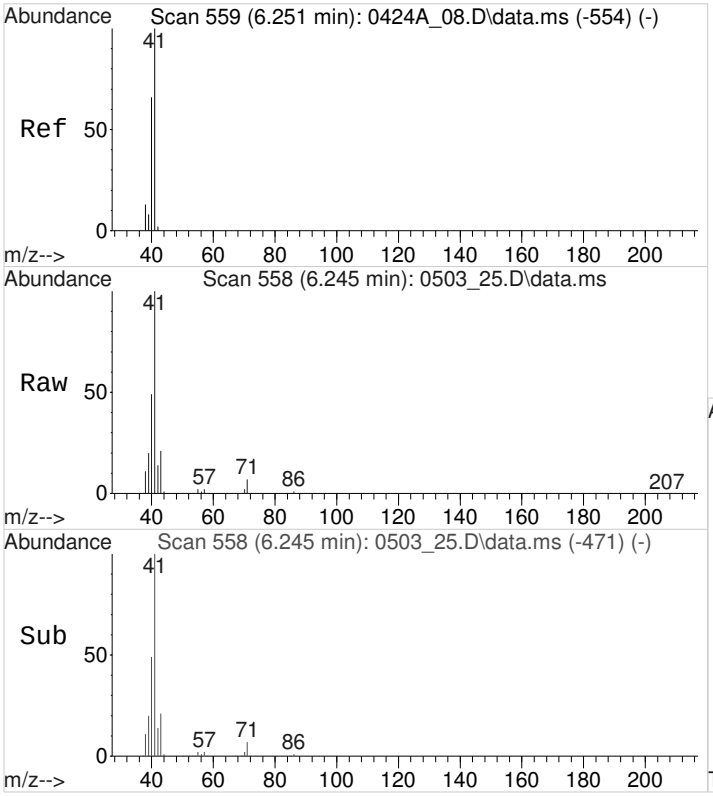


#29
METHYL ACETATE
Concen: 6.6405422 ppbv
RT: 6.222 min Scan# 554
Delta R.T. 0.051 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 43 Resp: 249777

Ion	Ratio	Lower	Upper
43	100		
74	0.1	15.4	23.2#
29	0.0	0.0	0.0

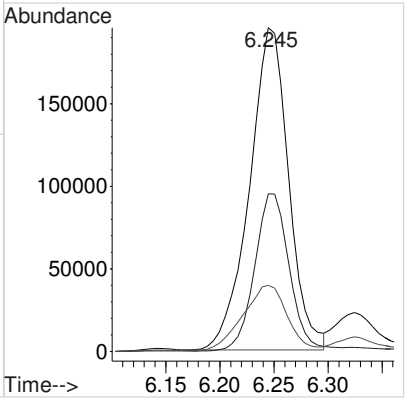


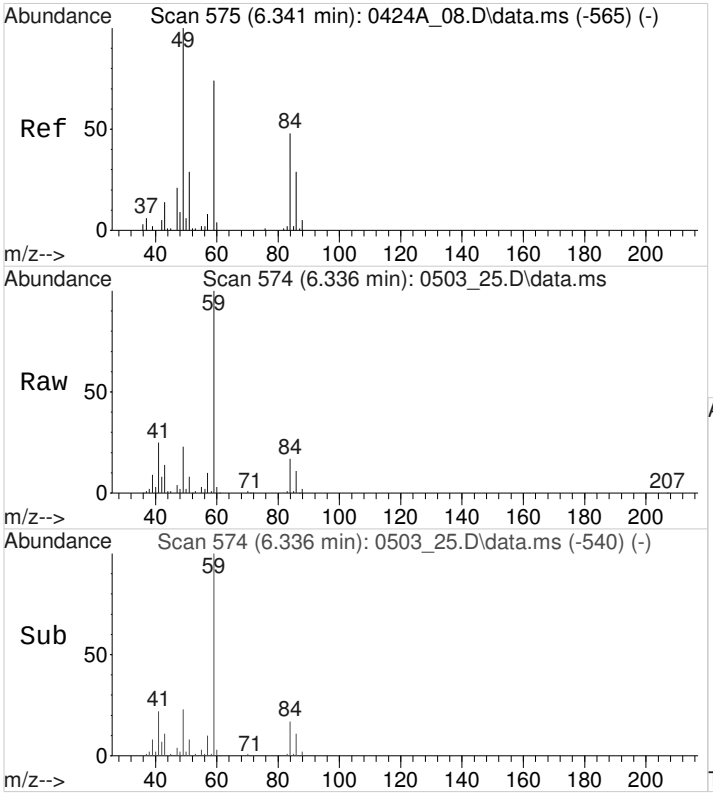


#30
ACETONITRILE
Concen: 27.4312380 ppbv
RT: 6.245 min Scan# 558
Delta R.T. -0.006 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 41 Resp: 491208

Ion	Ratio	Lower	Upper
41	100		
40	43.4	44.6	67.0#
39	23.3	13.6	20.4#

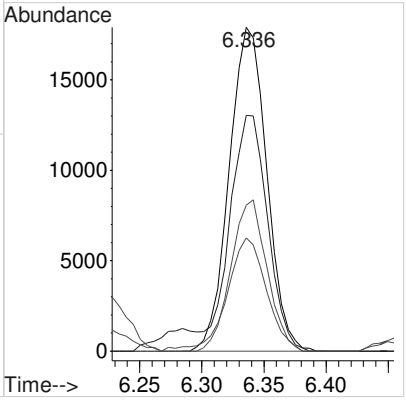


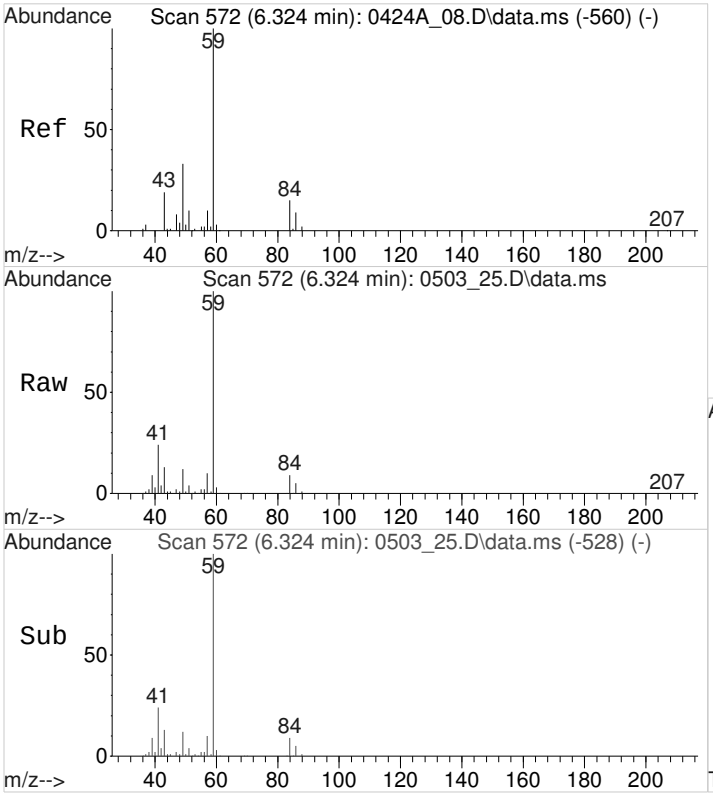


#31
Methylene Chloride
Concen: 1.7422816 ppbv
RT: 6.336 min Scan# 574
Delta R.T. -0.006 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 49 Resp: 37438

Ion	Ratio	Lower	Upper
49	100		
84	73.8	56.8	85.2
86	44.8	36.1	54.1
51	36.6	25.9	38.9

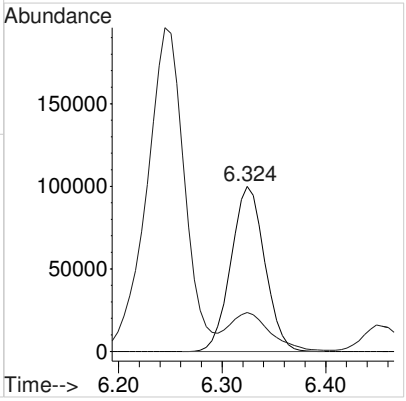


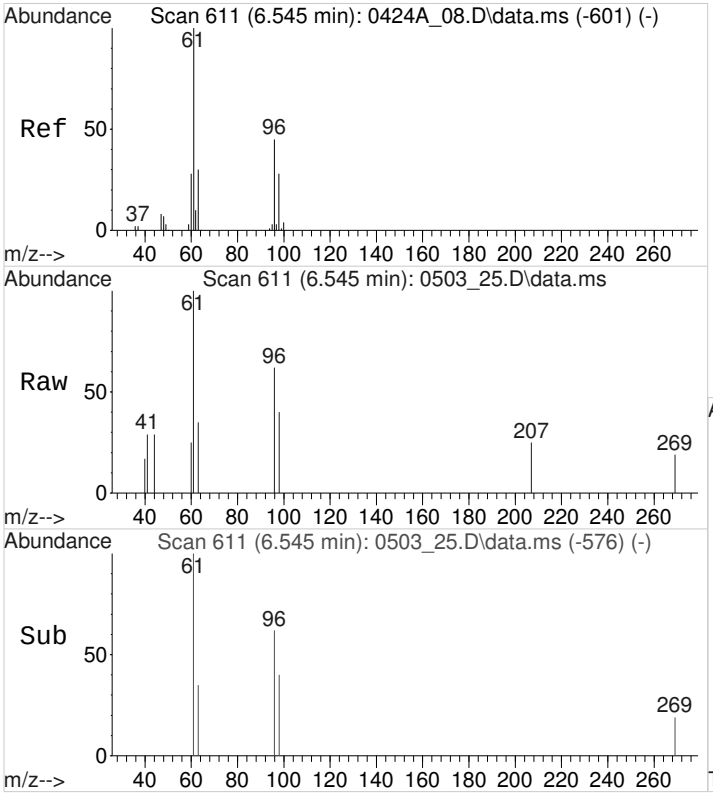


#32
TERT-BUTYL ALCOHOL
Concen: 5.2967328 ppbv
RT: 6.324 min Scan# 572
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 59 Resp: 225324

Ion	Ratio	Lower	Upper
59	100		
41	27.5	22.2	33.4

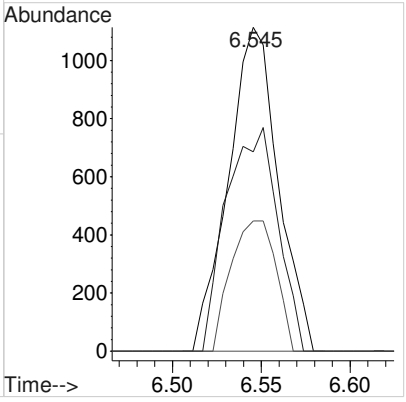


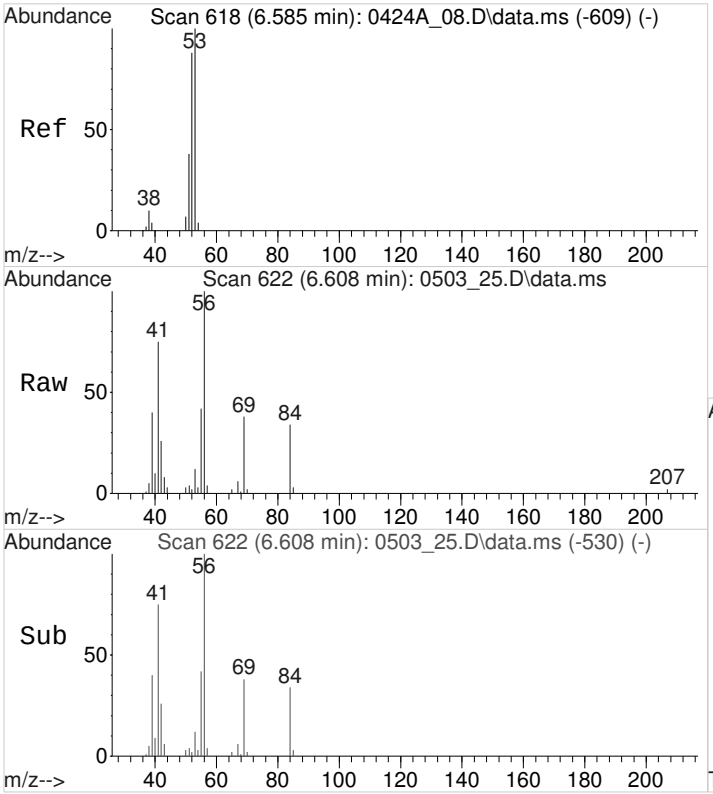


#34
Trans-1,2-Dichloroethene
Concen: 0.0843257 ppbv
RT: 6.545 min Scan# 611
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 61 Resp: 2177

Ion	Ratio	Lower	Upper
61	100		
96	71.3	49.5	74.3
98	36.5	31.0	46.6

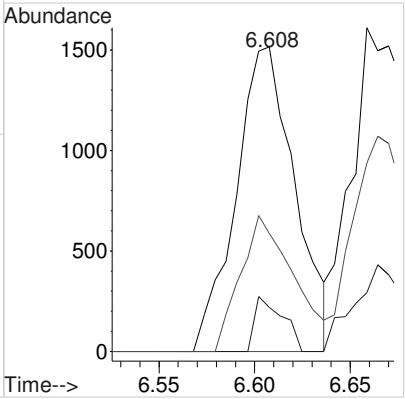


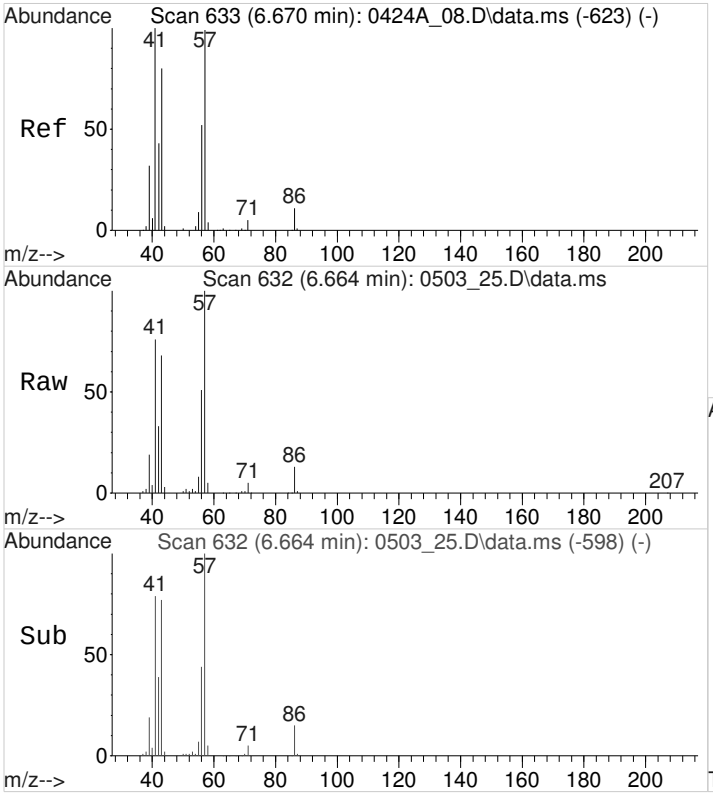


#35
ACRYLONITRILE
Concen: 0.2084235 ppbv
RT: 6.608 min Scan# 622
Delta R.T. 0.023 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 53 Resp: 3258

Ion	Ratio	Lower	Upper
53	100		
52	8.6	67.5	101.3#
51	40.1	29.0	43.6

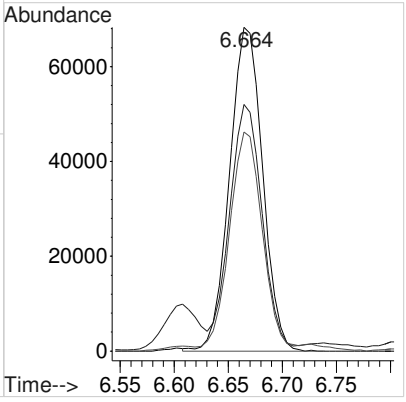


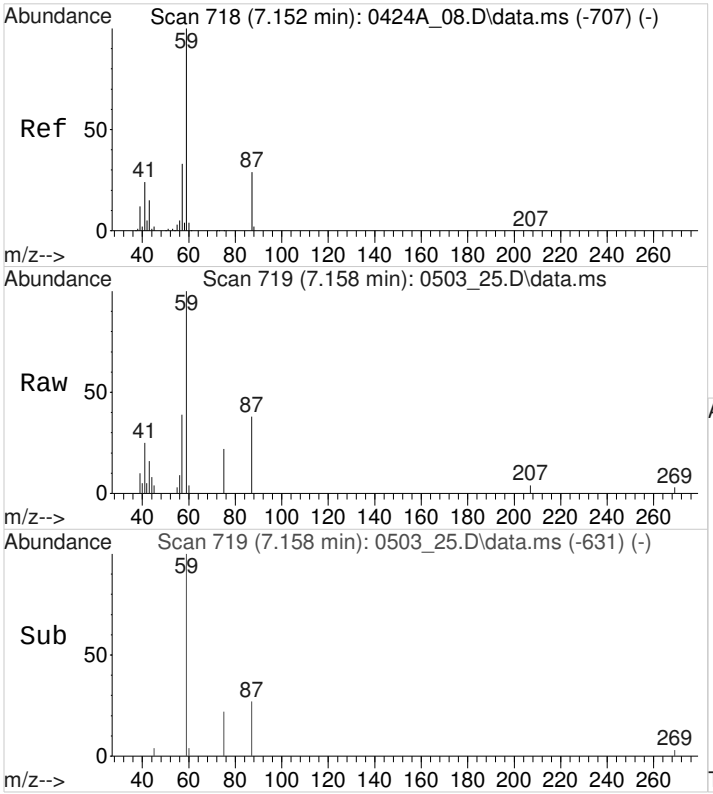


#36
n-Hexane
Concen: 4.6573411 ppbv
RT: 6.664 min Scan# 632
Delta R.T. -0.006 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 57 Resp: 144910

Ion	Ratio	Lower	Upper
57	100		
41	73.8	60.3	90.5
43	67.1	53.7	80.5

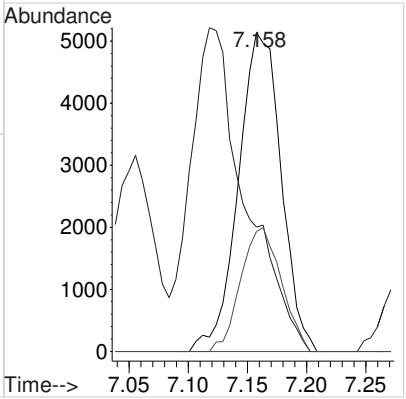


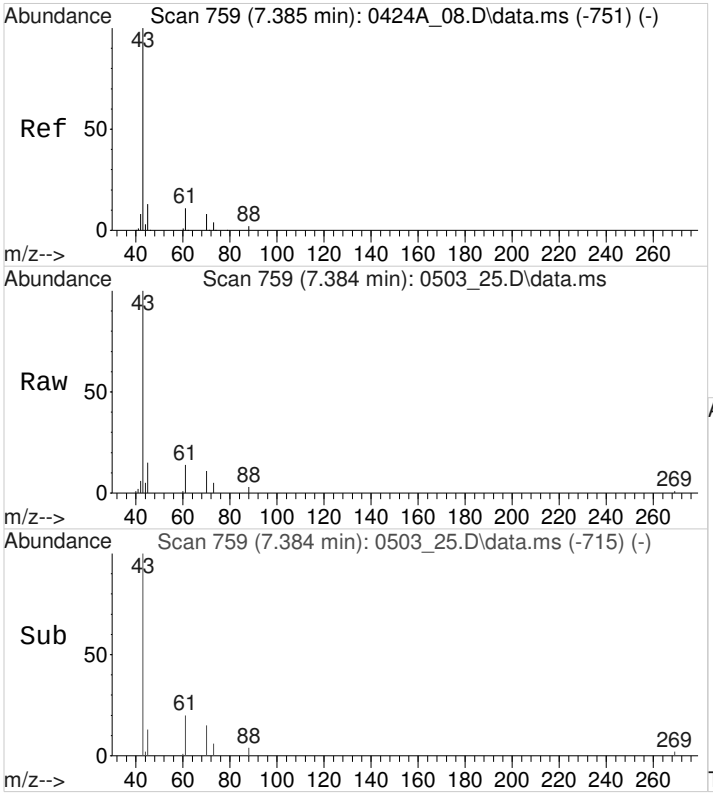


#40
ETHYL TERT-BUTYL ETHER
Concen: 0.2106206 ppbv
RT: 7.158 min Scan# 719
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 59 Resp: 12889

Ion	Ratio	Lower	Upper
59	100		
57	129.4	26.0	39.0#
87	36.9	28.8	43.2

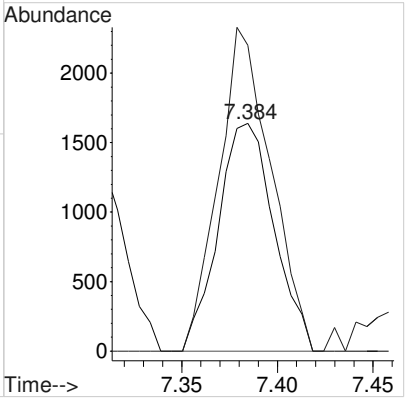


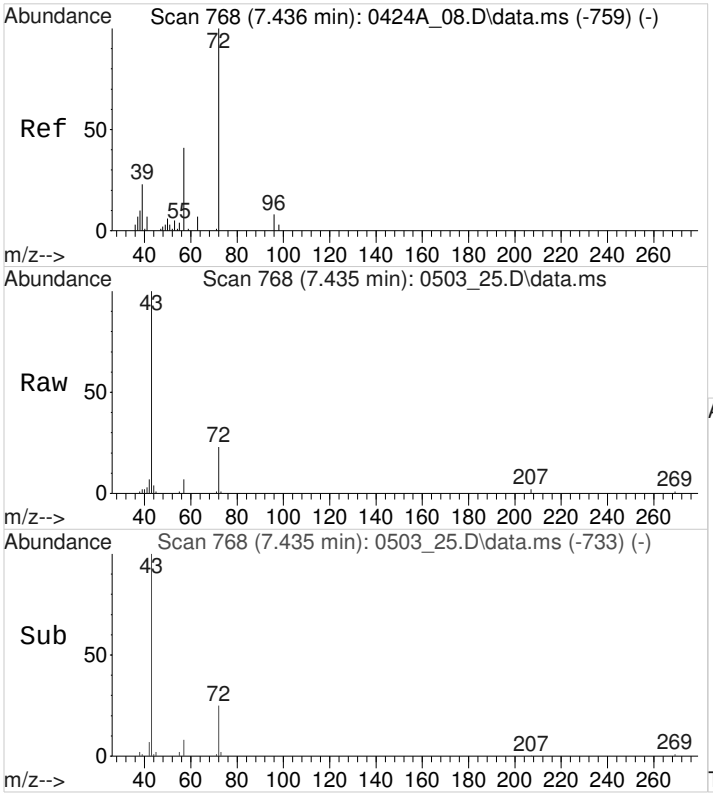


#41
ETHYL ACETATE
Concen: 0.6730453 ppbv
RT: 7.384 min Scan# 759
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 70 Resp: 3331

Ion	Ratio	Lower	Upper
70	100		
61	133.7	109.8	164.6

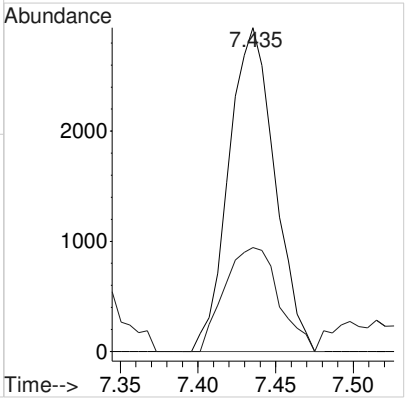


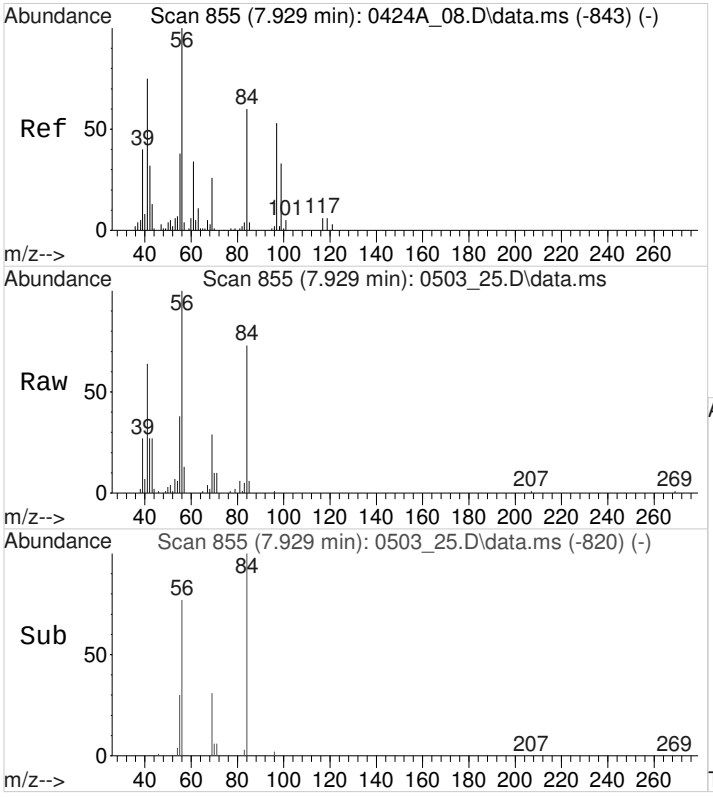


#42
2-Butanone (MEK)
Concen: 0.6210165 ppbv
RT: 7.435 min Scan# 768
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 72 Resp: 6028

Ion	Ratio	Lower	Upper
72	100		
57	38.0	27.4	41.0

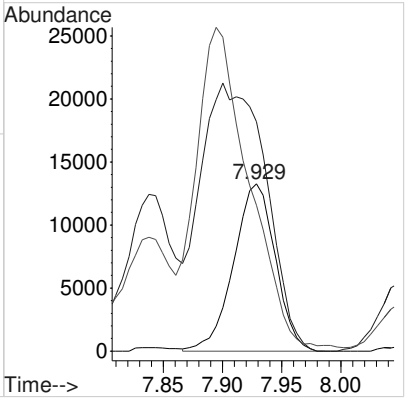


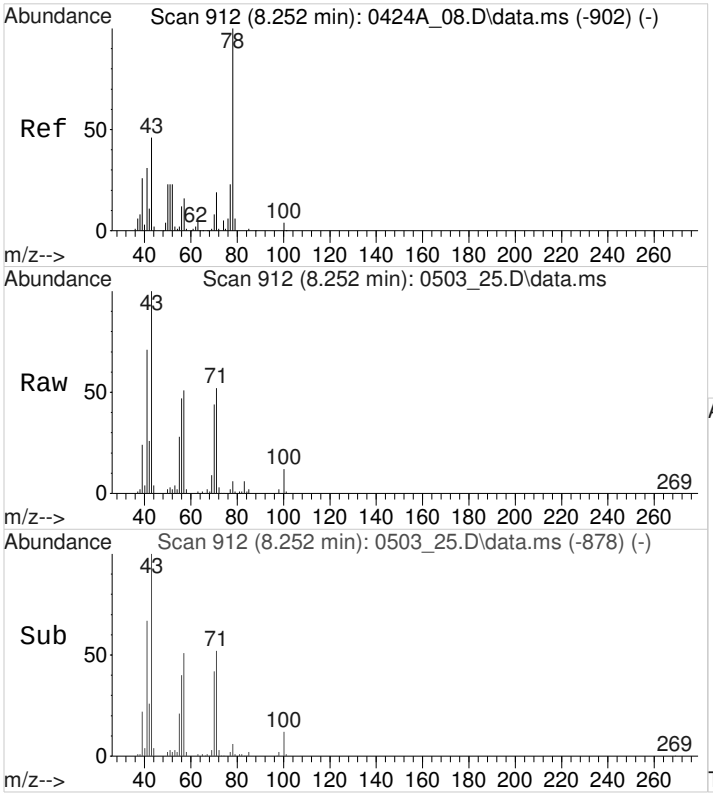


#46
Cyclohexane
Concen: 1.3198282 ppbv
RT: 7.929 min Scan# 855
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 84 Resp: 32400

Ion	Ratio	Lower	Upper
84	100		
56	250.5	107.1	160.7#
41	241.4	61.1	91.7#

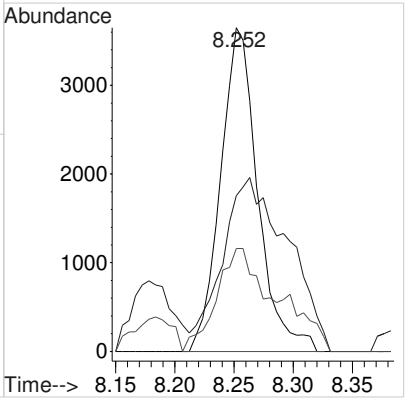


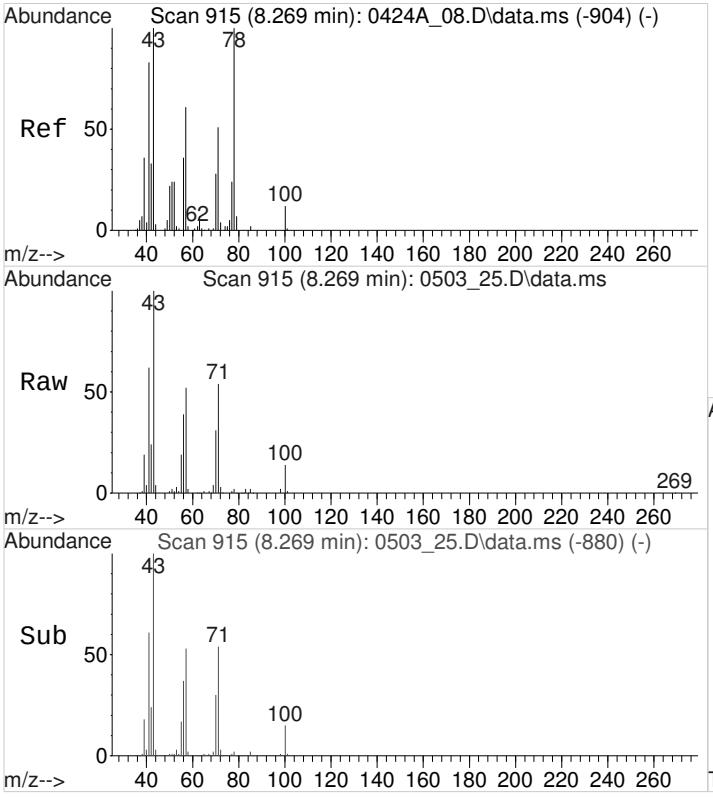


#51
Benzene
Concen: 0.1330807 ppbv
RT: 8.252 min Scan# 912
Delta R.T. -0.006 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 78 Resp: 7951

Ion	Ratio	Lower	Upper
78	100		
51	94.6	15.1	22.7#
77	51.6	18.9	28.3#

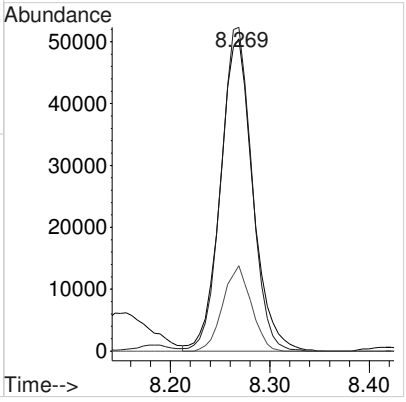


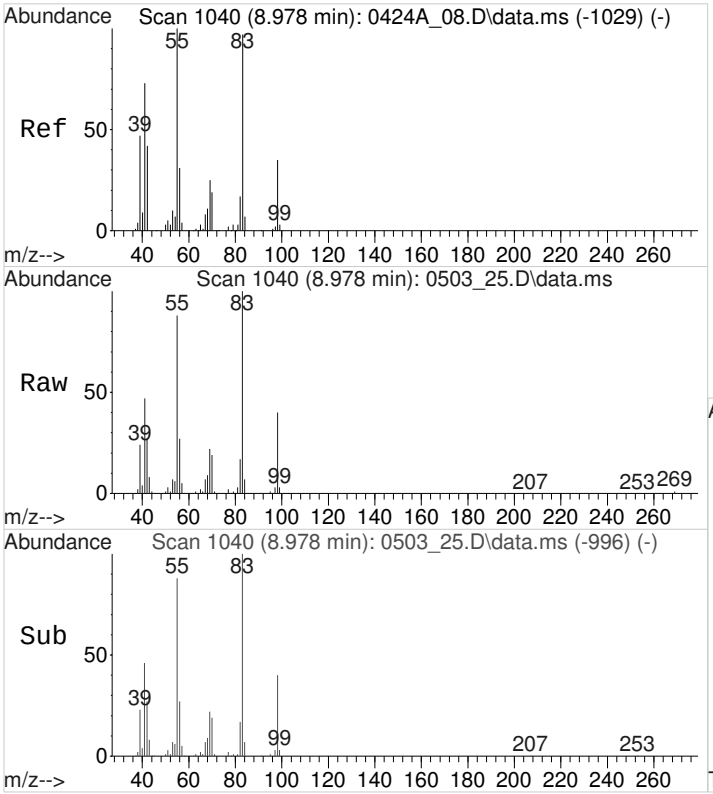


#54
Heptane
Concen: 5.5298650 ppbv
RT: 8.269 min Scan# 915
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 57 Resp: 114892

Ion	Ratio	Lower	Upper
57	100		
71	97.9	83.4	125.0
100	23.7	24.5	36.7#

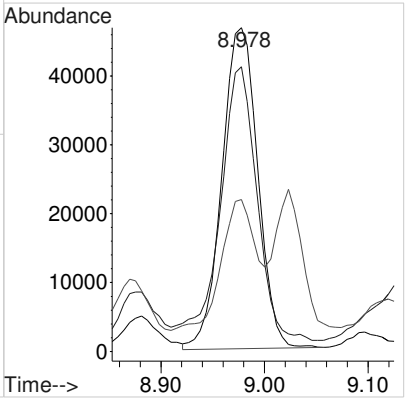


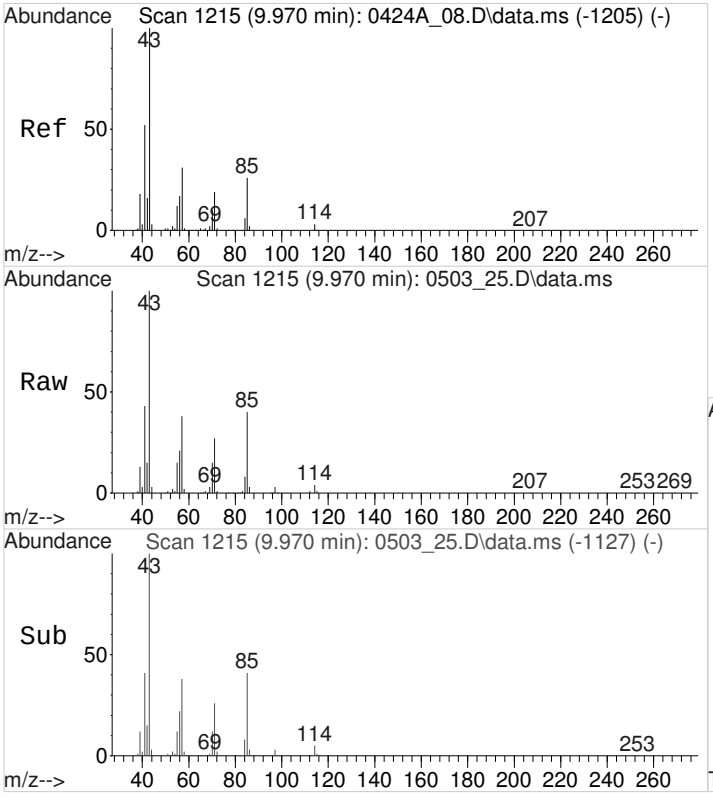


#57
METHYL CYCLOHEXANE
Concen: 3.2246106 ppbv
RT: 8.978 min Scan# 1040
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 83 Resp: 112020

Ion	Ratio	Lower	Upper
83	100		
55	94.4	73.4	110.0
41	52.4	35.3	52.9

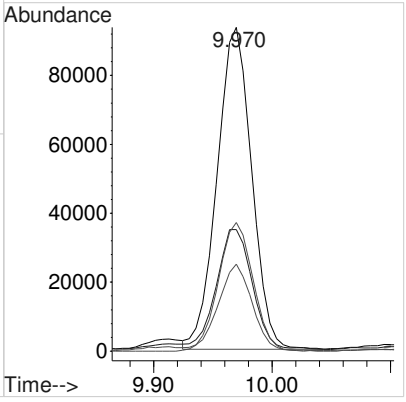


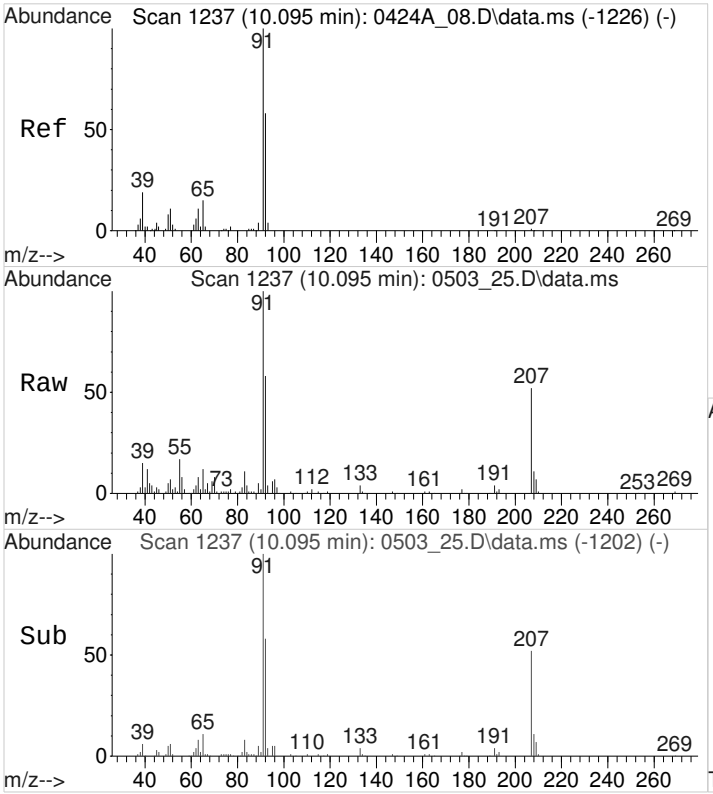


#64
n-OCTANE
Concen: 3.4018527 ppbv
RT: 9.970 min Scan# 1215
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 43 Resp: 189681

Ion	Ratio	Lower	Upper
43	100		
57	41.2	30.5	45.7
85	39.9	31.7	47.5
71	26.2	20.6	30.8

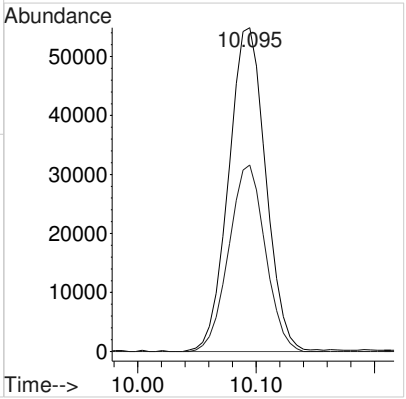


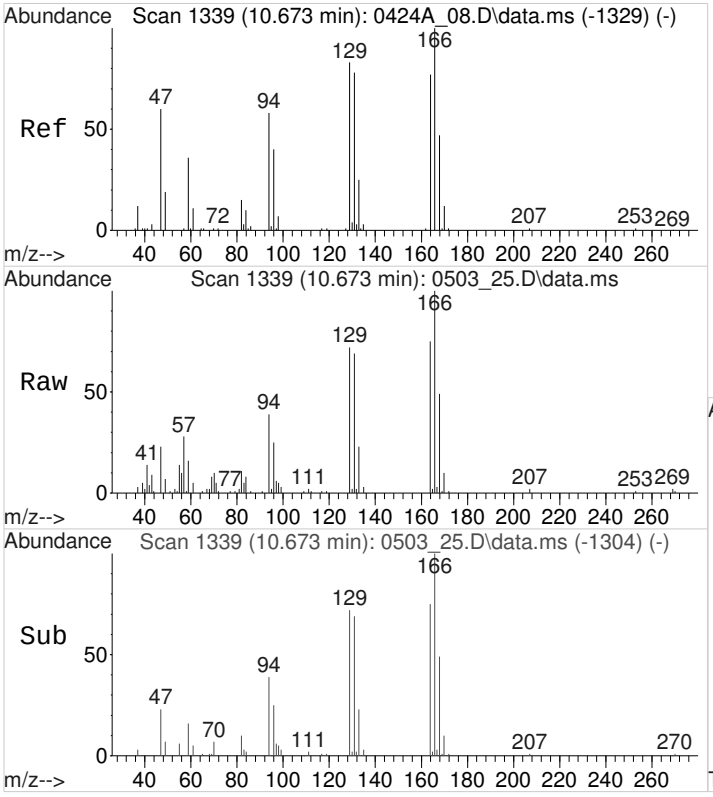


#65
Toluene
Concen: 1.5901083 ppbv
RT: 10.095 min Scan# 1237
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 91 Resp: 119271

Ion	Ratio	Lower	Upper
91	100		
92	56.7	45.7	68.5

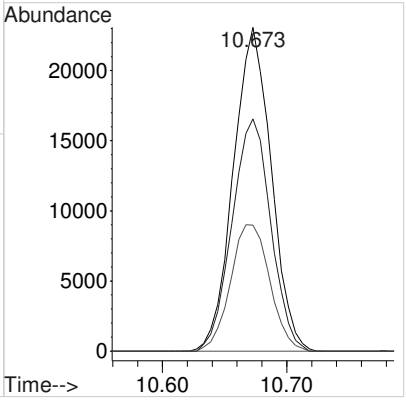


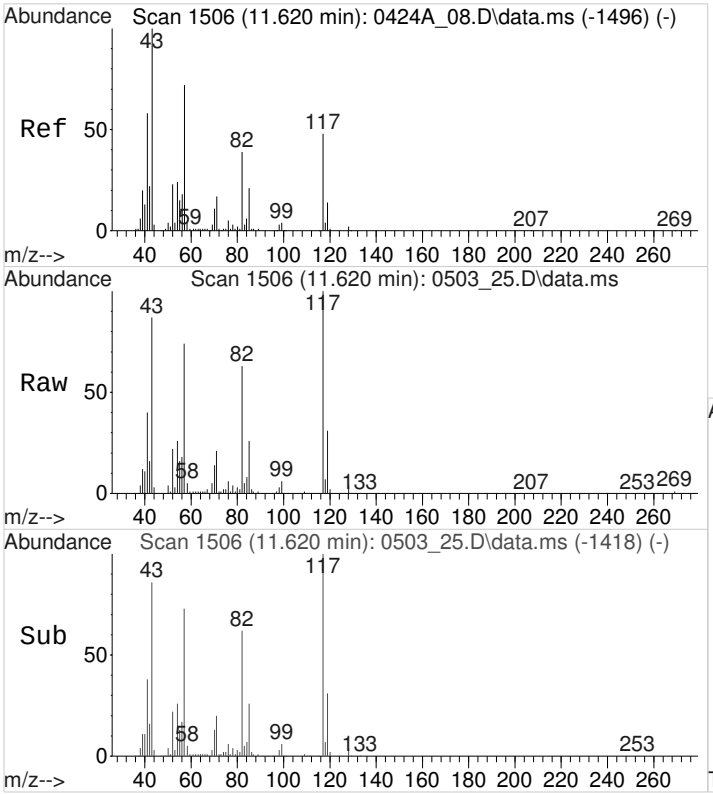


#68
Tetrachloroethene
Concen: 1.5366887 ppbv
RT: 10.673 min Scan# 1339
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion:166 Resp: 48558

Ion	Ratio	Lower	Upper
166	100		
129	73.3	59.4	89.0
94	40.5	32.2	48.2

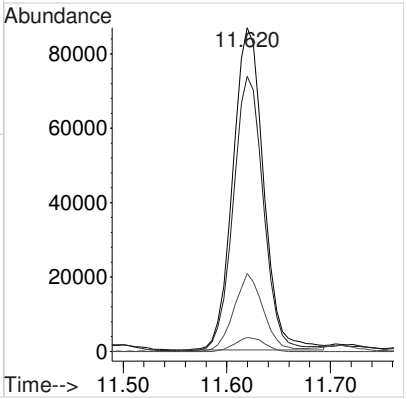


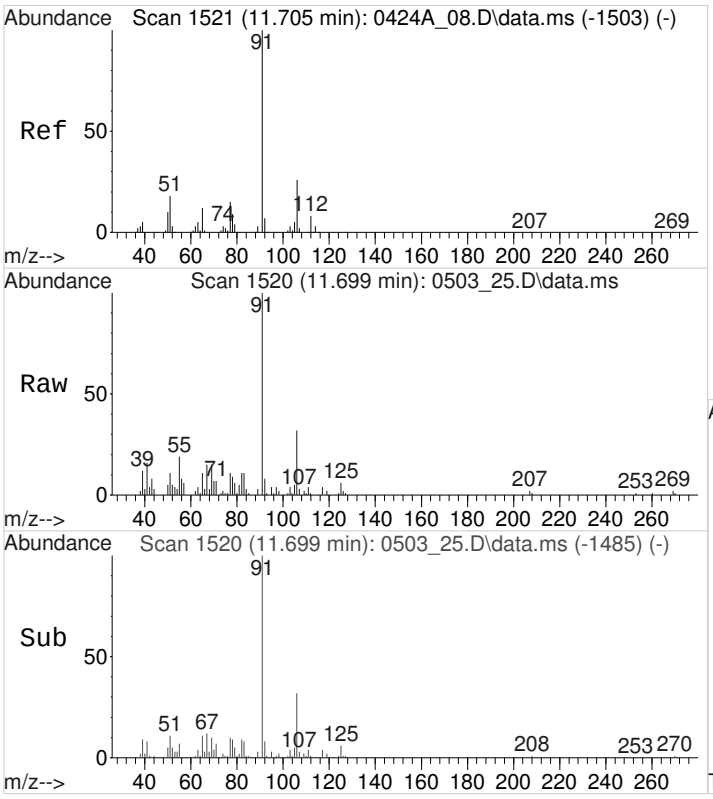


#73
NONANE
Concen: 3.0740609 ppbv
RT: 11.620 min Scan# 1506
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 43 Resp: 178990

Ion	Ratio	Lower	Upper
43	100		
57	84.1	68.6	102.8
71	23.4	18.0	27.0
128	4.1	3.3	4.9

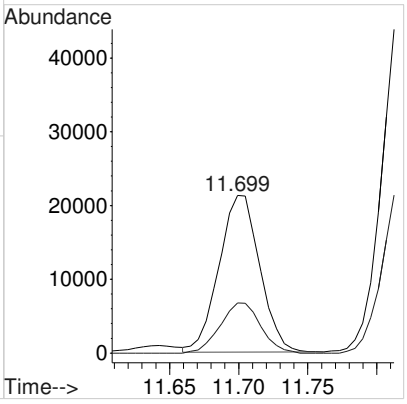


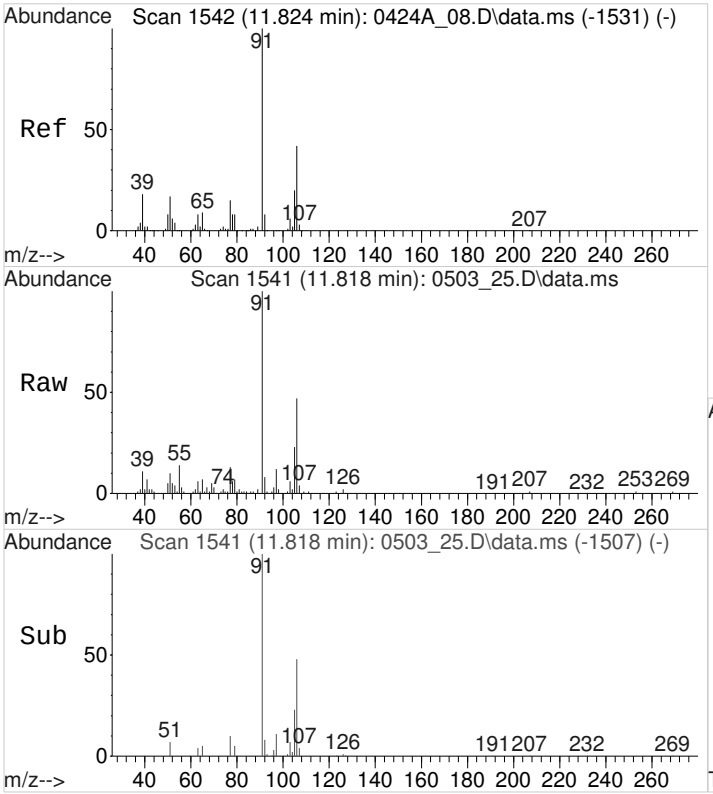


#75
Ethylbenzene
Concen: 0.4613483 ppbv
RT: 11.699 min Scan# 1520
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 91 Resp: 43601

Ion	Ratio	Lower	Upper
91	100		
106	31.7	24.2	36.4

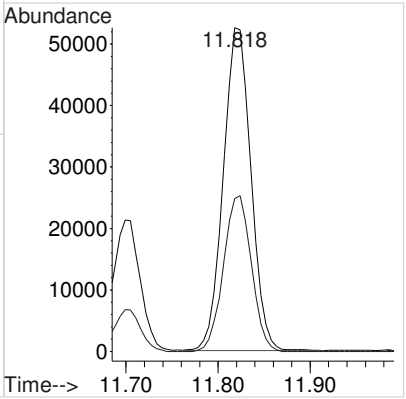


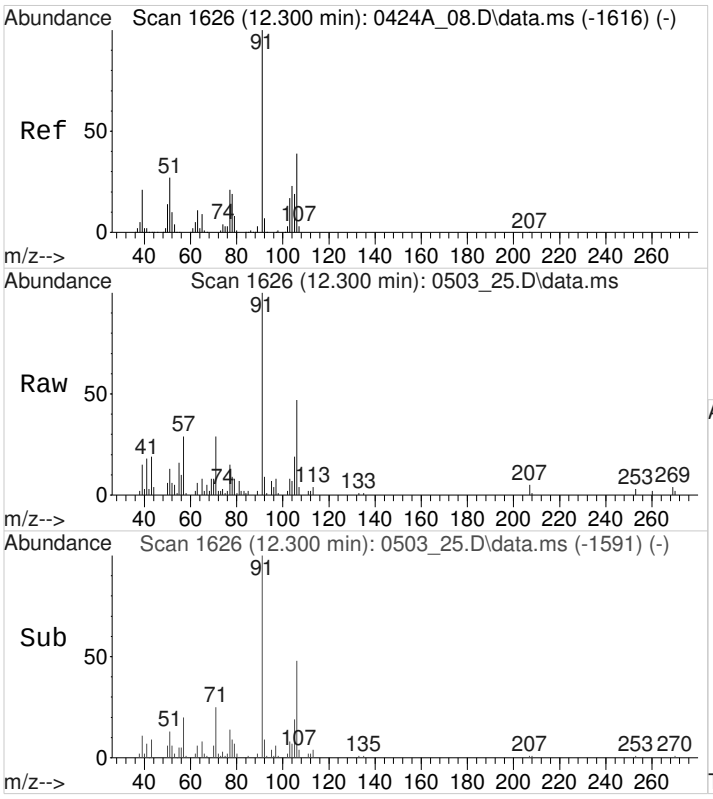


#76
M&P-Xylene
Concen: 1.5113416 ppbv
RT: 11.818 min Scan# 1541
Delta R.T. -0.006 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 91 Resp: 109698

Ion	Ratio	Lower	Upper
91	100		
106	48.6	38.9	58.3

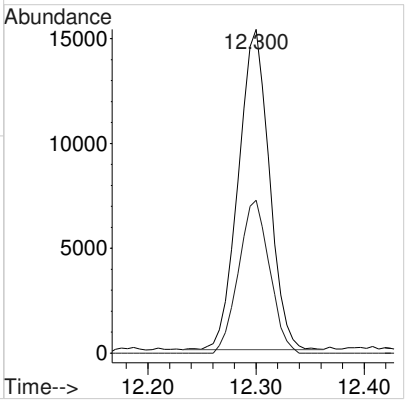


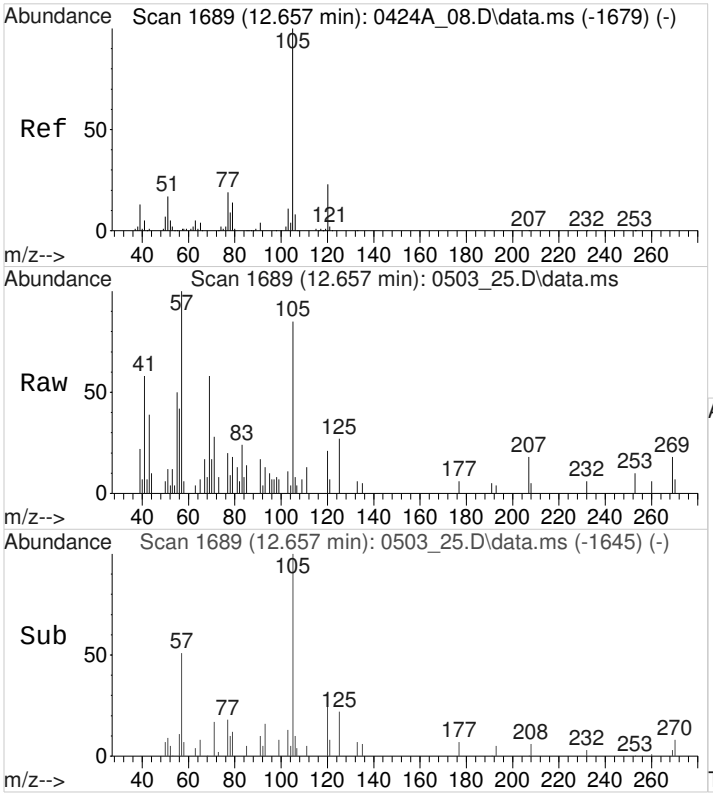


#77
O-Xylene
Concen: 0.4070020 ppbv
RT: 12.300 min Scan# 1626
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 91 Resp: 30361

Ion	Ratio	Lower	Upper
91	100		
106	47.6	36.2	54.4

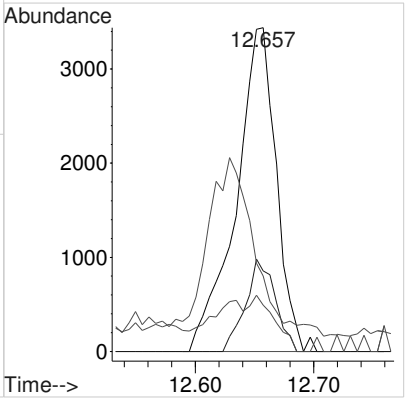


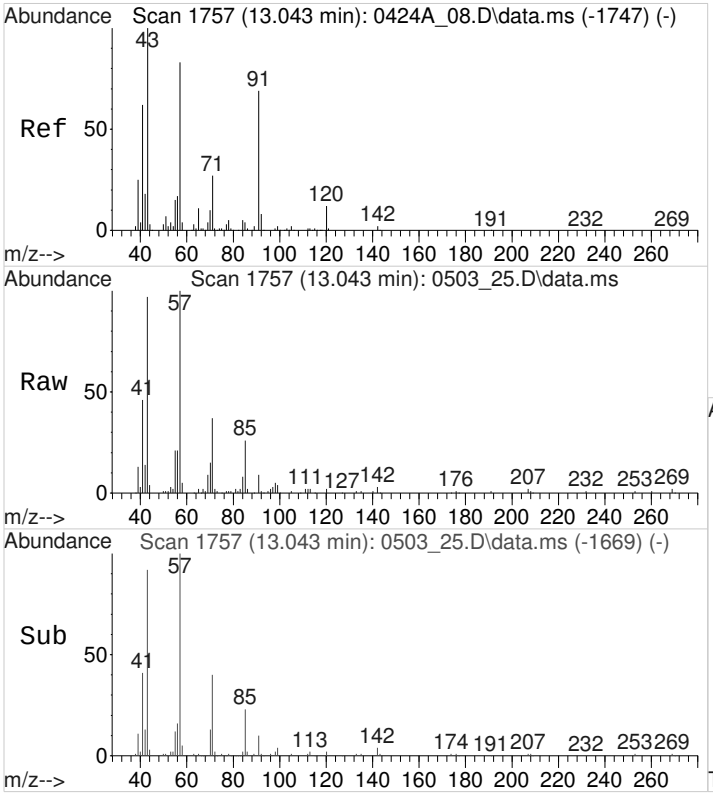


#82
Isopropylbenzene
Concen: 0.0812981 ppbv
RT: 12.657 min Scan# 1689
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion:105 Resp: 8097

Ion	Ratio	Lower	Upper
105	100		
120	21.1	20.6	31.0
77	81.4	12.4	18.6#
51	11.2	8.2	12.4

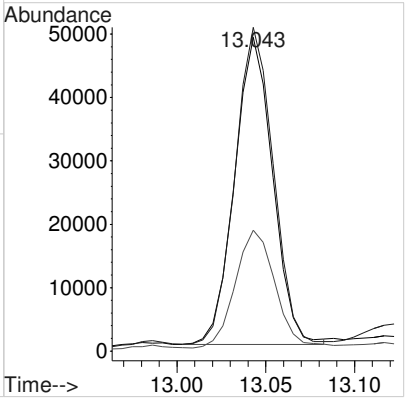


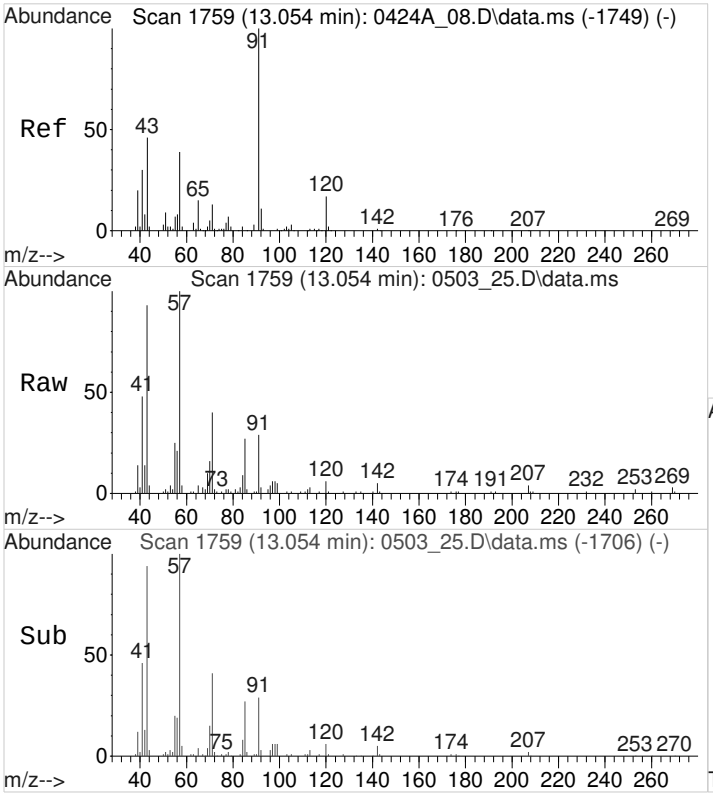


#83
n-DECANE
Concen: 1.3563731 ppbv
RT: 13.043 min Scan# 1757
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 43 Resp: 72590

Ion	Ratio	Lower	Upper
43	100		
57	103.4	83.8	125.8
71	41.4	31.8	47.6

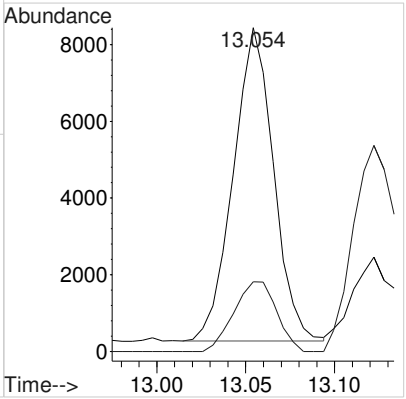


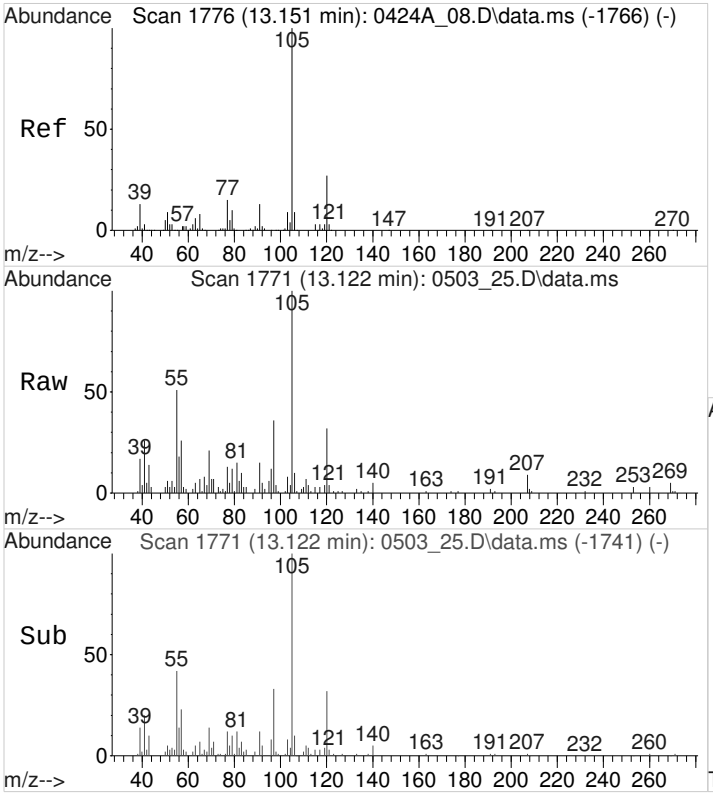


#85
n-Propylbenzene
Concen: 0.1137021 ppbv
RT: 13.054 min Scan# 1759
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion: 91 Resp: 12903

Ion	Ratio	Lower	Upper
91	100		
120	23.6	17.9	26.9

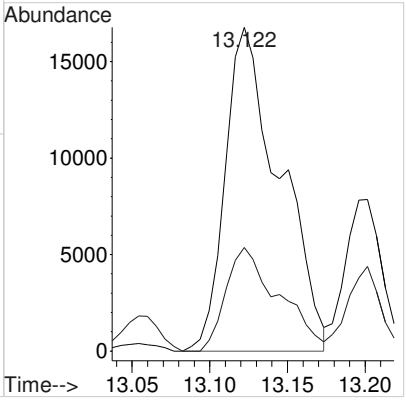


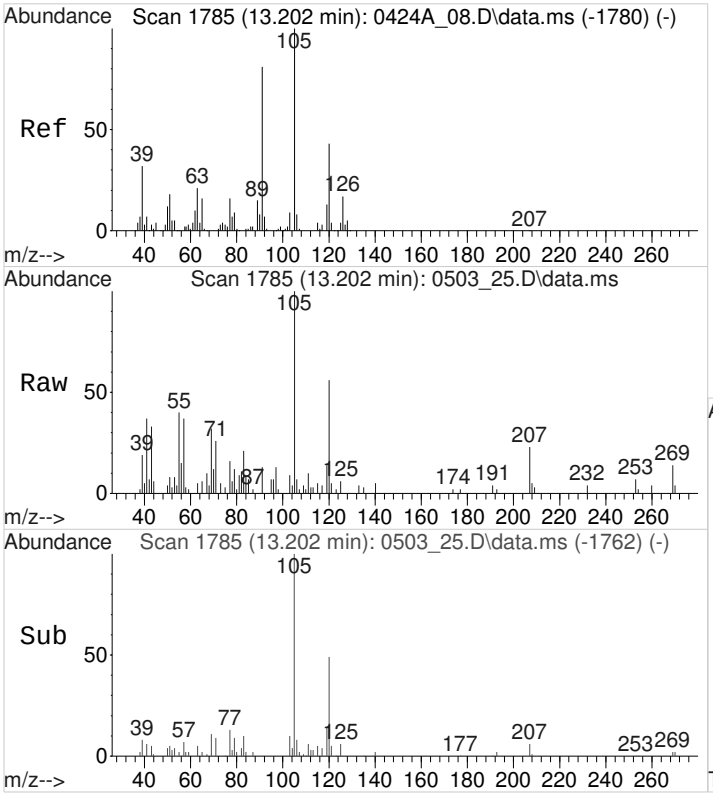


#86
4-Ethyltoluene
Concen: 0.4332502 ppbv
RT: 13.122 min Scan# 1771
Delta R.T. -0.028 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion:105 Resp: 40946

Ion	Ratio	Lower	Upper
105	100		
120	30.9	23.9	35.9

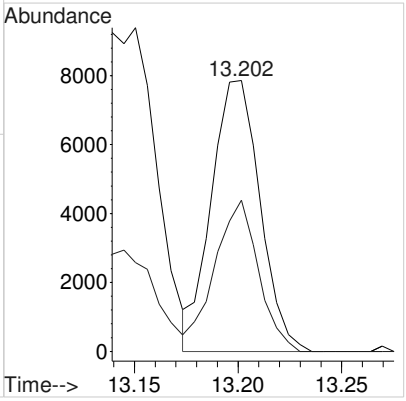


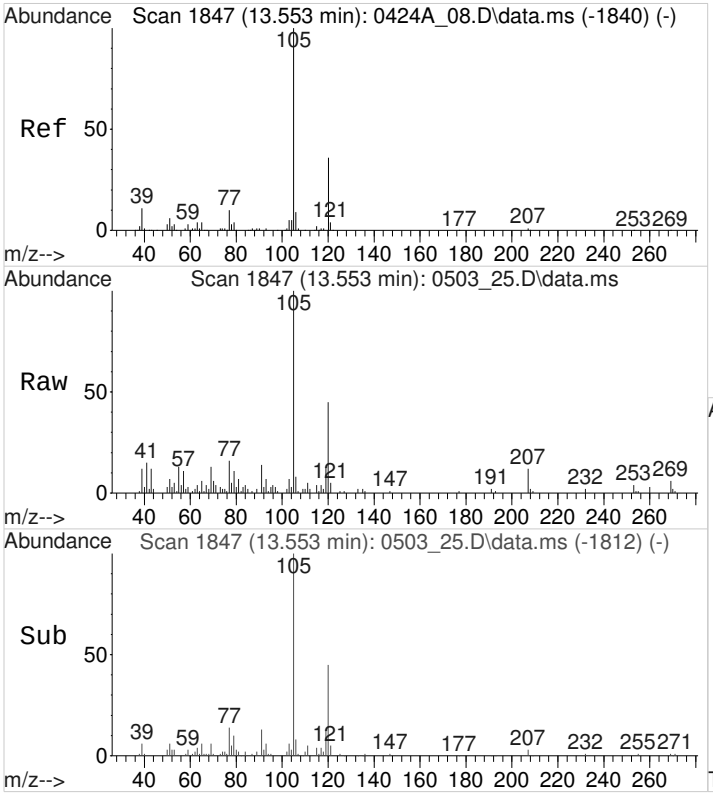


#89
1,3,5-Trimethylbenzene
Concen: 0.1655034 ppbv
RT: 13.202 min Scan# 1785
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion:105 Resp: 12830

Ion	Ratio	Lower	Upper
105	100		
120	50.1	38.8	58.2

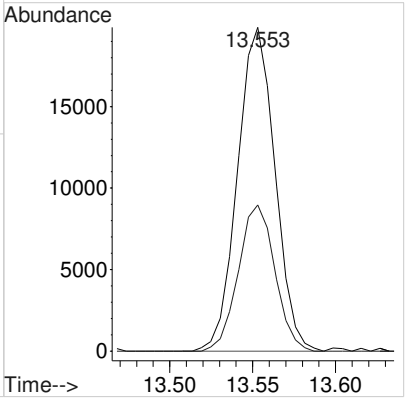


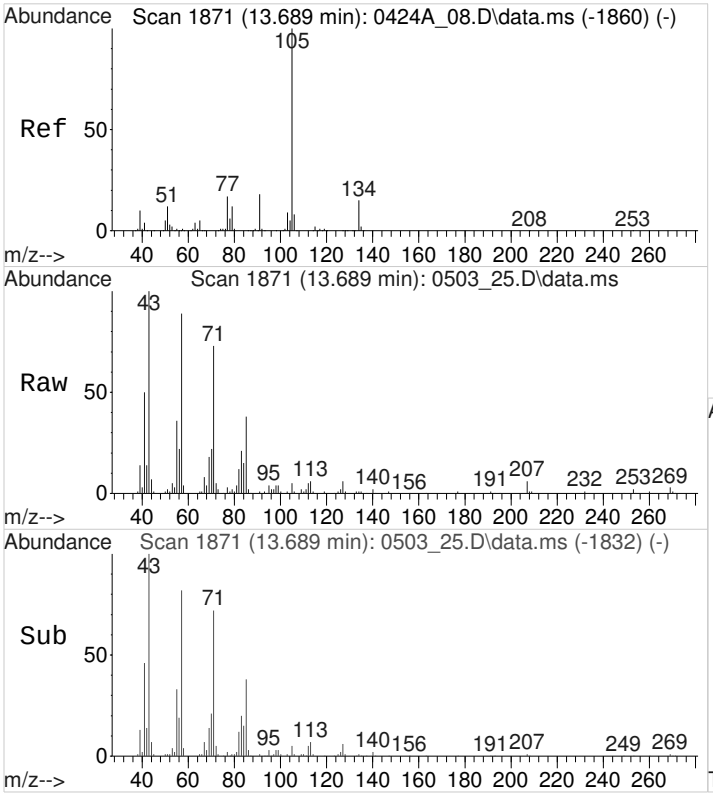


#91
1,2,4-Trimethylbenzene
Concen: 0.3904720 ppbv
RT: 13.553 min Scan# 1847
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion:105 Resp: 31179

Ion	Ratio	Lower	Upper
105	100		
120	44.0	35.7	53.5

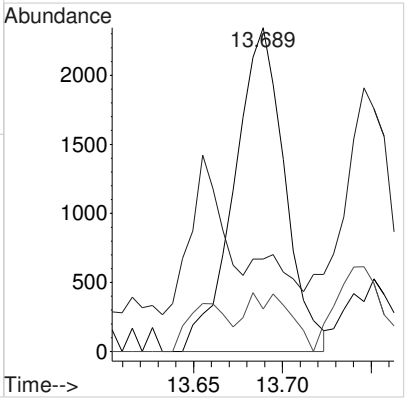


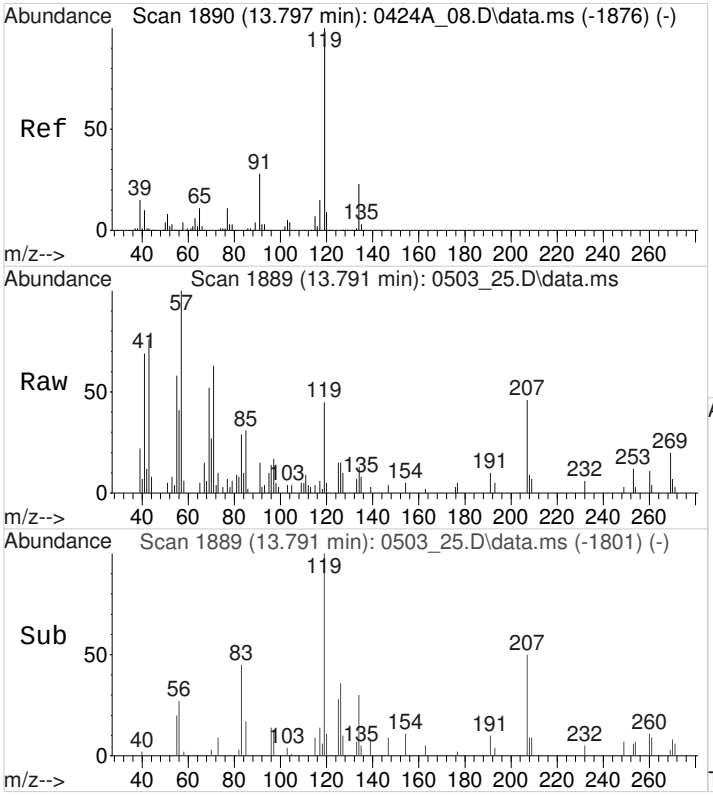


#92
sec-Butylbenzene
Concen: 0.0404379 ppbv
RT: 13.689 min Scan# 1871
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion:105 Resp: 4640

Ion	Ratio	Lower	Upper
105	100		
91	13.7	12.3	18.5
134	15.6	15.0	22.6

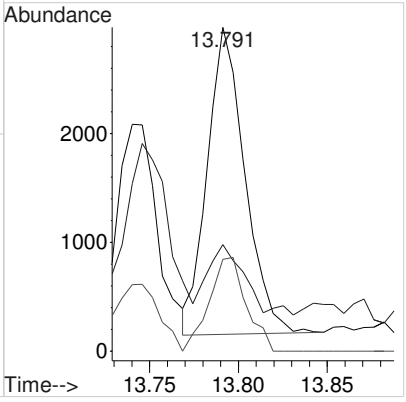


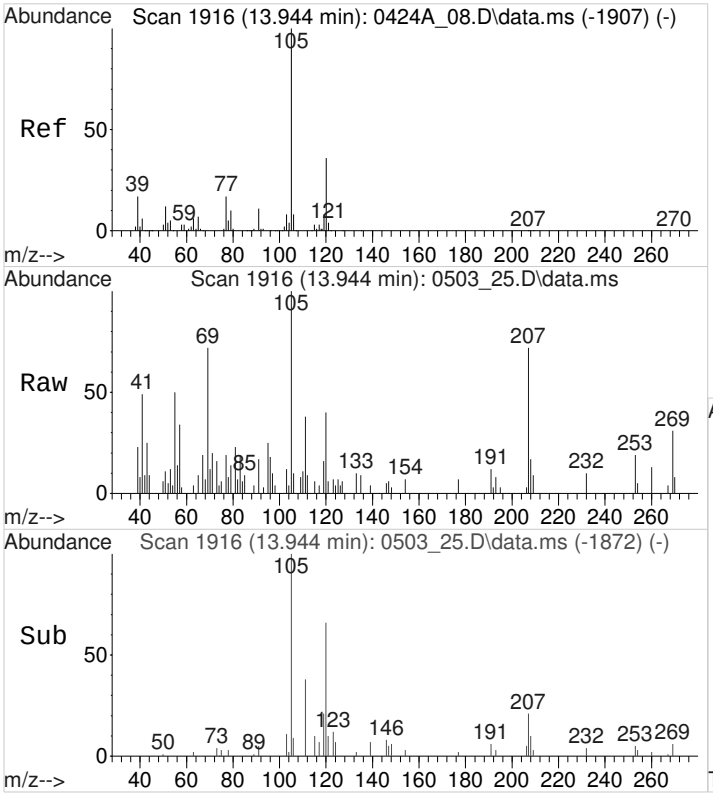


#94
P-ISOPROPYLTOLUENE
Concen: 0.0432674 ppbv
RT: 13.791 min Scan# 1889
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion:119 Resp: 4154

Ion	Ratio	Lower	Upper
119	100		
91	19.4	18.5	27.7
134	30.0	20.6	31.0

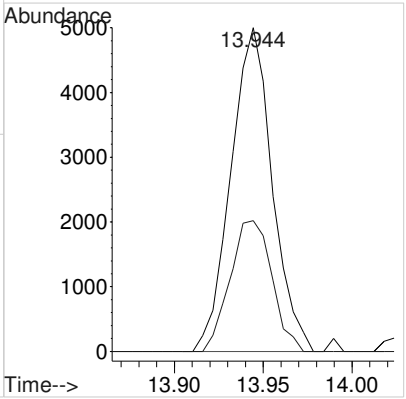




#96
1,2,3-TRIMETHYLBENZENE
Concen: 0.1010077 ppbv
RT: 13.944 min Scan# 1916
Delta R.T. 0.000 min
Lab File: 0503_25.D
Acq: 4 May 2024 3:51 am

Tgt Ion:105 Resp: 8110

Ion	Ratio	Lower	Upper
105	100		
120	40.9	34.0	51.0



6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1731355 **Analytical Method:** TO-15

Instrument ID: AIRMS8

Analyte	**RRF: 0.19**	**RRF: 0.31**	**RRF: 0.63**	**RRF: 1.25**	**RRF: 2.5**	**RRF: 3.75**	**RRF: 10.0**	**RRF: 25**	**RRF: 50**	**RRF: 100**
Analysis date/time	04/26/24 16:58	04/26/24 17:26	04/26/24 17:54	04/26/24 18:22	04/26/24 18:51	04/26/24 19:23	04/26/24 19:52	04/26/24 20:22	04/26/24 20:55	04/26/24 21:35
N-HEXANE	0.3980	0.3430	0.2950	0.3160	0.3280	0.3540	0.38	0.4060	0.4150	0.4030
TOLUENE	0.2930	0.2280	0.2280	0.2290	0.2320	0.2410	0.2560	0.2760	0.2820	0.2780
TETRACHLOROETHENE	0.2230	0.1610	0.1680	0.1670	0.1710	0.1690	0.1640	0.1660	0.1610	0.1550
1,4-BROMOFLUOROBENZENE	0.6130	0.6190	0.6520	0.6730	0.6910	0.6870	0.7020	0.7050	0.7180	0.6940
File ID:	0426B_03	0426B_04	0426B_05	0426B_06	0426B_07	0426B_08	0426B_09	0426B_10	0426B_11	0426B_12

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1731355 **Analytical Method:** TO-15

Instrument ID: AIRMS8

Analyte Analysis date/time	RRF. Avg	%RSD	COD
N-HEXANE	0.363825	11.69	
TOLUENE	0.254161	10.14	
TETRACHLOROETHENE	0.170471	11.18	
1,4-BROMOFLUOROBENZENE	0.675309	5.34	

Response Factor Report AIRMS8

Method Path : C:\GCMS\1\methods\
Method File : TOAIRMS8D26X.M
Title :
Last Update : Sat Apr 27 10:43:03 2024
Response Via : Initial Calibration

Calibration Files
0.19=0426B_03.D 0.31=0426B_04.D 0.63=0426B_05.D 1.25=0426B_06.D 2.5 =0426B_07.D 3.75=0426B_08.D 10.0=0426B_09.D 25 =0426B_10.D
50 =0426B_11.D 100 =0426B_12.D

	Compound	0.19	0.31	0.63	1.25	2.5	3.75	10.0	25	50	100	Avg	%RSD
1)	I Bromochloromethane	----------ISTD----------											
2)	h,n,MTPH (GC/MS) Lo...			5.701	4.013	3.383	3.179	2.929	2.799	2.823	2.674	3.437	29.40
3)	h,n,MTPH-GRO (C5-C10)				3.343	2.694	2.523	2.306	2.276	2.180	2.158	2.497	16.80
4)	h,n,MTHC as Gas (C4...			4.073	3.033	2.531	2.430	2.254	2.292	2.274	2.223	2.639	24.15
5)	T,M Propene	0.219	0.199	0.166	0.182	0.181	0.185	0.186	0.201	0.218	0.212	0.195	9.19
6)	T BUTANE	0.501	0.365	0.375	0.375	0.377	0.374	0.383	0.398	0.410	0.395	0.395	9.97
7)	1,1-DIFLUOROET...	0.225	0.178	0.165	0.175	0.163	0.174	0.171	0.177	0.185	0.181	0.180	9.73
8)	T,M Dichlorodifluo...	1.045	0.794	0.797	0.807	0.791	0.797	0.825	0.828	0.845	0.806	0.833	9.15
9)	CHLORODIFLUORO...	0.078	0.078	0.075	0.077	0.074	0.080	0.079	0.079	0.080	0.079	0.078	2.66
10)	T,M 1,2-Dichlorote...	0.971	0.742	0.741	0.761	0.777	0.777	0.770	0.800	0.809	0.787	0.793	8.36
11)	T,M Chloromethane	0.267	0.228	0.217	0.215	0.215	0.215	0.214	0.222	0.232	0.221	0.224	7.12
12)	T,M Vinyl Chloride	0.310	0.274	0.248	0.282	0.261	0.269	0.270	0.275	0.287	0.279	0.275	5.96
13)	T,M 1,3-Butadiene	0.244	0.204	0.195	0.207	0.195	0.203	0.201	0.215	0.226	0.215	0.211	7.21
14)	T,M Bromomethane	0.359	0.258	0.268	0.283	0.252	0.263	0.271	0.273	0.280	0.272	0.278	10.77
15)	T,M Chloroethane	0.171	0.116	0.142	0.160	0.143	0.147	0.145	0.151	0.159	0.152	0.149	9.88
16)	T ISOPENTANE	0.343	0.265	0.235	0.253	0.241	0.243	0.241	0.250	0.255	0.245	0.257	12.21
17)	T,M Vinyl Bromide	0.380	0.268	0.264	0.293	0.272	0.275	0.283	0.289	0.290	0.284	0.290	11.44
18)	T,M Trichlorofluor...	1.028	0.826	0.857	0.871	0.834	0.854	0.855	0.857	0.841	0.820	0.864	6.89
19)	T PENTANE	0.635	0.466	0.451	0.436	0.453	0.443	0.440	0.445	0.456	0.441	0.467	12.84
20)	T,M Ethanol											0.000	-1.00
21)	T ACROLEIN	0.146	0.123	0.105	0.109	0.108	0.107	0.125	0.127	0.131	0.129	0.121	11.11
22)	T,M 1,1,2-Trichlor...	0.788	0.604	0.600	0.617	0.590	0.616	0.616	0.611	0.603	0.589	0.623	9.43
23)	T,M 1,1-Dichloroet...	0.557	0.438	0.436	0.459	0.433	0.458	0.453	0.470	0.472	0.457	0.463	7.71
24)	T,M Acetone				0.259	0.195	0.179	0.164	0.156	0.158	0.154	0.181	20.72
25)	T BROMOETHANE	0.369	0.226	0.254	0.280	0.255	0.267	0.266	0.271	0.268	0.264	0.272	13.62
26)	T,M 2-Propanol	0.455	0.377	0.357	0.345	0.354	0.338	0.516	0.528	0.528	0.500	0.430	19.26
27)	T,M Carbon Disulfide	0.965	0.687	0.698	0.729	0.716	0.713	0.735	0.755	0.757	0.740	0.749	10.55
28)	T,M Allyl Chloride	0.428	0.278	0.313	0.317	0.320	0.305	0.318	0.323	0.331	0.322	0.325	11.91
29)	T METHYL ACETATE	0.659	0.547	0.468	0.505	0.523	0.521	0.578	0.576	0.584	0.550	0.551	9.53
30)	T ACETONITRILE	0.261	0.184	0.163	0.165	0.162	0.167	0.232	0.235	0.246	0.233	0.205	19.53
31)	T,M Methylene Chlo...	0.367	0.284	0.301	0.289	0.299	0.284	0.291	0.295	0.302	0.286	0.300	8.17
32)	TERT-BUTYL ALC...	0.839	0.593	0.628	0.627	0.618	0.630	0.731	0.739	0.714	0.616	0.673	11.67
33)	T,M Methyl Tert-Bu...	0.928	0.710	0.689	0.717	0.710	0.736	0.765	0.792	0.810	0.812	0.767	9.36
34)	T,M Trans-1,2-Dich...	0.472	0.357	0.367	0.341	0.357	0.354	0.366	0.374	0.376	0.371	0.373	9.70
35)	T ACRYLONITRILE	0.229	0.191	0.212	0.204	0.201	0.199	0.237	0.234	0.242	0.239	0.219	8.79

Method Path : C:\GCMS\1\methods\
Method File : TOAIRMS8D26X.M
Title :

36)	T,M	n-Hexane	0.398	0.343	0.295	0.316	0.328	0.354	0.380	0.406	0.415	0.403	0.364	11.69
37)	T,M	1,1-Dichloroet...	0.595	0.468	0.474	0.457	0.446	0.467	0.470	0.475	0.476	0.462	0.479	8.74
38)	T,M	Vinyl Acetate	0.681	0.565	0.507	0.531	0.535	0.556	0.629	0.673	0.709	0.690	0.608	12.64
39)	T	DI-ISOPROPYL E...	0.928	0.699	0.673	0.720	0.765	0.811	0.857	0.903	0.916	0.884	0.815	11.73
40)	T	ETHYL TERT-BUT...	0.756	0.601	0.627	0.656	0.689	0.722	0.793	0.838	0.861	0.851	0.740	12.90
41)		ETHYL ACETATE	1.269	1.065	0.967	1.046	1.037	1.076	1.186	1.224	1.241	1.190	1.130	9.16
42)	T,M	2-Butanone (MEK)	0.155	0.121	0.106	0.119	0.115	0.124	0.137	0.142	0.146	0.147	0.131	12.34
43)	T,M	cis-1,2-Dichlo...	0.380	0.298	0.306	0.306	0.311	0.316	0.333	0.352	0.363	0.353	0.332	8.63
44)	T,M	Tetrahydrofuran	0.218	0.183	0.185	0.206	0.210	0.226	0.248	0.269	0.283	0.273	0.230	15.72
45)	T,M	Chloroform	0.771	0.569	0.604	0.605	0.596	0.629	0.627	0.627	0.624	0.602	0.625	8.71
46)	T,M	Cyclohexane	0.391	0.275	0.308	0.289	0.309	0.326	0.353	0.392	0.399	0.398	0.344	14.09
47)	T,M	1,1,1-Trichlor...	0.798	0.583	0.624	0.668	0.601	0.625	0.627	0.643	0.638	0.629	0.644	9.16
48)	T,M	Carbon Tetrach...	0.875	0.670	0.654	0.687	0.685	0.686	0.694	0.720	0.713	0.702	0.708	8.72
49)	T,M	2,2,4-Trimethy...	1.380	1.005	1.063	1.106	1.164	1.217	1.299	1.328	1.342	1.300	1.220	10.64
50)	I	1,4-Difluorobenzene	----------ISTD----------											
51)	T,M	Benzene	0.293	0.233	0.233	0.224	0.226	0.224	0.226	0.236	0.239	0.235	0.237	8.60
52)	T	TERT-AMYL METH...	0.260	0.211	0.184	0.190	0.187	0.192	0.195	0.211	0.218	0.216	0.206	10.93
53)	T,M	1,2-Dichloroet...	0.140	0.118	0.109	0.106	0.107	0.112	0.106	0.109	0.109	0.104	0.112	9.38
54)	T,M	Heptane	0.130	0.093	0.096	0.097	0.106	0.110	0.113	0.119	0.121	0.115	0.110	10.84
55)	T,M	Trichloroethene	0.129	0.110	0.104	0.107	0.106	0.106	0.104	0.110	0.111	0.107	0.109	6.66
56)		TERT-AMYL ETHY...	0.055	0.053	0.047	0.053	0.054	0.056	0.058	0.063	0.064	0.064	0.057	9.53
57)		METHYL CYCLOHE...	0.128	0.092	0.103	0.104	0.116	0.118	0.125	0.130	0.129	0.126	0.117	11.33
58)	T,M	1,2-Dichloropr...	0.100	0.092	0.078	0.075	0.076	0.079	0.076	0.079	0.080	0.079	0.082	9.68
59)	T,M	Methyl Methacr...	0.071	0.069	0.056	0.060	0.063	0.067	0.074	0.083	0.085	0.083	0.071	14.07
60)	T,M	1,4-Dioxane	0.053	0.042	0.040	0.039	0.036	0.035	0.053	0.055	0.056	0.055	0.046	18.72
61)	T,M	Bromodichlorom...	0.232	0.169	0.171	0.169	0.171	0.171	0.166	0.173	0.173	0.169	0.176	11.13
62)	T,M	cis-1,3-Dichlo...	0.125	0.112	0.096	0.099	0.103	0.105	0.098	0.111	0.111	0.108	0.107	8.10
63)	T,M	4-Methyl-2-Pen...	0.223	0.151	0.159	0.162	0.168	0.173	0.199	0.223	0.231	0.223	0.191	16.61
64)	T	n-OCTANE	0.125	0.095	0.094	0.101	0.112	0.117	0.135	0.148	0.154	0.149	0.123	18.47
65)	T,M	Toluene	0.293	0.228	0.228	0.229	0.232	0.241	0.256	0.276	0.282	0.278	0.254	10.14
66)	T,M	trans-1,3-Dich...	0.103	0.072	0.072	0.083	0.086	0.093	0.094	0.104	0.109	0.109	0.093	14.95
67)	T,M	1,1,2-Trichlor...	0.105	0.093	0.081	0.092	0.087	0.087	0.085	0.088	0.087	0.086	0.089	7.23
68)	T,M	Tetrachloroethene	0.223	0.161	0.168	0.167	0.171	0.169	0.164	0.166	0.161	0.155	0.170	11.18
69)	T,M	Methyl Butyl K...		0.064	0.065	0.071	0.070	0.070	0.134	0.143	0.147	0.141	0.101	38.55
70)	T,M	Chlorodibromom...	0.214	0.150	0.172	0.167	0.166	0.166	0.165	0.172	0.172	0.169	0.171	9.48
71)	T,M	1,2-Dibromoethane	0.150	0.121	0.128	0.126	0.131	0.131	0.134	0.140	0.142	0.140	0.134	6.46
72)	T,M	Chlorobenzene	0.281	0.215	0.219	0.225	0.224	0.229	0.219	0.227	0.228	0.226	0.229	8.19
73)	T	NONANE	0.121	0.082	0.087	0.107	0.133	0.137	0.151	0.162	0.165	0.155	0.130	23.10
74)	I	Chlorobenzene-d5	----------ISTD----------											
75)	T,M	Ethylbenzene	0.404	0.314	0.328	0.350	0.374	0.388	0.420	0.456	0.463	0.463	0.396	13.90
76)	T,M	M&P-Xylene	0.308	0.237	0.275	0.298	0.317	0.351	0.369	0.385	0.388	0.388	0.331	15.86
77)	T,M	O-Xylene	0.317	0.230	0.262	0.294	0.324	0.337	0.362	0.374	0.373	0.366	0.324	15.18
78)		TOTAL XYLENES											0.000	-1.00
79)		XYLENES, TOTAL											0.000	-1.00

Method Path : C:\GCMS\1\methods\
Method File : TOAIRMS8D26X.M
Title :

80)	T,M	Styrene	0.194	0.151	0.168	0.182	0.214	0.224	0.253	0.278	0.280	0.280	0.222	21.91
81)	T,M	Bromoform	0.271	0.188	0.224	0.235	0.243	0.245	0.248	0.258	0.257	0.248	0.242	9.39
82)	T,M	Isopropylbenzene	0.592	0.451	0.468	0.479	0.491	0.531	0.534	0.549	0.549	0.540	0.518	8.53
83)	T	n-DECANE	0.290	0.186	0.182	0.182	0.202	0.215	0.221	0.227	0.230	0.216	0.215	14.80
84)	T,M	1,1,2,2-Tetrac...	0.283	0.212	0.216	0.221	0.239	0.242	0.244	0.245	0.248	0.240	0.239	8.49
85)	T,M	n-Propylbenzene	0.503	0.394	0.400	0.455	0.541	0.580	0.627	0.646	0.642	0.630	0.542	18.28
86)	T,M	4-Ethyltoluene	0.402	0.313	0.315	0.360	0.444	0.485	0.530	0.554	0.552	0.544	0.450	21.63
87)	T,M	2-Chlorotoluene	0.335	0.270	0.286	0.300	0.308	0.329	0.349	0.369	0.377	0.375	0.330	11.54
88)	S	1,4-Bromofluor...	0.613	0.619	0.652	0.673	0.691	0.687	0.702	0.705	0.718	0.694	0.675	5.34
89)	T,M	1,3,5-Trimethy...	0.443	0.333	0.334	0.351	0.389	0.429	0.441	0.453	0.455	0.451	0.408	12.53
90)	T,M	tert-Butylbenzene	0.474	0.386	0.376	0.391	0.439	0.470	0.494	0.517	0.514	0.507	0.457	12.08
91)	T,M	1,2,4-Trimethy...	0.442	0.343	0.329	0.352	0.388	0.425	0.457	0.478	0.480	0.473	0.417	14.15
92)	T,M	sec-Butylbenzene	0.691	0.561	0.562	0.619	0.629	0.677	0.677	0.695	0.684	0.664	0.646	7.89
93)	T,M	1,3-Dichlorobe...	0.274	0.206	0.262	0.301	0.327	0.346	0.337	0.354	0.346	0.331	0.308	15.43
94)	T	P-ISOPROPYLTOL...	0.994	0.696	0.617	0.622	0.619	0.646	0.637	0.667	0.653	0.656	0.681	16.58
95)	T,M	1,4-Dichlorobe...	0.259	0.194	0.282	0.301	0.333	0.344	0.346	0.360	0.345	0.334	0.310	16.76
96)		1,2,3-TRIMETHY...	0.685	0.519	0.451	0.406	0.435	0.453	0.474	0.499	0.497	0.495	0.491	15.52
97)	T,M	Benzyl Chloride	0.239	0.174	0.166	0.184	0.247	0.296	0.342	0.402	0.432	0.449	0.293	36.90
98)	T,M	n-Butylbenzene	0.335	0.372	0.683	0.707	0.475	0.489	0.501	0.553	0.562	0.563	0.524	22.54
99)	T,M	1,2-Dichlorobe...	0.395	0.266	0.274	0.314	0.333	0.340	0.336	0.347	0.335	0.327	0.327	11.21
100)	T	1,2-DIBROMO-3-...	0.327	0.232	0.199	0.195	0.170	0.183	0.185	0.204	0.208	0.208	0.211	20.93
101)	T,M	1,2,4-Trichlor...											0.000	-1.00
102)	T,M	Hexachloro-1,3...			0.890	0.694	0.536	0.512	0.453	0.470	0.459	0.459	0.559	27.82
103)	T,M	Naphthalene											0.000	-1.00

(#) = Out of Range

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_03.D
Acq On : 26 Apr 2024 04:58 pm
Operator :
Sample : STD AMS 0.19 ppbv 24D26988
Misc : 24D25866
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 27 04:44:55 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:44:47 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.199	130	42019	4.0000000	ppbv	-0.01
50) 1,4-Difluorobenzene	4.178	114	143731	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	6.406	117	115101	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	7.189	95	70590	4.0000000	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.00%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	5.430	TIC	1387506m	Below Cal		
3) TPH-GRO (C5-C10)	5.430	TIC	1664706m	173.6361435	ppbv	
4) THC as Gas (C4-C12)	5.430	TIC	1902372m	Below Cal		
5) Propene	1.565	41	438	0.1900000	ppbv #	80
6) BUTANE	1.747	43	999	0.1900000	ppbv	96
7) 1,1-DIFLUOROETHANE	1.542	65	450	0.1900000	ppbv	97
8) Dichlorodifluoromethane	1.580	85	2085	0.1900000	ppbv	97
9) CHLORODIFLUOROMETHANE	1.553	67	156	0.1900000	ppbv #	25
10) 1,2-Dichlorotetrafluor...	1.656	85	1939	0.1900000	ppbv	96
11) Chloromethane	1.625	50	532	0.1900000	ppbv #	79
12) Vinyl Chloride	1.690	62	618	0.1900000	ppbv	92
13) 1,3-Butadiene	1.731	54	487	0.1900000	ppbv #	60
14) Bromomethane	1.811	94	716	0.1900000	ppbv	93
15) Chloroethane	1.864	64	341	0.1900000	ppbv #	82
16) ISOPENTANE	2.224	41	685	0.1900000	ppbv	98
17) Vinyl Bromide	1.970	106	758	0.1900000	ppbv	94
18) Trichlorofluoromethane	2.107	101	2051	0.1900000	ppbv	96
19) PENTANE	2.228	43	1268	0.1900000	ppbv	99
20) Ethanol	1.902	45	202	0.1900000	ppbv #	79
21) ACROLEIN	2.008	56	292	0.1900000	ppbv	90
22) 1,1,2-Trichlorotrifluo...	2.463	101	1573	0.1900000	ppbv	99
23) 1,1-Dichloroethene	2.327	61	1112	0.1900000	ppbv	93
24) Acetone	2.054	58	1929	0.1900000	ppbv #	60
25) BROMOETHANE	2.315	108	737	0.1900000	ppbv	98
26) 2-Propanol	2.133	45	909	0.1900000	ppbv #	79
27) Carbon Disulfide	2.463	76	1926	0.1900000	ppbv #	45
28) Allyl Chloride	2.410	41	854	0.1900000	ppbv	98
29) METHYL ACETATE	2.365	43	1315	0.1900000	ppbv #	90
30) ACETONITRILE	1.963	41	2604	0.9500000	ppbv #	36
31) Methylene Chloride	2.369	49	732	0.1900000	ppbv #	100
32) TERT-BUTYL ALCOHOL	2.365	59	1674	0.1900000	ppbv	94
33) Methyl Tert-Butyl Ether	2.812	73	1852	0.1900000	ppbv #	89
34) Trans-1,2-Dichloroethene	2.698	61	942	0.1900000	ppbv #	92
35) ACRYLONITRILE	2.194	53	458	0.1900000	ppbv #	86
36) n-Hexane	3.241	57	795	0.1900000	ppbv #	88
37) 1,1-Dichloroethane	2.767	63	1188	0.1900000	ppbv	99
38) Vinyl Acetate	2.839	43	1360	0.1900000	ppbv #	100
39) DI-ISOPROPYL ETHER	3.260	45	1852	0.1900000	ppbv	97
40) ETHYL TERT-BUTYL ETHER	3.514	59	1509	0.1900000	ppbv	92
41) ETHYL ACETATE	3.264	43	2532	0.1900000	ppbv	97

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_03.D
Acq On : 26 Apr 2024 04:58 pm
Operator :
Sample : STD AMS 0.19 ppbv 24D26988
Misc : 24D25866
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 27 04:44:55 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:44:47 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Butanone (MEK)	2.949	72	309	0.1900000	ppbv	#	53
43) cis-1,2-Dichloroethene	3.127	61	758	0.1900000	ppbv		90
44) Tetrahydrofuran	3.472	42	436	0.1900000	ppbv	#	90
45) Chloroform	3.264	83	1539	0.1900000	ppbv		93
46) Cyclohexane	4.109	84	780	0.1900000	ppbv		98
47) 1,1,1-Trichloroethane	3.738	97	1593	0.1900000	ppbv		97
48) Carbon Tetrachloride	4.041	117	1747	0.1900000	ppbv		92
49) 2,2,4-Trimethylpentane	4.568	57	2755	0.1900000	ppbv		96
51) Benzene	3.969	78	1999	0.1900000	ppbv		94
52) TERT-AMYL METHYL ETHER	4.314	73	1772	0.1900000	ppbv	#	94
53) 1,2-Dichloroethane	3.612	62	954	0.1900000	ppbv		99
54) Heptane	4.727	43	886	0.1900000	ppbv		91
55) Trichloroethene	4.523	95	881	0.1900000	ppbv	#	85
56) TERT-AMYL ETHYL ETHER	5.042	73	375	0.1900000	ppbv	#	74
57) METHYL CYCLOHEXANE	5.029	83	876	0.1900000	ppbv		87
58) 1,2-Dichloropropane	4.394	63	680	0.1900000	ppbv		87
59) Methyl Methacrylate	4.686	69	486	0.1900000	ppbv	#	69
60) 1,4-Dioxane	4.587	88	364	0.1900000	ppbv	#	16
61) Bromodichloromethane	4.488	83	1584	0.1900000	ppbv		90
62) cis-1,3-Dichloropropene	4.989	75	855	0.1900000	ppbv	#	84
63) 4-Methyl-2-Pentanone (...	5.051	43	1524	0.1900000	ppbv	#	83
64) n-OCTANE	6.078	43	850	0.1900000	ppbv	#	88
65) Toluene	5.502	91	1997	0.1900000	ppbv		94
66) trans-1,3-Dichloropropene	5.280	75	701	0.1900000	ppbv	#	74
67) 1,1,2-Trichloroethane	5.355	97	715	0.1900000	ppbv		95
68) Tetrachloroethene	6.087	166	1523	0.1900000	ppbv		96
69) Methyl Butyl Ketone	5.705	43	440	0.1900000	ppbv	#	88
70) Chlorodibromomethane	5.702	129	1460	0.1900000	ppbv		93
71) 1,2-Dibromoethane	5.827	107	1023	0.1900000	ppbv		98
72) Chlorobenzene	6.428	112	1920	0.1900000	ppbv	#	94
73) NONANE	7.129	43	829	0.1900000	ppbv	#	96
75) Ethylbenzene	6.638	91	2208	0.1900000	ppbv		99
76) M&P-Xylene	6.732	91	3363	0.3800000	ppbv		94
77) O-Xylene	6.960	91	1733	0.1900000	ppbv		90
80) Styrene	6.910	104	1062	0.1900000	ppbv	#	89
81) Bromoform	6.729	173	1482	0.1900000	ppbv		96
82) Isopropylbenzene	7.277	105	3237	0.1900000	ppbv	#	92
83) n-DECANE	7.996	43	1583	0.1900000	ppbv		90
84) 1,1,2,2-Tetrachloroethane	6.954	83	1547	0.1900000	ppbv		96
85) n-Propylbenzene	7.543	91	2750	0.1900000	ppbv		93
86) 4-Ethyltoluene	7.621	105	2198	0.1900000	ppbv		97
87) 2-Chlorotoluene	7.499	91	1830	0.1900000	ppbv		97
89) 1,3,5-Trimethylbenzene	7.671	105	2420	0.1900000	ppbv		100
90) tert-Butylbenzene	7.881	119	2591	0.1900000	ppbv		92
91) 1,2,4-Trimethylbenzene	7.884	105	2416	0.1900000	ppbv		97
92) sec-Butylbenzene	8.031	105	3779	0.1900000	ppbv		97
93) 1,3-Dichlorobenzene	7.943	146	1499	0.1900000	ppbv		97
94) P-ISOPROPYLTOLUENE	8.137	119	5436	0.1900000	ppbv	#	90
95) 1,4-Dichlorobenzene	7.987	146	1418	0.1900000	ppbv		95
96) 1,2,3-TRIMETHYLBENZENE	8.122	105	3747	0.1900000	ppbv	#	73

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_03.D
Acq On : 26 Apr 2024 04:58 pm
Operator :
Sample : STD AMS 0.19 ppbv 24D26988
Misc : 24D25866
ALS Vial : 3 Sample Multiplier: 1

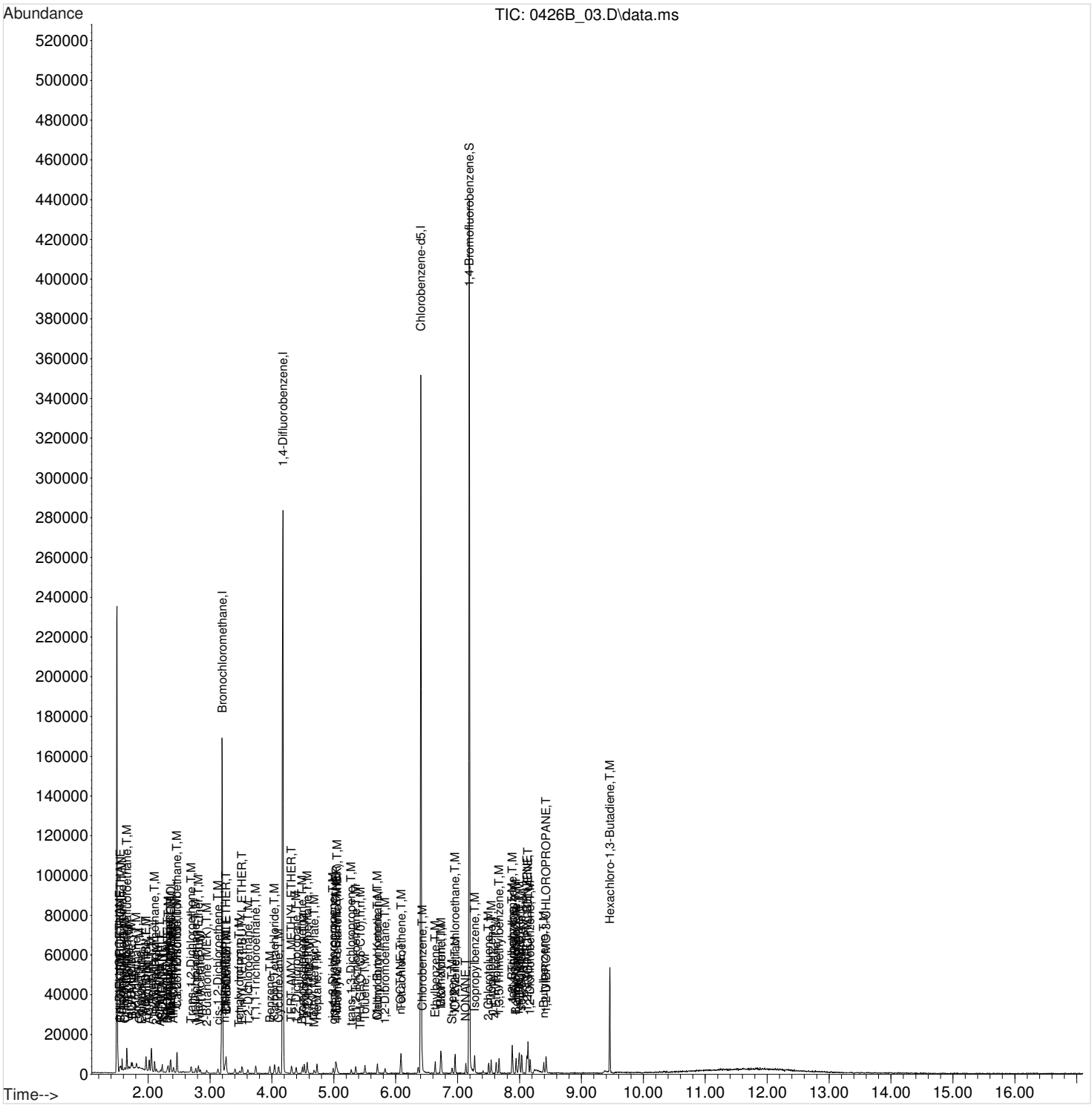
Quant Time: Apr 27 04:44:55 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:44:47 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	7.943	91	1305	0.1900000	ppbv	92
98) n-Butylbenzene	8.391	91	1831	0.1900000	ppbv	93
99) 1,2-Dichlorobenzene	8.169	146	2161	0.1900000	ppbv	90
100) 1,2-DIBROMO-3-CHLOROPR...	8.428	157	1789	0.1900000	ppbv	91
102) Hexachloro-1,3-Butadiene	9.458	225	6278	0.1900000	ppbv	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_03.D
Acq On : 26 Apr 2024 04:58 pm
Operator :
Sample : STD AMS 0.19 ppbv 24D26988
Misc : 24D25866
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 27 04:44:55 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:44:47 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_04.D
Acq On : 26 Apr 2024 05:26 pm
Operator :
Sample : STD AMS 0.31 ppbv 24D26988
Misc : 24D25866
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 27 04:46:21 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:46:17 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.199	130	40664	4.0000000	ppbv	-0.01
50) 1,4-Difluorobenzene	4.178	114	137447	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	6.407	117	110785	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	7.189	95	68524	4.0342021	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.86%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	5.430	TIC	1388296m	9.2328181	ppbv	
3) TPH-GRO (C5-C10)	5.430	TIC	1674801m	13.6289995	ppbv	
4) THC as Gas (C4-C12)	5.430	TIC	1925703m	18.8802041	ppbv	
5) Propene	1.565	41	627	0.2810494	ppbv	96
6) BUTANE	1.751	43	1151	0.2262034	ppbv	95
7) 1,1-DIFLUOROETHANE	1.542	65	561	0.2447595	ppbv	96
8) Dichlorodifluoromethane	1.584	85	2501	0.2355032	ppbv	99
9) CHLORODIFLUOROMETHANE	1.557	67	247	0.3108577	ppbv	96
10) 1,2-Dichlorotetrafluor...	1.660	85	2337	0.2366302	ppbv	95
11) Chloromethane	1.629	50	718	0.2649732	ppbv	96
12) Vinyl Chloride	1.690	62	862	0.2738470	ppbv	98
13) 1,3-Butadiene	1.732	54	644	0.2596248	ppbv	82
14) Bromomethane	1.811	94	812	0.2226549	ppbv	96
15) Chloroethane	1.864	64	364	0.2095734	ppbv	90
16) ISOPENTANE	2.236	41	834	0.2390368	ppbv	97
17) Vinyl Bromide	1.971	106	844	0.2186062	ppbv	94
18) Trichlorofluoromethane	2.111	101	2603	0.2491711	ppbv	99
19) PENTANE	2.232	43	1469	0.2274530	ppbv	99
20) Ethanol	1.902	45	186	0.1807802	ppbv #	76
21) ACROLEIN	2.012	56	387	0.2602060	ppbv	93
22) 1,1,2-Trichlorotrifluo...	2.471	101	1905	0.2377691	ppbv	99
23) 1,1-Dichloroethene	2.331	61	1379	0.2434718	ppbv	96
24) Acetone	2.054	58	1851	0.1883924	ppbv	72
25) BROMOETHANE	2.316	108	713	0.1899377	ppbv	81
26) 2-Propanol	2.141	45	1189	0.2568072	ppbv	95
27) Carbon Disulfide	2.471	76	2166	0.2207961	ppbv #	84
28) Allyl Chloride	2.414	41	877	0.2016188	ppbv	87
29) METHYL ACETATE	2.365	43	1725	0.2575447	ppbv #	93
30) ACETONITRILE	1.971	41	2900	1.0932418	ppbv #	51
31) Methylene Chloride	2.369	49	894	0.2397815	ppbv #	100
32) TERT-BUTYL ALCOHOL	2.365	59	1869	0.2192013	ppbv #	80
33) Methyl Tert-Butyl Ether	2.816	73	2239	0.2373572	ppbv	100
34) Trans-1,2-Dichloroethene	2.699	61	1126	0.2346803	ppbv	91
35) ACRYLONITRILE	2.206	53	601	0.2576311	ppbv	94
36) n-Hexane	3.245	57	1082	0.2672079	ppbv	97
37) 1,1-Dichloroethane	2.775	63	1474	0.2435961	ppbv #	90
38) Vinyl Acetate	2.843	43	1782	0.2572516	ppbv #	100
39) DI-ISOPROPYL ETHER	3.264	45	2203	0.2335408	ppbv	83
40) ETHYL TERT-BUTYL ETHER	3.518	59	1893	0.2462922	ppbv	98
41) ETHYL ACETATE	3.264	43	3357	0.2603016	ppbv #	89

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_04.D
Acq On : 26 Apr 2024 05:26 pm
Operator :
Sample : STD AMS 0.31 ppbv 24D26988
Misc : 24D25866
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 27 04:46:21 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:46:17 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone (MEK)	2.953	72	382	0.2427136	ppbv #	81
43) cis-1,2-Dichloroethene	3.131	61	938	0.2429533	ppbv	92
44) Tetrahydrofuran	3.480	42	577	0.2598236	ppbv #	90
45) Chloroform	3.268	83	1793	0.2287341	ppbv	94
46) Cyclohexane	4.109	84	868	0.2184813	ppbv	94
47) 1,1,1-Trichloroethane	3.742	97	1836	0.2262800	ppbv	96
48) Carbon Tetrachloride	4.049	117	2110	0.2371258	ppbv	92
49) 2,2,4-Trimethylpentane	4.572	57	3166	0.2256205	ppbv	95
51) Benzene	3.965	78	2478	0.2462960	ppbv	99
52) TERT-AMYL METHYL ETHER	4.318	73	2244	0.2516100	ppbv	98
53) 1,2-Dichloroethane	3.616	62	1255	0.2613751	ppbv	96
54) Heptane	4.728	43	995	0.2231301	ppbv	94
55) Trichloroethene	4.527	95	1175	0.2649908	ppbv	93
56) TERT-AMYL ETHYL ETHER	5.042	73	561	0.2972353	ppbv	87
57) METHYL CYCLOHEXANE	5.026	83	979	0.2220483	ppbv #	73
58) 1,2-Dichloropropane	4.390	63	980	0.2863426	ppbv	94
59) Methyl Methacrylate	4.678	69	738	0.3017094	ppbv #	76
60) 1,4-Dioxane	4.576	88	449	0.2450833	ppbv #	18
61) Bromodichloromethane	4.496	83	1798	0.2255295	ppbv	96
62) cis-1,3-Dichloropropene	4.993	75	1198	0.2783938	ppbv	94
63) 4-Methyl-2-Pentanone (...	5.058	43	1613	0.2102898	ppbv #	94
64) n-OCTANE	6.081	43	1013	0.2367878	ppbv #	85
65) Toluene	5.505	91	2425	0.2412695	ppbv	94
66) trans-1,3-Dichloropropene	5.280	75	768	0.2176767	ppbv #	86
67) 1,1,2-Trichloroethane	5.355	97	986	0.2739931	ppbv	86
68) Tetrachloroethene	6.087	166	1714	0.2236041	ppbv	93
69) Methyl Butyl Ketone	5.709	43	680	0.3070613	ppbv #	77
70) Chlorodibromomethane	5.702	129	1600	0.2177388	ppbv	96
71) 1,2-Dibromoethane	5.828	107	1288	0.2501549	ppbv	97
72) Chlorobenzene	6.425	112	2295	0.2374927	ppbv #	90
73) NONANE	7.136	43	870	0.2085132	ppbv #	82
75) Ethylbenzene	6.638	91	2699	0.2412990	ppbv	98
76) M&P-Xylene	6.732	91	4068	0.4775686	ppbv	97
77) O-Xylene	6.961	91	1977	0.2251956	ppbv	96
80) Styrene	6.911	104	1293	0.2403398	ppbv	94
81) Bromoform	6.729	173	1617	0.2153841	ppbv	93
82) Isopropylbenzene	7.274	105	3875	0.2363093	ppbv #	96
83) n-DECANE	7.994	43	1600	0.1995220	ppbv	91
84) 1,1,2,2-Tetrachloroethane	6.958	83	1819	0.2321101	ppbv	98
85) n-Propylbenzene	7.546	91	3387	0.2431276	ppbv	94
86) 4-Ethyltoluene	7.624	105	2689	0.2414987	ppbv	95
87) 2-Chlorotoluene	7.499	91	2320	0.2502584	ppbv	95
89) 1,3,5-Trimethylbenzene	7.668	105	2859	0.2332118	ppbv	95
90) tert-Butylbenzene	7.878	119	3317	0.2527143	ppbv	95
91) 1,2,4-Trimethylbenzene	7.887	105	2945	0.2406246	ppbv	96
92) sec-Butylbenzene	8.031	105	4819	0.2517281	ppbv #	93
93) 1,3-Dichlorobenzene	7.944	146	1770	0.2330899	ppbv	96
94) P-ISOPROPYLTOLUENE	8.138	119	5975	0.2169752	ppbv #	88
95) 1,4-Dichlorobenzene	7.984	146	1665	0.2317874	ppbv	93
96) 1,2,3-TRIMETHYLBENZENE	8.116	105	4459	0.2349122	ppbv	88

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_04.D
Acq On : 26 Apr 2024 05:26 pm
Operator :
Sample : STD AMS 0.31 ppbv 24D26988
Misc : 24D25866
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 27 04:46:21 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:46:17 2024
Response via : Initial Calibration

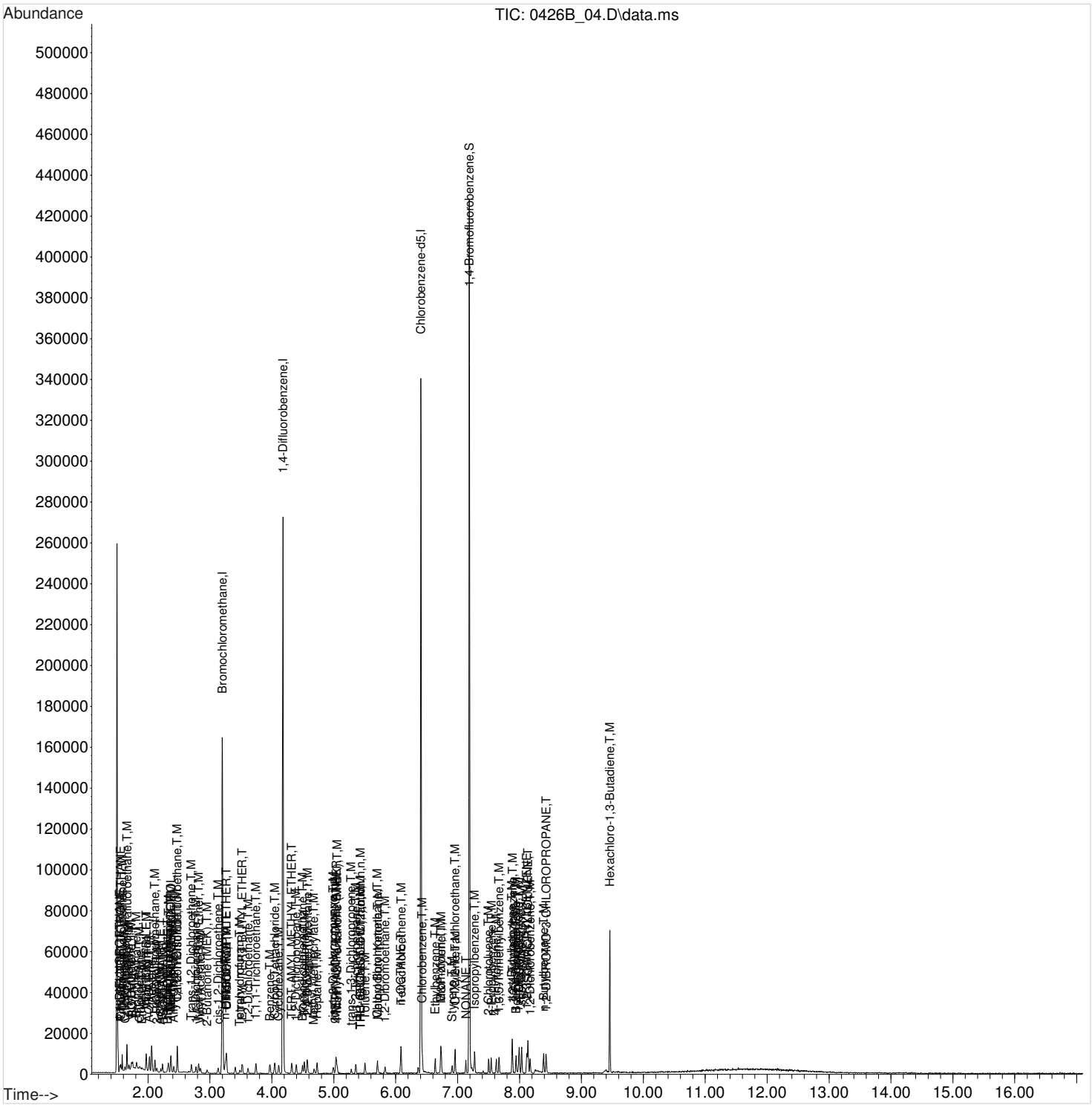
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97) Benzyl Chloride	7.947	91	1496	0.2262939 ppbv	96
98) n-Butylbenzene	8.391	91	3194	0.3443486 ppbv	96
99) 1,2-Dichlorobenzene	8.172	146	2288	0.2090032 ppbv	96
100) 1,2-DIBROMO-3-CHLOROPR...	8.432	157	1988	0.2193602 ppbv	97
102) Hexachloro-1,3-Butadiene	9.458	225	8031	0.2525225 ppbv	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_04.D
Acq On : 26 Apr 2024 05:26 pm
Operator :
Sample : STD AMS 0.31 ppbv 24D26988
Misc : 24D25866
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 27 04:46:21 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:46:17 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_05.D
Acq On : 26 Apr 2024 05:54 pm
Operator :
Sample : STD AMS 0.63 ppbv 24D26988
Misc : 24D25866
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 27 04:46:52 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:46:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.207	130	44565	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	4.181	114	153550	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	6.410	117	122944	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	7.189	95	80204	4.2367402	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 105.92%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	5.430	TIC	1879961m	13.9662046	ppbv	
3) TPH-GRO (C5-C10)	5.430	TIC	2258423m	20.4860998	ppbv	
4) THC as Gas (C4-C12)	5.430	TIC	2715725m	29.6084736	ppbv	
5) Propene	1.568	41	1166	0.5002623	ppbv	96
6) BUTANE	1.754	43	2631	0.5455354	ppbv	97
7) 1,1-DIFLUOROETHANE	1.546	65	1158	0.5152149	ppbv	89
8) Dichlorodifluoromethane	1.587	85	5592	0.5460858	ppbv	100
9) CHLORODIFLUOROMETHANE	1.557	67	528	0.6055003	ppbv	85
10) 1,2-Dichlorotetrafluor...	1.663	85	5203	0.5452297	ppbv	94
11) Chloromethane	1.633	50	1520	0.5519267	ppbv	99
12) Vinyl Chloride	1.697	62	1741	0.5359303	ppbv	99
13) 1,3-Butadiene	1.739	54	1370	0.5485293	ppbv	80
14) Bromomethane	1.819	94	1882	0.5480974	ppbv	91
15) Chloroethane	1.868	64	999	0.6262695	ppbv	96
16) ISOPENTANE	2.236	41	1650	0.4872917	ppbv	94
17) Vinyl Bromide	1.978	106	1850	0.5128229	ppbv	100
18) Trichlorofluoromethane	2.115	101	6015	0.5825354	ppbv	96
19) PENTANE	2.240	43	3169	0.5164872	ppbv	98
20) Ethanol	1.906	45	348	0.3898863	ppbv	97
21) ACROLEIN	2.016	56	737	0.4916431	ppbv	99
22) 1,1,2-Trichlorotrifluo...	2.475	101	4209	0.5425625	ppbv	98
23) 1,1-Dichloroethene	2.334	61	3059	0.5520473	ppbv	94
24) Acetone	2.061	58	2623	0.3030343	ppbv #	63
25) BROMOETHANE	2.323	108	1785	0.5380863	ppbv	96
26) 2-Propanol	2.145	45	2508	0.5406614	ppbv #	85
27) Carbon Disulfide	2.479	76	4896	0.5319300	ppbv #	93
28) Allyl Chloride	2.422	41	2194	0.5577369	ppbv	94
29) METHYL ACETATE	2.372	43	3286	0.4890338	ppbv #	96
30) ACETONITRILE	1.974	41	5705	2.3015206	ppbv #	89
31) Methylene Chloride	2.376	49	2113	0.5831703	ppbv #	100
32) TERT-BUTYL ALCOHOL	2.372	59	4406	0.5524147	ppbv	97
33) Methyl Tert-Butyl Ether	2.820	73	4839	0.5302015	ppbv	99
34) Trans-1,2-Dichloroethene	2.706	61	2578	0.5580684	ppbv	93
35) ACRYLONITRILE	2.209	53	1487	0.6352965	ppbv	96
36) n-Hexane	3.252	57	2068	0.5005509	ppbv	86
37) 1,1-Dichloroethane	2.778	63	3325	0.5615382	ppbv	98
38) Vinyl Acetate	2.850	43	3558	0.5122576	ppbv #	100
39) DI-ISOPROPYL ETHER	3.267	45	4722	0.5210147	ppbv	91
40) ETHYL TERT-BUTYL ETHER	3.521	59	4400	0.5821804	ppbv	98
41) ETHYL ACETATE	3.267	43	6788	0.5221204	ppbv	94

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_05.D
Acq On : 26 Apr 2024 05:54 pm
Operator :
Sample : STD AMS 0.63 ppbv 24D26988
Misc : 24D25866
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 27 04:46:52 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:46:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 2-Butanone (MEK)	2.960	72	747	0.4858017 ppbv	91
43) cis-1,2-Dichloroethene	3.135	61	2147	0.5689465 ppbv	96
44) Tetrahydrofuran	3.480	42	1300	0.5811839 ppbv	96
45) Chloroform	3.271	83	4239	0.5678681 ppbv	97
46) Cyclohexane	4.113	84	2163	0.5828132 ppbv	91
47) 1,1,1-Trichloroethane	3.745	97	4377	0.5690708 ppbv	98
48) Carbon Tetrachloride	4.049	117	4587	0.5330228 ppbv	95
49) 2,2,4-Trimethylpentane	4.572	57	7464	0.5618106 ppbv	97
51) Benzene	3.973	78	5643	0.5595479 ppbv	94
52) TERT-AMYL METHYL ETHER	4.322	73	4460	0.4941766 ppbv	97
53) 1,2-Dichloroethane	3.616	62	2635	0.5330364 ppbv	97
54) Heptane	4.731	43	2323	0.5422858 ppbv	97
55) Trichloroethene	4.526	95	2520	0.5485417 ppbv	98
56) TERT-AMYL ETHYL ETHER	5.039	73	1140	0.5520298 ppbv	90
57) METHYL CYCLOHEXANE	5.029	83	2490	0.5891015 ppbv	92
58) 1,2-Dichloropropane	4.398	63	1889	0.5136569 ppbv	92
59) Methyl Methacrylate	4.686	69	1359	0.5040620 ppbv	99
60) 1,4-Dioxane	4.568	88	970	0.5293685 ppbv #	42
61) Bromodichloromethane	4.496	83	4132	0.5371155 ppbv	97
62) cis-1,3-Dichloropropene	4.993	75	2332	0.5111405 ppbv	90
63) 4-Methyl-2-Pentanone (...	5.051	43	3843	0.5344241 ppbv	97
64) n-OCTANE	6.078	43	2265	0.5373737 ppbv	97
65) Toluene	5.505	91	5513	0.5521942 ppbv	96
66) trans-1,3-Dichloropropene	5.283	75	1752	0.5222688 ppbv #	86
67) 1,1,2-Trichloroethane	5.358	97	1960	0.5175928 ppbv	95
68) Tetrachloroethene	6.090	166	4067	0.5518246 ppbv	98
69) Methyl Butyl Ketone	5.702	43	1568	0.6368117 ppbv #	90
70) Chlorodibromomethane	5.705	129	4167	0.5963449 ppbv	97
71) 1,2-Dibromoethane	5.827	107	3098	0.5961335 ppbv	93
72) Chlorobenzene	6.428	112	5291	0.5550142 ppbv	99
73) NONANE	7.133	43	2110	0.5412701 ppbv #	94
75) Ethylbenzene	6.638	91	6353	0.5755852 ppbv	94
76) M&P-Xylene	6.735	91	10579	1.2643377 ppbv	96
77) O-Xylene	6.964	91	5082	0.6042834 ppbv	97
80) Styrene	6.914	104	3249	0.6130717 ppbv	95
81) Bromoform	6.729	173	4346	0.6155760 ppbv	97
82) Isopropylbenzene	7.274	105	9053	0.5645837 ppbv	98
83) n-DECANE	7.990	43	3520	0.4813000 ppbv	83
84) 1,1,2,2-Tetrachloroethane	6.957	83	4176	0.5491610 ppbv	100
85) n-Propylbenzene	7.543	91	7742	0.5613222 ppbv	100
86) 4-Ethyltoluene	7.624	105	6095	0.5545217 ppbv	96
87) 2-Chlorotoluene	7.502	91	5539	0.5958116 ppbv	96
89) 1,3,5-Trimethylbenzene	7.668	105	6470	0.5427962 ppbv	95
90) tert-Butylbenzene	7.881	119	7280	0.5506721 ppbv	98
91) 1,2,4-Trimethylbenzene	7.884	105	6379	0.5288312 ppbv	99
92) sec-Butylbenzene	8.034	105	10883	0.5654089 ppbv	97
93) 1,3-Dichlorobenzene	7.943	146	5066	0.6862920 ppbv	97
94) P-ISOPROPYLTOLUENE	8.134	119	11948	0.4599839 ppbv	93
95) 1,4-Dichlorobenzene	7.984	146	5451	0.7825068 ppbv #	96
96) 1,2,3-TRIMETHYLBENZENE	8.112	105	8724	0.4712187 ppbv	98

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_05.D
Acq On : 26 Apr 2024 05:54 pm
Operator :
Sample : STD AMS 0.63 ppbv 24D26988
Misc : 24D25866
ALS Vial : 5 Sample Multiplier: 1

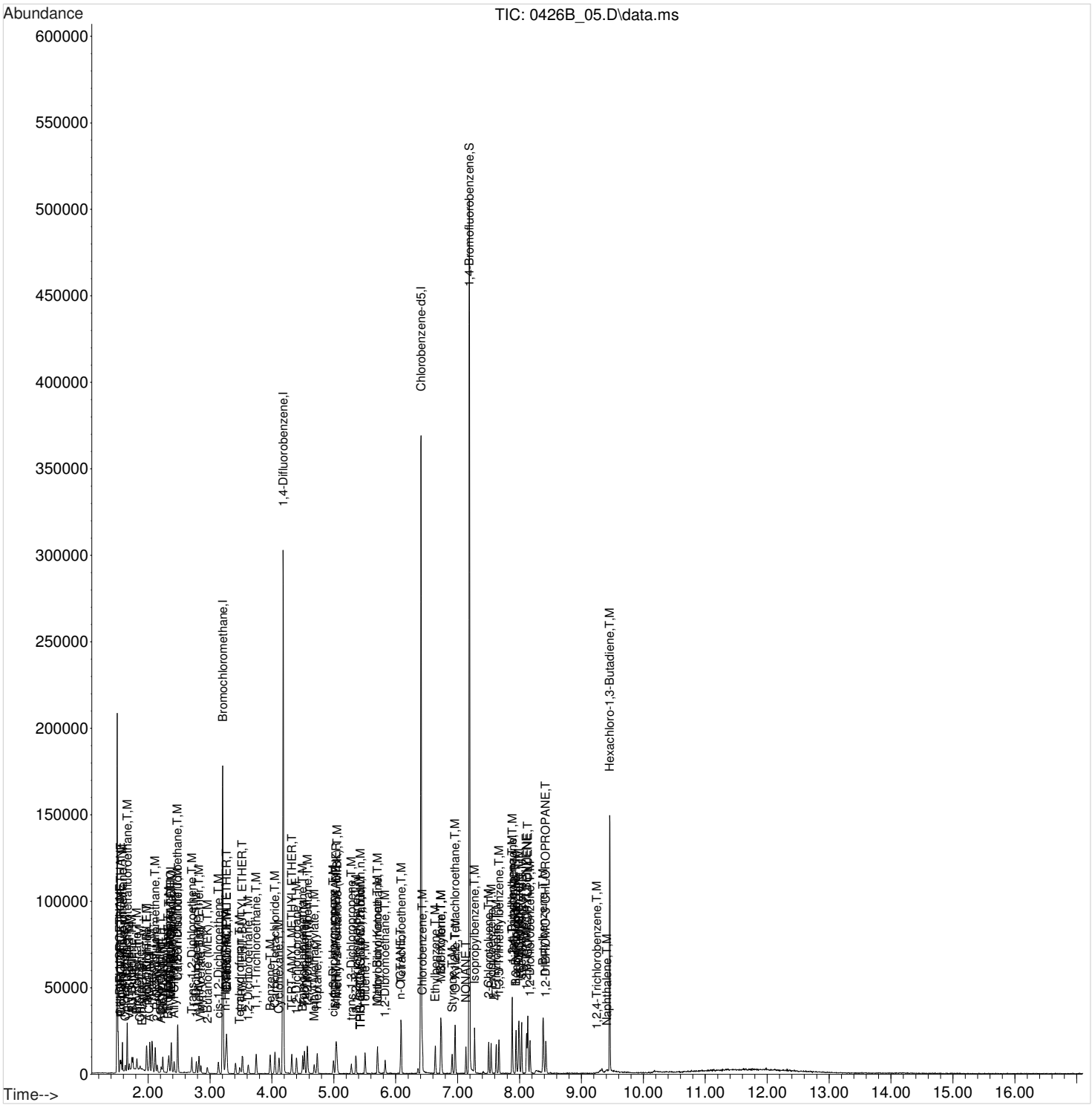
Quant Time: Apr 27 04:46:52 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:46:48 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	Benzyl Chloride	7.943	91	3212	0.5061500 ppbv	97
98)	n-Butylbenzene	8.378	91	13223	1.2171652 ppbv	100
99)	1,2-Dichlorobenzene	8.169	146	5297	0.5208614 ppbv	93
100)	1,2-DIBROMO-3-CHLOROPR...	8.422	157	3848	0.4481161 ppbv	98
101)	1,2,4-Trichlorobenzene	9.245	180	112	0.1738124 ppbv #	53
102)	Hexachloro-1,3-Butadiene	9.455	225	17224	0.5378855 ppbv	97
103)	Naphthalene	9.411	128	1540	39.1077970 ppbv #	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_05.D
Acq On : 26 Apr 2024 05:54 pm
Operator :
Sample : STD AMS 0.63 ppbv 24D26988
Misc : 24D25866
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 27 04:46:52 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:46:48 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_06.D
Acq On : 26 Apr 2024 06:22 pm
Operator :
Sample : STD AMS 1.25 ppbv 24D26988
Misc : 24D25866
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 27 04:47:19 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:47:15 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.207	130	42379	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	4.185	114	149941	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	6.407	117	119167	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	7.189	95	80147	4.2834126	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 107.09%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	5.430	TIC	2497556m	23.6804767	ppbv	
3) TPH-GRO (C5-C10)	5.430	TIC	3054544m	35.3692310	ppbv	
4) THC as Gas (C4-C12)	5.430	TIC	3816149m	52.6120616	ppbv	
5) Propene	1.568	41	2413	1.1689183	ppbv	96
6) BUTANE	1.754	43	4963	1.1327794	ppbv	98
7) 1,1-DIFLUOROETHANE	1.546	65	2321	1.1561363	ppbv	100
8) Dichlorodifluoromethane	1.587	85	10691	1.1488906	ppbv	98
9) CHLORODIFLUOROMETHANE	1.561	67	1019	1.2449856	ppbv	90
10) 1,2-Dichlorotetrafluor...	1.667	85	10077	1.1625978	ppbv	99
11) Chloromethane	1.633	50	2851	1.1355321	ppbv	97
12) Vinyl Chloride	1.701	62	3736	1.2727173	ppbv	91
13) 1,3-Butadiene	1.739	54	2741	1.2060568	ppbv	99
14) Bromomethane	1.819	94	3746	1.1991931	ppbv	93
15) Chloroethane	1.872	64	2119	1.3996776	ppbv	92
16) ISOPENTANE	2.244	41	3354	1.1266986	ppbv	93
17) Vinyl Bromide	1.986	106	3878	1.2051556	ppbv	98
18) Trichlorofluoromethane	2.118	101	11529	1.2043910	ppbv	99
19) PENTANE	2.244	43	5772	1.0524623	ppbv	97
20) Ethanol	1.914	45	444	0.5992288	ppbv #	87
21) ACROLEIN	2.020	56	1442	1.0914582	ppbv	93
22) 1,1,2-Trichlorotrifluo...	2.479	101	8177	1.1621963	ppbv	98
23) 1,1-Dichloroethene	2.338	61	6083	1.2040655	ppbv	97
24) Acetone	2.065	58	3426	0.5032889	ppbv	81
25) BROMOETHANE	2.327	108	3711	1.2365143	ppbv	90
26) 2-Propanol	2.149	45	4574	1.0883459	ppbv	95
27) Carbon Disulfide	2.479	76	9650	1.1628518	ppbv #	93
28) Allyl Chloride	2.422	41	4201	1.1676681	ppbv	96
29) METHYL ACETATE	2.376	43	6684	1.1303542	ppbv #	99
30) ACETONITRILE	1.978	41	10924	5.0914407	ppbv	91
31) Methylene Chloride	2.380	49	3830	1.1398146	ppbv #	100
32) TERT-BUTYL ALCOHOL	2.372	59	8299	1.1410218	ppbv	92
33) Methyl Tert-Butyl Ether	2.820	73	9493	1.1547604	ppbv	100
34) Trans-1,2-Dichloroethene	2.706	61	4516	1.0686936	ppbv	93
35) ACRYLONITRILE	2.221	53	2705	1.2118827	ppbv	95
36) n-Hexane	3.252	57	4182	1.1427155	ppbv	86
37) 1,1-Dichloroethane	2.778	63	6047	1.1142800	ppbv	99
38) Vinyl Acetate	2.850	43	7034	1.1356984	ppbv #	100
39) DI-ISOPROPYL ETHER	3.267	45	9530	1.1734224	ppbv	89
40) ETHYL TERT-BUTYL ETHER	3.525	59	8690	1.2405022	ppbv	99
41) ETHYL ACETATE	3.267	43	13849	1.1879966	ppbv	93

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_06.D
Acq On : 26 Apr 2024 06:22 pm
Operator :
Sample : STD AMS 1.25 ppbv 24D26988
Misc : 24D25866
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 27 04:47:19 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:47:15 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 2-Butanone (MEK)	2.960	72	1577	1.1675628 ppbv	91
43) cis-1,2-Dichloroethene	3.135	61	4051	1.1665562 ppbv	98
44) Tetrahydrofuran	3.472	42	2732	1.3184351 ppbv	98
45) Chloroform	3.271	83	8015	1.1674753 ppbv	99
46) Cyclohexane	4.113	84	3821	1.1103850 ppbv	96
47) 1,1,1-Trichloroethane	3.745	97	8852	1.2505632 ppbv	95
48) Carbon Tetrachloride	4.049	117	9093	1.1712333 ppbv	98
49) 2,2,4-Trimethylpentane	4.576	57	14648	1.2028139 ppbv	97
51) Benzene	3.973	78	10501	1.1076068 ppbv	98
52) TERT-AMYL METHYL ETHER	4.318	73	8885	1.0862322 ppbv	99
53) 1,2-Dichloroethane	3.620	62	4962	1.0835155 ppbv	94
54) Heptane	4.731	43	4561	1.1434223 ppbv	99
55) Trichloroethene	4.527	95	5012	1.1675699 ppbv	98
56) TERT-AMYL ETHYL ETHER	5.042	73	2499	1.2925573 ppbv	93
57) METHYL CYCLOHEXANE	5.036	83	4874	1.2069986 ppbv	99
58) 1,2-Dichloropropane	4.398	63	3526	1.0462732 ppbv	92
59) Methyl Methacrylate	4.682	69	2819	1.1471942 ppbv	97
60) 1,4-Dioxane	4.561	88	1817	1.0725875 ppbv #	21
61) Bromodichloromethane	4.500	83	7926	1.1096261 ppbv	92
62) cis-1,3-Dichloropropene	4.993	75	4640	1.1113937 ppbv	99
63) 4-Methyl-2-Pentanone (...	5.048	43	7572	1.1357752 ppbv	98
64) n-OCTANE	6.081	43	4748	1.2130305 ppbv	94
65) Toluene	5.508	91	10719	1.1466863 ppbv	99
66) trans-1,3-Dichloropropene	5.283	75	3882	1.2567055 ppbv #	91
67) 1,1,2-Trichloroethane	5.355	97	4304	1.2375517 ppbv	97
68) Tetrachloroethene	6.087	166	7805	1.1312924 ppbv	99
69) Methyl Butyl Ketone	5.702	43	3306	1.3700450 ppbv #	90
70) Chlorodibromomethane	5.705	129	7848	1.1710233 ppbv	96
71) 1,2-Dibromoethane	5.831	107	5897	1.1832466 ppbv	98
72) Chlorobenzene	6.428	112	10535	1.1784525 ppbv	89
73) NONANE	7.133	43	5021	1.3839939 ppbv	97
75) Ethylbenzene	6.638	91	13040	1.2550093 ppbv	97
76) M&P-Xylene	6.732	91	22208	2.7278592 ppbv	100
77) O-Xylene	6.961	91	10934	1.3598351 ppbv	97
80) Styrene	6.910	104	6781	1.3320302 ppbv	95
81) Bromoform	6.726	173	8761	1.2901022 ppbv	98
82) Isopropylbenzene	7.274	105	17847	1.1894614 ppbv	97
83) n-DECANE	7.990	43	6786	1.0390264 ppbv	98
84) 1,1,2,2-Tetrachloroethane	6.954	83	8212	1.1639225 ppbv	98
85) n-Propylbenzene	7.540	91	16949	1.3156170 ppbv	98
86) 4-Ethyltoluene	7.621	105	13408	1.3108706 ppbv	99
87) 2-Chlorotoluene	7.499	91	11168	1.2622118 ppbv	99
89) 1,3,5-Trimethylbenzene	7.668	105	13073	1.1862446 ppbv	94
90) tert-Butylbenzene	7.881	119	14577	1.1874168 ppbv	95
91) 1,2,4-Trimethylbenzene	7.884	105	13120	1.1856106 ppbv	100
92) sec-Butylbenzene	8.031	105	23036	1.2784214 ppbv	96
93) 1,3-Dichlorobenzene	7.940	146	11209	1.5213031 ppbv	98
94) P-ISOPROPYLTOLUENE	8.131	119	23168	1.0111712 ppbv	96
95) 1,4-Dichlorobenzene	7.981	146	11208	1.5359946 ppbv	98
96) 1,2,3-TRIMETHYLBENZENE	8.112	105	15130	0.9204644 ppbv #	77

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_06.D
Acq On : 26 Apr 2024 06:22 pm
Operator :
Sample : STD AMS 1.25 ppbv 24D26988
Misc : 24D25866
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 27 04:47:19 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:47:15 2024
Response via : Initial Calibration

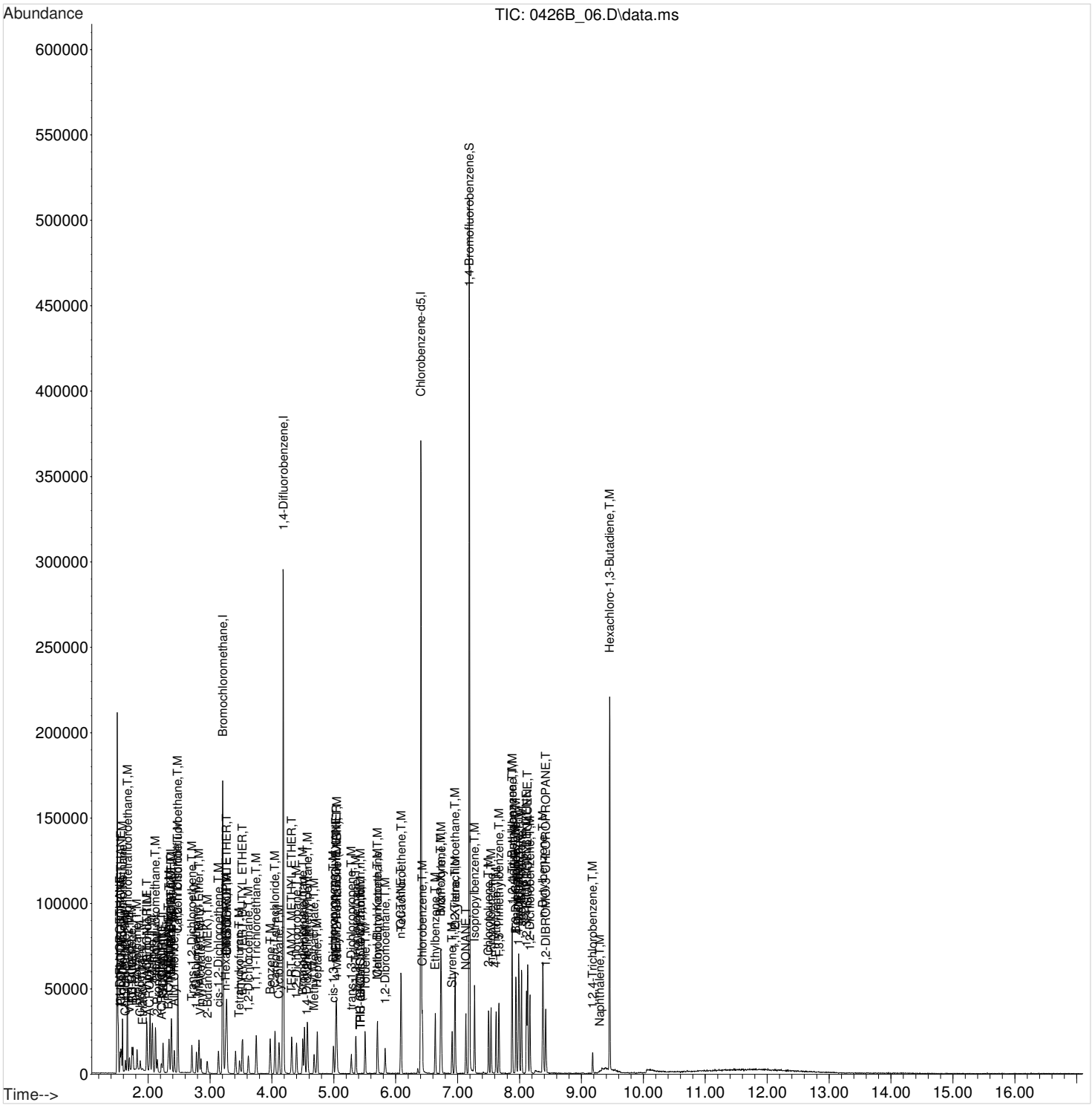
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97) Benzyl Chloride	7.940	91	6868	1.1948669	ppbv		96
98) n-Butylbenzene	8.375	91	26335	1.9081435	ppbv		98
99) 1,2-Dichlorobenzene	8.169	146	11706	1.2603285	ppbv		99
100) 1,2-DIBROMO-3-CHLOROPR...	8.425	157	7245	0.9631404	ppbv		95
101) 1,2,4-Trichlorobenzene	9.183	180	2937	7.3711274	ppbv		98
102) Hexachloro-1,3-Butadiene	9.455	225	25829	0.8748116	ppbv		96
103) Naphthalene	9.296	128	1205	1.0010316	ppbv	#	82

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_06.D
Acq On : 26 Apr 2024 06:22 pm
Operator :
Sample : STD AMS 1.25 ppbv 24D26988
Misc : 24D25866
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 27 04:47:19 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:47:15 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_07.D
Acq On : 26 Apr 2024 06:51 pm
Operator :
Sample : STD AMS 2.5 ppbv 24D26988
Misc : 24D25866
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 27 04:47:44 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:47:40 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.207	130	43053	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	4.185	114	153755	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	6.407	117	122482	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	7.189	95	84581	4.3214924	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 108.04%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	5.430	TIC	4277881m	46.9288651	ppbv	
3) TPH-GRO (C5-C10)	5.430	TIC	5002276m	66.8790108	ppbv	
4) THC as Gas (C4-C12)	5.430	TIC	6469072m	101.9919893	ppbv	
5) Propene	1.569	41	4859	2.3551654	ppbv	99
6) BUTANE	1.754	43	10147	2.3344734	ppbv	98
7) 1,1-DIFLUOROETHANE	1.546	65	4395	2.1961928	ppbv	91
8) Dichlorodifluoromethane	1.587	85	21291	2.2986664	ppbv	100
9) CHLORODIFLUOROMETHANE	1.557	67	1994	2.4004814	ppbv	86
10) 1,2-Dichlorotetrafluor...	1.663	85	20902	2.4159734	ppbv	96
11) Chloromethane	1.633	50	5787	2.3219941	ppbv	93
12) Vinyl Chloride	1.697	62	7010	2.3400312	ppbv	98
13) 1,3-Butadiene	1.739	54	5248	2.2931558	ppbv	99
14) Bromomethane	1.819	94	6792	2.1622301	ppbv	97
15) Chloroethane	1.872	64	3839	2.4235524	ppbv	97
16) ISOPENTANE	2.244	41	6480	2.1969039	ppbv	96
17) Vinyl Bromide	1.982	106	7327	2.2616297	ppbv	100
18) Trichlorofluoromethane	2.118	101	22431	2.3278313	ppbv	99
19) PENTANE	2.244	43	12196	2.2790349	ppbv	99
20) Ethanol	1.910	45	679	1.0370138	ppbv	99
21) ACROLEIN	2.016	56	2896	2.2283402	ppbv	97
22) 1,1,2-Trichlorotrifluo...	2.479	101	15884	2.2619706	ppbv	99
23) 1,1-Dichloroethene	2.338	61	11643	2.2895637	ppbv	95
24) Acetone	2.062	58	5238	0.8904056	ppbv	97
25) BROMOETHANE	2.327	108	6867	2.2583718	ppbv	97
26) 2-Propanol	2.145	45	9522	2.3047263	ppbv	98
27) Carbon Disulfide	2.482	76	19268	2.3260408	ppbv	98
28) Allyl Chloride	2.422	41	8601	2.3926202	ppbv	96
29) METHYL ACETATE	2.376	43	14082	2.4016427	ppbv #	97
30) ACETONITRILE	1.978	41	21833	10.5033349	ppbv	88
31) Methylene Chloride	2.380	49	8057	2.4134244	ppbv #	100
32) TERT-BUTYL ALCOHOL	2.369	59	16624	2.2999660	ppbv	96
33) Methyl Tert-Butyl Ether	2.820	73	19094	2.3306916	ppbv	100
34) Trans-1,2-Dichloroethene	2.710	61	9604	2.3213435	ppbv	96
35) ACRYLONITRILE	2.217	53	5407	2.4028159	ppbv	97
36) n-Hexane	3.252	57	8821	2.4245953	ppbv	92
37) 1,1-Dichloroethane	2.782	63	11999	2.2371657	ppbv	97
38) Vinyl Acetate	2.854	43	14389	2.3403558	ppbv #	100
39) DI-ISOPROPYL ETHER	3.264	45	20592	2.5346045	ppbv	98
40) ETHYL TERT-BUTYL ETHER	3.525	59	18551	2.6116690	ppbv	99
41) ETHYL ACETATE	3.268	43	27900	2.3854344	ppbv	98

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_07.D
Acq On : 26 Apr 2024 06:51 pm
Operator :
Sample : STD AMS 2.5 ppbv 24D26988
Misc : 24D25866
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 27 04:47:44 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:47:40 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone (MEK)	2.953	72	3084	2.2852320	ppbv	91
43) cis-1,2-Dichloroethene	3.135	61	8359	2.4096503	ppbv	97
44) Tetrahydrofuran	3.472	42	5645	2.6453637	ppbv	99
45) Chloroform	3.275	83	16041	2.3385719	ppbv	99
46) Cyclohexane	4.117	84	8312	2.4459563	ppbv	97
47) 1,1,1-Trichloroethane	3.745	97	16173	2.2488122	ppbv	96
48) Carbon Tetrachloride	4.053	117	18424	2.3733592	ppbv	96
49) 2,2,4-Trimethylpentane	4.576	57	31330	2.5564999	ppbv	99
51) Benzene	3.973	78	21755	2.3033124	ppbv	99
52) TERT-AMYL METHYL ETHER	4.318	73	17967	2.2145977	ppbv	98
53) 1,2-Dichloroethane	3.620	62	10269	2.2620624	ppbv	95
54) Heptane	4.731	43	10190	2.5454772	ppbv	96
55) Trichloroethene	4.527	95	10206	2.3574257	ppbv	97
56) TERT-AMYL ETHYL ETHER	5.039	73	5235	2.6182466	ppbv	98
57) METHYL CYCLOHEXANE	5.036	83	11121	2.7089903	ppbv	98
58) 1,2-Dichloropropane	4.398	63	7324	2.2093696	ppbv	97
59) Methyl Methacrylate	4.678	69	6068	2.4586758	ppbv	100
60) 1,4-Dioxane	4.557	88	3468	2.0698455	ppbv #	96
61) Bromodichloromethane	4.496	83	16451	2.3108577	ppbv	97
62) cis-1,3-Dichloropropene	4.993	75	9929	2.3853704	ppbv	98
63) 4-Methyl-2-Pentanone (...	5.045	43	16099	2.4099518	ppbv	96
64) n-OCTANE	6.081	43	10802	2.7113115	ppbv	98
65) Toluene	5.505	91	22328	2.3784775	ppbv	99
66) trans-1,3-Dichloropropene	5.283	75	8299	2.6164526	ppbv	97
67) 1,1,2-Trichloroethane	5.355	97	8350	2.3472066	ppbv	98
68) Tetrachloroethene	6.087	166	16411	2.3760925	ppbv	98
69) Methyl Butyl Ketone	5.699	43	6768	2.6710358	ppbv	95
70) Chlorodibromomethane	5.706	129	15912	2.3525402	ppbv	100
71) 1,2-Dibromoethane	5.828	107	12545	2.4879586	ppbv	97
72) Chlorobenzene	6.429	112	21526	2.3822727	ppbv	96
73) NONANE	7.133	43	12814	3.3545517	ppbv	95
75) Ethylbenzene	6.638	91	28605	2.6758401	ppbv	99
76) M&P-Xylene	6.732	91	48598	5.6784511	ppbv	96
77) O-Xylene	6.961	91	24838	2.9408350	ppbv	98
80) Styrene	6.911	104	16357	3.0756752	ppbv	96
81) Bromoform	6.729	173	18615	2.6457443	ppbv	99
82) Isopropylbenzene	7.274	105	37568	2.4659108	ppbv	98
83) n-DECANE	7.990	43	15482	2.4079435	ppbv	97
84) 1,1,2,2-Tetrachloroethane	6.954	83	18310	2.5691467	ppbv	98
85) n-Propylbenzene	7.540	91	41439	3.0889868	ppbv	100
86) 4-Ethyltoluene	7.621	105	33992	3.1944864	ppbv	99
87) 2-Chlorotoluene	7.499	91	23592	2.5878907	ppbv	99
89) 1,3,5-Trimethylbenzene	7.665	105	29811	2.6658310	ppbv	99
90) tert-Butylbenzene	7.881	119	33584	2.6953887	ppbv	99
91) 1,2,4-Trimethylbenzene	7.881	105	29677	2.6432674	ppbv	99
92) sec-Butylbenzene	8.031	105	48124	2.5837516	ppbv	98
93) 1,3-Dichlorobenzene	7.943	146	25046	3.1370613	ppbv	98
94) P-ISOPROPYLTOLUENE	8.131	119	47369	2.1123715	ppbv #	92
95) 1,4-Dichlorobenzene	7.981	146	25464	3.2115540	ppbv	98
96) 1,2,3-TRIMETHYLBENZENE	8.112	105	33300	2.1101142	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_07.D
Acq On : 26 Apr 2024 06:51 pm
Operator :
Sample : STD AMS 2.5 ppbv 24D26988
Misc : 24D25866
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 27 04:47:44 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:47:40 2024
Response via : Initial Calibration

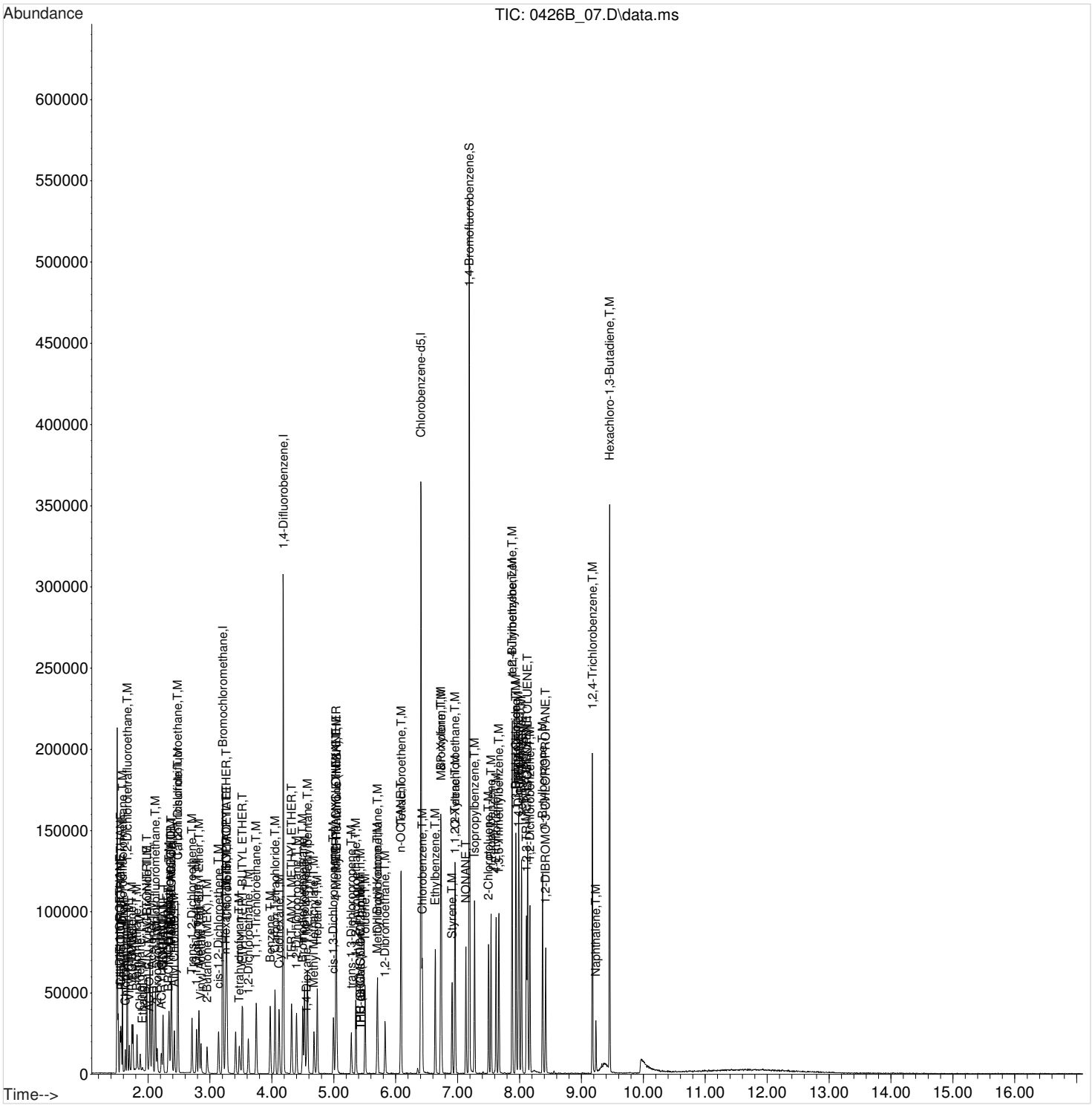
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	7.940	91	18891	3.2332801	ppbv	100
98) n-Butylbenzene	8.372	91	36361	2.2651309	ppbv	98
99) 1,2-Dichlorobenzene	8.169	146	25492	2.6648127	ppbv	97
100) 1,2-DIBROMO-3-CHLOROPR...	8.422	157	12992	1.7826685	ppbv	98
101) 1,2,4-Trichlorobenzene	9.177	180	37458	34.7474392	ppbv	99
102) Hexachloro-1,3-Butadiene	9.455	225	41057	1.4626953	ppbv	97
103) Naphthalene	9.233	128	13874	12.0110615	ppbv	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_07.D
Acq On : 26 Apr 2024 06:51 pm
Operator :
Sample : STD AMS 2.5 ppbv 24D26988
Misc : 24D25866
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 27 04:47:44 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:47:40 2024
Response via : Initial Calibration



Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_08.D
Acq On : 26 Apr 2024 07:23 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 24D26988
Misc : 24D25866
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 27 04:48:18 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:48:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.210	130	43478	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	4.185	114	159392	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	6.406	117	125759	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	7.189	95	86459	4.2342718	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 105.86%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	5.430	TIC	6090119m	75.1879215	ppbv	
3) TPH-GRO (C5-C10)	5.430	TIC	7095235m	107.0423112	ppbv	
4) THC as Gas (C4-C12)	5.430	TIC	9409364m	165.8209480	ppbv	
5) Propene	1.568	41	7521	3.6521232	ppbv	100
6) BUTANE	1.754	43	15245	3.5196701	ppbv	100
7) 1,1-DIFLUOROETHANE	1.546	65	7111	3.6063001	ppbv	100
8) Dichlorodifluoromethane	1.587	85	32476	3.5288100	ppbv	100
9) CHLORODIFLUOROMETHANE	1.561	67	3265	3.9233920	ppbv	100
10) 1,2-Dichlorotetrafluor...	1.663	85	31665	3.6487734	ppbv	100
11) Chloromethane	1.633	50	8767	3.5336335	ppbv	100
12) Vinyl Chloride	1.697	62	10958	3.6691253	ppbv	100
13) 1,3-Butadiene	1.739	54	8290	3.6473275	ppbv	100
14) Bromomethane	1.819	94	10706	3.4686632	ppbv	100
15) Chloroethane	1.872	64	5998	3.7725833	ppbv	100
16) ISOPENTANE	2.243	41	9909	3.4092603	ppbv	100
17) Vinyl Bromide	1.982	106	11224	3.4973463	ppbv	100
18) Trichlorofluoromethane	2.122	101	34797	3.6257835	ppbv	100
19) PENTANE	2.243	43	18048	3.3997132	ppbv	100
20) Ethanol	1.910	45	996	1.7059503	ppbv	100
21) ACROLEIN	2.016	56	4377	3.4090695	ppbv	100
22) 1,1,2-Trichlorotrifluo...	2.482	101	25117	3.6105922	ppbv	100
23) 1,1-Dichloroethene	2.342	61	18655	3.6947962	ppbv	100
24) Acetone	2.065	58	7298	1.4100225	ppbv	100
25) BROMOETHANE	2.327	108	10895	3.6179846	ppbv	100
26) 2-Propanol	2.149	45	13781	3.3553963	ppbv	100
27) Carbon Disulfide	2.482	76	29047	3.5212936	ppbv	100
28) Allyl Chloride	2.425	41	12434	3.4547483	ppbv	100
29) METHYL ACETATE	2.376	43	21216	3.6113720	ppbv #	100
30) ACETONITRILE	1.978	41	33948	16.7056185	ppbv	100
31) Methylene Chloride	2.380	49	11590	3.4617528	ppbv #	100
32) TERT-BUTYL ALCOHOL	2.369	59	25659	3.5724451	ppbv	100
33) Methyl Tert-Butyl Ether	2.820	73	30011	3.6772640	ppbv	100
34) Trans-1,2-Dichloroethene	2.710	61	14414	3.4999158	ppbv	100
35) ACRYLONITRILE	2.217	53	8113	3.5980664	ppbv	100
36) n-Hexane	3.256	57	14445	3.9554928	ppbv	100
37) 1,1-Dichloroethane	2.782	63	19019	3.5867724	ppbv	100
38) Vinyl Acetate	2.854	43	22658	3.6964858	ppbv #	100
39) DI-ISOPROPYL ETHER	3.264	45	33051	4.0172561	ppbv	100
40) ETHYL TERT-BUTYL ETHER	3.521	59	29442	4.0680794	ppbv	100
41) ETHYL ACETATE	3.267	43	43875	3.7489793	ppbv	100

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_08.D
Acq On : 26 Apr 2024 07:23 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 24D26988
Misc : 24D25866
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 27 04:48:18 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:48:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Butanone (MEK)	2.953	72	5059	3.7769490	ppbv		100
43) cis-1,2-Dichloroethene	3.138	61	12871	3.7008060	ppbv		100
44) Tetrahydrofuran	3.468	42	9224	4.2311000	ppbv		100
45) Chloroform	3.275	83	25624	3.7475306	ppbv		100
46) Cyclohexane	4.117	84	13295	3.8908734	ppbv		100
47) 1,1,1-Trichloroethane	3.749	97	25458	3.5771470	ppbv		100
48) Carbon Tetrachloride	4.049	117	27946	3.6012682	ppbv		100
49) 2,2,4-Trimethylpentane	4.576	57	49593	3.9891561	ppbv		100
51) Benzene	3.973	78	33416	3.4673597	ppbv		100
52) TERT-AMYL METHYL ETHER	4.318	73	28711	3.4935033	ppbv		100
53) 1,2-Dichloroethane	3.620	62	16704	3.6183129	ppbv		100
54) Heptane	4.731	43	16389	3.9348941	ppbv		100
55) Trichloroethene	4.530	95	15868	3.5764270	ppbv		100
56) TERT-AMYL ETHYL ETHER	5.039	73	8373	4.0017383	ppbv		100
57) METHYL CYCLOHEXANE	5.035	83	17651	4.0793843	ppbv		100
58) 1,2-Dichloropropane	4.397	63	11855	3.5318406	ppbv		100
59) Methyl Methacrylate	4.682	69	9955	3.9038922	ppbv		100
60) 1,4-Dioxane	4.553	88	5243	3.1261494	ppbv	#	100
61) Bromodichloromethane	4.496	83	25611	3.5236427	ppbv		100
62) cis-1,3-Dichloropropene	4.993	75	15632	3.6561887	ppbv		100
63) 4-Methyl-2-Pentanone (...	5.042	43	25843	3.7588503	ppbv		100
64) n-OCTANE	6.081	43	17520	4.1714949	ppbv		100
65) Toluene	5.505	91	35993	3.7348467	ppbv		100
66) trans-1,3-Dichloropropene	5.283	75	13909	4.1910080	ppbv		100
67) 1,1,2-Trichloroethane	5.355	97	12982	3.5637766	ppbv		100
68) Tetrachloroethene	6.087	166	25281	3.5662496	ppbv		100
69) Methyl Butyl Ketone	5.696	43	10527	3.9535260	ppbv		100
70) Chlorodibromomethane	5.705	129	24813	3.5810306	ppbv		100
71) 1,2-Dibromoethane	5.827	107	19535	3.7408232	ppbv		100
72) Chlorobenzene	6.428	112	34170	3.6825232	ppbv		100
73) NONANE	7.133	43	20463	4.8368487	ppbv		100
75) Ethylbenzene	6.638	91	45775	4.1125672	ppbv		100
76) M&P-Xylene	6.735	91	82728	9.1657583	ppbv		100
77) O-Xylene	6.960	91	39728	4.4251872	ppbv		100
80) Styrene	6.910	104	26412	4.6239932	ppbv		100
81) Bromoform	6.729	173	28900	3.9544080	ppbv		100
82) Isopropylbenzene	7.273	105	62564	4.0105412	ppbv		100
83) n-DECANE	7.990	43	25329	3.8652775	ppbv		100
84) 1,1,2,2-Tetrachloroethane	6.954	83	28547	3.8797027	ppbv		100
85) n-Propylbenzene	7.539	91	68406	4.7428366	ppbv		100
86) 4-Ethyltoluene	7.621	105	57197	4.9596187	ppbv		100
87) 2-Chlorotoluene	7.499	91	38780	4.1141414	ppbv		100
89) 1,3,5-Trimethylbenzene	7.665	105	50530	4.3432505	ppbv		100
90) tert-Butylbenzene	7.878	119	55441	4.2669469	ppbv		100
91) 1,2,4-Trimethylbenzene	7.881	105	50163	4.3021791	ppbv		100
92) sec-Butylbenzene	8.031	105	79790	4.1444850	ppbv		100
93) 1,3-Dichlorobenzene	7.940	146	40771	4.7323948	ppbv		100
94) P-ISOPROPYLTOLUENE	8.131	119	76159	3.4135899	ppbv		100
95) 1,4-Dichlorobenzene	7.981	146	40605	4.7190808	ppbv		100
96) 1,2,3-TRIMETHYLBENZENE	8.109	105	53369	3.3997405	ppbv		100

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_08.D
Acq On : 26 Apr 2024 07:23 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 24D26988
Misc : 24D25866
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 27 04:48:18 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:48:14 2024
Response via : Initial Calibration

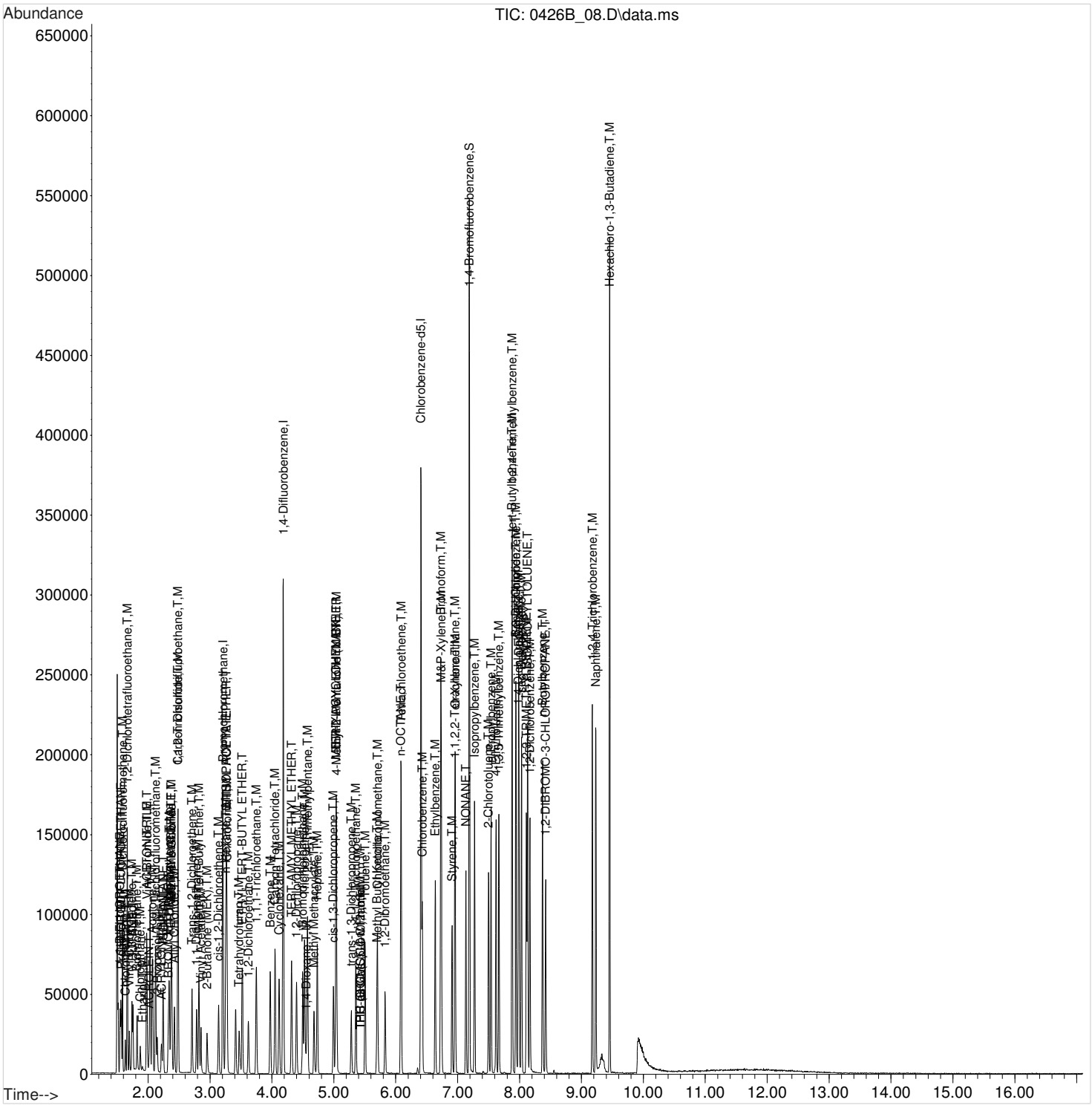
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	Benzyl Chloride	7.940	91	34957	5.5042511	ppbv	100
98)	n-Butylbenzene	8.372	91	57705	3.5681405	ppbv	100
99)	1,2-Dichlorobenzene	8.169	146	40106	4.0301069	ppbv	100
100)	1,2-DIBROMO-3-CHLOROPR...	8.422	157	21588	3.0605997	ppbv	100
101)	1,2,4-Trichlorobenzene	9.176	180	45032	9.6301324	ppbv	100
102)	Hexachloro-1,3-Butadiene	9.455	225	60340	2.2831183	ppbv	100
103)	Naphthalene	9.233	128	99251	42.8910707	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_08.D
Acq On : 26 Apr 2024 07:23 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 24D26988
Misc : 24D25866
ALS Vial : 8 Sample Multiplier: 1

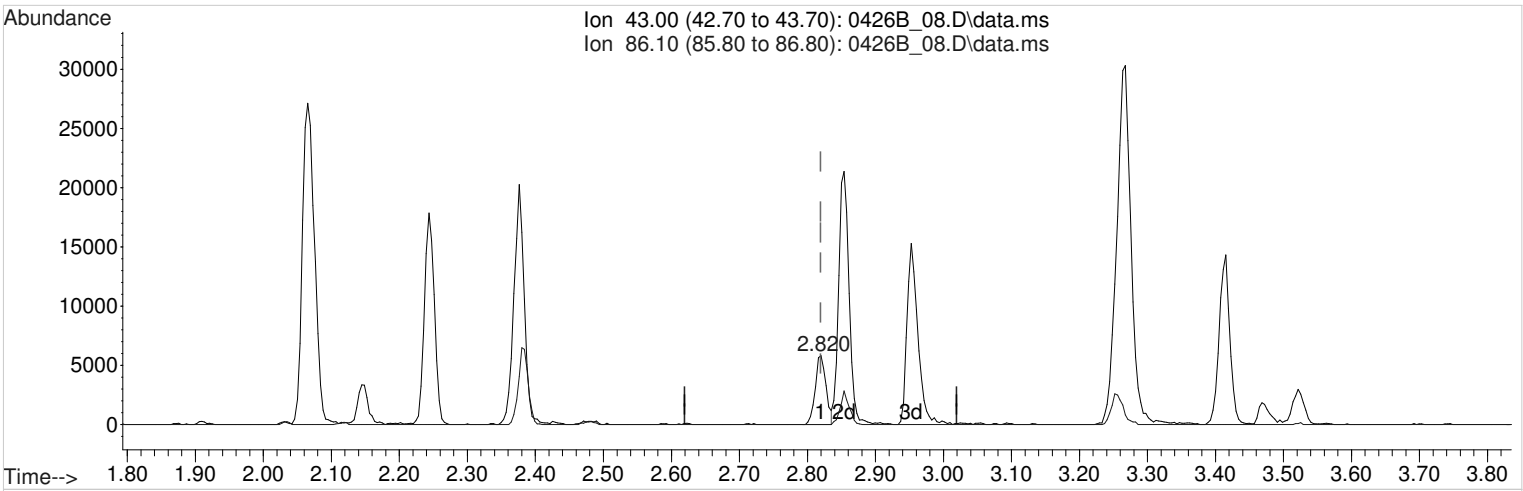
Quant Time: Apr 27 04:48:18 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:48:14 2024
Response via : Initial Calibration

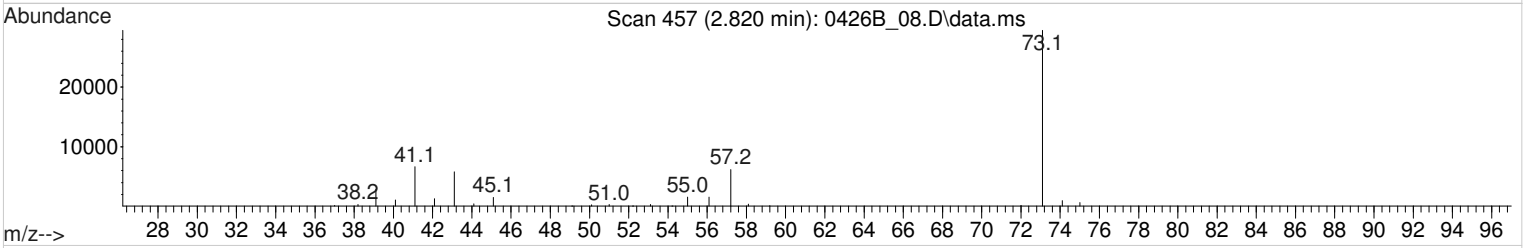


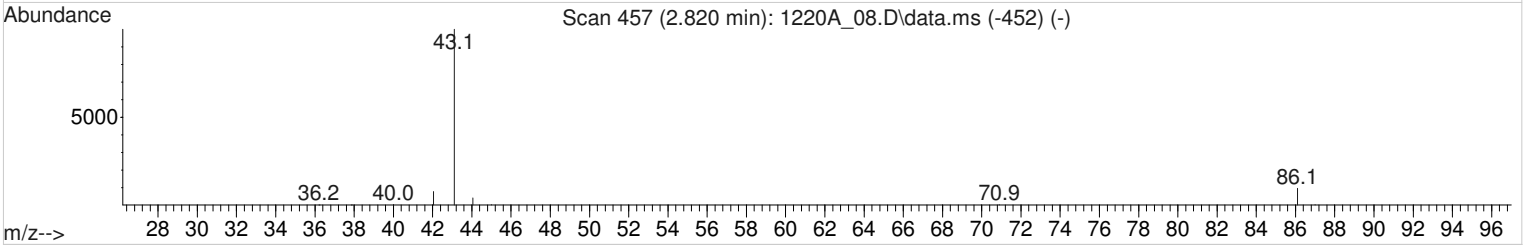
Quantitation Report (Qedit)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_08.D
Acq On : 26 Apr 2024 07:23 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 24D26988
Misc : 24D25866
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 27 04:33:05 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:33:01 2024
Response via : Initial Calibration







TIC: 0426B_08.D\data.ms

(38) Vinyl Acetate (T,M)

2.820min (0.000) 3.3550765 ppbv

Qvalue = 100

response 6332

Ion	Exp%	Act%
43.00	100.00	100.00
86.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_09.D
Acq On : 26 Apr 2024 07:52 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 27 04:48:49 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:48:44 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.210	130	42185	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	4.185	114	160413	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	6.410	117	125423	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	7.189	95	88016	4.2802911	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 107.01%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	5.430	TIC	14518359m	204.2560482	ppbv	
3) TPH-GRO (C5-C10)	5.430	TIC	16782780m	289.2157629	ppbv	
4) THC as Gas (C4-C12)	5.430	TIC	22585423m	450.3427801	ppbv	
5) Propene	1.568	41	19589	9.8466145	ppbv	95
6) BUTANE	1.758	43	40417	9.7167010	ppbv	99
7) 1,1-DIFLUOROETHANE	1.546	65	17989	9.4630753	ppbv	93
8) Dichlorodifluoromethane	1.587	85	86977	9.8372159	ppbv	98
9) CHLORODIFLUOROMETHANE	1.561	67	8380	10.2991186	ppbv	95
10) 1,2-Dichlorotetrafluor...	1.663	85	81248	9.6928138	ppbv	99
11) Chloromethane	1.633	50	22564	9.4644331	ppbv	96
12) Vinyl Chloride	1.697	62	28433	9.8475749	ppbv	96
13) 1,3-Butadiene	1.739	54	21188	9.6517934	ppbv	98
14) Bromomethane	1.822	94	28568	9.6603047	ppbv	97
15) Chloroethane	1.872	64	15310	9.9147870	ppbv	98
16) ISOPENTANE	2.247	41	25468	9.1698860	ppbv	100
17) Vinyl Bromide	1.982	106	29817	9.6843558	ppbv	98
18) Trichlorofluoromethane	2.122	101	90164	9.7366376	ppbv	99
19) PENTANE	2.243	43	46448	9.1602249	ppbv	99
20) Ethanol	1.910	45	10080	19.5723031	ppbv	91
21) ACROLEIN	2.016	56	13209	10.7664307	ppbv	97
22) 1,1,2-Trichlorotrifluo...	2.482	101	64928	9.6795112	ppbv	99
23) 1,1-Dichloroethene	2.342	61	47776	9.7764995	ppbv	97
24) Acetone	2.061	58	17285	3.8414447	ppbv	95
25) BROMOETHANE	2.327	108	28010	9.6431685	ppbv	96
26) 2-Propanol	2.141	45	54458	13.9097876	ppbv	93
27) Carbon Disulfide	2.482	76	77463	9.7778608	ppbv	99
28) Allyl Chloride	2.425	41	33516	9.7253648	ppbv	100
29) METHYL ACETATE	2.376	43	60968	10.7623284	ppbv #	96
30) ACETONITRILE	1.974	41	122323	63.1877228	ppbv	99
31) Methylene Chloride	2.384	49	30664	9.5620852	ppbv #	100
32) TERT-BUTYL ALCOHOL	2.361	59	77085	11.1493096	ppbv	99
33) Methyl Tert-Butyl Ether	2.820	73	80671	10.2206733	ppbv	99
34) Trans-1,2-Dichloroethene	2.710	61	38550	9.7558049	ppbv	96
35) ACRYLONITRILE	2.217	53	24955	11.4841628	ppbv	98
36) n-Hexane	3.256	57	40082	11.2097397	ppbv	97
37) 1,1-Dichloroethane	2.786	63	49589	9.7090132	ppbv	99
38) Vinyl Acetate	2.854	43	66318	11.1774969	ppbv #	100
39) DI-ISOPROPYL ETHER	3.264	45	90388	11.1902302	ppbv	95
40) ETHYL TERT-BUTYL ETHER	3.521	59	83635	11.7442452	ppbv	98
41) ETHYL ACETATE	3.264	43	125131	11.0202648	ppbv	97

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_09.D
Acq On : 26 Apr 2024 07:52 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 27 04:48:49 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:48:44 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 2-Butanone (MEK)	2.953	72	14449	11.1046757 ppbv	99
43) cis-1,2-Dichloroethene	3.138	61	35119	10.4300948 ppbv	98
44) Tetrahydrofuran	3.465	42	26196	12.1252915 ppbv	95
45) Chloroform	3.275	83	66109	9.9659344 ppbv	97
46) Cyclohexane	4.117	84	37196	11.1495117 ppbv	97
47) 1,1,1-Trichloroethane	3.749	97	66091	9.6452973 ppbv	99
48) Carbon Tetrachloride	4.052	117	73191	9.7855523 ppbv	98
49) 2,2,4-Trimethylpentane	4.576	57	137021	11.2400299 ppbv	98
51) Benzene	3.973	78	90616	9.4616387 ppbv	99
52) TERT-AMYL METHYL ETHER	4.318	73	78042	9.5443756 ppbv	98
53) 1,2-Dichloroethane	3.620	62	42337	9.1660446 ppbv	97
54) Heptane	4.731	43	45505	10.7674392 ppbv	99
55) Trichloroethene	4.530	95	41710	9.4136407 ppbv	99
56) TERT-AMYL ETHYL ETHER	5.039	73	23316	10.9500608 ppbv	90
57) METHYL CYCLOHEXANE	5.032	83	49999	11.3162336 ppbv	96
58) 1,2-Dichloropropane	4.397	63	30638	9.1583737 ppbv	98
59) Methyl Methacrylate	4.678	69	29875	11.5619507 ppbv	100
60) 1,4-Dioxane	4.538	88	21386	13.0316087 ppbv #	82
61) Bromodichloromethane	4.500	83	66595	9.1965552 ppbv	97
62) cis-1,3-Dichloropropene	4.993	75	39272	9.1651287 ppbv	96
63) 4-Methyl-2-Pentanone (...	5.039	43	79769	11.5239778 ppbv	98
64) n-OCTANE	6.081	43	53946	12.5280479 ppbv	97
65) Toluene	5.505	91	102478	10.5731629 ppbv	99
66) trans-1,3-Dichloropropene	5.283	75	37738	11.0814972 ppbv	98
67) 1,1,2-Trichloroethane	5.358	97	33975	9.3446863 ppbv	99
68) Tetrachloroethene	6.087	166	65707	9.2857587 ppbv	99
69) Methyl Butyl Ketone	5.687	43	53694	19.8573780 ppbv	98
70) Chlorodibromomethane	5.705	129	66346	9.5861498 ppbv	100
71) 1,2-Dibromoethane	5.827	107	53593	10.2015453 ppbv	98
72) Chlorobenzene	6.428	112	87819	9.4323596 ppbv	100
73) NONANE	7.133	43	60576	13.5716718 ppbv	98
75) Ethylbenzene	6.638	91	131751	11.6804075 ppbv	100
76) M&P-Xylene	6.732	91	231129	24.7597578 ppbv	99
77) O-Xylene	6.960	91	113392	12.2952828 ppbv	100
80) Styrene	6.910	104	79317	13.4027425 ppbv	100
81) Bromoform	6.729	173	77717	10.5665665 ppbv	99
82) Isopropylbenzene	7.273	105	167579	10.6478002 ppbv	99
83) n-DECANE	7.990	43	69268	10.5447860 ppbv	96
84) 1,1,2,2-Tetrachloroethane	6.954	83	76552	10.3719418 ppbv	100
85) n-Propylbenzene	7.540	91	196592	13.0893704 ppbv	99
86) 4-Ethyltoluene	7.621	105	166328	13.7233533 ppbv	100
87) 2-Chlorotoluene	7.499	91	109451	11.4572571 ppbv	99
89) 1,3,5-Trimethylbenzene	7.665	105	138177	11.6027433 ppbv	98
90) tert-Butylbenzene	7.878	119	154867	11.6826606 ppbv	97
91) 1,2,4-Trimethylbenzene	7.881	105	143326	12.0299103 ppbv	100
92) sec-Butylbenzene	8.031	105	212350	10.8689578 ppbv	99
93) 1,3-Dichlorobenzene	7.943	146	105657	11.7822954 ppbv	97
94) P-ISOPROPYLTOLUENE	8.131	119	199613	9.1071657 ppbv	98
95) 1,4-Dichlorobenzene	7.981	146	108616	12.1344483 ppbv	99
96) 1,2,3-TRIMETHYLBENZENE	8.109	105	148732	9.6502127 ppbv #	85

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_09.D
Acq On : 26 Apr 2024 07:52 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 27 04:48:49 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:48:44 2024
Response via : Initial Calibration

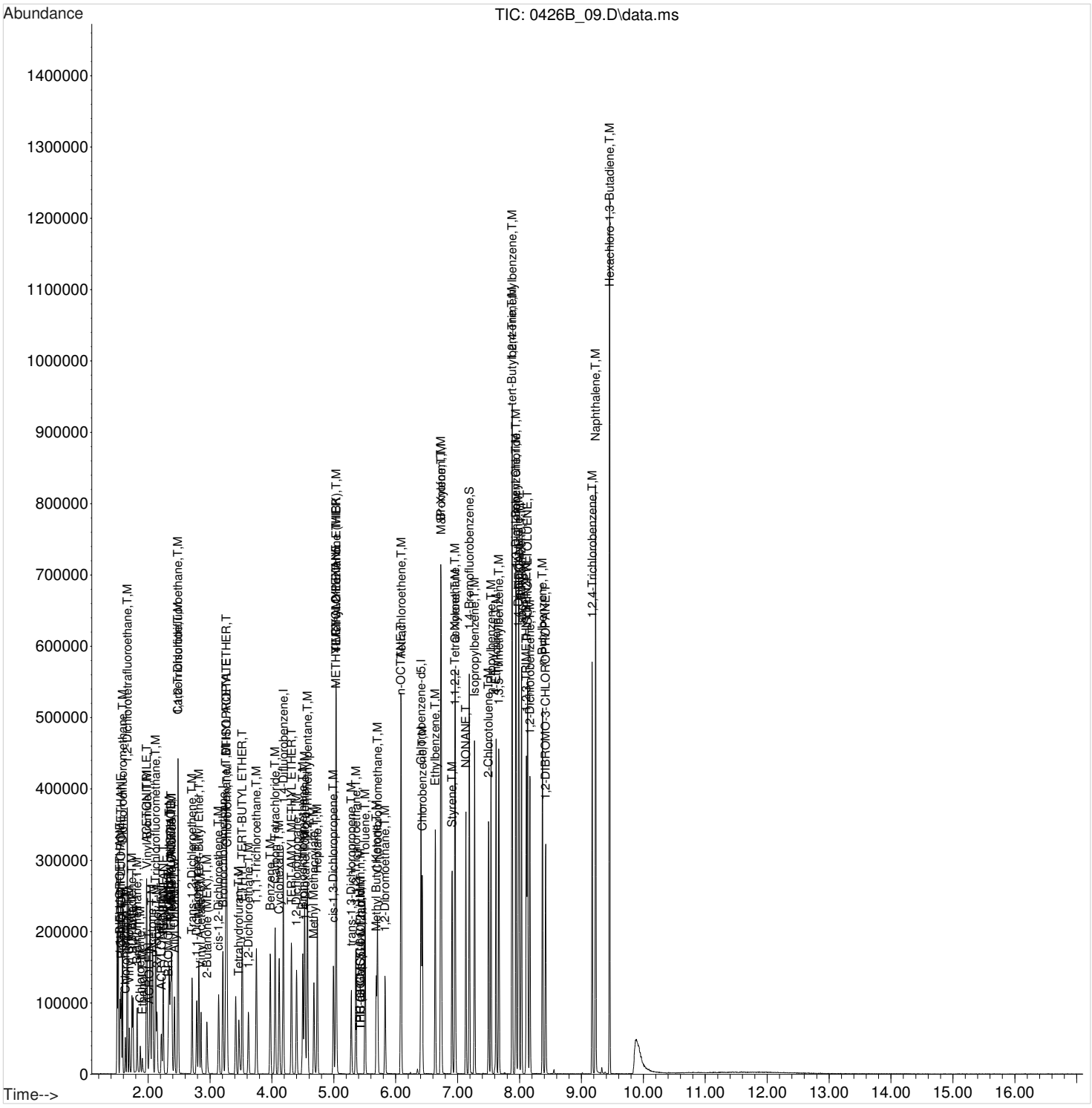
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	Benzyl Chloride	7.940	91	107208	15.7017413 ppbv	97
98)	n-Butylbenzene	8.369	91	157233	9.8278520 ppbv	98
99)	1,2-Dichlorobenzene	8.169	146	105394	10.4884606 ppbv	99
100)	1,2-DIBROMO-3-CHLOROPR...	8.422	157	58017	8.5079747 ppbv	97
101)	1,2,4-Trichlorobenzene	9.173	180	108163	17.6557497 ppbv	99
102)	Hexachloro-1,3-Butadiene	9.455	225	142175	5.7701498 ppbv	98
103)	Naphthalene	9.227	128	358479	50.3091868 ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_09.D
Acq On : 26 Apr 2024 07:52 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 9 Sample Multiplier: 1

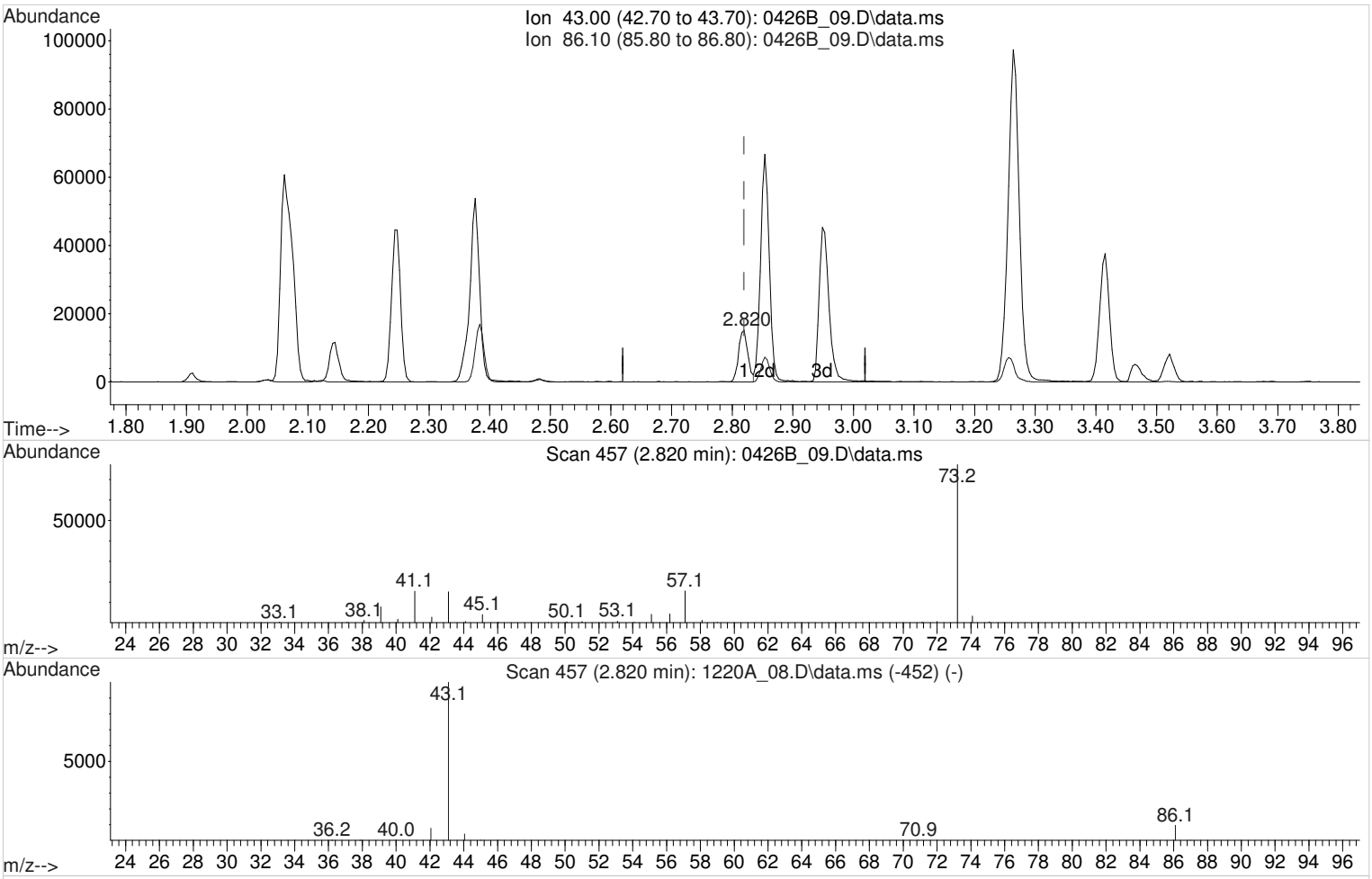
Quant Time: Apr 27 04:48:49 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:48:44 2024
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_09.D
Acq On : 26 Apr 2024 07:52 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 27 04:33:40 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:33:36 2024
Response via : Initial Calibration



TIC: 0426B_09.D\data.ms

(38) Vinyl Acetate (T,M)

2.820min (+ 0.000) 9.1349633 ppbv

Qvalue = 100

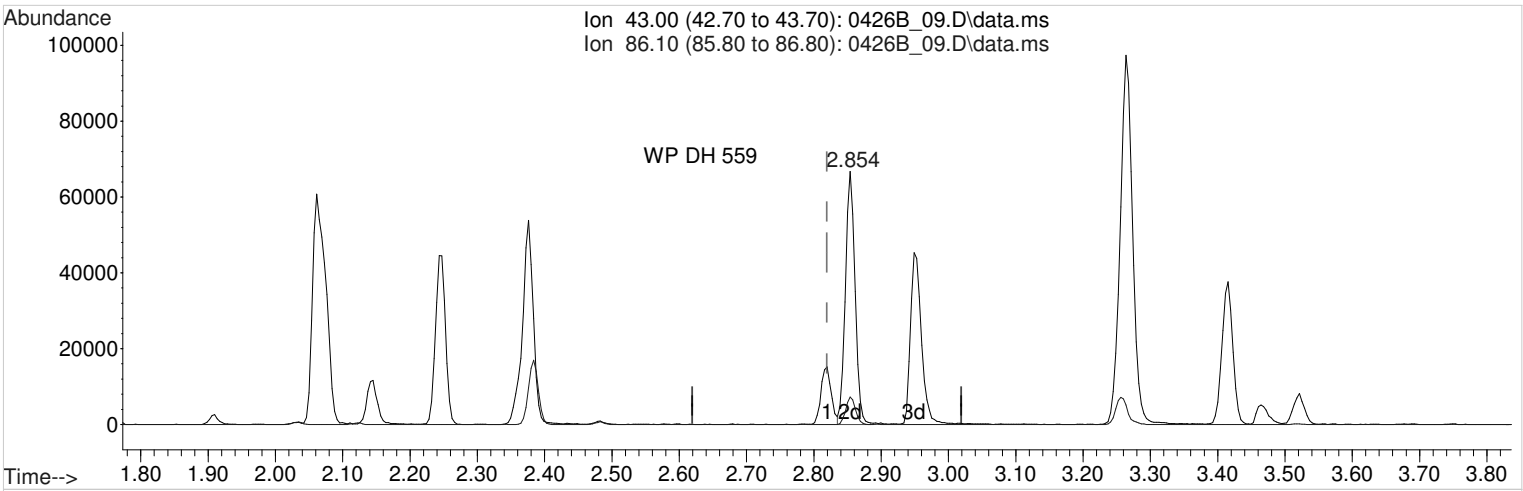
response 16434

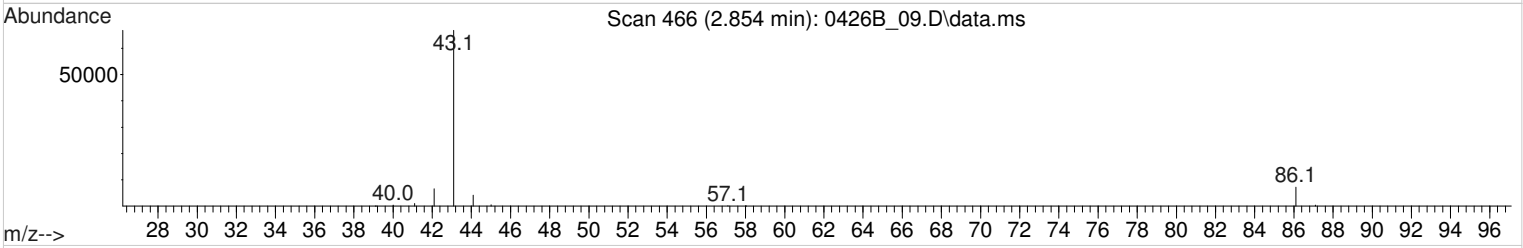
Ion	Exp%	Act%
43.00	100.00	100.00
86.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

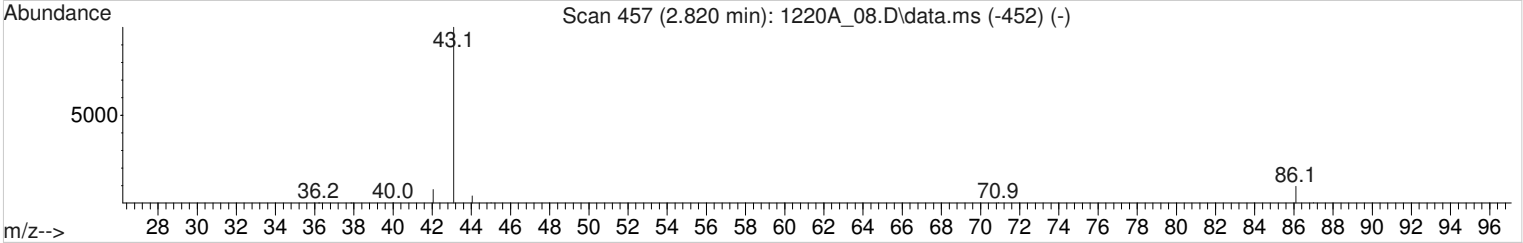
Quantitation Report (Qedit)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_09.D
Acq On : 26 Apr 2024 07:52 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 27 04:33:40 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:33:36 2024
Response via : Initial Calibration







TIC: 0426B_09.D\data.ms

(38) Vinyl Acetate (T,M)

2.854min (+ 0.034) 36.7999947 ppbv m

response	**66204**	
Ion	**Exp%**	**Act%**
43.00	**100.00**	**100.00**
86.10	**0.00**	**0.00**
0.00	**0.00**	**0.00**
0.00	**0.00**	**0.00**

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_10.D
Acq On : 26 Apr 2024 08:22 pm
Operator :
Sample : STD AMS 25.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 27 04:49:14 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:49:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.211	130	43248	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	4.185	114	163552	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	6.410	117	130545	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	7.189	95	91985	4.2551982	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 106.38%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	5.430	TIC	35559966m	530.8698934	ppbv	
3) TPH-GRO (C5-C10)	5.430	TIC	42448249m	778.0905790	ppbv	
4) THC as Gas (C4-C12)	5.430	TIC	58851538m	1237.6194953	ppbv	
5) Propene	1.569	41	54253	26.6589556	ppbv	96
6) BUTANE	1.754	43	107572	25.3283702	ppbv	97
7) 1,1-DIFLUOROETHANE	1.546	65	47870	24.7528243	ppbv	97
8) Dichlorodifluoromethane	1.587	85	223911	24.7597558	ppbv	100
9) CHLORODIFLUOROMETHANE	1.557	67	21397	25.5416597	ppbv	90
10) 1,2-Dichlorotetrafluor...	1.663	85	216341	25.2858811	ppbv	98
11) Chloromethane	1.633	50	59901	24.6967701	ppbv	97
12) Vinyl Chloride	1.697	62	74301	25.1559082	ppbv	98
13) 1,3-Butadiene	1.739	54	58110	25.9493622	ppbv	95
14) Bromomethane	1.819	94	73796	24.4595523	ppbv	97
15) Chloroethane	1.872	64	40931	25.8869914	ppbv	100
16) ISOPENTANE	2.244	41	67639	24.0402666	ppbv	97
17) Vinyl Bromide	1.982	106	78072	24.8460223	ppbv	99
18) Trichlorofluoromethane	2.122	101	231717	24.4998143	ppbv	99
19) PENTANE	2.244	43	120327	23.4280356	ppbv	99
20) Ethanol	1.906	45	26304	43.8259494	ppbv	91
21) ACROLEIN	2.016	56	34195	26.8922531	ppbv	100
22) 1,1,2-Trichlorotrifluo...	2.482	101	165045	24.1106402	ppbv	99
23) 1,1-Dichloroethene	2.342	61	126913	25.4132724	ppbv	97
24) Acetone	2.058	58	42167	10.0227122	ppbv	86
25) BROMOETHANE	2.327	108	73337	24.7537689	ppbv	96
26) 2-Propanol	2.137	45	142727	33.6785246	ppbv	91
27) Carbon Disulfide	2.482	76	203991	25.1960788	ppbv	100
28) Allyl Chloride	2.426	41	87227	24.7858562	ppbv	100
29) METHYL ACETATE	2.376	43	155768	26.5320304	ppbv #	96
30) ACETONITRILE	1.974	41	317772	154.3011341	ppbv	99
31) Methylene Chloride	2.384	49	79704	24.3961555	ppbv #	100
32) TERT-BUTYL ALCOHOL	2.357	59	199744	27.7249784	ppbv	97
33) Methyl Tert-Butyl Ether	2.820	73	214212	26.3894864	ppbv	99
34) Trans-1,2-Dichloroethene	2.710	61	100974	25.0125515	ppbv	97
35) ACRYLONITRILE	2.213	53	63117	27.7439534	ppbv	96
36) n-Hexane	3.256	57	109741	29.4283372	ppbv	98
37) 1,1-Dichloroethane	2.786	63	128508	24.6445582	ppbv	99
38) Vinyl Acetate	2.854	43	182030	29.4308944	ppbv #	100
39) DI-ISOPROPYL ETHER	3.264	45	244069	28.9808109	ppbv	98
40) ETHYL TERT-BUTYL ETHER	3.522	59	226563	30.2781286	ppbv	99
41) ETHYL ACETATE	3.264	43	330767	28.0063858	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_10.D
Acq On : 26 Apr 2024 08:22 pm
Operator :
Sample : STD AMS 25.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 27 04:49:14 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:49:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Butanone (MEK)	2.949	72	38411	28.3475550	ppbv		97
43) cis-1,2-Dichloroethene	3.139	61	95171	27.4020174	ppbv		98
44) Tetrahydrofuran	3.461	42	72593	31.8093237	ppbv		95
45) Chloroform	3.279	83	169512	24.9379822	ppbv		99
46) Cyclohexane	4.117	84	106065	30.5105366	ppbv		98
47) 1,1,1-Trichloroethane	3.749	97	173884	24.8789007	ppbv		99
48) Carbon Tetrachloride	4.053	117	194567	25.4519692	ppbv		98
49) 2,2,4-Trimethylpentane	4.576	57	358877	28.2157716	ppbv		98
51) Benzene	3.977	78	241310	24.9042523	ppbv		99
52) TERT-AMYL METHYL ETHER	4.314	73	215616	26.0327378	ppbv		97
53) 1,2-Dichloroethane	3.624	62	111779	24.0220966	ppbv		97
54) Heptane	4.731	43	122092	28.0277851	ppbv		98
55) Trichloroethene	4.530	95	112234	25.0540989	ppbv		99
56) TERT-AMYL ETHYL ETHER	5.036	73	64154	29.1551442	ppbv		85
57) METHYL CYCLOHEXANE	5.036	83	132815	28.9388357	ppbv		92
58) 1,2-Dichloropropane	4.398	63	81227	24.1043448	ppbv		99
59) Methyl Methacrylate	4.678	69	84421	31.3453600	ppbv		100
60) 1,4-Dioxane	4.534	88	56127	32.1522353	ppbv	#	81
61) Bromodichloromethane	4.500	83	176882	24.2361966	ppbv		97
62) cis-1,3-Dichloropropene	4.997	75	113743	26.3496456	ppbv		98
63) 4-Methyl-2-Pentanone (...	5.036	43	228014	31.6198541	ppbv		99
64) n-OCTANE	6.081	43	151741	33.3582188	ppbv		98
65) Toluene	5.508	91	282510	28.3563460	ppbv		99
66) trans-1,3-Dichloropropene	5.283	75	106105	30.0940464	ppbv		97
67) 1,1,2-Trichloroethane	5.358	97	89761	24.4433934	ppbv		99
68) Tetrachloroethene	6.091	166	169621	23.7532554	ppbv		97
69) Methyl Butyl Ketone	5.681	43	145880	46.3829742	ppbv		99
70) Chlorodibromomethane	5.709	129	175629	25.0371348	ppbv		99
71) 1,2-Dibromoethane	5.831	107	143135	26.6464162	ppbv		98
72) Chlorobenzene	6.432	112	232300	24.6718030	ppbv		99
73) NONANE	7.133	43	165243	34.5483209	ppbv		98
75) Ethylbenzene	6.638	91	372407	30.9767909	ppbv		99
76) M&P-Xylene	6.735	91	627709	62.4809231	ppbv		100
77) O-Xylene	6.964	91	304805	30.7456170	ppbv		100
80) Styrene	6.911	104	226825	35.1172913	ppbv		99
81) Bromoform	6.729	173	210435	27.2679088	ppbv		100
82) Isopropylbenzene	7.274	105	448274	27.1144119	ppbv		99
83) n-DECANE	7.990	43	185495	26.9207647	ppbv		96
84) 1,1,2,2-Tetrachloroethane	6.958	83	200039	25.9020211	ppbv		98
85) n-Propylbenzene	7.540	91	527122	32.2942215	ppbv		100
86) 4-Ethyltoluene	7.621	105	452243	34.0389875	ppbv		100
87) 2-Chlorotoluene	7.502	91	301187	29.6732959	ppbv		99
89) 1,3,5-Trimethylbenzene	7.668	105	369643	29.1536363	ppbv		98
90) tert-Butylbenzene	7.881	119	421862	29.8575486	ppbv		97
91) 1,2,4-Trimethylbenzene	7.884	105	390216	30.5805004	ppbv		100
92) sec-Butylbenzene	8.031	105	566964	27.5391199	ppbv		99
93) 1,3-Dichlorobenzene	7.943	146	288563	30.1487921	ppbv		97
94) P-ISOPROPYLTOLUENE	8.131	119	544087	24.1576489	ppbv		97
95) 1,4-Dichlorobenzene	7.984	146	293930	30.6155744	ppbv		98
96) 1,2,3-TRIMETHYLBENZENE	8.112	105	407059	25.5024769	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_10.D
Acq On : 26 Apr 2024 08:22 pm
Operator :
Sample : STD AMS 25.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 27 04:49:14 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:49:10 2024
Response via : Initial Calibration

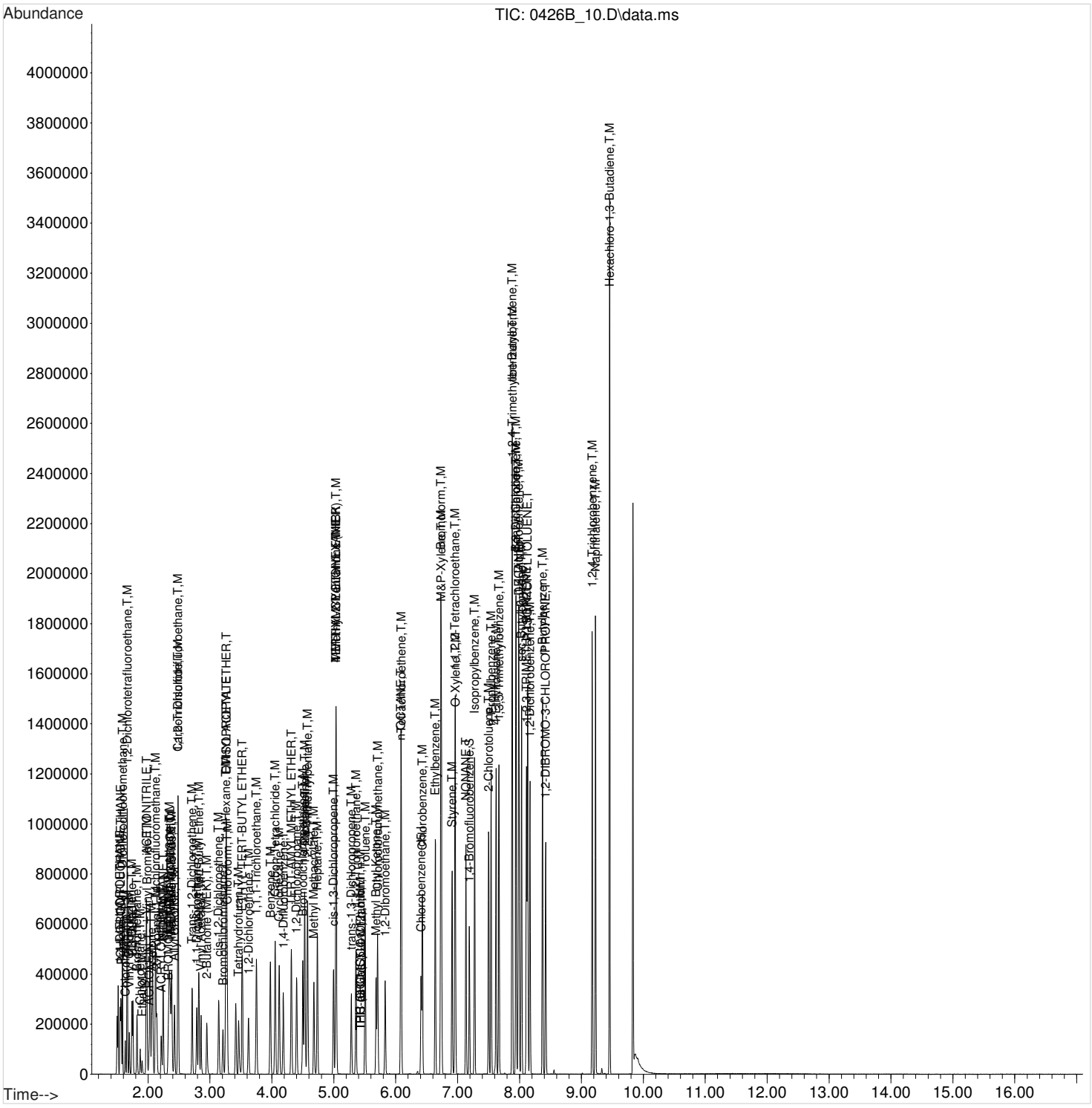
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	Benzyl Chloride	7.940	91	328179	42.7012436 ppbv	97
98)	n-Butylbenzene	8.372	91	450826	27.1400198 ppbv	97
99)	1,2-Dichlorobenzene	8.169	146	282815	26.8531513 ppbv	98
100)	1,2-DIBROMO-3-CHLOROPR...	8.422	157	166782	24.0100991 ppbv	98
101)	1,2,4-Trichlorobenzene	9.174	180	317736	44.1913577 ppbv	99
102)	Hexachloro-1,3-Butadiene	9.455	225	383482	15.9145727 ppbv	97
103)	Naphthalene	9.227	128	743041	59.9271796 ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_10.D
Acq On : 26 Apr 2024 08:22 pm
Operator :
Sample : STD AMS 25.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 27 04:49:14 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:49:10 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_11.D
Acq On : 26 Apr 2024 08:55 pm
Operator :
Sample : STD AMS 50.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 27 04:49:43 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:49:39 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.214	130	43189	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	4.185	114	163662	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	6.410	117	131134	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	7.189	95	94183	4.3029916	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 107.57%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	5.430	TIC	71620345m	1149.4354890	ppbv	
3) TPH-GRO (C5-C10)	5.430	TIC	81215940m	1600.5750771	ppbv	
4) THC as Gas (C4-C12)	5.430	TIC	116617605m	2612.1299370	ppbv	
5) Propene	1.569	41	117846	57.5094986	ppbv	95
6) BUTANE	1.758	43	221139	52.0539585	ppbv	99
7) 1,1-DIFLUOROETHANE	1.546	65	99881	51.7814444	ppbv	97
8) Dichlorodifluoromethane	1.587	85	455996	50.5529889	ppbv	99
9) CHLORODIFLUOROMETHANE	1.561	67	43351	51.6789425	ppbv	84
10) 1,2-Dichlorotetrafluor...	1.667	85	436541	51.0195751	ppbv	97
11) Chloromethane	1.633	50	125299	51.8090377	ppbv	96
12) Vinyl Chloride	1.701	62	155166	52.5649637	ppbv	99
13) 1,3-Butadiene	1.743	54	122114	54.3472425	ppbv	93
14) Bromomethane	1.823	94	150907	50.2218958	ppbv	97
15) Chloroethane	1.876	64	85976	54.2097645	ppbv	98
16) ISOPENTANE	2.247	41	137873	49.3063959	ppbv	98
17) Vinyl Bromide	1.986	106	156460	49.8990479	ppbv	98
18) Trichlorofluoromethane	2.122	101	454174	48.2067157	ppbv	98
19) PENTANE	2.247	43	246083	48.3586581	ppbv	99
20) Ethanol	1.910	45	54263	82.7441677	ppbv	92
21) ACROLEIN	2.020	56	70659	55.1233102	ppbv	98
22) 1,1,2-Trichlorotrifluo...	2.486	101	325656	47.8513132	ppbv	97
23) 1,1-Dichloroethene	2.346	61	254570	50.9399015	ppbv	98
24) Acetone	2.062	58	85422	21.9775929	ppbv	85
25) BROMOETHANE	2.331	108	144559	48.9205375	ppbv	96
26) 2-Propanol	2.141	45	284944	64.5284978	ppbv	90
27) Carbon Disulfide	2.486	76	408761	50.5078302	ppbv	99
28) Allyl Chloride	2.429	41	178852	50.9453942	ppbv	100
29) METHYL ACETATE	2.376	43	315300	53.3697303	ppbv #	97
30) ACETONITRILE	1.974	41	663670	313.5133985	ppbv	99
31) Methylene Chloride	2.388	49	162794	50.0478891	ppbv #	100
32) TERT-BUTYL ALCOHOL	2.361	59	385270	52.8297165	ppbv	96
33) Methyl Tert-Butyl Ether	2.820	73	437378	53.5833864	ppbv	99
34) Trans-1,2-Dichloroethene	2.714	61	203258	50.4152249	ppbv	95
35) ACRYLONITRILE	2.217	53	130530	56.6770582	ppbv	96
36) n-Hexane	3.260	57	223898	58.8205125	ppbv	97
37) 1,1-Dichloroethane	2.786	63	257238	49.4870306	ppbv	100
38) Vinyl Acetate	2.858	43	382832	60.6380282	ppbv #	100
39) DI-ISOPROPYL ETHER	3.264	45	494315	57.6282276	ppbv	98
40) ETHYL TERT-BUTYL ETHER	3.522	59	465037	60.6328171	ppbv	98
41) ETHYL ACETATE	3.264	43	669971	55.9633977	ppbv	98

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_11.D
Acq On : 26 Apr 2024 08:55 pm
Operator :
Sample : STD AMS 50.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 27 04:49:43 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:49:39 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 2-Butanone (MEK)	2.953	72	78886	57.3381728 ppbv	97
43) cis-1,2-Dichloroethene	3.142	61	196021	55.8455464 ppbv	96
44) Tetrahydrofuran	3.461	42	152540	64.7285971 ppbv	96
45) Chloroform	3.279	83	336712	49.6188881 ppbv	98
46) Cyclohexane	4.117	84	215162	60.3159405 ppbv	96
47) 1,1,1-Trichloroethane	3.753	97	344591	49.4005083 ppbv	99
48) Carbon Tetrachloride	4.053	117	384726	50.2824340 ppbv	98
49) 2,2,4-Trimethylpentane	4.580	57	724479	56.1354970 ppbv	98
51) Benzene	3.977	78	489430	50.5015540 ppbv	99
52) TERT-AMYL METHYL ETHER	4.314	73	445330	53.4554544 ppbv	97
53) 1,2-Dichloroethane	3.624	62	223169	48.1638572 ppbv	97
54) Heptane	4.735	43	247029	55.8254247 ppbv	98
55) Trichloroethene	4.530	95	227196	50.6693780 ppbv	97
56) TERT-AMYL ETHYL ETHER	5.039	73	130364	57.9998412 ppbv	77
57) METHYL CYCLOHEXANE	5.036	83	264328	56.4436594 ppbv	87
58) 1,2-Dichloropropane	4.401	63	164618	49.0376334 ppbv	99
59) Methyl Methacrylate	4.678	69	172884	62.1757261 ppbv	99
60) 1,4-Dioxane	4.534	88	114580	63.3281115 ppbv #	80
61) Bromodichloromethane	4.500	83	354631	48.7446865 ppbv	97
62) cis-1,3-Dichloropropene	4.997	75	227556	52.3269622 ppbv	97
63) 4-Methyl-2-Pentanone (...	5.036	43	472791	63.4210604 ppbv	97
64) n-OCTANE	6.081	43	314613	66.3443494 ppbv	98
65) Toluene	5.508	91	576849	56.9061045 ppbv	100
66) trans-1,3-Dichloropropene	5.283	75	223362	61.7360692 ppbv	99
67) 1,1,2-Trichloroethane	5.358	97	178435	48.6936361 ppbv	97
68) Tetrachloroethene	6.091	166	329850	46.4497903 ppbv	96
69) Methyl Butyl Ketone	5.680	43	300716	86.3203431 ppbv	98
70) Chlorodibromomethane	5.709	129	351182	50.0204993 ppbv	100
71) 1,2-Dibromoethane	5.831	107	290177	53.5430917 ppbv	97
72) Chlorobenzene	6.432	112	466937	49.6399378 ppbv	99
73) NONANE	7.136	43	338092	67.4205954 ppbv	99
75) Ethylbenzene	6.638	91	759169	61.0398836 ppbv	99
76) M&P-Xylene	6.735	91	1270768	122.1114559 ppbv	99
77) O-Xylene	6.964	91	611873	59.7264571 ppbv	99
80) Styrene	6.911	104	459154	67.3599255 ppbv	99
81) Bromoform	6.732	173	421340	53.7420829 ppbv	100
82) Isopropylbenzene	7.274	105	900356	53.6473839 ppbv	99
83) n-DECANE	7.994	43	376273	53.8458439 ppbv	96
84) 1,1,2,2-Tetrachloroethane	6.958	83	405890	52.0856338 ppbv	100
85) n-Propylbenzene	7.540	91	1052565	61.9370241 ppbv	99
86) 4-Ethyltoluene	7.621	105	904201	64.8212497 ppbv	99
87) 2-Chlorotoluene	7.502	91	617959	59.2247140 ppbv	99
89) 1,3,5-Trimethylbenzene	7.668	105	746557	57.4236809 ppbv	99
90) tert-Butylbenzene	7.881	119	843257	58.0051632 ppbv	96
91) 1,2,4-Trimethylbenzene	7.884	105	786240	59.6743450 ppbv	99
92) sec-Butylbenzene	8.034	105	1120887	53.5207778 ppbv	99
93) 1,3-Dichlorobenzene	7.947	146	566745	57.4675834 ppbv	95
94) P-ISOPROPYLTOLUENE	8.131	119	1069823	47.4871588 ppbv #	90
95) 1,4-Dichlorobenzene	7.984	146	565393	57.0253352 ppbv	95
96) 1,2,3-TRIMETHYLBENZENE	8.116	105	814815	50.6919741 ppbv #	85

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_11.D
Acq On : 26 Apr 2024 08:55 pm
Operator :
Sample : STD AMS 50.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 27 04:49:43 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:49:39 2024
Response via : Initial Calibration

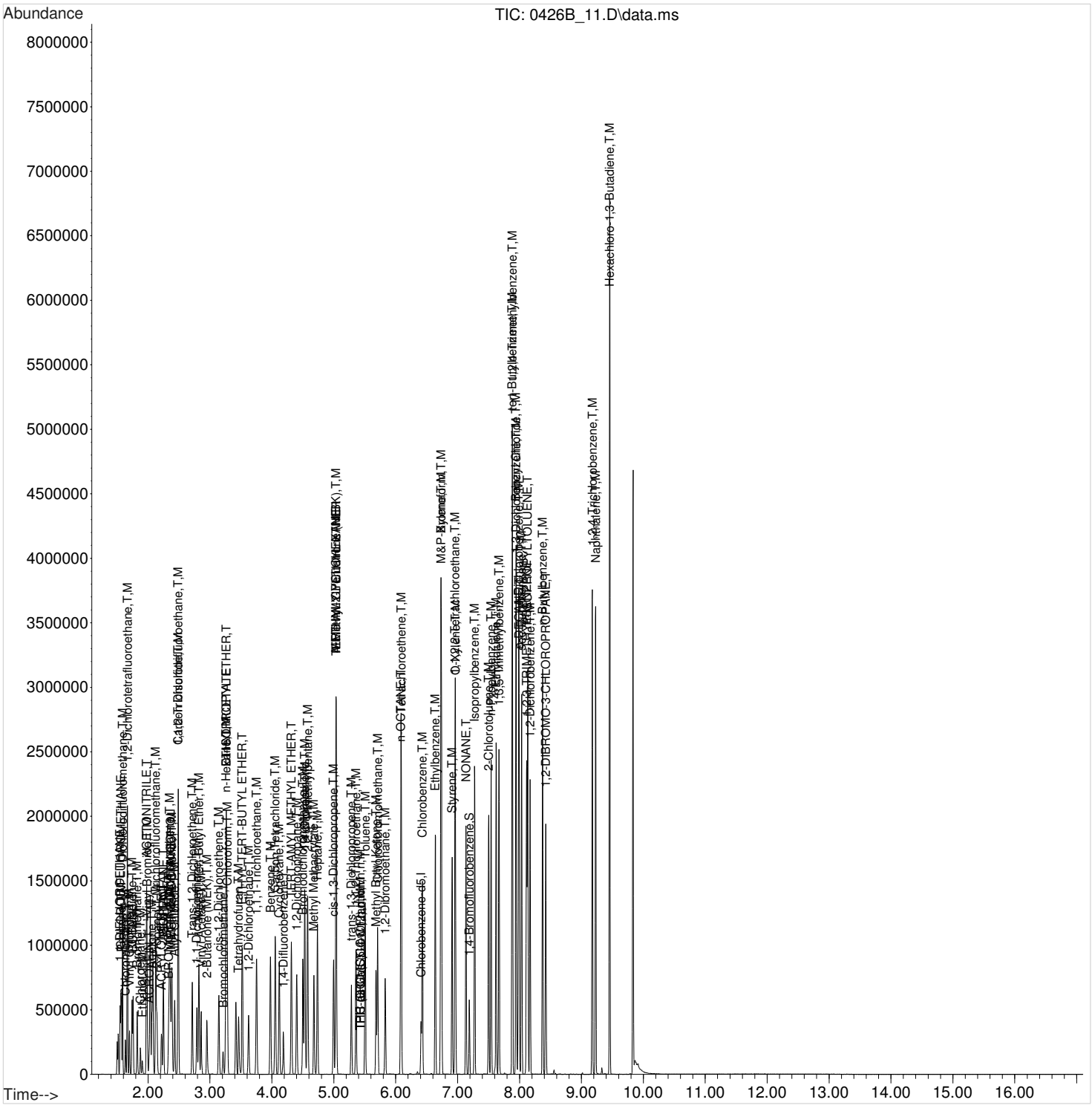
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	Benzyl Chloride	7.943	91	708867	84.3545502 ppbv	98
98)	n-Butylbenzene	8.372	91	921330	54.6309867 ppbv	97
99)	1,2-Dichlorobenzene	8.172	146	549935	51.5043103 ppbv	97
100)	1,2-DIBROMO-3-CHLOROPR...	8.425	157	341359	49.1649891 ppbv	96
101)	1,2,4-Trichlorobenzene	9.177	180	685506	85.5333073 ppbv	99
102)	Hexachloro-1,3-Butadiene	9.455	225	751695	32.5332545 ppbv	96
103)	Naphthalene	9.230	128	1513122	101.2743158 ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_11.D
Acq On : 26 Apr 2024 08:55 pm
Operator :
Sample : STD AMS 50.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 27 04:49:43 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:49:39 2024
Response via : Initial Calibration



Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_12.D
Acq On : 26 Apr 2024 09:35 pm
Operator :
Sample : STD AMS 100.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 27 04:50:21 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:50:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.214	130	48567	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	4.185	114	185021	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	6.410	117	146038	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	7.189	95	101306	4.1213800	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 103.03%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	5.430	TIC	152596009m	2308.8887089	ppbv	
3) TPH-GRO (C5-C10)	5.430	TIC	180752738m	3368.3850425	ppbv	
4) THC as Gas (C4-C12)	5.430	TIC	256412459m	5376.2815592	ppbv	
5) Propene	1.572	41	257611	109.9596649	ppbv	95
6) BUTANE	1.758	43	479005	99.8119580	ppbv	99
7) 1,1-DIFLUOROETHANE	1.549	65	220302	101.1639349	ppbv	100
8) Dichlorodifluoromethane	1.591	85	979174	96.4149071	ppbv	99
9) CHLORODIFLUOROMETHANE	1.561	67	96287	101.6943194	ppbv	89
10) 1,2-Dichlorotetrafluor...	1.667	85	955064	99.0360400	ppbv	98
11) Chloromethane	1.637	50	267958	98.1327837	ppbv	96
12) Vinyl Chloride	1.701	62	338541	101.4085405	ppbv	98
13) 1,3-Butadiene	1.743	54	261257	102.4086120	ppbv	92
14) Bromomethane	1.823	94	330553	97.7783248	ppbv	96
15) Chloroethane	1.876	64	184600	102.5462774	ppbv	99
16) ISOPENTANE	2.251	41	297185	94.6569925	ppbv	98
17) Vinyl Bromide	1.986	106	344292	97.6663989	ppbv	98
18) Trichlorofluoromethane	2.126	101	995447	94.3342591	ppbv	98
19) PENTANE	2.251	43	535016	93.8378876	ppbv	98
20) Ethanol	1.910	45	118725	150.0731914	ppbv	91
21) ACROLEIN	2.020	56	157126	107.7782586	ppbv	98
22) 1,1,2-Trichlorotrifluo...	2.486	101	714615	93.8247546	ppbv	97
23) 1,1-Dichloroethene	2.346	61	554742	98.5071252	ppbv	98
24) Acetone	2.061	58	186666	45.5439406	ppbv	91
25) BROMOETHANE	2.334	108	320391	96.6498765	ppbv	97
26) 2-Propanol	2.141	45	607615	118.5366222	ppbv #	88
27) Carbon Disulfide	2.486	76	898942	98.6649663	ppbv	98
28) Allyl Chloride	2.429	41	390720	98.7636649	ppbv	99
29) METHYL ACETATE	2.380	43	668339	99.8526754	ppbv #	99
30) ACETONITRILE	1.978	41	1417337	579.0544636	ppbv	100
31) Methylene Chloride	2.388	49	347317	94.9421511	ppbv #	100
32) TERT-BUTYL ALCOHOL	2.361	59	747998	90.6406453	ppbv	95
33) Methyl Tert-Butyl Ether	2.820	73	985432	106.5092016	ppbv	98
34) Trans-1,2-Dichloroethene	2.714	61	450176	99.2036660	ppbv	95
35) ACRYLONITRILE	2.217	53	289581	110.1798598	ppbv	97
36) n-Hexane	3.260	57	489557	112.1717289	ppbv	95
37) 1,1-Dichloroethane	2.786	63	561296	96.1336512	ppbv	100
38) Vinyl Acetate	2.858	43	838062	115.3181279	ppbv #	100
39) DI-ISOPROPYL ETHER	3.264	45	1072760	109.3617937	ppbv	98
40) ETHYL TERT-BUTYL ETHER	3.521	59	1033231	117.0326867	ppbv	99
41) ETHYL ACETATE	3.267	43	1444877	105.9237506	ppbv	99

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_12.D
Acq On : 26 Apr 2024 09:35 pm
Operator :
Sample : STD AMS 100.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 27 04:50:21 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:50:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 2-Butanone (MEK)	2.953	72	178112	113.2775967 ppbv	98
43) cis-1,2-Dichloroethene	3.142	61	428962	107.2831296 ppbv	98
44) Tetrahydrofuran	3.457	42	331825	121.2457550 ppbv	95
45) Chloroform	3.283	83	730814	95.8506647 ppbv	99
46) Cyclohexane	4.117	84	483739	117.8870239 ppbv	96
47) 1,1,1-Trichloroethane	3.749	97	764212	97.5555912 ppbv	99
48) Carbon Tetrachloride	4.052	117	852670	99.0387425 ppbv	97
49) 2,2,4-Trimethylpentane	4.580	57	1578264	107.2857237 ppbv	97
51) Benzene	3.977	78	1086866	99.0907715 ppbv	99
52) TERT-AMYL METHYL ETHER	4.314	73	1000468	105.4187808 ppbv	95
53) 1,2-Dichloroethane	3.624	62	482604	92.5083264 ppbv	98
54) Heptane	4.735	43	534102	105.4020598 ppbv	99
55) Trichloroethene	4.534	95	494308	97.3696986 ppbv	99
56) TERT-AMYL ETHYL ETHER	5.039	73	293901	113.6433970 ppbv	83
57) METHYL CYCLOHEXANE	5.039	83	583313	108.6240056 ppbv	92
58) 1,2-Dichloropropane	4.401	63	363784	96.0621670 ppbv	98
59) Methyl Methacrylate	4.678	69	385607	119.4381820 ppbv	100
60) 1,4-Dioxane	4.534	88	253320	120.2840082 ppbv #	78
61) Bromodichloromethane	4.504	83	780983	95.2208799 ppbv	97
62) cis-1,3-Dichloropropene	4.997	75	497676	100.7095830 ppbv	96
63) 4-Methyl-2-Pentanone (...	5.039	43	1029302	118.5961778 ppbv	96
64) n-OCTANE	6.084	43	687449	123.7372287 ppbv	98
65) Toluene	5.508	91	1284186	110.3664383 ppbv	100
66) trans-1,3-Dichloropropene	5.286	75	502591	119.7539739 ppbv	97
67) 1,1,2-Trichloroethane	5.361	97	397682	96.2758871 ppbv	99
68) Tetrachloroethene	6.090	166	717016	90.0249391 ppbv	94
69) Methyl Butyl Ketone	5.684	43	651555	153.0821705 ppbv	97
70) Chlorodibromomethane	5.709	129	780928	98.3861160 ppbv	99
71) 1,2-Dibromoethane	5.831	107	645519	104.5370585 ppbv	97
72) Chlorobenzene	6.432	112	1043149	98.1733817 ppbv	99
73) NONANE	7.136	43	716346	121.6499764 ppbv	99
75) Ethylbenzene	6.641	91	1691824	119.2213023 ppbv	99
76) M&P-Xylene	6.738	91	2830941	238.4127524 ppbv	98
77) O-Xylene	6.967	91	1334849	114.5249346 ppbv	98
80) Styrene	6.914	104	1024061	129.8911401 ppbv	99
81) Bromoform	6.732	173	905720	102.8794532 ppbv	100
82) Isopropylbenzene	7.277	105	1971148	104.6157456 ppbv	99
83) n-DECANE	7.993	43	788345	100.4428512 ppbv	95
84) 1,1,2,2-Tetrachloroethane	6.961	83	875745	100.4450427 ppbv	100
85) n-Propylbenzene	7.543	91	2301053	118.4424019 ppbv	100
86) 4-Ethyltoluene	7.624	105	1987290	123.8481820 ppbv	99
87) 2-Chlorotoluene	7.502	91	1368955	115.4434179 ppbv	100
89) 1,3,5-Trimethylbenzene	7.671	105	1647181	111.9212833 ppbv	99
90) tert-Butylbenzene	7.884	119	1850150	112.2807255 ppbv	95
91) 1,2,4-Trimethylbenzene	7.887	105	1726745	115.2052878 ppbv	99
92) sec-Butylbenzene	8.037	105	2424512	103.1453559 ppbv	99
93) 1,3-Dichlorobenzene	7.946	146	1207203	108.1227703 ppbv	93
94) P-ISOPROPYLTOLUENE	8.137	119	2393729	95.9446152 ppbv #	91
95) 1,4-Dichlorobenzene	7.987	146	1219574	108.7545026 ppbv	95
96) 1,2,3-TRIMETHYLBENZENE	8.119	105	1807422	100.8142387 ppbv #	85

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_12.D
Acq On : 26 Apr 2024 09:35 pm
Operator :
Sample : STD AMS 100.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 12 Sample Multiplier: 1

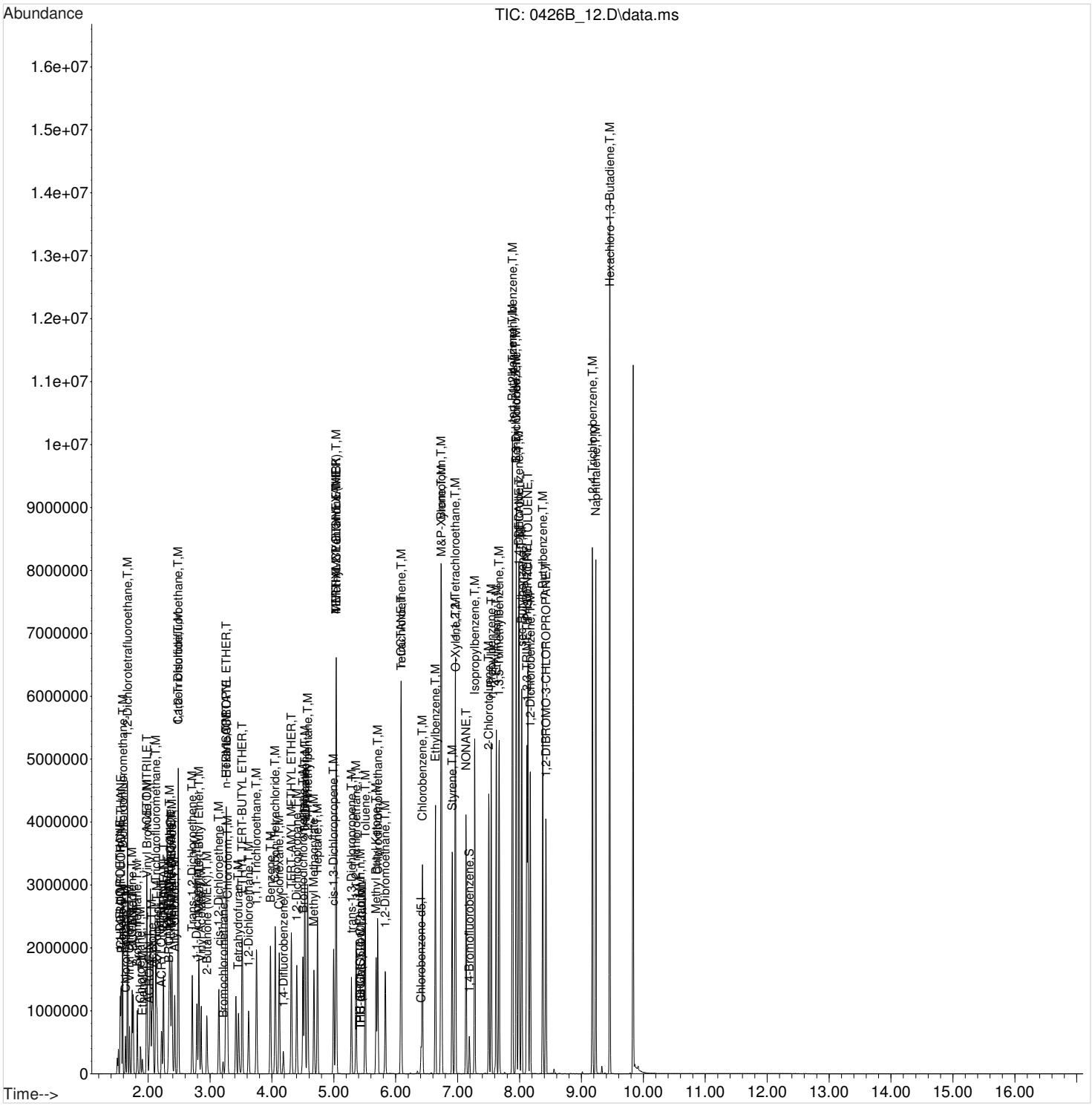
Quant Time: Apr 27 04:50:21 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:50:10 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	Benzyl Chloride	7.946	91	1640646	162.8760397 ppbv	98
98)	n-Butylbenzene	8.375	91	2054114	108.2558282 ppbv	97
99)	1,2-Dichlorobenzene	8.175	146	1194216	100.0956365 ppbv	96
100)	1,2-DIBROMO-3-CHLOROPR...	8.428	157	760304	98.5117226 ppbv	95
101)	1,2,4-Trichlorobenzene	9.177	180	1621074	166.8072396 ppbv	98
102)	Hexachloro-1,3-Butadiene	9.458	225	1674526	67.7049135 ppbv	95
103)	Naphthalene	9.233	128	3469934	184.8482713 ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_12.D
Acq On : 26 Apr 2024 09:35 pm
Operator :
Sample : STD AMS 100.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 12 Sample Multiplier: 1

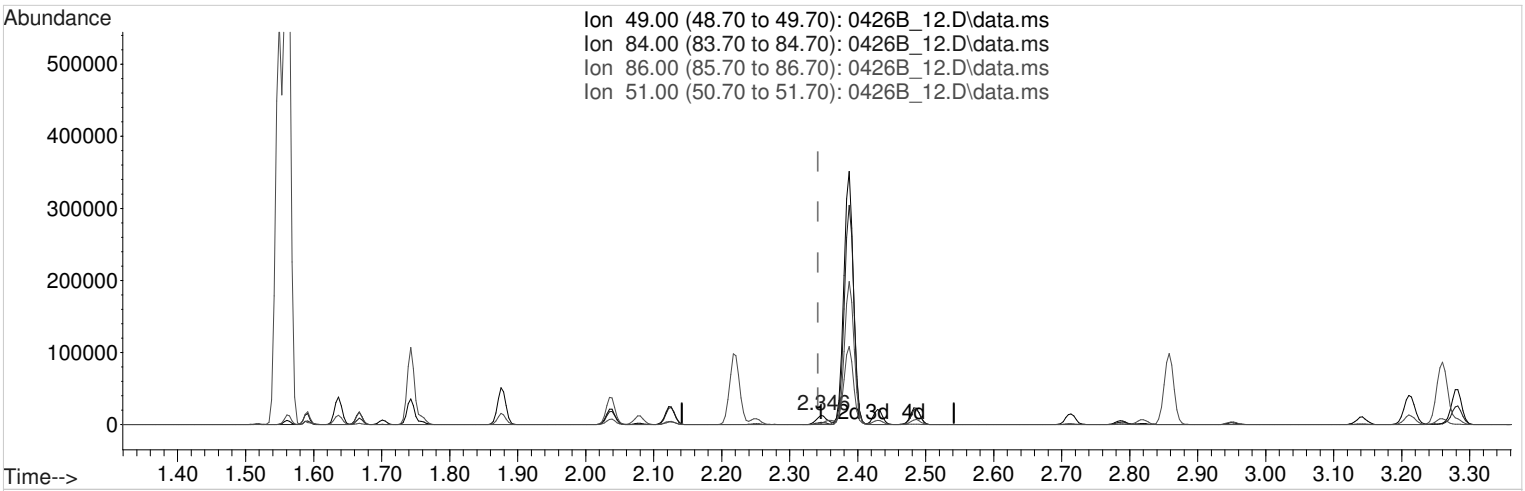
Quant Time: Apr 27 04:50:21 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:50:10 2024
Response via : Initial Calibration

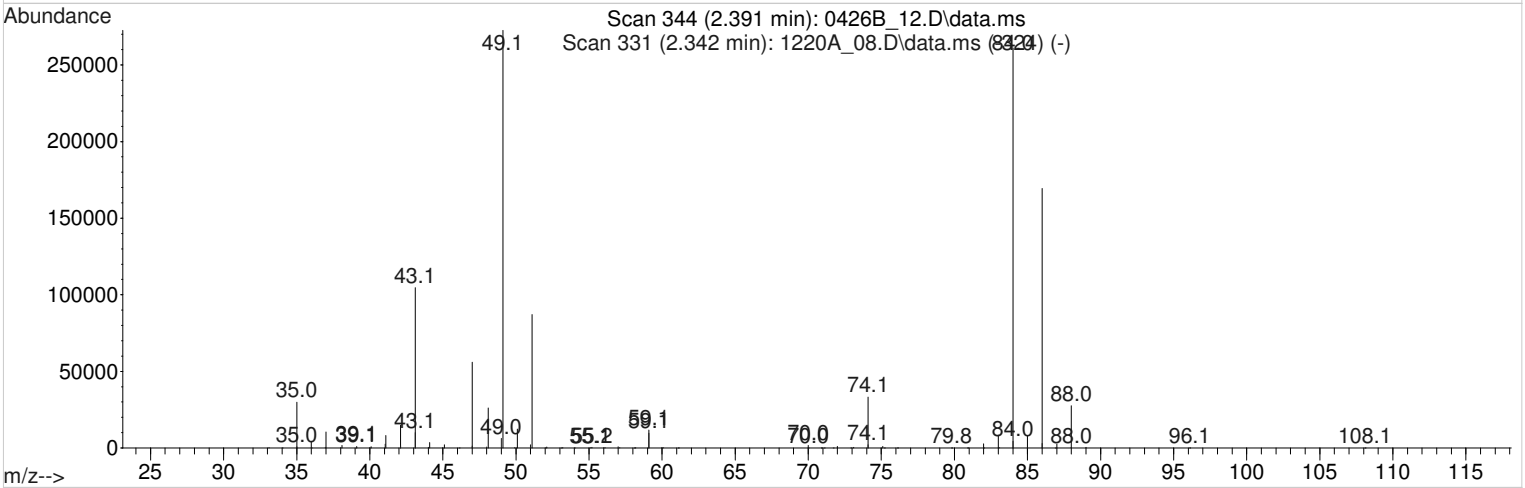


Quantitation Report (Qedit)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_12.D
Acq On : 26 Apr 2024 09:35 pm
Operator :
Sample : STD AMS 100.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 27 04:35:01 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:34:57 2024
Response via : Initial Calibration





TIC: 0426B_12.D\data.ms

(31) Methylene Chloride (T,M)

2.346min (+ 0.004) 4.7207776 ppbv

Qvalue = 100

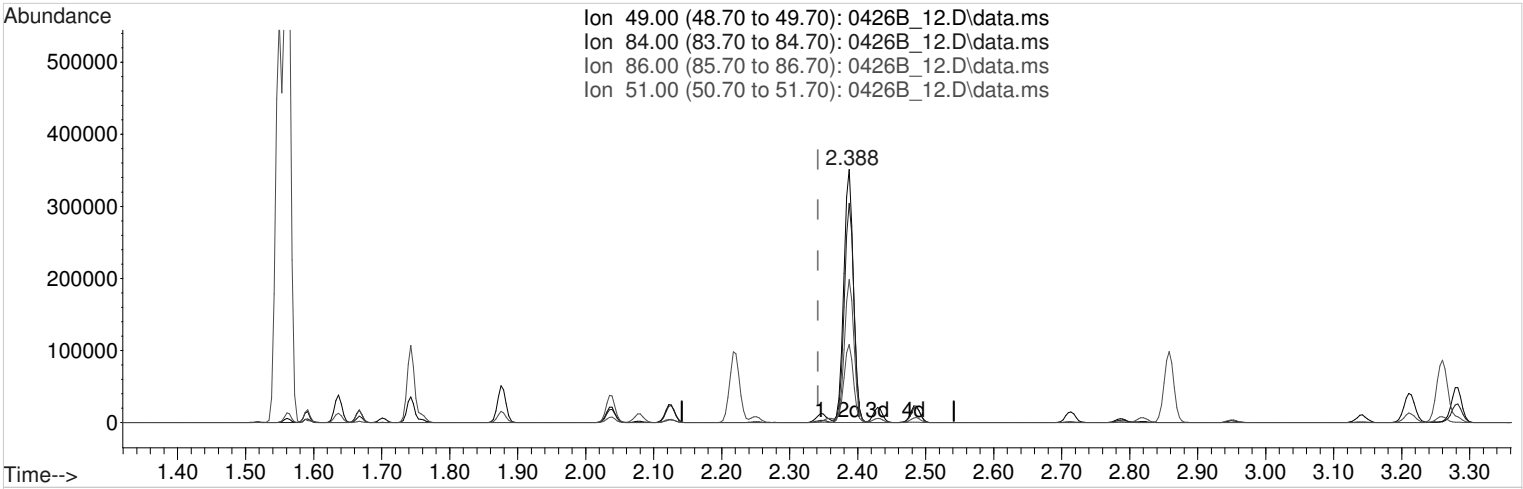
response 13688

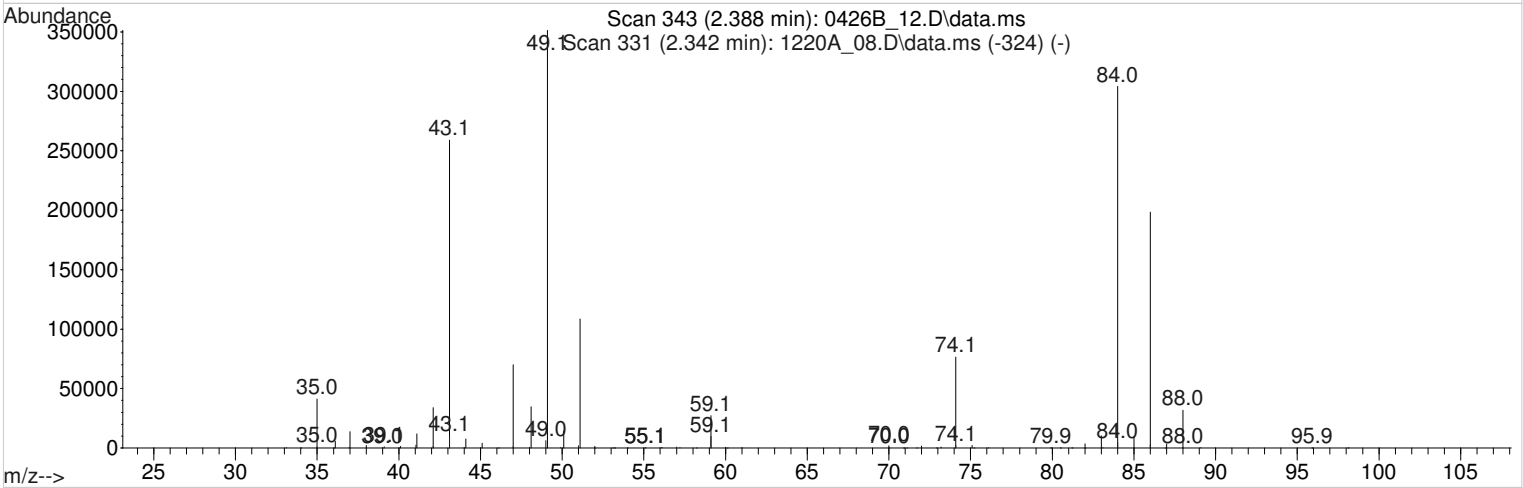
Ion	Exp%	Act%
49.00	100.00	100.00
84.00	0.00	0.00
86.00	0.00	0.00
51.00	0.00	46.94#

Quantitation Report (Qedit)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_12.D
Acq On : 26 Apr 2024 09:35 pm
Operator :
Sample : STD AMS 100.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 27 04:35:01 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:34:57 2024
Response via : Initial Calibration





TIC: 0426B_12.D\data.ms

(31) Methylene Chloride (T,M)

2.388min (+ 0.046) 119.6338438 ppbv m

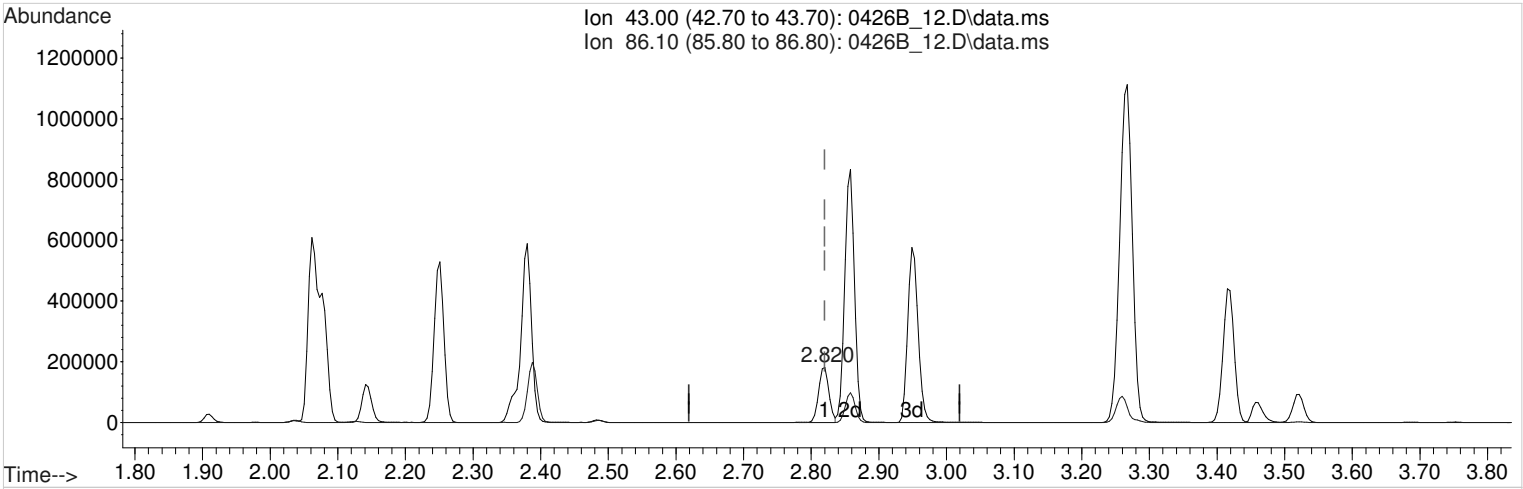
response 346881

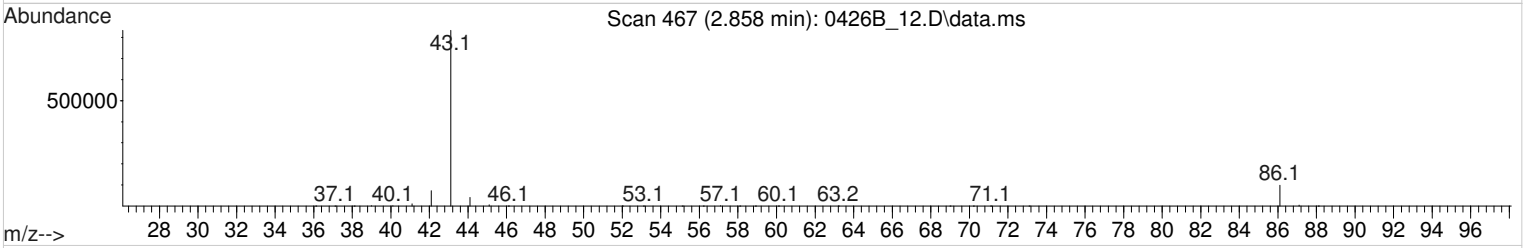
Ion	Exp%	Act%
49.00	100.00	100.00
84.00	0.00	0.00
86.00	0.00	0.00
51.00	0.00	1.85#

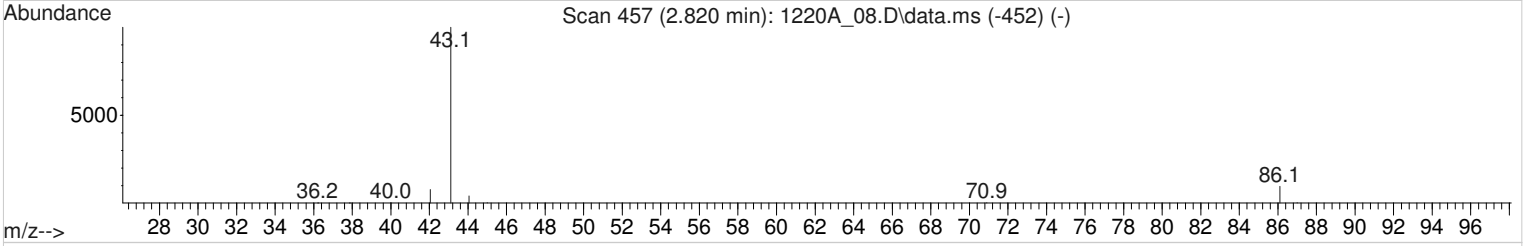
Quantitation Report (Qedit)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_12.D
Acq On : 26 Apr 2024 09:35 pm
Operator :
Sample : STD AMS 100.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 27 04:35:01 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:34:57 2024
Response via : Initial Calibration







TIC: 0426B_12.D\data.ms

(38) Vinyl Acetate (T,M)

2.820min (+ 0.000) 95.1153643 ppbv

Qvalue = 100

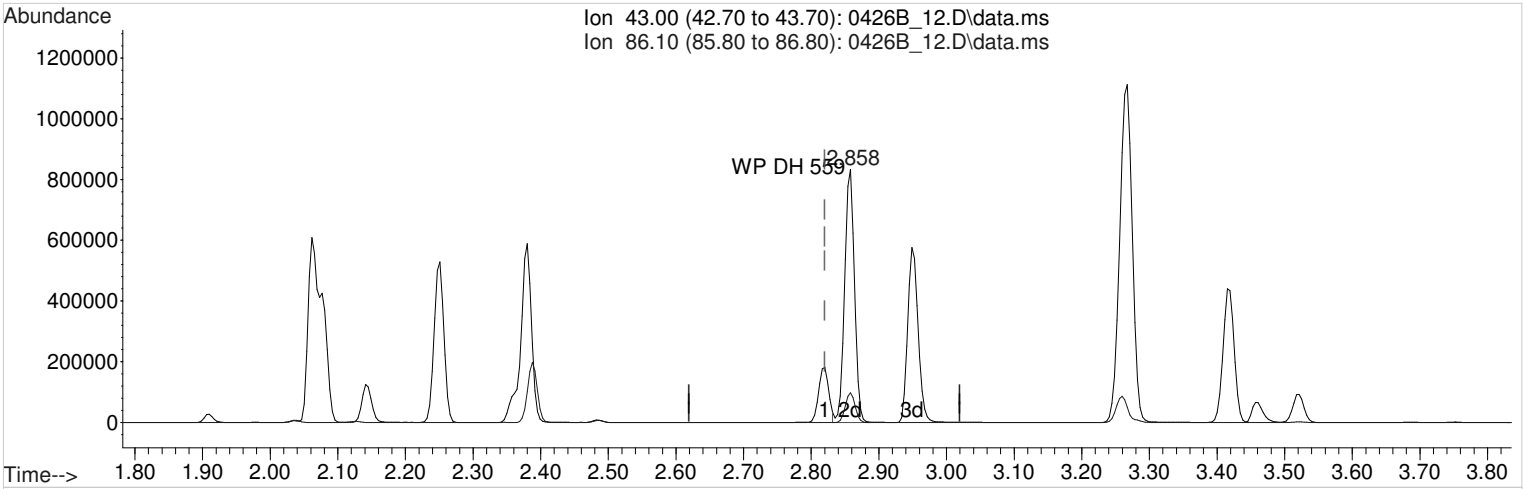
response 191882

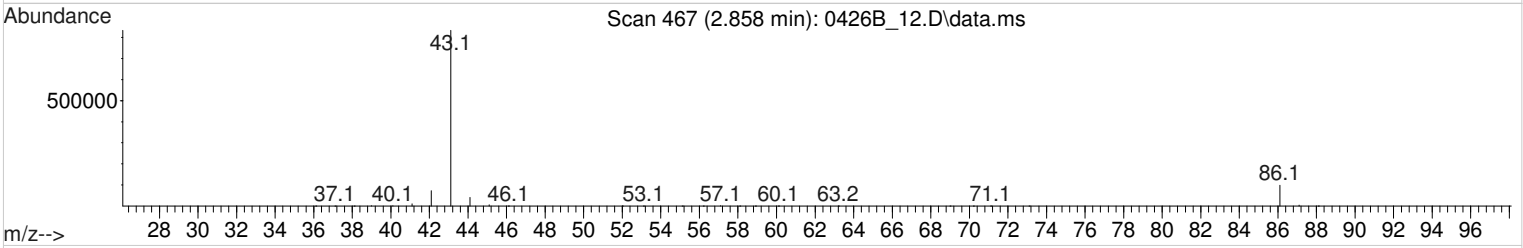
Ion	Exp%	Act%
43.00	100.00	100.00
86.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

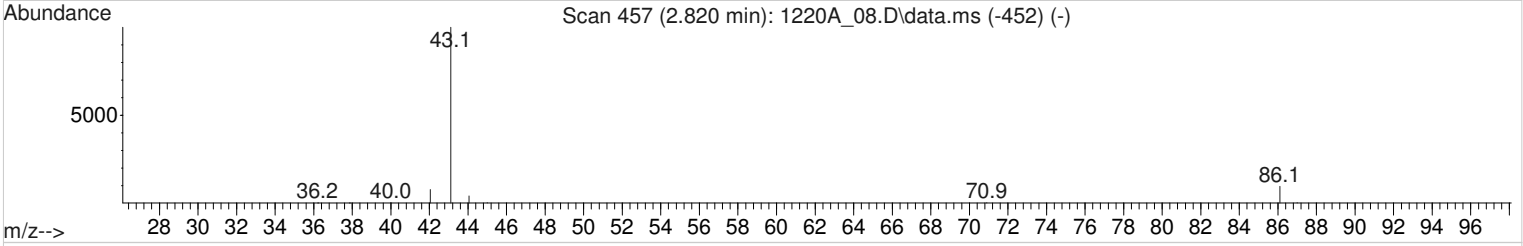
Quantitation Report (Qedit)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_12.D
Acq On : 26 Apr 2024 09:35 pm
Operator :
Sample : STD AMS 100.0 ppbv 24D25811
Misc : 24D25866
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 27 04:35:01 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 04:34:57 2024
Response via : Initial Calibration







TIC: 0426B_12.D\data.ms

(38) Vinyl Acetate (T,M)

2.858min (+ 0.038) 417.2446657 ppbv m

response	**841733**	
Ion	**Exp%**	**Act%**
43.00	**100.00**	**100.00**
86.10	**0.00**	**0.00**
0.00	**0.00**	**0.00**
0.00	**0.00**	**0.00**

6A-OR GC/MS INITIAL CALIBRATION DATA

SDG: L1731355 **Analytical Method:** TO-15

Instrument ID: AIRMS13

Analyte	RRF: .19	RRF: .31	RRF: .63	RRF: 1.25	RRF: 2.5	RRF: 3.75	RRF: 10	RRF: 25	RRF: 50	RRF: 100
Analysis date/time	04/30/24 16:23	04/30/24 17:04	04/30/24 17:45	04/30/24 18:26	04/30/24 19:09	04/30/24 19:52	04/30/24 20:34	04/30/24 21:16	04/30/24 22:02	04/30/24 22:51
DICHLORODIFLUOROMETHANE	1.0860	0.8840	0.8240	0.81	0.7860	0.7350	0.7930	0.7030	0.5990	0.40
1,2-DICHLOROTETRAFLUOROETHANE	1.1330	0.8670	0.8160	0.7920	0.7880	0.7880	0.8010	0.7540	0.7520	0.72
CHLOROMETHANE	0.4880	0.3950	0.3760	0.3660	0.3570	0.3460	0.3490	0.3270	0.3090	0.2970
VINYL CHLORIDE	0.5170	0.3920	0.38	0.3740	0.3730	0.37	0.3670	0.3570	0.3510	0.3360
BROMOMETHANE	0.4950	0.3570	0.3280	0.3040	0.3010	0.2960	0.2980	0.2840	0.2940	0.2820
CHLOROETHANE	0.2570	0.1950	0.1940	0.1670	0.1740	0.1670	0.1670	0.1610	0.1590	0.1530
VINYL BROMIDE	0.3980	0.2920	0.2770	0.2740	0.2590	0.2630	0.2680	0.27	0.2770	0.2730
TRICHLOROFLUOROMETHANE	1.2190	0.9040	0.8960	0.83	0.8360	0.84	0.8470	0.8050	0.8190	0.7990
1,1,2-TRICHLOROTRIFLUOROETHANE	0.9380	0.6930	0.7020	0.6680	0.6540	0.6440	0.6530	0.6080	0.6280	0.5790
1,1-DICHLOROETHENE	0.8020	0.6650	0.6010	0.5920	0.5530	0.5680	0.5710	0.5580	0.5670	0.5320
CARBON DISULFIDE	1.6140	1.1660	1.0380	0.9460	0.9090	0.9220	0.9340	0.9040	0.8990	0.8770
METHYLENE CHLORIDE	0.73	0.5420	0.5230	0.5150	0.4760	0.4870	0.4840	0.4670	0.4620	0.4320
METHYL TERT-BUTYL ETHER	0.9850	0.76	0.7050	0.7110	0.7370	0.7540	0.8150	0.85	0.8690	0.8540
TRANS-1,2-DICHLOROETHENE	0.6730	0.5060	0.4880	0.4630	0.4970	0.4910	0.5190	0.5150	0.5240	0.4990
1,1-DICHLOROETHANE	0.8790	0.6870	0.6480	0.6370	0.6340	0.6530	0.6530	0.6390	0.6360	0.5980
VINYL ACETATE	1.1030	0.7450	0.7780	0.8320	0.8960	0.9420	1.0410	1.1210	1.1460	1.0570
ETHYL ACETATE	0.1140	0.0860	0.0790	0.0840	0.08	0.0780	0.0850	0.0860	0.0880	0.0870
2-BUTANONE (MEK)	0.1850	0.1240	0.1480	0.1510	0.1430	0.1420	0.1590	0.1590	0.1630	0.1560
CIS-1,2-DICHLOROETHENE	0.7820	0.6050	0.56	0.5640	0.5680	0.5710	0.62	0.62	0.62	0.5930
TETRAHYDROFURAN	0.6220	0.4440	0.42	0.4290	0.4220	0.4380	0.4690	0.4760	0.4560	0.4230
CHLOROFORM	1.1250	0.7730	0.7650	0.7260	0.7150	0.7130	0.7270	0.7010	0.6890	0.6560
CYCLOHEXANE	0.4010	0.3020	0.2980	0.2950	0.2990	0.3190	0.3570	0.3780	0.3860	0.38
1,1,1-TRICHLOROETHANE	0.8990	0.6610	0.6590	0.6380	0.61	0.6230	0.6490	0.6240	0.6220	0.6080
CARBON TETRACHLORIDE	0.8940	0.6660	0.6450	0.6460	0.6170	0.63	0.6470	0.6330	0.6470	0.6290
2,2,4-TRIMETHYLPENTANE	1.8620	1.4320	1.4470	1.39	1.3760	1.5040	1.6880	1.7240	1.78	1.6860
BENZENE	0.3260	0.2630	0.2540	0.2670	0.2550	0.27	0.27	0.2630	0.2570	0.2490
1,2-DICHLOROETHANE	0.1770	0.1480	0.1450	0.1450	0.14	0.14	0.1420	0.1360	0.1310	0.1280
HEPTANE	0.1140	0.06	0.07	0.0730	0.0740	0.0780	0.0880	0.0870	0.0860	0.0850
TRICHLOROETHENE	0.1380	0.1050	0.1020	0.1050	0.1030	0.1040	0.1090	0.1070	0.1070	0.1090
1,2-DICHLOROPROPANE	0.1440	0.1070	0.1170	0.1140	0.1110	0.1140	0.1180	0.1130	0.11	0.1070
METHYL METHACRYLATE	0.0990	0.0770	0.0770	0.0760	0.0760	0.0780	0.0880	0.0910	0.0920	0.09
BROMODICHLOROMETHANE	0.2480	0.1920	0.1930	0.1920	0.1810	0.1840	0.1870	0.18	0.1790	0.1750
CIS-1,3-DICHLOROPROPENE	0.1720	0.1250	0.1290	0.1280	0.1350	0.1410	0.1560	0.1650	0.1680	0.1620
4-METHYL-2-PENTANONE (MIBK)	0.3010	0.2230	0.2190	0.2280	0.2360	0.2470	0.2730	0.2760	0.2690	0.2530
TRANS-1,3-DICHLOROPROPENE	0.1360	0.0990	0.11	0.1080	0.11	0.1160	0.1270	0.1310	0.1330	0.1320
1,1,2-TRICHLOROETHANE	0.1250	0.0910	0.09	0.0920	0.0890	0.09	0.0920	0.09	0.09	0.09
METHYL BUTYL KETONE	0.2360	0.1710	0.1820	0.1930	0.1970	0.2130	0.2330	0.2410	0.2330	0.22
CHLORODIBROMOMETHANE	0.1930	0.1410	0.1490	0.1440	0.1440	0.1460	0.1520	0.1490	0.1520	0.1550
1,2-DIBROMOETHANE	0.1660	0.1140	0.1280	0.1240	0.1250	0.1270	0.1340	0.13	0.1310	0.1350
CHLOROBENZENE	0.2670	0.2030	0.1970	0.19	0.1850	0.1890	0.1920	0.1890	0.1850	0.1870
ETHYLBENZENE	0.5060	0.3740	0.3680	0.3730	0.37	0.3930	0.4030	0.3950	0.4130	0.3980
M&P-XYLENE	0.3360	0.2510	0.2570	0.2750	0.2960	0.3030	0.3190	0.3210	0.3280	0.3110
O-XYLENE	0.3260	0.2230	0.2360	0.2510	0.2620	0.2840	0.3080	0.3160	0.3270	0.3240
STYRENE	0.2240	0.1590	0.1660	0.1820	0.1920	0.2090	0.2250	0.2280	0.2340	0.2370
BROMOFORM	0.2210	0.1590	0.1540	0.1610	0.1540	0.1560	0.1650	0.1650	0.1780	0.1790
ISOPROPYLBENZENE	0.38	0.2780	0.2960	0.3220	0.3520	0.3840	0.3950	0.4080	0.4290	0.4230
1,1,2,2-TETRACHLOROETHANE	0.3820	0.2740	0.2750	0.2740	0.27	0.2740	0.26	0.2480	0.2530	0.2410
4-ETHYLTOLUENE	0.4450	0.3040	0.3270	0.3430	0.3650	0.3840	0.4130	0.43	0.4470	0.4330
1,3,5-TRIMETHYLBENZENE	0.3640	0.2660	0.2880	0.3150	0.3250	0.3360	0.3570	0.3360	0.3580	0.3610
1,2,4-TRIMETHYLBENZENE	0.3410	0.2540	0.2780	0.3040	0.3280	0.3350	0.3540	0.3620	0.3770	0.3770

6A-OR GC/MS INITIAL CALIBRATION DATA

SDG: L1731355 **Analytical Method:** TO-15

Instrument ID: AIRMS13

Analyte	**RRF: .19**	**RRF: .31**	**RRF: .63**	**RRF: 1.25**	**RRF: 2.5**	**RRF: 3.75**	**RRF: 10**	**RRF: 25**	**RRF: 50**	**RRF: 100**
Analysis date/time	04/30/24 16:23	04/30/24 17:04	04/30/24 17:45	04/30/24 18:26	04/30/24 19:09	04/30/24 19:52	04/30/24 20:34	04/30/24 21:16	04/30/24 22:02	04/30/24 22:51
1,3-DICHLOROBENZENE	0.2820	0.22	0.2190	0.2220	0.2230	0.2270	0.2280	0.2210	0.2370	0.2340
1,4-DICHLOROBENZENE	0.2830	0.2140	0.2230	0.2270	0.2320	0.2360	0.2260	0.2280	0.2380	0.2370
BENZYL CHLORIDE	0.3940	0.3080	0.3090	0.3270	0.3360	0.3520	0.3520	0.34	0.3720	0.3650
1,2-DICHLOROBENZENE	0.2860	0.21	0.2070	0.2180	0.22	0.2240	0.2210	0.2180	0.2250	0.2210
1,2,4-TRICHLOROBENZENE	0.2370	0.1790	0.1690	0.1770	0.1830	0.1970	0.20	0.2080	0.2230	0.2250
HEXACHLORO-1,3-BUTADIENE	0.2460	0.1750	0.1890	0.1820	0.1780	0.1820	0.1790	0.1810	0.1940	0.1910
NAPHTHALENE	0.5090	0.3860	0.4180	0.4360	0.4750	0.5140	0.5130	0.55	0.5790	0.5620
1,4-BROMOFLUOROBENZENE	0.8190	0.7920	0.8170	0.8210	0.84	0.8250	0.8070	0.79	0.8060	0.8060
PROPENE		0.3450	0.3080	0.3060	0.2950	0.3050	0.3080	0.2910	0.2750	0.2640
1,3-BUTADIENE		0.3160	0.3040	0.2720	0.2620	0.2740	0.2730	0.2680	0.2630	0.2530
ACETONE		0.2190	0.1910	0.1670	0.1540	0.1680	0.1640	0.1640	0.1610	0.1530
2-PROPANOL		0.8190	0.7090	0.6810	0.6880	0.6980	0.7460	0.7540	0.7580	0.6970
ETHANOL			0.2360	0.20	0.1640	0.1610	0.16	0.1510	0.1490	0.14
File ID:	0430A_03	0430A_04	0430A_05	0430A_06	0430A_07	0430A_08	0430A_09	0430A_10	0430A_11	0430A_12

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1731355 **Analytical Method:** TO-15

Instrument ID: AIRMS13

Analyte Analysis date/time	RRF. Avg	%RSD	COD
DICHLORODIFLUOROMETHANE	0.762059	23.52	
1,2-DICHLOROTETRAFLUOROETHANE	0.821031	14.19	
CHLOROMETHANE	0.360958	14.86	
VINYL CHLORIDE	0.38172	13.14	
BROMOMETHANE	0.323967	19.74	
CHLOROETHANE	0.179459	17.09	
VINYL BROMIDE	0.285223	14.28	
TRICHLOROFLUOROMETHANE	0.879565	14.11	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.676624	14.62	
1,1-DICHLOROETHENE	0.600975	13.18	
CARBON DISULFIDE	1.02084	22.09	
METHYLENE CHLORIDE	0.511841	16.25	
METHYL TERT-BUTYL ETHER	0.804045	10.88	
TRANS-1,2-DICHLOROETHENE	0.517594	11.11	
1,1-DICHLOROETHANE	0.666433	11.7	
VINYL ACETATE	0.966242	15.29	
ETHYL ACETATE	0.08677	11.7	
2-BUTANONE (MEK)	0.153032	10.43	
CIS-1,2-DICHLOROETHENE	0.610244	10.66	
TETRAHYDROFURAN	0.45998	13.11	
CHLOROFORM	0.758995	17.55	
CYCLOHEXANE	0.341492	12.56	
1,1,1-TRICHLOROETHANE	0.659499	13.07	
CARBON TETRACHLORIDE	0.665434	12.25	
2,2,4-TRIMETHYLPENTANE	1.588809	11.21	
BENZENE	0.267278	8.17	
1,2-DICHLOROETHANE	0.143157	9.46	
HEPTANE	0.081569	17.58	
TRICHLOROETHENE	0.108769	9.7	
1,2-DICHLOROPROPANE	0.115574	9.08	
METHYL METHACRYLATE	0.084439	10.07	
BROMODICHLOROMETHANE	0.191005	11	
CIS-1,3-DICHLOROPROPENE	0.148237	12.39	
4-METHYL-2-PENTANONE (MIBK)	0.252473	10.7	
TRANS-1,3-DICHLOROPROPENE	0.12028	10.93	
1,1,2-TRICHLOROETHANE	0.093899	11.76	
METHYL BUTYL KETONE	0.211744	11.69	
CHLORODIBROMOMETHANE	0.152442	9.74	
1,2-DIBROMOETHANE	0.131375	10.34	
CHLOROBENZENE	0.198345	12.56	
ETHYLBENZENE	0.3993	10.16	
M&P-XYLENE	0.299853	9.87	
O-XYLENE	0.285527	13.95	
STYRENE	0.205692	14.13	
BROMOFORM	0.169138	11.91	
ISOPROPYLBENZENE	0.366699	14.37	
1,1,2,2-TETRACHLOROETHANE	0.275195	14.29	
4-ETHYLTOLUENE	0.389081	13.43	
1,3,5-TRIMETHYLBENZENE	0.330602	9.97	
1,2,4-TRIMETHYLBENZENE	0.330931	12.4	
1,3-DICHLOROBENZENE	0.231239	8.11	

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1731355 **Analytical Method:** TO-15

Instrument ID: AIRMS13

Analyte Analysis date/time	RRF. Avg	%RSD	COD
1,4-DICHLOROBENZENE	0.234404	7.97	
BENZYL CHLORIDE	0.345428	7.92	
1,2-DICHLOROBENZENE	0.224971	9.86	
1,2,4-TRICHLOROBENZENE	0.199703	11.57	
HEXACHLORO-1,3-BUTADIENE	0.189682	10.92	
NAPHTHALENE	0.494177	12.99	
1,4-BROMOFLUOROBENZENE	0.812444	1.87	
PROPENE	0.299731	7.7	
1,3-BUTADIENE	0.276026	7.41	
ACETONE	0.171047	12.22	
2-PROPANOL	0.727604	6.19	
ETHANOL	0.170028	18.82	

Response Factor Report AIRMS13

Method Path : C:\msdchem\1\methods\
Method File : TOAIRMS13D30X.M
Title :
Last Update : Wed May 01 08:16:57 2024
Response Via : Initial Calibration

Calibration Files
2.5 =0430A_07.D .19 =0430A_03.D .31 =0430A_04.D .63 =0430A_05.D 1.25=0430A_06.D 3.75=0430A_08.D 10 =0430A_09.D
25 =0430A_10.D 50 =0430A_11.D 100 =0430A_12.D

	Compound	2.5	.19	.31	.63	1.25	3.75	10	25	50	100	Avg	%RSD
1)	I Bromochloromethane	----------ISTD----------											
2)	H,N,MTPH (GC/MS) Lo...	2.456	3.999	2.890	2.643	2.529	2.483	2.593	2.537	2.567	2.474	2.717	17.21
3)	H,N,MTPH-GRO (C5-C10)	2.156		2.997	2.501	2.283	2.135	2.211	2.148	2.167	2.083	2.298	12.60
4)	H,N,MTHC as Gas (C4...	2.438			3.477	2.800	2.367	2.300	2.205	2.216	2.142	2.493	17.95
5)	T,M Propene	0.295		0.345	0.308	0.306	0.305	0.308	0.291	0.275	0.264	0.300	7.70
6)	T BUTANE	0.610	1.054	0.705	0.685	0.628	0.609	0.615	0.577	0.554	0.526	0.656	22.81
7)	1,1-DIFLUOROET...	0.206		0.263	0.221	0.212	0.201	0.200	0.189	0.184	0.178	0.206	12.29
8)	T,M Dichlorodifluo...	0.786	1.086	0.884	0.824	0.810	0.735	0.793	0.703	0.599	0.400	0.762	23.52
9)	CHLORODIFLUORO...	0.088		0.087	0.088	0.089	0.087	0.086	0.081	0.080	0.078	0.085	4.78
10)	T,M 1,2-Dichlorote...	0.788	1.133	0.867	0.816	0.792	0.788	0.801	0.754	0.752	0.720	0.821	14.19
11)	T,M Chloromethane	0.357	0.488	0.395	0.376	0.366	0.346	0.349	0.327	0.309	0.297	0.361	14.86
12)	T,M Vinyl Chloride	0.373	0.517	0.392	0.380	0.374	0.370	0.367	0.357	0.351	0.336	0.382	13.14
13)	T,M 1,3-Butadiene	0.262		0.316	0.304	0.272	0.274	0.273	0.268	0.263	0.253	0.276	7.41
14)	T,M Bromomethane	0.301	0.495	0.357	0.328	0.304	0.296	0.298	0.284	0.294	0.282	0.324	19.74
15)	T,M Chloroethane	0.174	0.257	0.195	0.194	0.167	0.167	0.167	0.161	0.159	0.153	0.179	17.09
16)	T ISOPENTANE	0.434	0.639	0.524	0.480	0.449	0.442	0.446	0.438	0.427	0.412	0.469	14.38
17)	T,M Vinyl Bromide	0.259	0.398	0.292	0.277	0.274	0.263	0.268	0.270	0.277	0.273	0.285	14.28
18)	T,M Trichlorofluor...	0.836	1.219	0.904	0.896	0.830	0.840	0.847	0.805	0.819	0.799	0.880	14.11
19)	T PENTANE	0.642	0.982	0.700	0.707	0.633	0.650	0.673	0.658	0.643	0.617	0.690	15.42
20)	T,M Ethanol	0.164			0.236	0.200	0.161	0.160	0.151	0.149	0.140	0.170	18.82
21)	T ACROLEIN	0.148		0.242	0.175	0.154	0.155	0.160	0.155	0.163	0.148	0.167	17.70
22)	T,M 1,1,2-Trichlor...	0.654	0.938	0.693	0.702	0.668	0.644	0.653	0.608	0.628	0.579	0.677	14.62
23)	T,M 1,1-Dichloroet...	0.553	0.802	0.665	0.601	0.592	0.568	0.571	0.558	0.567	0.532	0.601	13.18
24)	T,M Acetone	0.154		0.219	0.191	0.167	0.168	0.164	0.164	0.161	0.153	0.171	12.22
25)	T BROMOETHANE	0.213	0.311	0.246	0.215	0.216	0.218	0.226	0.225	0.231	0.223	0.232	12.62
26)	T,M 2-Propanol	0.688		0.819	0.709	0.681	0.698	0.746	0.754	0.758	0.697	0.728	6.19
27)	T,M Carbon Disulfide	0.909	1.614	1.166	1.038	0.946	0.922	0.934	0.904	0.899	0.877	1.021	22.09
28)	T,M Allyl Chloride	0.129	0.153	0.145	0.132	0.127	0.132	0.140	0.140	0.146	0.144	0.139	6.18
29)	T METHYL ACETATE	0.771	1.202	0.806	0.810	0.798	0.789	0.807	0.766	0.761	0.698	0.821	16.82
30)	T ACETONITRILE	0.391		0.585	0.472	0.413	0.391	0.382	0.360	0.349	0.320	0.407	19.47
31)	T,M Methylene Chlo...	0.476	0.730	0.542	0.523	0.515	0.487	0.484	0.467	0.462	0.432	0.512	16.25
32)	TERT-BUTYL ALC...	0.655	0.898	0.697	0.666	0.661	0.684	0.735	0.766	0.782	0.737	0.728	10.22
33)	T,M Methyl Tert-Bu...	0.737	0.985	0.760	0.705	0.711	0.754	0.815	0.850	0.869	0.854	0.804	10.88
34)	T,M Trans-1,2-Dich...	0.497	0.673	0.506	0.488	0.463	0.491	0.519	0.515	0.524	0.499	0.518	11.11
35)	T ACRYLONITRILE	0.292	0.414	0.335	0.314	0.283	0.297	0.297	0.298	0.302	0.284	0.311	12.59
36)	T,M n-Hexane	0.443	0.588	0.450	0.449	0.441	0.472	0.517	0.535	0.544	0.522	0.496	10.44
37)	T,M 1,1-Dichloroet...	0.634	0.879	0.687	0.648	0.637	0.653	0.653	0.639	0.636	0.598	0.666	11.70

Method Path : C:\msdchem\1\methods\
Method File : TOAIRMS13D30X.M
Title :

38)	T,M	Vinyl Acetate	0.896	1.103	0.745	0.778	0.832	0.942	1.041	1.121	1.146	1.057	0.966	15.29
39)	T	DI-ISOPROPYL E...	1.126	1.469	1.066	1.109	1.089	1.164	1.290	1.332	1.327	1.233	1.221	10.80
40)	T	ETHYL TERT-BUT...	0.878	1.157	0.889	0.857	0.876	0.917	1.012	1.074	1.080	1.049	0.979	11.01
41)		ETHYL ACETATE	0.080	0.114	0.086	0.079	0.084	0.078	0.085	0.086	0.088	0.087	0.087	11.70
42)	T,M	2-Butanone (MEK)	0.143	0.185	0.124	0.148	0.151	0.142	0.159	0.159	0.163	0.156	0.153	10.43
43)	T,M	cis-1,2-Dichlo...	0.568	0.782	0.605	0.560	0.564	0.571	0.620	0.620	0.620	0.593	0.610	10.66
44)	T,M	Tetrahydrofuran	0.422	0.622	0.444	0.420	0.429	0.438	0.469	0.476	0.456	0.423	0.460	13.11
45)	T,M	Chloroform	0.715	1.125	0.773	0.765	0.726	0.713	0.727	0.701	0.689	0.656	0.759	17.55
46)	T,M	Cyclohexane	0.299	0.401	0.302	0.298	0.295	0.319	0.357	0.378	0.386	0.380	0.341	12.56
47)	T,M	1,1,1-Trichlor...	0.610	0.899	0.661	0.659	0.638	0.623	0.649	0.624	0.622	0.608	0.659	13.07
48)	T,M	Carbon Tetrach...	0.617	0.894	0.666	0.645	0.646	0.630	0.647	0.633	0.647	0.629	0.665	12.25
49)	T,M	2,2,4-Trimethy...	1.376	1.862	1.432	1.447	1.390	1.504	1.688	1.724	1.780	1.686	1.589	11.21
50)	I	1,4-Difluorobenzene	----------ISTD----------											
51)	T,M	Benzene	0.255	0.326	0.263	0.254	0.267	0.270	0.270	0.263	0.257	0.249	0.267	8.17
52)	T	TERT-AMYL METH...	0.206	0.242	0.202	0.193	0.205	0.220	0.236	0.244	0.245	0.244	0.224	9.27
53)	T,M	1,2-Dichloroet...	0.140	0.177	0.148	0.145	0.145	0.140	0.142	0.136	0.131	0.128	0.143	9.46
54)	T,M	Heptane	0.074	0.114	0.060	0.070	0.073	0.078	0.088	0.087	0.086	0.085	0.082	17.58
55)	T,M	Trichloroethene	0.103	0.138	0.105	0.102	0.105	0.104	0.109	0.107	0.107	0.109	0.109	9.70
56)		TERT-AMYL ETHY...	0.060	0.079	0.059	0.059	0.058	0.064	0.073	0.076	0.077	0.078	0.068	13.13
57)		METHYL CYCLOHE...	0.127	0.145	0.107	0.108	0.115	0.128	0.140	0.141	0.143	0.142	0.130	11.48
58)	T,M	1,2-Dichloropr...	0.111	0.144	0.107	0.117	0.114	0.114	0.118	0.113	0.110	0.107	0.116	9.08
59)	T,M	Methyl Methacr...	0.076	0.099	0.077	0.077	0.076	0.078	0.088	0.091	0.092	0.090	0.084	10.07
60)	T,M	1,4-Dioxane	0.044	0.052	0.039	0.039	0.043	0.048	0.051	0.052	0.053	0.054	0.047	11.87
61)	T,M	Bromodichlorom...	0.181	0.248	0.192	0.193	0.192	0.184	0.187	0.180	0.179	0.175	0.191	11.00
62)	T,M	cis-1,3-Dichlo...	0.135	0.172	0.125	0.129	0.128	0.141	0.156	0.165	0.168	0.162	0.148	12.39
63)	T,M	4-Methyl-2-Pen...	0.236	0.301	0.223	0.219	0.228	0.247	0.273	0.276	0.269	0.253	0.252	10.70
64)	T	n-OCTANE	0.236	0.245	0.184	0.204	0.219	0.254	0.278	0.281	0.275	0.257	0.243	13.43
65)	T,M	Toluene	0.271	0.340	0.252	0.254	0.270	0.283	0.296	0.298	0.298	0.299	0.286	9.17
66)	T,M	trans-1,3-Dich...	0.110	0.136	0.099	0.110	0.108	0.116	0.127	0.131	0.133	0.132	0.120	10.93
67)	T,M	1,1,2-Trichlor...	0.089	0.125	0.091	0.090	0.092	0.090	0.092	0.090	0.090	0.090	0.094	11.76
68)	T,M	Tetrachloroethene	0.097	0.129	0.097	0.098	0.098	0.099	0.106	0.104	0.106	0.108	0.104	9.32
69)	T,M	Methyl Butyl K...	0.197	0.236	0.171	0.182	0.193	0.213	0.233	0.241	0.233	0.220	0.212	11.69
70)	T,M	Chlorodibromom...	0.144	0.193	0.141	0.149	0.144	0.146	0.152	0.149	0.152	0.155	0.152	9.74
71)	T,M	1,2-Dibromoethane	0.125	0.166	0.114	0.128	0.124	0.127	0.134	0.130	0.131	0.135	0.131	10.34
72)	T,M	Chlorobenzene	0.185	0.267	0.203	0.197	0.190	0.189	0.192	0.189	0.185	0.187	0.198	12.56
73)	T	NONANE	0.209	0.302	0.229	0.209	0.212	0.219	0.233	0.234	0.218	0.208	0.227	12.32
74)	I	Chlorobenzene-d5	----------ISTD----------											
75)	T,M	Ethylbenzene	0.370	0.506	0.374	0.368	0.373	0.393	0.403	0.395	0.413	0.398	0.399	10.16
76)	T,M	M&P-Xylene	0.296	0.336	0.251	0.257	0.275	0.303	0.319	0.321	0.328	0.311	0.300	9.87
77)	T,M	O-Xylene	0.262	0.326	0.223	0.236	0.251	0.284	0.308	0.316	0.327	0.324	0.286	13.95
78)		TOTAL XYLENES											0.000	-1.00
79)		XYLENES, TOTAL											0.000	-1.00
80)	T,M	Styrene	0.192	0.224	0.159	0.166	0.182	0.209	0.225	0.228	0.234	0.237	0.206	14.13
81)	T,M	Bromoform	0.154	0.221	0.159	0.154	0.161	0.156	0.165	0.165	0.178	0.179	0.169	11.91
82)	T,M	Isopropylbenzene	0.352	0.380	0.278	0.296	0.322	0.384	0.395	0.408	0.429	0.423	0.367	14.37

Method Path : C:\msdchem\1\methods\
Method File : TOAIRMS13D30X.M
Title :

83)	T	n-DECANE	0.288	0.335	0.233	0.256	0.272	0.308	0.316	0.308	0.294	0.268	0.288	10.71
84)	T,M	1,1,2,2-Tetrac...	0.270	0.382	0.274	0.275	0.274	0.274	0.260	0.248	0.253	0.241	0.275	14.29
85)	T,M	n-Propylbenzene	0.525	0.664	0.470	0.488	0.521	0.547	0.552	0.543	0.549	0.539	0.540	9.52
86)	T,M	4-Ethyltoluene	0.365	0.445	0.304	0.327	0.343	0.384	0.413	0.430	0.447	0.433	0.389	13.43
87)	T,M	2-Chlorotoluene	0.374	0.442	0.357	0.352	0.367	0.372	0.380	0.365	0.383	0.382	0.377	6.57
88)	S	1,4-Bromofluor...	0.840	0.819	0.792	0.817	0.821	0.825	0.807	0.790	0.806	0.806	0.812	1.87
89)	T,M	1,3,5-Trimethy...	0.325	0.364	0.266	0.288	0.315	0.336	0.357	0.336	0.358	0.361	0.331	9.97
90)	T,M	tert-Butylbenzene	0.262	0.305	0.225	0.227	0.253	0.280	0.304	0.308	0.325	0.318	0.281	13.16
91)	T,M	1,2,4-Trimethy...	0.328	0.341	0.254	0.278	0.304	0.335	0.354	0.362	0.377	0.377	0.331	12.40
92)	T,M	sec-Butylbenzene	0.460	0.513	0.387	0.408	0.428	0.492	0.508	0.511	0.546	0.529	0.478	11.38
93)	T,M	1,3-Dichlorobe...	0.223	0.282	0.220	0.219	0.222	0.227	0.228	0.221	0.237	0.234	0.231	8.11
94)	T	P-ISOPROPYLTOL...	0.360	0.394	0.307	0.315	0.343	0.395	0.412	0.422	0.435	0.437	0.382	12.59
95)	T,M	1,4-Dichlorobe...	0.232	0.283	0.214	0.223	0.227	0.236	0.226	0.228	0.238	0.237	0.234	7.97
96)		1,2,3-TRIMETHY...	0.332	0.368	0.275	0.271	0.299	0.350	0.350	0.366	0.387	0.385	0.338	12.72
97)	T,M	Benzyl Chloride	0.336	0.394	0.308	0.309	0.327	0.352	0.352	0.340	0.372	0.365	0.345	7.92
98)	T,M	n-Butylbenzene	0.429	0.493	0.354	0.380	0.404	0.453	0.466	0.463	0.470	0.447	0.436	10.05
99)	T,M	1,2-Dichlorobe...	0.220	0.286	0.210	0.207	0.218	0.224	0.221	0.218	0.225	0.221	0.225	9.86
100)	T	1,2-DIBROMO-3-...	0.113	0.151	0.114	0.111	0.113	0.120	0.118	0.119	0.126	0.126	0.121	9.62
101)	T,M	1,2,4-Trichlor...	0.183	0.237	0.179	0.169	0.177	0.197	0.200	0.208	0.223	0.225	0.200	11.57
102)	T,M	Hexachloro-1,3...	0.178	0.246	0.175	0.189	0.182	0.182	0.179	0.181	0.194	0.191	0.190	10.92
103)	T,M	Naphthalene	0.475	0.509	0.386	0.418	0.436	0.514	0.513	0.550	0.579	0.562	0.494	12.99

(#) = Out of Range

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_03.D
Acq On : 30 Apr 2024 4:23 pm
Operator :
Sample : STD AMS 0.19 ppbv 24D28181
Misc : 24D29341
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:00:58 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Thu Apr 25 08:52:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.433	130	144969	4.0000000	ppbv		0.00
50) 1,4-Difluorobenzene	10.439	114	544736	4.0000000	ppbv		0.00
74) Chlorobenzene-d5	13.591	117	429927	4.0000000	ppbv		0.00
System Monitoring Compounds							
88) 1,4-Bromofluorobenzene	14.743	95	352285	4.0493857	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 101.23%				
Target Compounds						Qvalue	
2) TPH (GC/MS) Low Fraction	10.430	TIC	1294266m	12.2619653	ppbv		
3) TPH-GRO (C5-C10)	10.430	TIC	1951309m	21.6885843	ppbv		
4) THC as Gas (C4-C12)	10.430	TIC	4670530m	46.3435874	ppbv		
5) Propene	4.251	41	3363	0.2379458	ppbv		95
6) BUTANE	4.959	43	7255	0.3453966	ppbv		99
7) 1,1-DIFLUOROETHANE	4.276	65	2941	0.3211568	ppbv		94
8) Dichlorodifluoromethane	4.331	85	7476	0.2464651	ppbv		100
9) CHLORODIFLUOROMETHANE	4.392	67	919	0.2728096	ppbv		82
10) 1,2-Dichlorotetrafluor...	4.623	85	7799	0.2304544	ppbv		99
11) Chloromethane	4.788	50	3361	0.2180539	ppbv		96
12) Vinyl Chloride	5.013	62	3563	0.2738798	ppbv		93
13) 1,3-Butadiene	5.074	54	2777	0.2818186	ppbv		86
14) Bromomethane	5.684	94	3406	0.3144768	ppbv		89
15) Chloroethane	5.855	64	1770	0.3053723	ppbv	#	85
16) ISOPENTANE	5.891	43	4403	0.2749448	ppbv	#	92
17) Vinyl Bromide	6.160	106	2743	0.2760242	ppbv		98
18) Trichlorofluoromethane	6.214	101	8393	0.3049004	ppbv		100
19) PENTANE	6.288	43	6765	0.2861755	ppbv	#	92
20) Ethanol	6.580	45	3423	0.5723325	ppbv		94
21) ACROLEIN	6.946	56	1903	0.3051772	ppbv	#	72
22) 1,1,2-Trichlorotrifluo...	6.915	101	6458	0.2846147	ppbv		98
23) 1,1-Dichloroethene	6.995	61	5523	0.2426801	ppbv		96
24) Acetone	7.159	58	2247	0.2970677	ppbv		98
25) BROMOETHANE	7.275	108	2142	0.2282838	ppbv		98
26) 2-Propanol	7.287	45	7654	0.2248940	ppbv	#	79
27) Carbon Disulfide	7.336	76	11113	0.2793291	ppbv	#	80
28) Allyl Chloride	7.501	76	1054	0.1691711	ppbv		73
29) METHYL ACETATE	7.513	43	8280	0.2389707	ppbv	#	94
30) ACETONITRILE	7.592	41	30014	1.7958804	ppbv		97
31) Methylene Chloride	7.684	49	5028	0.2479932	ppbv	#	96
32) TERT-BUTYL ALCOHOL	7.793	59	6186	0.1883049	ppbv	#	86
33) Methyl Tert-Butyl Ether	7.934	73	6782	0.1859031	ppbv		97
34) Trans-1,2-Dichloroethene	7.958	61	4637	0.2133533	ppbv		90
35) ACRYLONITRILE	8.049	53	2854	0.2161149	ppbv		93
36) n-Hexane	8.147	57	4049	0.1714841	ppbv	#	69
37) 1,1-Dichloroethane	8.501	63	6056	0.2235972	ppbv		96
38) Vinyl Acetate	8.470	43	7598	0.1634033	ppbv	#	95
39) DI-ISOPROPYL ETHER	8.421	45	10119	0.1710673	ppbv	#	78
40) ETHYL TERT-BUTYL ETHER	8.824	59	7967	0.1712876	ppbv		96
41) ETHYL ACETATE	9.116	70	784	0.2038210	ppbv		94

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_03.D
Acq On : 30 Apr 2024 4:23 pm
Operator :
Sample : STD AMS 0.19 ppbv 24D28181
Misc : 24D29341
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:00:58 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Thu Apr 25 08:52:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
42) 2-Butanone (MEK)	9.153	72	1276	0.1832007 ppbv		91
43) cis-1,2-Dichloroethene	9.147	61	5384	0.2027537 ppbv		92
44) Tetrahydrofuran	9.452	42	4285	0.1979376 ppbv		93
45) Chloroform	9.458	83	7750	0.2674820 ppbv		92
46) Cyclohexane	9.671	84	2763	0.1698896 ppbv	#	84
47) 1,1,1-Trichloroethane	9.671	97	6190	0.2523793 ppbv		98
48) Carbon Tetrachloride	9.817	117	6158	0.2604879 ppbv		97
49) 2,2,4-Trimethylpentane	9.976	57	12824	0.1638492 ppbv	#	84
51) Benzene	10.073	78	8436	0.2043470 ppbv	#	89
52) TERT-AMYL METHYL ETHER	10.086	73	6254	0.1647158 ppbv	#	88
53) 1,2-Dichloroethane	10.147	62	4583	0.2394461 ppbv		96
54) Heptane	10.140	71	2938	0.2087385 ppbv	#	76
55) Trichloroethene	10.738	95	3571	0.2114585 ppbv		99
56) TERT-AMYL ETHYL ETHER	10.854	73	2040	0.1660105 ppbv		84
57) METHYL CYCLOHEXANE	10.896	83	3760	0.1715985 ppbv	#	77
58) 1,2-Dichloropropane	11.049	63	3718	0.2046411 ppbv		93
59) Methyl Methacrylate	11.012	69	2569	0.1743300 ppbv	#	84
60) 1,4-Dioxane	11.146	88	1336	0.1602284 ppbv	#	74
61) Bromodichloromethane	11.305	83	6423	0.2400866 ppbv		95
62) cis-1,3-Dichloropropene	11.786	75	4457	0.1730260 ppbv		91
63) 4-Methyl-2-Pentanone (...	11.902	43	7794	0.1787013 ppbv	#	93
64) n-OCTANE	12.030	43	6350	0.1416649 ppbv		97
65) Toluene	12.134	91	8808	0.1890526 ppbv		92
66) trans-1,3-Dichloropropene	12.402	75	3525	0.1750130 ppbv		94
67) 1,1,2-Trichloroethane	12.628	97	3239	0.2301703 ppbv		97
68) Tetrachloroethene	12.725	166	3342	0.2115361 ppbv		94
69) Methyl Butyl Ketone	12.798	43	6096	0.1664570 ppbv	#	93
70) Chlorodibromomethane	13.042	129	4990	0.2397374 ppbv		96
71) 1,2-Dibromoethane	13.207	107	4297	0.2184908 ppbv		95
72) Chlorobenzene	13.621	112	6920	0.2492834 ppbv	#	1
73) NONANE	13.597	43	7805	0.2137737 ppbv	#	98
75) Ethylbenzene	13.652	91	10335	0.1996166 ppbv		99
76) M&P-Xylene	13.756	91	13742	0.3450838 ppbv		99
77) O-Xylene	14.170	91	6657	0.1656406 ppbv		99
80) Styrene	14.188	104	4577	0.1651165 ppbv		94
81) Bromoform	14.457	173	4503	0.2415920 ppbv		99
82) Isopropylbenzene	14.499	105	7754	0.1527506 ppbv	#	93
83) n-DECANE	14.914	43	6851	0.1755595 ppbv		97
84) 1,1,2,2-Tetrachloroethane	14.859	83	7791	0.2349992 ppbv		99
85) n-Propylbenzene	14.914	91	13550	0.2012314 ppbv		98
86) 4-Ethyltoluene	15.024	105	9090	0.1745808 ppbv		98
87) 2-Chlorotoluene	15.079	91	9021	0.1960063 ppbv		97
89) 1,3,5-Trimethylbenzene	15.079	105	7430	0.1789911 ppbv		94
90) tert-Butylbenzene	15.408	119	6231	0.1685371 ppbv		91
91) 1,2,4-Trimethylbenzene	15.463	105	6966	0.1599428 ppbv		99
92) sec-Butylbenzene	15.621	105	10473	0.1665460 ppbv	#	91
93) 1,3-Dichlorobenzene	15.822	146	5755	0.2107214 ppbv		94
94) P-ISOPROPYLTOLUENE	15.737	119	8050	0.1610946 ppbv	#	88
95) 1,4-Dichlorobenzene	15.908	146	5785	0.2126688 ppbv		92
96) 1,2,3-TRIMETHYLBENZENE	15.895	105	7520	0.1712362 ppbv		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_03.D
Acq On : 30 Apr 2024 4:23 pm
Operator :
Sample : STD AMS 0.19 ppbv 24D28181
Misc : 24D29341
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:00:58 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Thu Apr 25 08:52:19 2024
Response via : Initial Calibration

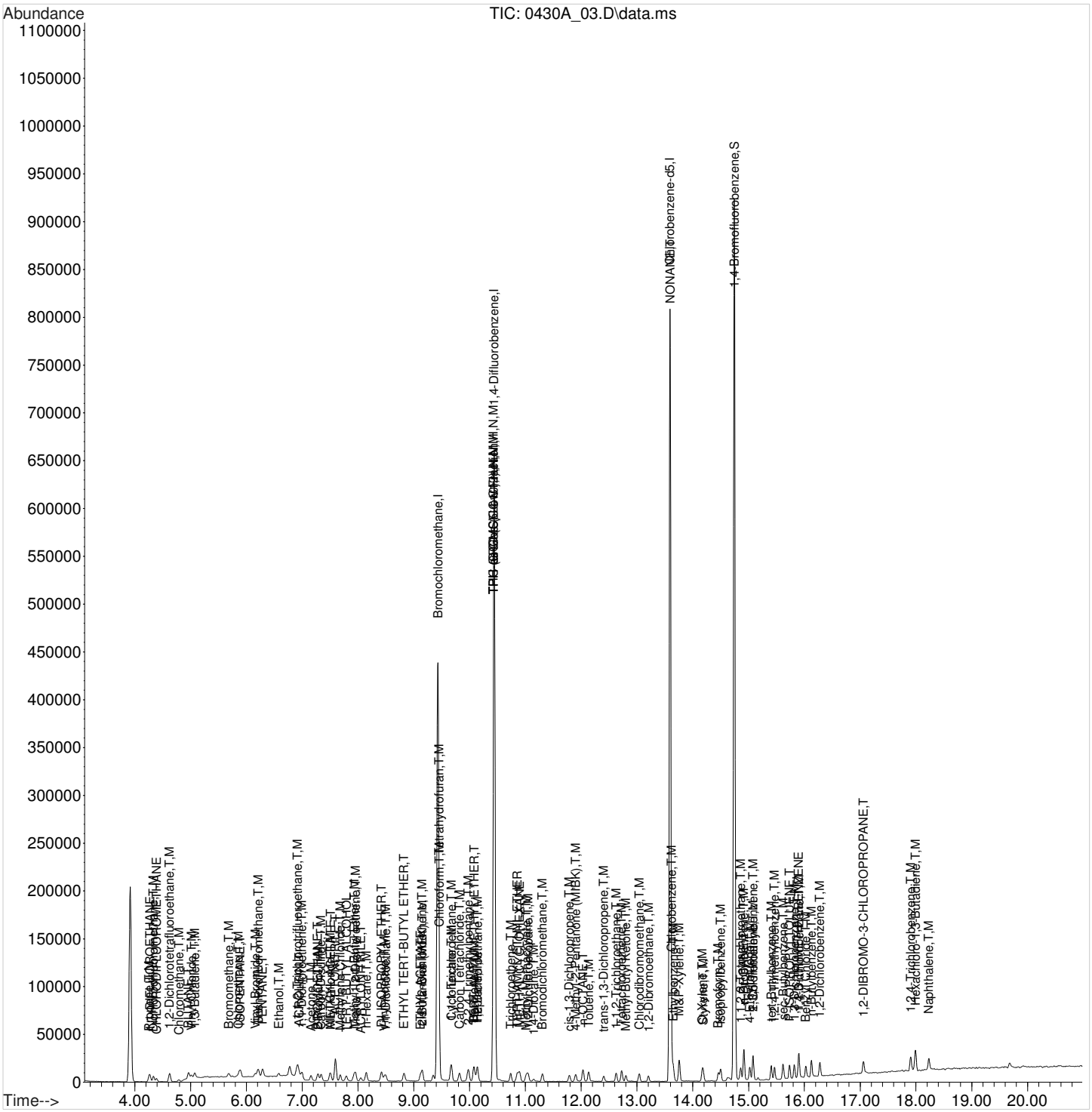
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97) Benzyl Chloride	16.023	91	8040	0.1843289 ppbv	98
98) n-Butylbenzene	16.127	91	10068	0.1804797 ppbv	96
99) 1,2-Dichlorobenzene	16.279	146	5841	0.2193373 ppbv	97
100) 1,2-DIBROMO-3-CHLOROPR...	17.060	157	3083	0.2168460 ppbv	95
101) 1,2,4-Trichlorobenzene	17.907	180	4833	0.2085449 ppbv	98
102) Hexachloro-1,3-Butadiene	17.993	225	5024	0.2518340 ppbv	94
103) Naphthalene	18.230	128	10389	0.1718009 ppbv #	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_03.D
Acq On : 30 Apr 2024 4:23 pm
Operator :
Sample : STD AMS 0.19 ppbv 24D28181
Misc : 24D29341
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:00:58 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Thu Apr 25 08:52:19 2024
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_04.D
Acq On : 30 Apr 2024 5:04 pm
Operator :
Sample : STD AMS 0.31 ppbv 24D28181
Misc : 24D29341
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:02:53 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:02:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.433	130	139121	4.0000000	ppbv		0.00
50) 1,4-Difluorobenzene	10.439	114	537552	4.0000000	ppbv		0.00
74) Chlorobenzene-d5	13.591	117	417263	4.0000000	ppbv		0.00
System Monitoring Compounds							
88) 1,4-Bromofluorobenzene	14.743	95	330397	3.8653318	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 96.63%				
Target Compounds						Qvalue	
2) TPH (GC/MS) Low Fraction	10.430	TIC	1464514m	10.5294096	ppbv		
3) TPH-GRO (C5-C10)	10.430	TIC	2229904m	15.6115256	ppbv		
4) THC as Gas (C4-C12)	10.430	TIC	5058632m	20.3716692	ppbv		
5) Propene	4.257	41	3722	0.2191218	ppbv		89
6) BUTANE	4.959	43	7596	0.2072925	ppbv		97
7) 1,1-DIFLUOROETHANE	4.270	65	2833	0.1907162	ppbv		94
8) Dichlorodifluoromethane	4.331	85	9531	0.2524092	ppbv		98
9) CHLORODIFLUOROMETHANE	4.385	67	937	0.2018646	ppbv		98
10) 1,2-Dichlorotetrafluor...	4.623	85	9348	0.2373099	ppbv		98
11) Chloromethane	4.788	50	4258	0.2508264	ppbv		99
12) Vinyl Chloride	5.007	62	4225	0.2347723	ppbv	#	88
13) 1,3-Butadiene	5.068	54	3402	0.2425462	ppbv		100
14) Bromomethane	5.678	94	3849	0.2237378	ppbv		98
15) Chloroethane	5.855	64	2105	0.2354588	ppbv	#	80
16) ISOPENTANE	5.885	43	5651	0.2541047	ppbv	#	96
17) Vinyl Bromide	6.153	106	3152	0.2275079	ppbv		98
18) Trichlorofluoromethane	6.208	101	9747	0.2299269	ppbv		99
19) PENTANE	6.288	43	7549	0.2209315	ppbv	#	93
20) Ethanol	6.574	45	3693	0.2136035	ppbv		92
21) ACROLEIN	6.946	56	2614	0.2719586	ppbv		88
22) 1,1,2-Trichlorotrifluo...	6.909	101	7469	0.2289815	ppbv		95
23) 1,1-Dichloroethene	6.995	61	7165	0.2568486	ppbv		95
24) Acetone	7.153	58	2357	0.2076790	ppbv		77
25) BROMOETHANE	7.269	108	2649	0.2448491	ppbv		94
26) 2-Propanol	7.281	45	8829	0.2283805	ppbv	#	65
27) Carbon Disulfide	7.336	76	12574m	0.2240156	ppbv		
28) Allyl Chloride	7.495	76	1564	0.2937867	ppbv		90
29) METHYL ACETATE	7.507	43	8692	0.2078382	ppbv	#	99
30) ACETONITRILE	7.592	41	31543	1.0403637	ppbv		98
31) Methylene Chloride	7.678	49	5845	0.2301576	ppbv		95
32) TERT-BUTYL ALCOHOL	7.787	59	7516	0.2405542	ppbv	#	80
33) Methyl Tert-Butyl Ether	7.927	73	8193	0.2391780	ppbv		99
34) Trans-1,2-Dichloroethene	7.958	61	5461	0.2331692	ppbv		98
35) ACRYLONITRILE	8.049	53	3609	0.2503623	ppbv		94
36) n-Hexane	8.147	57	4855	0.2373982	ppbv	#	72
37) 1,1-Dichloroethane	8.501	63	7405	0.2420891	ppbv		99
38) Vinyl Acetate	8.470	43	8037	0.2094261	ppbv		97
39) DI-ISOPROPYL ETHER	8.415	45	11498	0.2249680	ppbv	#	72
40) ETHYL TERT-BUTYL ETHER	8.824	59	9583	0.2381457	ppbv		99
41) ETHYL ACETATE	9.122	70	932	0.2353618	ppbv		98

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_04.D
Acq On : 30 Apr 2024 5:04 pm
Operator :
Sample : STD AMS 0.31 ppbv 24D28181
Misc : 24D29341
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:02:53 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:02:08 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Butanone (MEK)	9.153	72	1340	0.2079171	ppbv		98
43) cis-1,2-Dichloroethene	9.147	61	6520	0.2397610	ppbv		97
44) Tetrahydrofuran	9.458	42	4785	0.2210890	ppbv	#	89
45) Chloroform	9.458	83	8333	0.2128804	ppbv		98
46) Cyclohexane	9.671	84	3254	0.2331700	ppbv	#	87
47) 1,1,1-Trichloroethane	9.665	97	7131	0.2280845	ppbv		99
48) Carbon Tetrachloride	9.817	117	7184	0.2309738	ppbv		97
49) 2,2,4-Trimethylpentane	9.976	57	15444	0.2384363	ppbv	#	88
51) Benzene	10.073	78	10945	0.2498034	ppbv		94
52) TERT-AMYL METHYL ETHER	10.086	73	8433	0.2596232	ppbv	#	91
53) 1,2-Dichloroethane	10.147	62	6145	0.2581614	ppbv		95
54) Heptane	10.134	71	2508	0.1643595	ppbv		76
55) Trichloroethene	10.732	95	4378	0.2360506	ppbv		97
56) TERT-AMYL ETHYL ETHER	10.854	73	2466	0.2327459	ppbv	#	78
57) METHYL CYCLOHEXANE	10.890	83	4457	0.2282307	ppbv	#	70
58) 1,2-Dichloropropane	11.043	63	4478	0.2318963	ppbv	#	96
59) Methyl Methacrylate	11.012	69	3196	0.2395311	ppbv		100
60) 1,4-Dioxane	11.140	88	1641	0.2364946	ppbv		96
61) Bromodichloromethane	11.305	83	8012	0.2401719	ppbv		94
62) cis-1,3-Dichloropropene	11.786	75	5214	0.2252411	ppbv		89
63) 4-Methyl-2-Pentanone (...	11.902	43	9275	0.2291251	ppbv		91
64) n-OCTANE	12.036	43	7683	0.2329573	ppbv		97
65) Toluene	12.134	91	10516	0.2298754	ppbv		97
66) trans-1,3-Dichloropropene	12.402	75	4122	0.2251480	ppbv		91
67) 1,1,2-Trichloroethane	12.628	97	3781	0.2247579	ppbv		95
68) Tetrachloroethene	12.725	166	4041	0.2328100	ppbv		95
69) Methyl Butyl Ketone	12.798	43	7110	0.2245659	ppbv	#	92
70) Chlorodibromomethane	13.042	129	5875	0.2266870	ppbv		96
71) 1,2-Dibromoethane	13.201	107	4737	0.2122547	ppbv		96
72) Chlorobenzene	13.621	112	8442	0.2348867	ppbv	#	28
73) NONANE	13.597	43	9560	0.2358328	ppbv	#	94
75) Ethylbenzene	13.652	91	12096	0.2291236	ppbv		99
76) M&P-Xylene	13.756	91	16246	0.4628763	ppbv		95
77) O-Xylene	14.170	91	7217	0.2122348	ppbv		97
80) Styrene	14.188	104	5135	0.2196332	ppbv		95
81) Bromoform	14.457	173	5129	0.2229817	ppbv		97
82) Isopropylbenzene	14.499	105	8984	0.2268205	ppbv	#	93
83) n-DECANE	14.914	43	7539	0.2154261	ppbv		98
84) 1,1,2,2-Tetrachloroethane	14.859	83	8860	0.2226276	ppbv		92
85) n-Propylbenzene	14.914	91	15196	0.2195475	ppbv		99
86) 4-Ethyltoluene	15.024	105	9820	0.2114882	ppbv		94
87) 2-Chlorotoluene	15.079	91	11545	0.2505404	ppbv		96
89) 1,3,5-Trimethylbenzene	15.079	105	8599	0.2265675	ppbv		94
90) tert-Butylbenzene	15.408	119	7289	0.2290069	ppbv		91
91) 1,2,4-Trimethylbenzene	15.463	105	8226	0.2311765	ppbv		100
92) sec-Butylbenzene	15.615	105	12510	0.2338431	ppbv	#	92
93) 1,3-Dichlorobenzene	15.822	146	7112	0.2419273	ppbv	#	92
94) P-ISOPROPYLTOLUENE	15.737	119	9933	0.2415589	ppbv	#	93
95) 1,4-Dichlorobenzene	15.908	146	6910	0.2338369	ppbv	#	94
96) 1,2,3-TRIMETHYLBENZENE	15.895	105	8885	0.2313013	ppbv		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_04.D
Acq On : 30 Apr 2024 5:04 pm
Operator :
Sample : STD AMS 0.31 ppbv 24D28181
Misc : 24D29341
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:02:53 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:02:08 2024
Response via : Initial Calibration

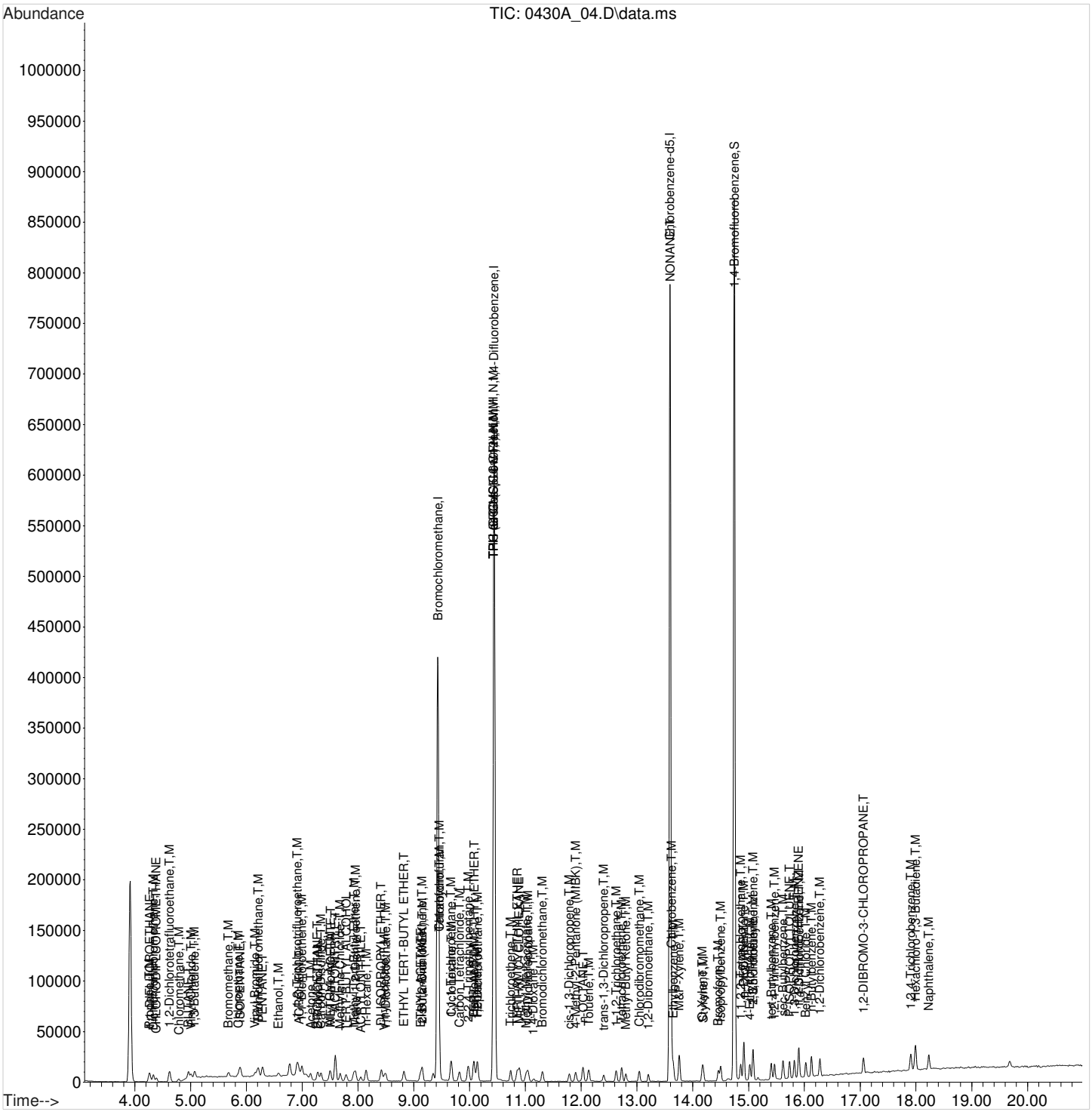
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	16.023	91	9958	0.2424680	ppbv	98
98) n-Butylbenzene	16.127	91	11460	0.2228332	ppbv	100
99) 1,2-Dichlorobenzene	16.279	146	6789	0.2275396	ppbv	96
100) 1,2-DIBROMO-3-CHLOROPR...	17.060	157	3684	0.2339293	ppbv	88
101) 1,2,4-Trichlorobenzene	17.907	180	5774	0.2338829	ppbv	95
102) Hexachloro-1,3-Butadiene	17.993	225	5667	0.2208218	ppbv #	92
103) Naphthalene	18.230	128	12474	0.2350555	ppbv	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_04.D
Acq On : 30 Apr 2024 5:04 pm
Operator :
Sample : STD AMS 0.31 ppbv 24D28181
Misc : 24D29341
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS13

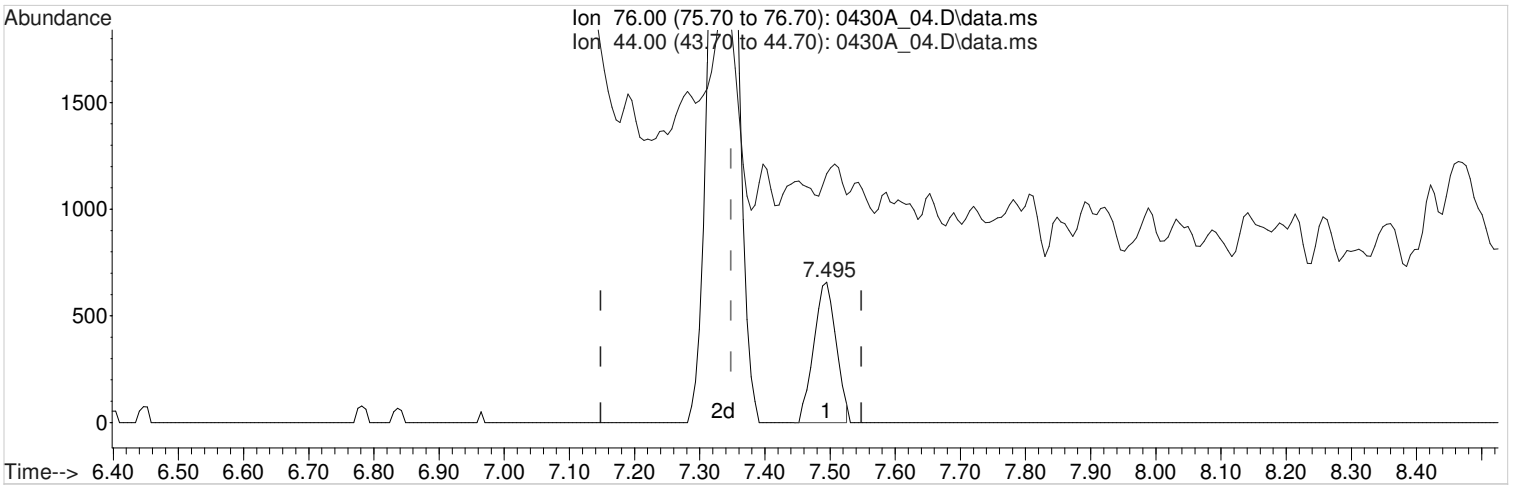
Quant Time: May 01 08:02:53 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:02:08 2024
Response via : Initial Calibration

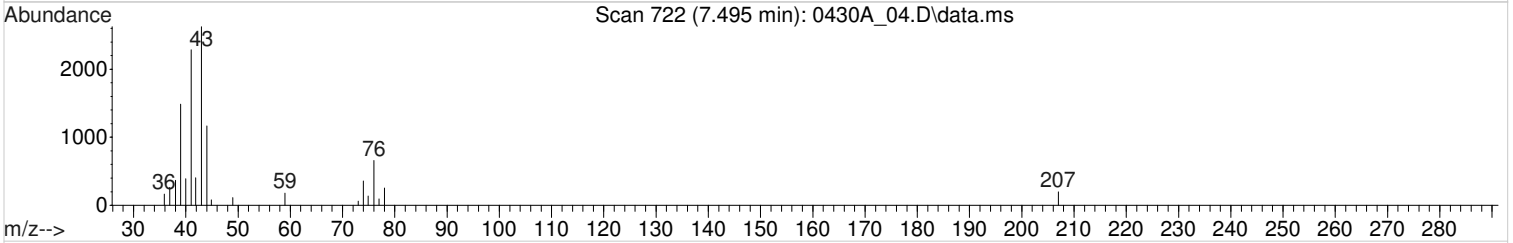


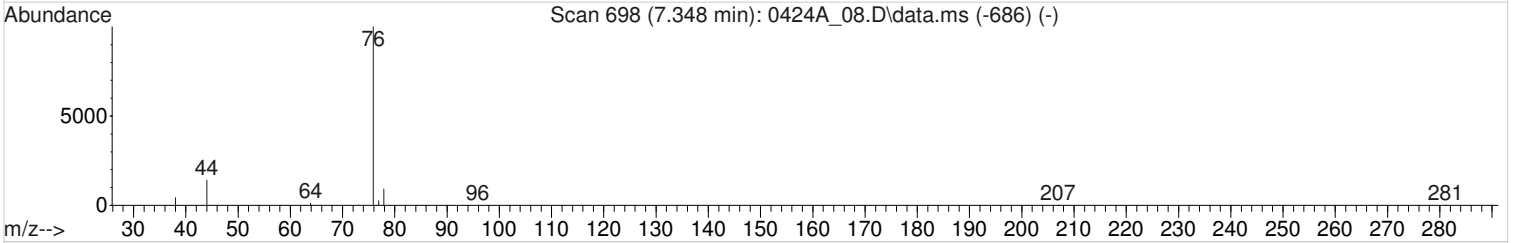
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_04.D
Acq On : 30 Apr 2024 5:04 pm
Operator :
Sample : STD AMS 0.31 ppbv 24D28181
Misc : 24D29341
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:02:16 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:02:08 2024
Response via : Initial Calibration







TIC: 0430A_04.D\data.ms

(27) Carbon Disulfide (T,M)

7.495min (+0.146) 0.0278639 ppbv

Qvalue = 95

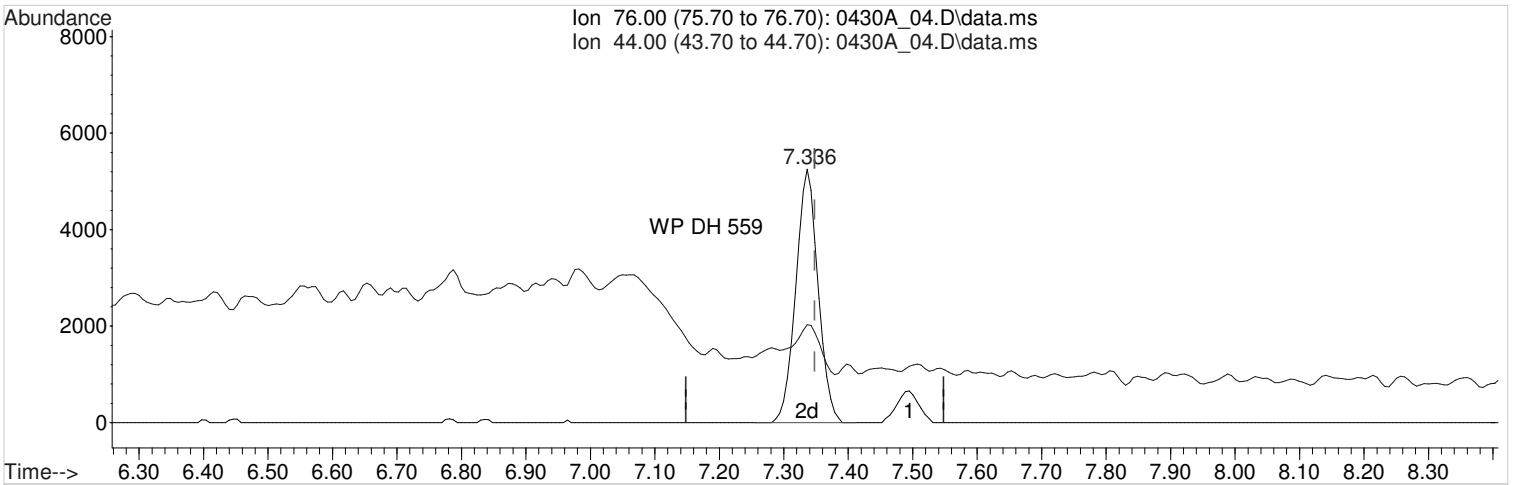
response 1564

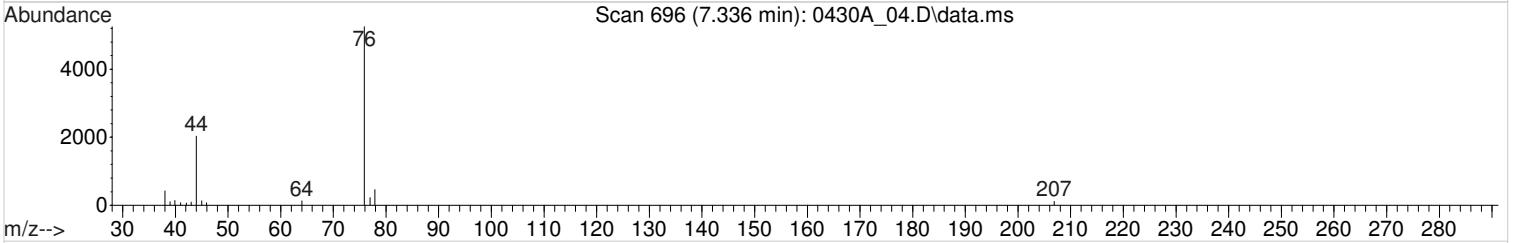
Ion	Exp%	Act%
76.00	100	100
44.00	17.10	14.96
0.00	0.00	0.00
0.00	0.00	0.00

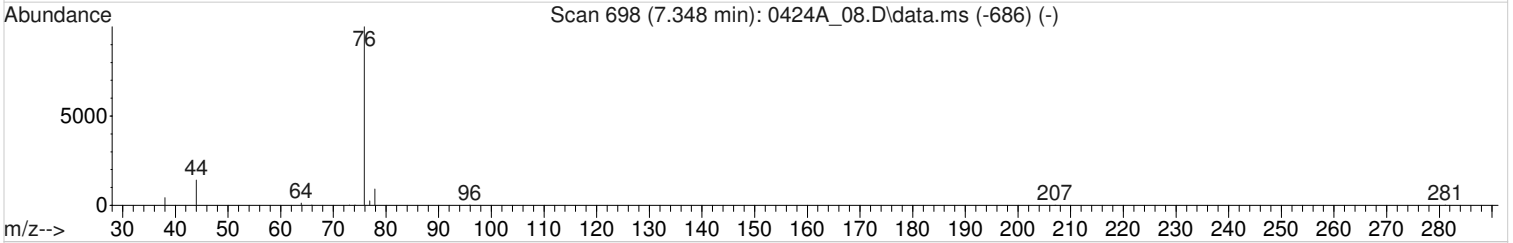
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_04.D
Acq On : 30 Apr 2024 5:04 pm
Operator :
Sample : STD AMS 0.31 ppbv 24D28181
Misc : 24D29341
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:02:16 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:02:08 2024
Response via : Initial Calibration







TIC: 0430A_04.D\data.ms

(27) Carbon Disulfide (T,M)

7.336min (-0.012) 0.2240156 ppbv m

response 12574

Ion	Exp%	Act%
76.00	100	100
44.00	17.10	1.86#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_05.D
Acq On : 30 Apr 2024 5:45 pm
Operator :
Sample : STD AMS 0.63 ppbv 24D28181
Misc : 24D29341
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:05:47 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:03:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	9.433	130	136345	4.0000000	ppbv		0.00
50) 1,4-Difluorobenzene	10.439	114	509223	4.0000000	ppbv		0.00
74) Chlorobenzene-d5	13.591	117	412921	4.0000000	ppbv		0.00
System Monitoring Compounds							
88) 1,4-Bromofluorobenzene	14.743	95	337450	4.0576629	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 101.44%				
Target Compounds						Qvalue	
2) TPH (GC/MS) Low Fraction	10.430	TIC	2666917m	22.7142976	ppbv		
3) TPH-GRO (C5-C10)	10.430	TIC	3704563m	30.5964228	ppbv		
4) THC as Gas (C4-C12)	10.430	TIC	7093065m	34.4570348	ppbv		
5) Propene	4.257	41	6619	0.4658983	ppbv		92
6) BUTANE	4.958	43	14716	0.4911311	ppbv		98
7) 1,1-DIFLUOROETHANE	4.269	65	4749	0.4039213	ppbv		98
8) Dichlorodifluoromethane	4.337	85	17701	0.5272994	ppbv		97
9) CHLORODIFLUOROMETHANE	4.391	67	1887	0.5024381	ppbv		89
10) 1,2-Dichlorotetrafluor...	4.623	85	17520	0.5140947	ppbv		100
11) Chloromethane	4.788	50	8075	0.5365705	ppbv		99
12) Vinyl Chloride	5.013	62	8151	0.5259703	ppbv		98
13) 1,3-Butadiene	5.074	54	6525	0.5326197	ppbv		98
14) Bromomethane	5.684	94	7042	0.4851820	ppbv		100
15) Chloroethane	5.848	64	4176	0.5417595	ppbv	#	91
16) ISOPENTANE	5.891	43	10318	0.5203174	ppbv	#	96
17) Vinyl Bromide	6.159	106	5942	0.5047813	ppbv		90
18) Trichlorofluoromethane	6.208	101	19237	0.5316996	ppbv		99
19) PENTANE	6.287	43	15180	0.5293546	ppbv		99
20) Ethanol	6.580	45	5062	0.3537479	ppbv		98
21) ACROLEIN	6.946	56	3758	0.4250178	ppbv	#	69
22) 1,1,2-Trichlorotrifluo...	6.915	101	15080	0.5426385	ppbv		97
23) 1,1-Dichloroethene	6.995	61	12899	0.5160540	ppbv		96
24) Acetone	7.153	58	4092	0.4406089	ppbv		89
25) BROMOETHANE	7.275	108	4614	0.4862554	ppbv		95
26) 2-Propanol	7.281	45	15217	0.4625220	ppbv	#	84
27) Carbon Disulfide	7.342	76	22287	0.4703786	ppbv	#	92
28) Allyl Chloride	7.494	76	2840	0.5589531	ppbv		92
29) METHYL ACETATE	7.513	43	17389	0.5079622	ppbv	#	99
30) ACETONITRILE	7.592	41	50718	2.0426724	ppbv		99
31) Methylene Chloride	7.683	49	11239	0.5183142	ppbv		99
32) TERT-BUTYL ALCOHOL	7.787	59	14306	0.5261256	ppbv	#	83
33) Methyl Tert-Butyl Ether	7.927	73	15150	0.5094751	ppbv		98
34) Trans-1,2-Dichloroethene	7.958	61	10477	0.5210099	ppbv		96
35) ACRYLONITRILE	8.049	53	6739	0.5277810	ppbv		96
36) n-Hexane	8.147	57	9639	0.5447058	ppbv	#	85
37) 1,1-Dichloroethane	8.500	63	13917	0.5213529	ppbv		99
38) Vinyl Acetate	8.476	43	16717	0.5305380	ppbv		100
39) DI-ISOPROPYL ETHER	8.421	45	23820	0.5511345	ppbv	#	77
40) ETHYL TERT-BUTYL ETHER	8.823	59	18411	0.5280412	ppbv		98
41) ETHYL ACETATE	9.122	70	1700	0.4980001	ppbv		100

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_05.D
Acq On : 30 Apr 2024 5:45 pm
Operator :
Sample : STD AMS 0.63 ppbv 24D28181
Misc : 24D29341
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:05:47 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:03:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
42) 2-Butanone (MEK)	9.153	72	3183	0.6032634	ppbv	90
43) cis-1,2-Dichloroethene	9.147	61	12017	0.5085086	ppbv	97
44) Tetrahydrofuran	9.451	42	9023	0.4966084	ppbv #	90
45) Chloroform	9.457	83	16434	0.5079494	ppbv	99
46) Cyclohexane	9.671	84	6394	0.5336262	ppbv #	88
47) 1,1,1-Trichloroethane	9.671	97	14155	0.5322920	ppbv	99
48) Carbon Tetrachloride	9.817	117	13850	0.5207330	ppbv	99
49) 2,2,4-Trimethylpentane	9.976	57	31075	0.5534045	ppbv #	89
51) Benzene	10.073	78	20355	0.5431532	ppbv	96
52) TERT-AMYL METHYL ETHER	10.085	73	15451	0.5465557	ppbv #	90
53) 1,2-Dichloroethane	10.146	62	11628	0.5627388	ppbv	96
54) Heptane	10.134	71	5644	0.5103298	ppbv	92
55) Trichloroethene	10.738	95	8153	0.5268877	ppbv	96
56) TERT-AMYL ETHYL ETHER	10.854	73	4720	0.5372032	ppbv	77
57) METHYL CYCLOHEXANE	10.896	83	8701	0.5417966	ppbv #	73
58) 1,2-Dichloropropane	11.049	63	9413	0.5887431	ppbv	91
59) Methyl Methacrylate	11.012	69	6170	0.5507470	ppbv	98
60) 1,4-Dioxane	11.146	88	3137	0.5414340	ppbv #	87
61) Bromodichloromethane	11.305	83	15444	0.5507402	ppbv	99
62) cis-1,3-Dichloropropene	11.786	75	10364	0.5474679	ppbv	93
63) 4-Methyl-2-Pentanone (...	11.902	43	17548	0.5262608	ppbv #	93
64) n-OCTANE	12.030	43	16332	0.5969299	ppbv	99
65) Toluene	12.134	91	20347	0.5392038	ppbv	100
66) trans-1,3-Dichloropropene	12.402	75	8841	0.5905977	ppbv	94
67) 1,1,2-Trichloroethane	12.628	97	7200	0.5238268	ppbv	94
68) Tetrachloroethene	12.725	166	7878	0.5472491	ppbv	98
69) Methyl Butyl Ketone	12.798	43	14574	0.5635804	ppbv	90
70) Chlorodibromomethane	13.042	129	11965	0.5630079	ppbv	99
71) 1,2-Dibromoethane	13.207	107	10237	0.5748419	ppbv	97
72) Chlorobenzene	13.621	112	15828	0.5289774	ppbv #	58
73) NONANE	13.597	43	16724	0.4946876	ppbv #	94
75) Ethylbenzene	13.652	91	23923	0.5266110	ppbv	99
76) M&P-Xylene	13.755	91	33214	1.0950285	ppbv	99
77) O-Xylene	14.170	91	15331	0.5408778	ppbv	100
80) Styrene	14.188	104	10779	0.5453752	ppbv	96
81) Bromoform	14.457	173	10030	0.5125777	ppbv	99
82) Isopropylbenzene	14.499	105	19278	0.5680415	ppbv	96
83) n-DECANE	14.914	43	16675	0.5681635	ppbv	98
84) 1,1,2,2-Tetrachloroethane	14.859	83	17866	0.5280603	ppbv	100
85) n-Propylbenzene	14.914	91	31723	0.5422544	ppbv	97
86) 4-Ethyltoluene	15.024	105	21235	0.5494358	ppbv	96
87) 2-Chlorotoluene	15.078	91	22923	0.5560104	ppbv	97
89) 1,3,5-Trimethylbenzene	15.078	105	18751	0.5768784	ppbv	93
90) tert-Butylbenzene	15.408	119	14768	0.5393151	ppbv	92
91) 1,2,4-Trimethylbenzene	15.462	105	18066	0.5877771	ppbv	99
92) sec-Butylbenzene	15.621	105	26534	0.5713878	ppbv #	94
93) 1,3-Dichlorobenzene	15.822	146	14262	0.5507142	ppbv	95
94) P-ISOPROPYLTOLUENE	15.737	119	20471	0.5654892	ppbv	98
95) 1,4-Dichlorobenzene	15.907	146	14485	0.5647022	ppbv	97
96) 1,2,3-TRIMETHYLBENZENE	15.895	105	17627	0.5311223	ppbv	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_05.D
Acq On : 30 Apr 2024 5:45 pm
Operator :
Sample : STD AMS 0.63 ppbv 24D28181
Misc : 24D29341
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:05:47 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:03:57 2024
Response via : Initial Calibration

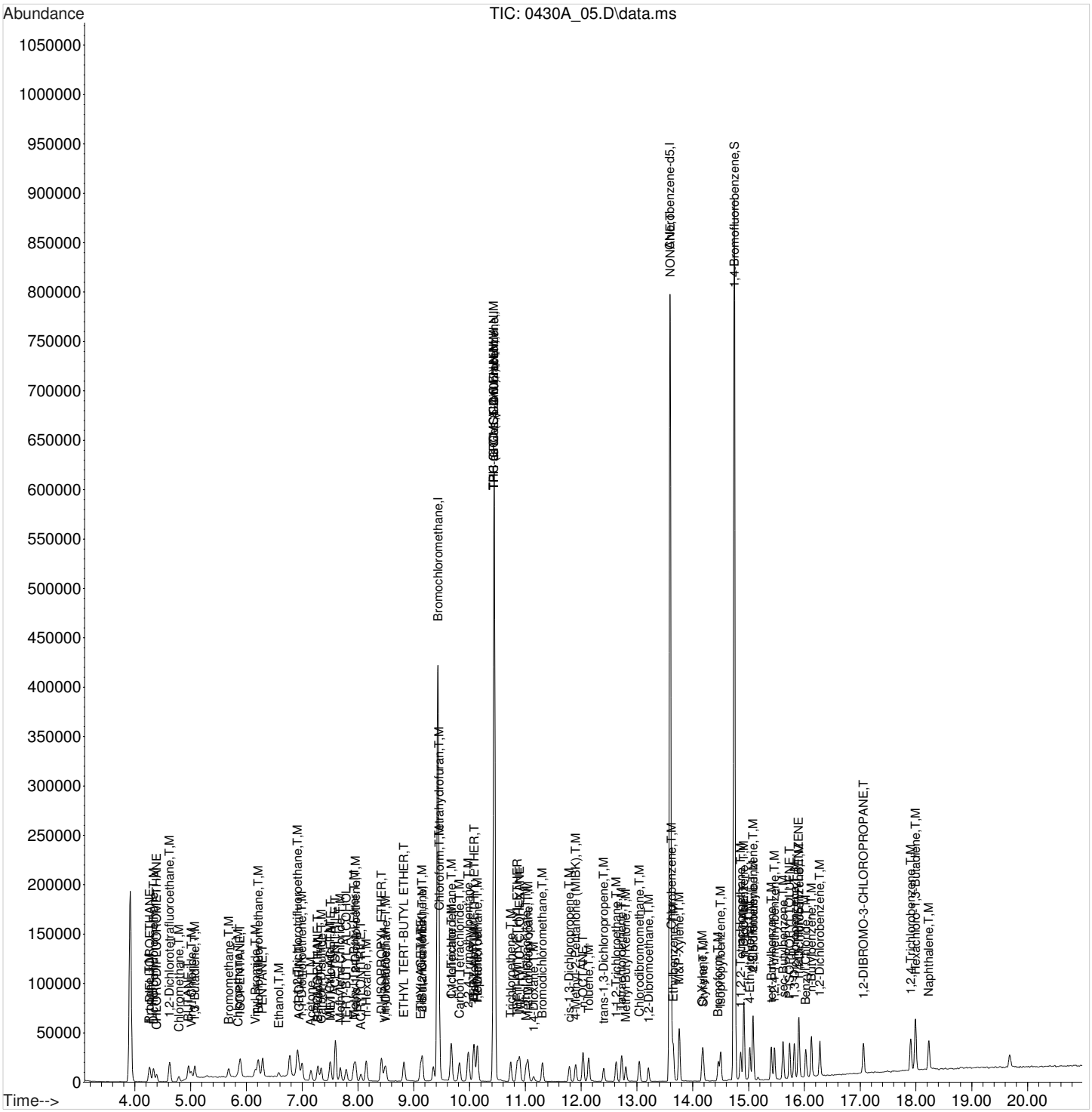
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	16.023	91	20097	0.5549336	ppbv	96
98) n-Butylbenzene	16.127	91	24708	0.5649060	ppbv	95
99) 1,2-Dichlorobenzene	16.279	146	13474	0.5263467	ppbv	99
100) 1,2-DIBROMO-3-CHLOROPR...	17.060	157	7248	0.5301213	ppbv	92
101) 1,2,4-Trichlorobenzene	17.907	180	10980	0.5123340	ppbv	98
102) Hexachloro-1,3-Butadiene	17.992	225	12291	0.5652777	ppbv	97
103) Naphthalene	18.230	128	27190	0.5889355	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_05.D
Acq On : 30 Apr 2024 5:45 pm
Operator :
Sample : STD AMS 0.63 ppbv 24D28181
Misc : 24D29341
ALS Vial : 5 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:05:47 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:03:57 2024
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_06.D
Acq On : 30 Apr 2024 6:26 pm
Operator :
Sample : STD AMS 1.25 ppbv 24D28181
Misc : 24D29341
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:07:17 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:06:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.433	130	137330	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	10.439	114	507690	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	13.591	117	410724	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	14.743	95	337061	4.0551790	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 101.38%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	5100373m	46.7540119	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	6761703m	61.5142920	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	11414644m	64.1188909	ppbv	
5) Propene	4.251	41	13150	1.0063403	ppbv	95
6) BUTANE	4.964	43	26956	0.9640066	ppbv	100
7) 1,1-DIFLUOROETHANE	4.269	65	9092	0.8720809	ppbv	96
8) Dichlorodifluoromethane	4.336	85	34746	1.0866823	ppbv	100
9) CHLORODIFLUOROMETHANE	4.391	67	3818	1.0823514	ppbv	86
10) 1,2-Dichlorotetrafluor...	4.623	85	34005	1.0553842	ppbv	97
11) Chloromethane	4.788	50	15686	1.0886489	ppbv	100
12) Vinyl Chloride	5.007	62	16036	1.0871958	ppbv	99
13) 1,3-Butadiene	5.074	54	11681	0.9980773	ppbv	92
14) Bromomethane	5.684	94	13067	0.9680090	ppbv	99
15) Chloroethane	5.854	64	7172	0.9690029	ppbv	99
16) ISOPENTANE	5.885	43	19283	1.0249097	ppbv	96
17) Vinyl Bromide	6.159	106	11755	1.0617883	ppbv	99
18) Trichlorofluoromethane	6.208	101	35611	1.0308218	ppbv	100
19) PENTANE	6.287	43	27172	0.9936552	ppbv	99
20) Ethanol	6.574	45	8586	0.6976901	ppbv	98
21) ACROLEIN	6.946	56	6607	0.8321196	ppbv	83
22) 1,1,2-Trichlorotrifluo...	6.915	101	28678	1.0741999	ppbv	99
23) 1,1-Dichloroethene	6.995	61	25407	1.0739200	ppbv	100
24) Acetone	7.153	58	7185	0.8536415	ppbv	89
25) BROMOETHANE	7.275	108	9282	1.0511296	ppbv	100
26) 2-Propanol	7.281	45	29212	0.9672428	ppbv #	77
27) Carbon Disulfide	7.342	76	40607	0.9293758	ppbv	96
28) Allyl Chloride	7.494	76	5437	1.1039019	ppbv	97
29) METHYL ACETATE	7.507	43	34257	1.0621081	ppbv #	100
30) ACETONITRILE	7.592	41	88712	4.0180875	ppbv	98
31) Methylene Chloride	7.683	49	22082	1.0745607	ppbv	98
32) TERT-BUTYL ALCOHOL	7.787	59	28388	1.0968055	ppbv #	89
33) Methyl Tert-Butyl Ether	7.927	73	30529	1.0887146	ppbv	96
34) Trans-1,2-Dichloroethene	7.958	61	19879	1.0415325	ppbv	94
35) ACRYLONITRILE	8.049	53	12137	0.9976793	ppbv	93
36) n-Hexane	8.147	57	18910	1.1110939	ppbv #	85
37) 1,1-Dichloroethane	8.500	63	27351	1.0793071	ppbv	96
38) Vinyl Acetate	8.470	43	35700	1.1873492	ppbv	100
39) DI-ISOPROPYL ETHER	8.415	45	46739	1.1204181	ppbv #	76
40) ETHYL TERT-BUTYL ETHER	8.817	59	37574	1.1309305	ppbv	98
41) ETHYL ACETATE	9.116	70	3603	1.1265785	ppbv	90

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_06.D
Acq On : 30 Apr 2024 6:26 pm
Operator :
Sample : STD AMS 1.25 ppbv 24D28181
Misc : 24D29341
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:07:17 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:06:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Butanone (MEK)	9.153	72	6480	1.2368205	ppbv		99
43) cis-1,2-Dichloroethene	9.153	61	24211	1.0870346	ppbv		96
44) Tetrahydrofuran	9.451	42	18410	1.0823744	ppbv	#	91
45) Chloroform	9.457	83	31143	1.0216529	ppbv		100
46) Cyclohexane	9.671	84	12650	1.1044822	ppbv		94
47) 1,1,1-Trichloroethane	9.671	97	27390	1.0783480	ppbv		99
48) Carbon Tetrachloride	9.817	117	27727	1.0985125	ppbv		99
49) 2,2,4-Trimethylpentane	9.976	57	59643	1.0990866	ppbv	#	88
51) Benzene	10.073	78	42304	1.1867828	ppbv		95
52) TERT-AMYL METHYL ETHER	10.079	73	32538	1.2077820	ppbv	#	91
53) 1,2-Dichloroethane	10.146	62	23051	1.1602147	ppbv		95
54) Heptane	10.134	71	11567	1.1199579	ppbv		96
55) Trichloroethene	10.738	95	16642	1.1409854	ppbv		99
56) TERT-AMYL ETHYL ETHER	10.854	73	9159	1.0995594	ppbv	#	74
57) METHYL CYCLOHEXANE	10.896	83	18205	1.1926780	ppbv	#	79
58) 1,2-Dichloropropane	11.049	63	18065	1.1585916	ppbv		91
59) Methyl Methacrylate	11.012	69	12023	1.1235522	ppbv		98
60) 1,4-Dioxane	11.146	88	6771	1.2298061	ppbv	#	89
61) Bromodichloromethane	11.305	83	30384	1.1343499	ppbv		100
62) cis-1,3-Dichloropropene	11.786	75	20328	1.1262286	ppbv		95
63) 4-Methyl-2-Pentanone (...	11.902	43	36157	1.1507795	ppbv		94
64) n-OCTANE	12.030	43	34782	1.2978192	ppbv		99
65) Toluene	12.134	91	42823	1.1956952	ppbv		98
66) trans-1,3-Dichloropropene	12.402	75	17150	1.1735826	ppbv		93
67) 1,1,2-Trichloroethane	12.628	97	14620	1.1303713	ppbv		97
68) Tetrachloroethene	12.725	166	15519	1.1308005	ppbv		97
69) Methyl Butyl Ketone	12.798	43	30665	1.2327255	ppbv		92
70) Chlorodibromomethane	13.042	129	22780	1.1146491	ppbv		99
71) 1,2-Dibromoethane	13.207	107	19677	1.1415821	ppbv		98
72) Chlorobenzene	13.621	112	30155	1.0679151	ppbv	#	80
73) NONANE	13.597	43	33611	1.0740974	ppbv		98
75) Ethylbenzene	13.652	91	47882	1.1209732	ppbv		100
76) M&P-Xylene	13.761	91	70651	2.4426901	ppbv		100
77) O-Xylene	14.170	91	32206	1.1988364	ppbv		99
80) Styrene	14.188	104	23384	1.2452225	ppbv		97
81) Bromoform	14.456	173	20634	1.1303570	ppbv		97
82) Isopropylbenzene	14.499	105	41376	1.2672411	ppbv		96
83) n-DECANE	14.914	43	34881	1.2352648	ppbv		99
84) 1,1,2,2-Tetrachloroethane	14.859	83	35230	1.1065355	ppbv		99
85) n-Propylbenzene	14.914	91	66878	1.2052433	ppbv		99
86) 4-Ethyltoluene	15.023	105	44063	1.1972209	ppbv		98
87) 2-Chlorotoluene	15.078	91	47159	1.1968409	ppbv		99
89) 1,3,5-Trimethylbenzene	15.078	105	40415	1.2861770	ppbv		94
90) tert-Butylbenzene	15.408	119	32414	1.2500432	ppbv		96
91) 1,2,4-Trimethylbenzene	15.468	105	39049	1.3064406	ppbv		100
92) sec-Butylbenzene	15.621	105	54979	1.2283538	ppbv		97
93) 1,3-Dichlorobenzene	15.822	146	28471	1.1536587	ppbv		93
94) P-ISOPROPYLTOLUENE	15.737	119	43994	1.2649640	ppbv		98
95) 1,4-Dichlorobenzene	15.907	146	29143	1.1831013	ppbv		97
96) 1,2,3-TRIMETHYLBENZENE	15.895	105	38339	1.2254917	ppbv		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_06.D
Acq On : 30 Apr 2024 6:26 pm
Operator :
Sample : STD AMS 1.25 ppbv 24D28181
Misc : 24D29341
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:07:17 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:06:57 2024
Response via : Initial Calibration

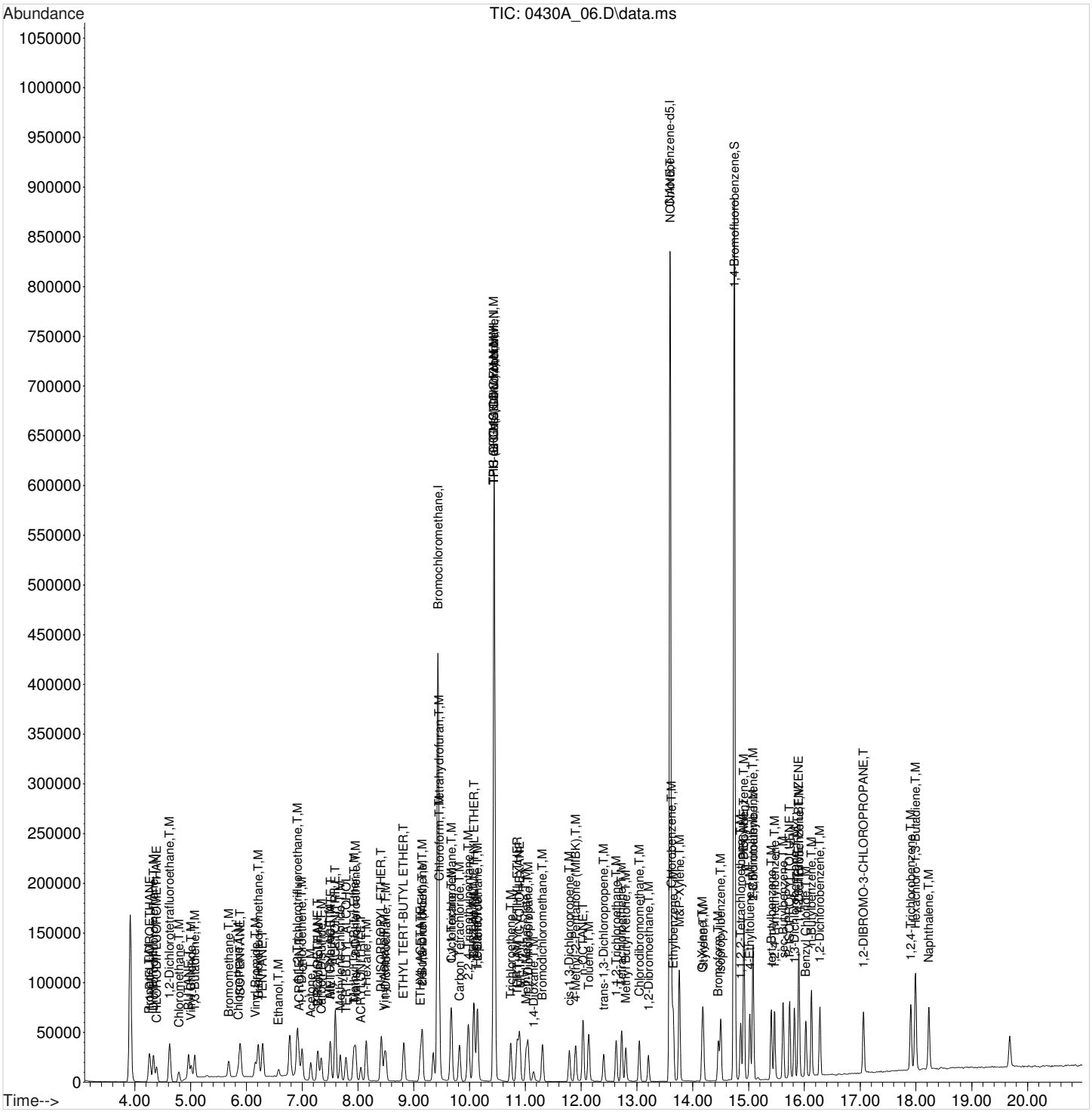
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	16.023	91	41972	1.2133537	ppbv	99
98) n-Butylbenzene	16.127	91	51899	1.2354801	ppbv	96
99) 1,2-Dichlorobenzene	16.279	146	27969	1.1621581	ppbv	99
100) 1,2-DIBROMO-3-CHLOROPR...	17.060	157	14481	1.1242215	ppbv	95
101) 1,2,4-Trichlorobenzene	17.907	180	22742	1.1376604	ppbv	99
102) Hexachloro-1,3-Butadiene	17.992	225	23308	1.1159105	ppbv	99
103) Naphthalene	18.230	128	56015	1.2468661	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_06.D
Acq On : 30 Apr 2024 6:26 pm
Operator :
Sample : STD AMS 1.25 ppbv 24D28181
Misc : 24D29341
ALS Vial : 6 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:07:17 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:06:57 2024
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_07.D
Acq On : 30 Apr 2024 7:09 pm
Operator :
Sample : STD AMS 2.5 ppbv 24D28181
Misc : 24D29341
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:07:43 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:07:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.439	130	138769	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	10.445	114	518381	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	13.597	117	413350	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	14.743	95	347305	4.1376098	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 103.44%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	10010335m	95.6959734	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	12902896m	125.1384129	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	20086088m	126.1696721	ppbv	
5) Propene	4.282	41	25578	2.0363656	ppbv	94
6) BUTANE	4.983	43	52869	1.9846249	ppbv	99
7) 1,1-DIFLUOROETHANE	4.300	65	17901	1.8381463	ppbv	98
8) Dichlorodifluoromethane	4.361	85	68206	2.1823066	ppbv	100
9) CHLORODIFLUOROMETHANE	4.416	67	7663	2.2244141	ppbv	86
10) 1,2-Dichlorotetrafluor...	4.647	85	68347	2.1842489	ppbv	97
11) Chloromethane	4.812	50	30965	2.1976855	ppbv	98
12) Vinyl Chloride	5.032	62	32365	2.2445879	ppbv	98
13) 1,3-Butadiene	5.099	54	22749	2.0256838	ppbv	93
14) Bromomethane	5.702	94	26112	2.0287468	ppbv	95
15) Chloroethane	5.873	64	15112	2.1409152	ppbv	96
16) ISOPENTANE	5.909	43	37659	2.0742332	ppbv	96
17) Vinyl Bromide	6.178	106	22489	2.0889204	ppbv	98
18) Trichlorofluoromethane	6.226	101	72543	2.1733784	ppbv	99
19) PENTANE	6.306	43	55714	2.1252415	ppbv	100
20) Ethanol	6.586	45	14207	1.2843473	ppbv	96
21) ACROLEIN	6.958	56	12862	1.7493088	ppbv	97
22) 1,1,2-Trichlorotrifluo...	6.927	101	56695	2.1782046	ppbv	99
23) 1,1-Dichloroethene	7.013	61	47984	2.0804527	ppbv	99
24) Acetone	7.159	58	13351	1.7049201	ppbv	80
25) BROMOETHANE	7.287	108	18434	2.1514626	ppbv	98
26) 2-Propanol	7.287	45	59641	2.0714472	ppbv #	79
27) Carbon Disulfide	7.354	76	78798	1.9070438	ppbv	99
28) Allyl Chloride	7.507	76	11155	2.3088339	ppbv	89
29) METHYL ACETATE	7.519	43	66905	2.1329740	ppbv #	98
30) ACETONITRILE	7.604	41	169659	8.3502666	ppbv	99
31) Methylene Chloride	7.696	49	41300	2.0612364	ppbv	98
32) TERT-BUTYL ALCOHOL	7.787	59	56850	2.2423979	ppbv #	88
33) Methyl Tert-Butyl Ether	7.933	73	63899	2.3302820	ppbv	99
34) Trans-1,2-Dichloroethene	7.964	61	43135	2.3338697	ppbv	99
35) ACRYLONITRILE	8.061	53	25314	2.1687124	ppbv	97
36) n-Hexane	8.153	57	38455	2.2999638	ppbv #	86
37) 1,1-Dichloroethane	8.506	63	54981	2.2230160	ppbv	98
38) Vinyl Acetate	8.482	43	77726	2.5907510	ppbv	99
39) DI-ISOPROPYL ETHER	8.421	45	97646	2.3781097	ppbv	89
40) ETHYL TERT-BUTYL ETHER	8.823	59	76178	2.3244403	ppbv	98
41) ETHYL ACETATE	9.122	70	6913	2.1932669	ppbv	99

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_07.D
Acq On : 30 Apr 2024 7:09 pm
Operator :
Sample : STD AMS 2.5 ppbv 24D28181
Misc : 24D29341
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:07:43 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:07:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Butanone (MEK)	9.153	72	12388	2.3461301	ppbv		99
43) cis-1,2-Dichloroethene	9.153	61	49265	2.2627309	ppbv		98
44) Tetrahydrofuran	9.457	42	36627	2.2049943	ppbv		96
45) Chloroform	9.464	83	61996	2.1090200	ppbv		99
46) Cyclohexane	9.677	84	25942	2.3087223	ppbv		94
47) 1,1,1-Trichloroethane	9.677	97	52938	2.1358897	ppbv		99
48) Carbon Tetrachloride	9.823	117	53516	2.1638154	ppbv		99
49) 2,2,4-Trimethylpentane	9.982	57	119351	2.2443032	ppbv	#	91
51) Benzene	10.073	78	82469	2.2948593	ppbv		96
52) TERT-AMYL METHYL ETHER	10.085	73	66631	2.4429025	ppbv	#	94
53) 1,2-Dichloroethane	10.152	62	45200	2.2688515	ppbv		97
54) Heptane	10.140	71	24006	2.3371957	ppbv		98
55) Trichloroethene	10.738	95	33248	2.2822503	ppbv		98
56) TERT-AMYL ETHYL ETHER	10.854	73	19414	2.3534388	ppbv	#	76
57) METHYL CYCLOHEXANE	10.896	83	41077	2.6661739	ppbv		87
58) 1,2-Dichloropropane	11.049	63	36106	2.3101193	ppbv		94
59) Methyl Methacrylate	11.012	69	24771	2.3259366	ppbv		99
60) 1,4-Dioxane	11.146	88	14300	2.5540358	ppbv		93
61) Bromodichloromethane	11.305	83	58498	2.1895550	ppbv		98
62) cis-1,3-Dichloropropene	11.792	75	43726	2.4328040	ppbv		99
63) 4-Methyl-2-Pentanone (...	11.896	43	76539	2.4340914	ppbv		97
64) n-OCTANE	12.036	43	76523	2.7699210	ppbv		99
65) Toluene	12.140	91	87720	2.4251254	ppbv		97
66) trans-1,3-Dichloropropene	12.402	75	35671	2.4277453	ppbv		98
67) 1,1,2-Trichloroethane	12.628	97	28936	2.2448065	ppbv		96
68) Tetrachloroethene	12.725	166	31431	2.2977827	ppbv		98
69) Methyl Butyl Ketone	12.798	43	63766	2.5192146	ppbv		95
70) Chlorodibromomethane	13.042	129	46673	2.2988899	ppbv		99
71) 1,2-Dibromoethane	13.207	107	40572	2.3563775	ppbv		99
72) Chlorobenzene	13.621	112	59852	2.1543510	ppbv		92
73) NONANE	13.597	43	67820	2.2000041	ppbv		98
75) Ethylbenzene	13.652	91	95709	2.2853995	ppbv		100
76) M&P-Xylene	13.762	91	152836	5.2808515	ppbv		99
77) O-Xylene	14.170	91	67778	2.5328585	ppbv		99
80) Styrene	14.188	104	49528	2.6231688	ppbv		98
81) Bromoform	14.456	173	39901	2.2251871	ppbv		98
82) Isopropylbenzene	14.499	105	90974	2.7590858	ppbv		98
83) n-DECANE	14.914	43	74527	2.6302600	ppbv		99
84) 1,1,2,2-Tetrachloroethane	14.859	83	69811	2.2431182	ppbv		98
85) n-Propylbenzene	14.914	91	135681	2.4515889	ppbv		98
86) 4-Ethyltoluene	15.023	105	94351	2.5744684	ppbv		98
87) 2-Chlorotoluene	15.078	91	96710	2.4650028	ppbv		99
89) 1,3,5-Trimethylbenzene	15.078	105	83998	2.6371101	ppbv		96
90) tert-Butylbenzene	15.408	119	67648	2.5922432	ppbv		97
91) 1,2,4-Trimethylbenzene	15.462	105	84862	2.7896534	ppbv		100
92) sec-Butylbenzene	15.621	105	118738	2.6474804	ppbv		97
93) 1,3-Dichlorobenzene	15.822	146	57630	2.3659478	ppbv		94
94) P-ISOPROPYLTOLUENE	15.737	119	92897	2.6461881	ppbv		97
95) 1,4-Dichlorobenzene	15.907	146	60021	2.4539912	ppbv		99
96) 1,2,3-TRIMETHYLBENZENE	15.895	105	85657	2.7340005	ppbv		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_07.D
Acq On : 30 Apr 2024 7:09 pm
Operator :
Sample : STD AMS 2.5 ppbv 24D28181
Misc : 24D29341
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:07:43 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:07:24 2024
Response via : Initial Calibration

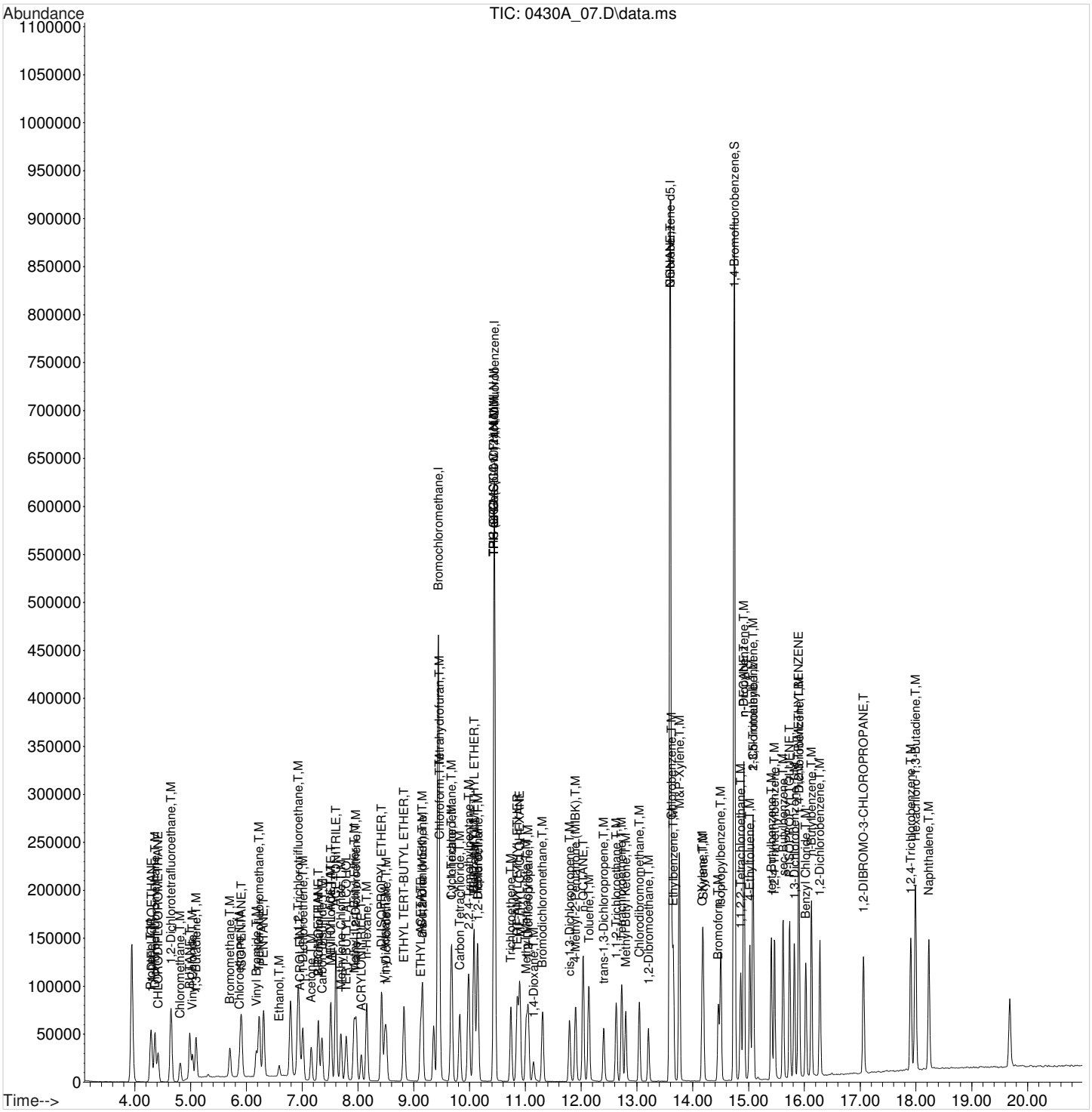
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	16.023	91	86683	2.5083528	ppbv	99
98) n-Butylbenzene	16.127	91	110827	2.6291630	ppbv	98
99) 1,2-Dichlorobenzene	16.279	146	56856	2.3894305	ppbv	99
100) 1,2-DIBROMO-3-CHLOROPR...	17.060	157	29232	2.3131763	ppbv	96
101) 1,2,4-Trichlorobenzene	17.907	180	47185	2.3993249	ppbv	98
102) Hexachloro-1,3-Butadiene	17.992	225	45925	2.2449753	ppbv	98
103) Naphthalene	18.230	128	122665	2.7148171	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_07.D
Acq On : 30 Apr 2024 7:09 pm
Operator :
Sample : STD AMS 2.5 ppbv 24D28181
Misc : 24D29341
ALS Vial : 7 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:07:43 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:07:24 2024
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_08.D
Acq On : 30 Apr 2024 7:52 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 24D28181
Misc : 24D29341
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:08:09 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.439	130	138585	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	10.445	114	514111	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	13.597	117	412465	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	14.743	95	340196	4.0338581	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.85%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	15159231m	150.7034707	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	19136079m	196.6348037	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	29218122m	202.7874250	ppbv	
5) Propene	4.276	41	39597	3.2782519	ppbv	97
6) BUTANE	4.977	43	79101	3.1011382	ppbv	100
7) 1,1-DIFLUOROETHANE	4.294	65	26146	2.8386418	ppbv	99
8) Dichlorodifluoromethane	4.355	85	95479	3.1387575	ppbv	99
9) CHLORODIFLUOROMETHANE	4.410	67	11351	3.3737208	ppbv	89
10) 1,2-Dichlorotetrafluor...	4.641	85	102367	3.3607029	ppbv	98
11) Chloromethane	4.806	50	45018	3.2786079	ppbv	98
12) Vinyl Chloride	5.025	62	48118	3.4112272	ppbv	99
13) 1,3-Butadiene	5.093	54	35662	3.3051525	ppbv	96
14) Bromomethane	5.696	94	38510	3.1133439	ppbv	98
15) Chloroethane	5.867	64	21648	3.1617689	ppbv	99
16) ISOPENTANE	5.903	43	57449	3.2801821	ppbv	95
17) Vinyl Bromide	6.172	106	34234	3.2923661	ppbv	97
18) Trichlorofluoromethane	6.226	101	109192	3.3636111	ppbv	99
19) PENTANE	6.306	43	84386	3.3228459	ppbv	99
20) Ethanol	6.580	45	20906	2.0963358	ppbv	95
21) ACROLEIN	6.958	56	20092	2.9110863	ppbv	100
22) 1,1,2-Trichlorotrifluo...	6.928	101	83693	3.3048064	ppbv	98
23) 1,1-Dichloroethene	7.007	61	73816	3.3160032	ppbv	99
24) Acetone	7.159	58	21793	2.9759460	ppbv	96
25) BROMOETHANE	7.281	108	28274	3.3990627	ppbv	98
26) 2-Propanol	7.287	45	90624	3.2636162	ppbv #	84
27) Carbon Disulfide	7.348	76	119762	3.0468201	ppbv	97
28) Allyl Chloride	7.507	76	17117	3.6026336	ppbv	92
29) METHYL ACETATE	7.513	43	102518	3.3716780	ppbv #	98
30) ACETONITRILE	7.598	41	254062	13.4114754	ppbv	99
31) Methylene Chloride	7.690	49	63317	3.2793857	ppbv	99
32) TERT-BUTYL ALCOHOL	7.787	59	88926	3.5861687	ppbv #	90
33) Methyl Tert-Butyl Ether	7.927	73	97970	3.6267762	ppbv	99
34) Trans-1,2-Dichloroethene	7.964	61	63751	3.5004244	ppbv	97
35) ACRYLONITRILE	8.055	53	38533	3.3955930	ppbv	100
36) n-Hexane	8.153	57	61272	3.7291740	ppbv	91
37) 1,1-Dichloroethane	8.507	63	84791	3.5106503	ppbv	97
38) Vinyl Acetate	8.476	43	122394	4.0555905	ppbv	100
39) DI-ISOPROPYL ETHER	8.421	45	151258	3.7250122	ppbv	88
40) ETHYL TERT-BUTYL ETHER	8.824	59	119091	3.6905136	ppbv	99
41) ETHYL ACETATE	9.116	70	10168	3.3115143	ppbv	94

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_08.D
Acq On : 30 Apr 2024 7:52 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 24D28181
Misc : 24D29341
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:08:09 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
42) 2-Butanone (MEK)	9.153	72	18478	3.5478174 ppbv		98
43) cis-1,2-Dichloroethene	9.153	61	74170	3.4771365 ppbv		99
44) Tetrahydrofuran	9.458	42	56866	3.5108111 ppbv		96
45) Chloroform	9.464	83	92637	3.2574576 ppbv		98
46) Cyclohexane	9.677	84	41473	3.7532455 ppbv		94
47) 1,1,1-Trichloroethane	9.671	97	80924	3.3674663 ppbv		100
48) Carbon Tetrachloride	9.823	117	81912	3.4080073 ppbv		98
49) 2,2,4-Trimethylpentane	9.982	57	195345	3.7550000 ppbv	#	93
51) Benzene	10.073	78	130196	3.7139975 ppbv		98
52) TERT-AMYL METHYL ETHER	10.079	73	106150	3.9421242 ppbv	#	94
53) 1,2-Dichloroethane	10.153	62	67696	3.4908319 ppbv		99
54) Heptane	10.140	71	37695	3.7492532 ppbv		98
55) Trichloroethene	10.738	95	50037	3.5246277 ppbv		100
56) TERT-AMYL ETHYL ETHER	10.854	73	31030	3.8378145 ppbv		84
57) METHYL CYCLOHEXANE	10.896	83	61835	3.9937499 ppbv		88
58) 1,2-Dichloropropane	11.049	63	54889	3.5956738 ppbv		94
59) Methyl Methacrylate	11.012	69	37804	3.6297303 ppbv		97
60) 1,4-Dioxane	11.146	88	23253	4.1695460 ppbv		98
61) Bromodichloromethane	11.305	83	88768	3.4354657 ppbv		98
62) cis-1,3-Dichloropropene	11.792	75	68120	3.8421571 ppbv		97
63) 4-Methyl-2-Pentanone (...	11.896	43	118853	3.8313549 ppbv		97
64) n-OCTANE	12.036	43	122661	4.3822372 ppbv		99
65) Toluene	12.134	91	136366	3.8242219 ppbv		99
66) trans-1,3-Dichloropropene	12.402	75	55706	3.8450294 ppbv		99
67) 1,1,2-Trichloroethane	12.628	97	43494	3.4731219 ppbv		98
68) Tetrachloroethene	12.731	166	47795	3.5810352 ppbv		99
69) Methyl Butyl Ketone	12.798	43	102717	4.0854832 ppbv		97
70) Chlorodibromomethane	13.042	129	70242	3.5455662 ppbv		100
71) 1,2-Dibromoethane	13.207	107	61271	3.6298146 ppbv		97
72) Chlorobenzene	13.621	112	91064	3.3990295 ppbv		97
73) NONANE	13.597	43	105622	3.5396662 ppbv		99
75) Ethylbenzene	13.652	91	151965	3.7000236 ppbv		100
76) M&P-Xylene	13.755	91	234603	8.0332449 ppbv		99
77) O-Xylene	14.170	91	109633	4.0950027 ppbv		100
80) Styrene	14.188	104	80954	4.2548693 ppbv		98
81) Bromoform	14.457	173	60152	3.4373058 ppbv		99
82) Isopropylbenzene	14.499	105	148644	4.4260529 ppbv		99
83) n-DECANE	14.914	43	119267	4.1747830 ppbv		99
84) 1,1,2,2-Tetrachloroethane	14.859	83	106093	3.4878985 ppbv		100
85) n-Propylbenzene	14.914	91	211453	3.8437801 ppbv		99
86) 4-Ethyltoluene	15.024	105	148513	4.0369814 ppbv		98
87) 2-Chlorotoluene	15.078	91	143860	3.6849751 ppbv		100
89) 1,3,5-Trimethylbenzene	15.078	105	129904	4.0427317 ppbv		96
90) tert-Butylbenzene	15.408	119	108294	4.1282209 ppbv		97
91) 1,2,4-Trimethylbenzene	15.462	105	129414	4.1667777 ppbv		100
92) sec-Butylbenzene	15.621	105	190357	4.2038646 ppbv		98
93) 1,3-Dichlorobenzene	15.822	146	87588	3.6426261 ppbv		94
94) P-ISOPROPYLTOLUENE	15.737	119	152691	4.3083768 ppbv		99
95) 1,4-Dichlorobenzene	15.908	146	91197	3.7504435 ppbv		99
96) 1,2,3-TRIMETHYLBENZENE	15.895	105	135238	4.2462979 ppbv		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_08.D
Acq On : 30 Apr 2024 7:52 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 24D28181
Misc : 24D29341
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:08:09 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:07:50 2024
Response via : Initial Calibration

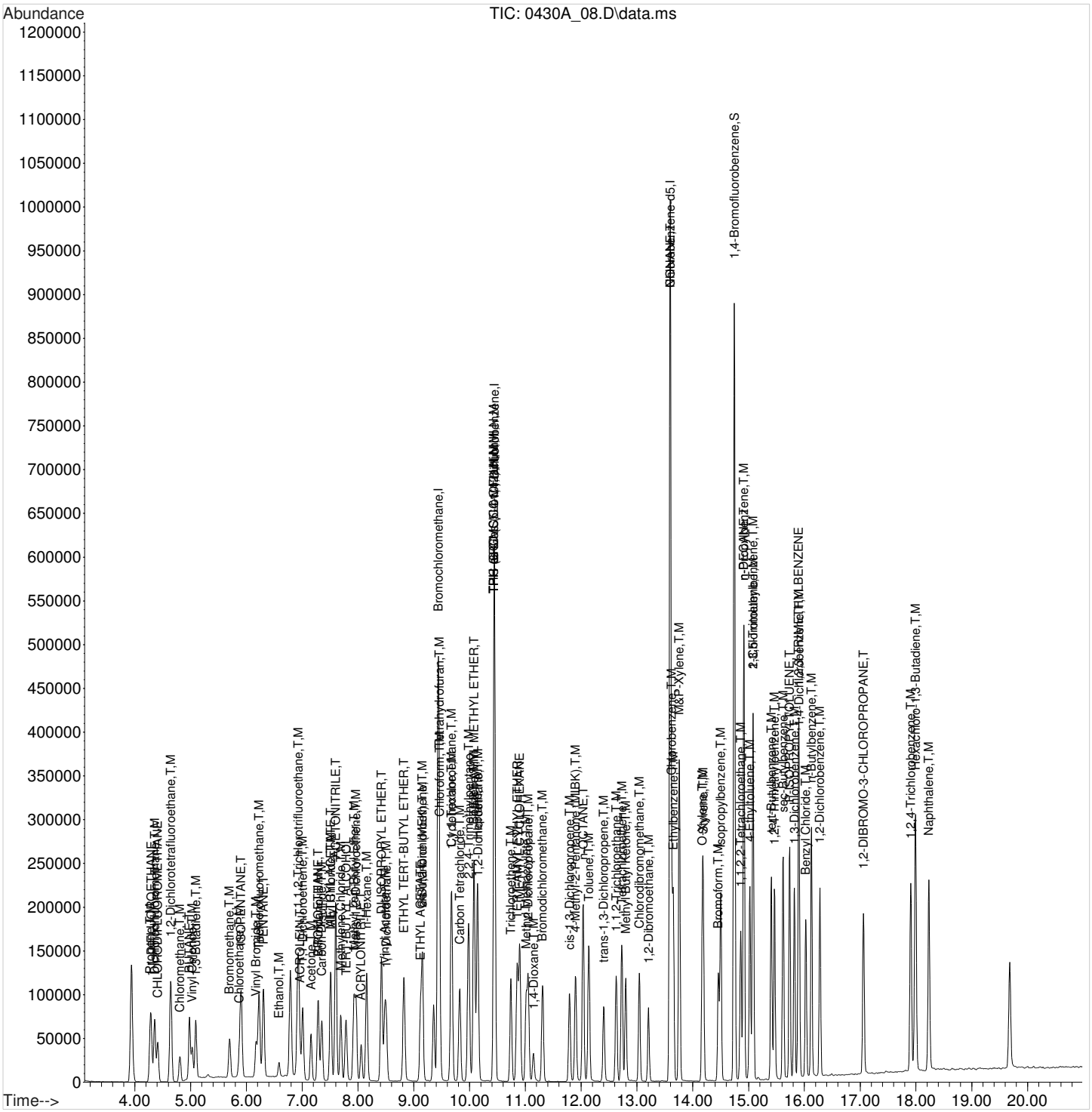
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	Benzyl Chloride	16.023	91	136106	3.9443249	ppbv	99
98)	n-Butylbenzene	16.127	91	175078	4.1197398	ppbv	98
99)	1,2-Dichlorobenzene	16.279	146	86594	3.6795559	ppbv	98
100)	1,2-DIBROMO-3-CHLOROPR...	17.060	157	46502	3.7436272	ppbv	99
101)	1,2,4-Trichlorobenzene	17.907	180	76309	3.9201589	ppbv	97
102)	Hexachloro-1,3-Butadiene	17.992	225	70484	3.5248114	ppbv	99
103)	Naphthalene	18.230	128	198759	4.3338857	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_08.D
Acq On : 30 Apr 2024 7:52 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 24D28181
Misc : 24D29341
ALS Vial : 8 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:08:09 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:07:50 2024
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_09.D
Acq On : 30 Apr 2024 8:34 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:08:35 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:08:15 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.433	130	136414	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	10.439	114	512357	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	13.591	117	420739	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	14.743	95	339635	3.9424476	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 98.56%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	41568097m	430.2132457	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	52033975m	565.8286353	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	74515461m	566.0420117	ppbv	
5) Propene	4.264	41	105054	9.0251078	ppbv	97
6) BUTANE	4.971	43	209835	8.6056328	ppbv	100
7) 1,1-DIFLUOROETHANE	4.288	65	68366	7.8588678	ppbv	98
8) Dichlorodifluoromethane	4.343	85	270589	9.2892089	ppbv	99
9) CHLORODIFLUOROMETHANE	4.404	67	29352	9.0135182	ppbv	86
10) 1,2-Dichlorotetrafluor...	4.635	85	273020	9.2662040	ppbv	99
11) Chloromethane	4.800	50	118891	8.9847295	ppbv	98
12) Vinyl Chloride	5.019	62	125184	9.1537258	ppbv	99
13) 1,3-Butadiene	5.087	54	93097	8.9423411	ppbv	92
14) Bromomethane	5.690	94	101691	8.5952657	ppbv	98
15) Chloroethane	5.861	64	56974	8.6806334	ppbv	98
16) ISOPENTANE	5.897	43	151993	9.0045244	ppbv	96
17) Vinyl Bromide	6.166	106	91458	9.1212375	ppbv	97
18) Trichlorofluoromethane	6.220	101	288768	9.1948395	ppbv	98
19) PENTANE	6.300	43	229492	9.3581245	ppbv	99
20) Ethanol	6.574	45	54674	6.0114719	ppbv	98
21) ACROLEIN	6.946	56	54597	8.3475735	ppbv	100
22) 1,1,2-Trichlorotrifluo...	6.922	101	222702	9.1141791	ppbv	98
23) 1,1-Dichloroethene	7.007	61	194765	9.0634069	ppbv	98
24) Acetone	7.147	58	55836	8.0220142	ppbv	92
25) BROMOETHANE	7.281	108	76952	9.5472056	ppbv	99
26) 2-Propanol	7.275	45	254276	9.5084480	ppbv #	91
27) Carbon Disulfide	7.348	76	318482	8.4968769	ppbv	98
28) Allyl Chloride	7.501	76	47688	10.2639057	ppbv	94
29) METHYL ACETATE	7.507	43	275371	9.3580617	ppbv #	100
30) ACETONITRILE	7.592	41	651136	36.6589205	ppbv	99
31) Methylene Chloride	7.690	49	164937	8.8639576	ppbv	99
32) TERT-BUTYL ALCOHOL	7.769	59	250561	10.3406194	ppbv	92
33) Methyl Tert-Butyl Ether	7.915	73	278006	10.5129380	ppbv	100
34) Trans-1,2-Dichloroethene	7.964	61	177004	9.9843152	ppbv	98
35) ACRYLONITRILE	8.055	53	101349	9.2183833	ppbv	98
36) n-Hexane	8.153	57	176172	10.9030230	ppbv	94
37) 1,1-Dichloroethane	8.501	63	222655	9.4661247	ppbv	98
38) Vinyl Acetate	8.470	43	355168	11.7957695	ppbv	100
39) DI-ISOPROPYL ETHER	8.409	45	439926	11.0186616	ppbv	91
40) ETHYL TERT-BUTYL ETHER	8.818	59	345132	10.8943194	ppbv	99
41) ETHYL ACETATE	9.110	70	29058	9.8053094	ppbv	94

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_09.D
Acq On : 30 Apr 2024 8:34 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:08:35 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:08:15 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone (MEK)	9.147	72	54339	10.6953593	ppbv	100
43) cis-1,2-Dichloroethene	9.153	61	211353	10.1896241	ppbv	99
44) Tetrahydrofuran	9.452	42	159920	10.1380955	ppbv	97
45) Chloroform	9.458	83	247838	9.0517407	ppbv	98
46) Cyclohexane	9.677	84	121857	11.2017698	ppbv	98
47) 1,1,1-Trichloroethane	9.671	97	221447	9.5235781	ppbv	99
48) Carbon Tetrachloride	9.823	117	220640	9.4699205	ppbv	100
49) 2,2,4-Trimethylpentane	9.982	57	575572	11.2374580	ppbv	96
51) Benzene	10.073	78	345938	9.9179503	ppbv	97
52) TERT-AMYL METHYL ETHER	10.073	73	302082	11.1616072	ppbv	94
53) 1,2-Dichloroethane	10.147	62	182508	9.5535228	ppbv	97
54) Heptane	10.140	71	112137	11.1920229	ppbv	93
55) Trichloroethene	10.738	95	139153	9.9350681	ppbv	100
56) TERT-AMYL ETHYL ETHER	10.848	73	93595	11.5703737	ppbv	94
57) METHYL CYCLOHEXANE	10.896	83	179397	11.5018140	ppbv	94
58) 1,2-Dichloropropane	11.049	63	150531	9.9630934	ppbv	99
59) Methyl Methacrylate	11.012	69	113196	10.9642662	ppbv	99
60) 1,4-Dioxane	11.134	88	65407	11.5529989	ppbv	98
61) Bromodichloromethane	11.305	83	238956	9.4112068	ppbv	99
62) cis-1,3-Dichloropropene	11.786	75	199493	11.2444232	ppbv	97
63) 4-Methyl-2-Pentanone (...	11.896	43	349837	11.2752121	ppbv	98
64) n-OCTANE	12.030	43	356410	12.4276315	ppbv	99
65) Toluene	12.134	91	379730	10.6503982	ppbv	100
66) trans-1,3-Dichloropropene	12.402	75	162886	11.2340223	ppbv	100
67) 1,1,2-Trichloroethane	12.628	97	118159	9.5855968	ppbv	97
68) Tetrachloroethene	12.725	166	135948	10.2980936	ppbv	98
69) Methyl Butyl Ketone	12.792	43	297884	11.7139890	ppbv	99
70) Chlorodibromomethane	13.042	129	194796	9.9567363	ppbv	99
71) 1,2-Dibromoethane	13.207	107	171104	10.2258611	ppbv	99
72) Chlorobenzene	13.621	112	246107	9.3636295	ppbv	98
73) NONANE	13.597	43	298895	10.1458806	ppbv	97
75) Ethylbenzene	13.652	91	423501	10.1310722	ppbv	99
76) M&P-Xylene	13.756	91	670849	22.2556594	ppbv	99
77) O-Xylene	14.170	91	323577	11.6696054	ppbv	100
80) Styrene	14.188	104	237161	11.9516611	ppbv	99
81) Bromoform	14.457	173	173509	9.8569462	ppbv	99
82) Isopropylbenzene	14.499	105	415107	11.7637733	ppbv	99
83) n-DECANE	14.914	43	332783	11.2079545	ppbv	98
84) 1,1,2,2-Tetrachloroethane	14.859	83	273030	8.9032912	ppbv	99
85) n-Propylbenzene	14.914	91	581091	10.3123296	ppbv	99
86) 4-Ethyltoluene	15.024	105	434161	11.4238670	ppbv	98
87) 2-Chlorotoluene	15.078	91	400026	10.0742792	ppbv	100
89) 1,3,5-Trimethylbenzene	15.078	105	375762	11.3168543	ppbv	96
90) tert-Butylbenzene	15.408	119	319297	11.7351317	ppbv	99
91) 1,2,4-Trimethylbenzene	15.463	105	372009	11.5285799	ppbv	99
92) sec-Butylbenzene	15.621	105	534804	11.3494691	ppbv	99
93) 1,3-Dichlorobenzene	15.822	146	240276	9.8431068	ppbv	94
94) P-ISOPROPYLTOLUENE	15.737	119	433411	11.6984491	ppbv	99
95) 1,4-Dichlorobenzene	15.908	146	238188	9.6025754	ppbv	100
96) 1,2,3-TRIMETHYLBENZENE	15.895	105	368463	11.0969730	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_09.D
Acq On : 30 Apr 2024 8:34 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:08:35 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:08:15 2024
Response via : Initial Calibration

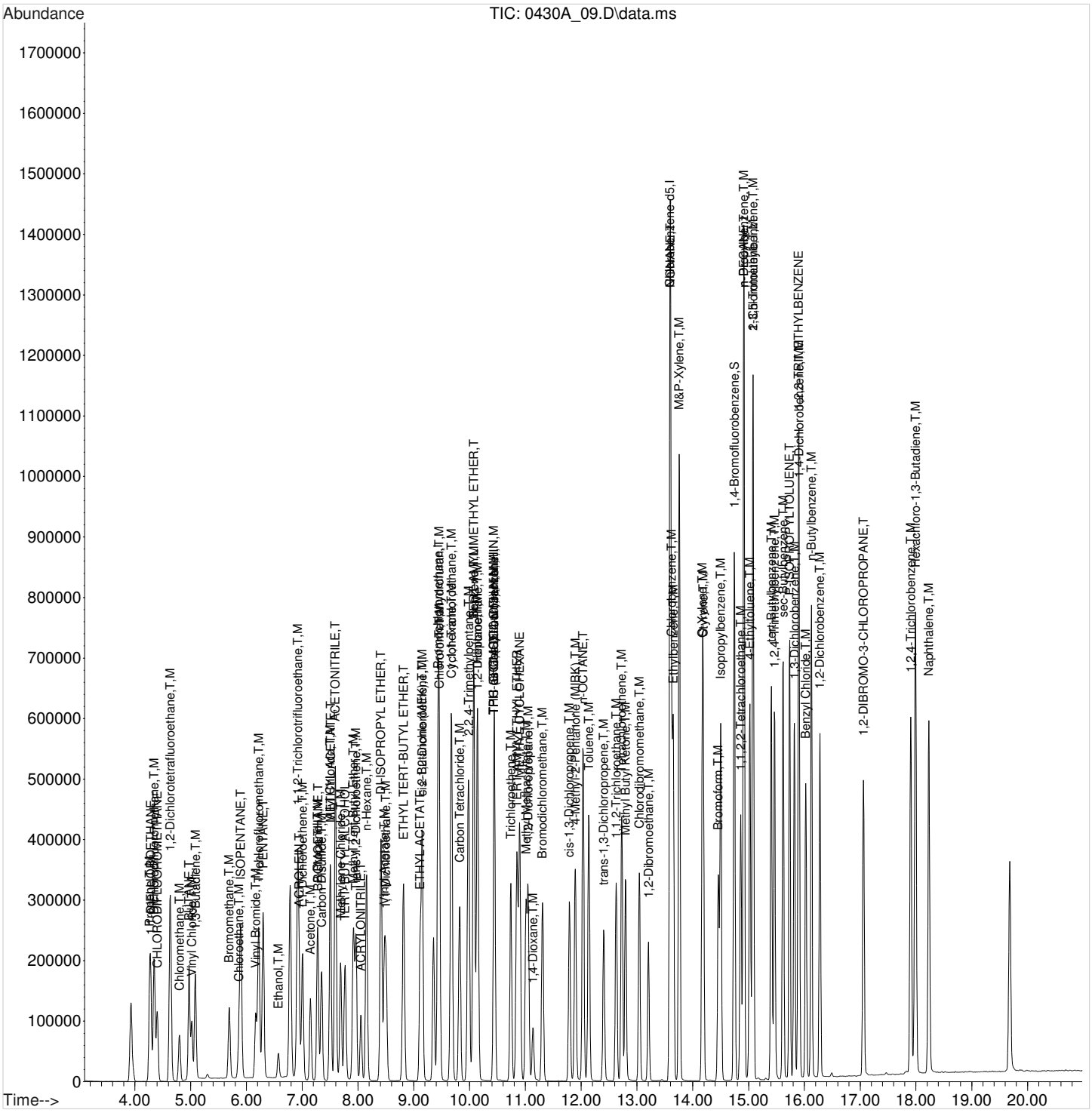
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	Benzyl Chloride	16.023	91	369817	10.4165011	ppbv	99
98)	n-Butylbenzene	16.127	91	490237	11.1260223	ppbv	99
99)	1,2-Dichlorobenzene	16.279	146	232447	9.7133206	ppbv	98
100)	1,2-DIBROMO-3-CHLOROPR...	17.060	157	124319	9.8142208	ppbv	99
101)	1,2,4-Trichlorobenzene	17.907	180	210182	10.5057175	ppbv	98
102)	Hexachloro-1,3-Butadiene	17.993	225	188249	9.3222518	ppbv	99
103)	Naphthalene	18.230	128	539781	11.2464686	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_09.D
Acq On : 30 Apr 2024 8:34 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 9 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:08:35 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:08:15 2024
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_10.D
Acq On : 30 Apr 2024 9:16 pm
Operator :
Sample : STD AMS 25.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:09:09 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:08:15 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.439	130	142731	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	10.445	114	539600	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	13.597	117	443800	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	14.743	95	350715	3.8595201	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 96.49%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	106386396m	1052.3261494	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	132214384m	1374.0965716	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	186889004m	1356.8338053	ppbv	
5) Propene	4.269	41	259335	21.2932314	ppbv	97
6) BUTANE	4.977	43	515001	20.1861543	ppbv	100
7) 1,1-DIFLUOROETHANE	4.288	65	168501	18.5124087	ppbv	96
8) Dichlorodifluoromethane	4.349	85	627210	20.5789021	ppbv	100
9) CHLORODIFLUOROMETHANE	4.404	67	71866	21.0921452	ppbv	84
10) 1,2-Dichlorotetrafluor...	4.635	85	672783	21.8234315	ppbv	99
11) Chloromethane	4.806	50	291665	21.0659467	ppbv	99
12) Vinyl Chloride	5.025	62	318067	22.2284060	ppbv	99
13) 1,3-Butadiene	5.086	54	238827	21.9250002	ppbv	98
14) Bromomethane	5.696	94	253036	20.4408870	ppbv	100
15) Chloroethane	5.867	64	143640	20.9165829	ppbv	98
16) ISOPENTANE	5.903	43	390905	22.1334470	ppbv	96
17) Vinyl Bromide	6.172	106	240964	22.9680890	ppbv	99
18) Trichlorofluoromethane	6.220	101	718215	21.8569819	ppbv	100
19) PENTANE	6.300	43	586688	22.8648896	ppbv	99
20) Ethanol	6.574	45	134639	14.1485353	ppbv	100
21) ACROLEIN	6.952	56	138562	20.2477258	ppbv	98
22) 1,1,2-Trichlorotrifluo...	6.921	101	542261	21.2100868	ppbv	99
23) 1,1-Dichloroethene	7.007	61	498204	22.1578903	ppbv	100
24) Acetone	7.147	58	146010	20.0489839	ppbv	96
25) BROMOETHANE	7.281	108	200684	23.7963172	ppbv	99
26) 2-Propanol	7.275	45	672333	24.0286475	ppbv	97
27) Carbon Disulfide	7.348	76	806770	20.5714456	ppbv	100
28) Allyl Chloride	7.507	76	124461	25.6022106	ppbv	95
29) METHYL ACETATE	7.507	43	683504	22.1998172	ppbv #	100
30) ACETONITRILE	7.598	41	1604790	86.3508883	ppbv	99
31) Methylene Chloride	7.689	49	416858	21.4110692	ppbv	100
32) TERT-BUTYL ALCOHOL	7.769	59	683496	26.9593671	ppbv	96
33) Methyl Tert-Butyl Ether	7.915	73	757886	27.3914142	ppbv	99
34) Trans-1,2-Dichloroethene	7.964	61	459437	24.7686196	ppbv	99
35) ACRYLONITRILE	8.055	53	265867	23.1121510	ppbv	98
36) n-Hexane	8.153	57	477344	28.2346329	ppbv	96
37) 1,1-Dichloroethane	8.506	63	569885	23.1562181	ppbv	98
38) Vinyl Acetate	8.476	43	1000022	31.7426104	ppbv	100
39) DI-ISOPROPYL ETHER	8.409	45	1188040	28.4394316	ppbv	97
40) ETHYL TERT-BUTYL ETHER	8.811	59	958029	28.9024173	ppbv	98
41) ETHYL ACETATE	9.110	70	76497	24.6706516	ppbv	96

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_10.D
Acq On : 30 Apr 2024 9:16 pm
Operator :
Sample : STD AMS 25.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:09:09 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:08:15 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 2-Butanone (MEK)	9.147	72	141426	26.6044099 ppbv	100
43) cis-1,2-Dichloroethene	9.153	61	552766	25.4701619 ppbv	99
44) Tetrahydrofuran	9.445	42	424769	25.7363555 ppbv	98
45) Chloroform	9.464	83	625434	21.8316385 ppbv	99
46) Cyclohexane	9.677	84	336964	29.6046751 ppbv	98
47) 1,1,1-Trichloroethane	9.671	97	556922	22.8910312 ppbv	99
48) Carbon Tetrachloride	9.823	117	564457	23.1544027 ppbv	99
49) 2,2,4-Trimethylpentane	9.982	57	1537518	28.6899154 ppbv	98
51) Benzene	10.073	78	887324	24.1549766 ppbv	98
52) TERT-AMYL METHYL ETHER	10.073	73	824177	28.9149944 ppbv	97
53) 1,2-Dichloroethane	10.152	62	458267	22.7772326 ppbv	97
54) Heptane	10.140	71	293418	27.8065522 ppbv	92
55) Trichloroethene	10.738	95	362180	24.5529383 ppbv	98
56) TERT-AMYL ETHYL ETHER	10.847	73	255909	30.0386928 ppbv #	44
57) METHYL CYCLOHEXANE	10.896	83	474619	28.8932915 ppbv #	75
58) 1,2-Dichloropropane	11.049	63	381418	23.9701179 ppbv	97
59) Methyl Methacrylate	11.012	69	306490	28.1880824 ppbv	100
60) 1,4-Dioxane	11.134	88	175285	29.3978784 ppbv	99
61) Bromodichloromethane	11.311	83	607785	22.7288827 ppbv	99
62) cis-1,3-Dichloropropene	11.792	75	557943	29.8607070 ppbv	98
63) 4-Methyl-2-Pentanone (...	11.890	43	932175	28.5270699 ppbv	99
64) n-OCTANE	12.036	43	946957	31.3523051 ppbv	98
65) Toluene	12.134	91	1003814	26.7328289 ppbv	99
66) trans-1,3-Dichloropropene	12.402	75	443400	29.0367459 ppbv	100
67) 1,1,2-Trichloroethane	12.628	97	303600	23.3859411 ppbv	98
68) Tetrachloroethene	12.731	166	351279	25.2660257 ppbv	99
69) Methyl Butyl Ketone	12.792	43	811425	30.2974971 ppbv	99
70) Chlorodibromomethane	13.042	129	502305	24.3784002 ppbv	99
71) 1,2-Dibromoethane	13.207	107	439086	24.9166728 ppbv	99
72) Chlorobenzene	13.621	112	637208	23.0198350 ppbv	95
73) NONANE	13.597	43	790179	25.4681451 ppbv	98
75) Ethylbenzene	13.652	91	1095630	24.8479382 ppbv	100
76) M&P-Xylene	13.762	91	1779497	55.9678240 ppbv	99
77) O-Xylene	14.170	91	876326	29.9619239 ppbv	99
80) Styrene	14.188	104	632159	30.2020758 ppbv	98
81) Bromoform	14.463	173	458462	24.6915978 ppbv	99
82) Isopropylbenzene	14.499	105	1130853	30.3821300 ppbv	100
83) n-DECANE	14.914	43	854021	27.2683744 ppbv	97
84) 1,1,2,2-Tetrachloroethane	14.859	83	688527	21.2856374 ppbv	99
85) n-Propylbenzene	14.920	91	1504815	25.3175235 ppbv	99
86) 4-Ethyltoluene	15.023	105	1192740	29.7531935 ppbv	100
87) 2-Chlorotoluene	15.084	91	1011847	24.1582840 ppbv	100
89) 1,3,5-Trimethylbenzene	15.078	105	931951	26.6091756 ppbv	99
90) tert-Butylbenzene	15.408	119	854588	29.7766196 ppbv	99
91) 1,2,4-Trimethylbenzene	15.468	105	1003221	29.4743647 ppbv	99
92) sec-Butylbenzene	15.621	105	1417736	28.5234293 ppbv	100
93) 1,3-Dichlorobenzene	15.822	146	611759	23.7589718 ppbv	94
94) P-ISOPROPYLTOLUENE	15.737	119	1171589	29.9798267 ppbv	99
95) 1,4-Dichlorobenzene	15.907	146	631754	24.1457846 ppbv	100
96) 1,2,3-TRIMETHYLBENZENE	15.895	105	1014776	28.9738565 ppbv	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_10.D
Acq On : 30 Apr 2024 9:16 pm
Operator :
Sample : STD AMS 25.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS13

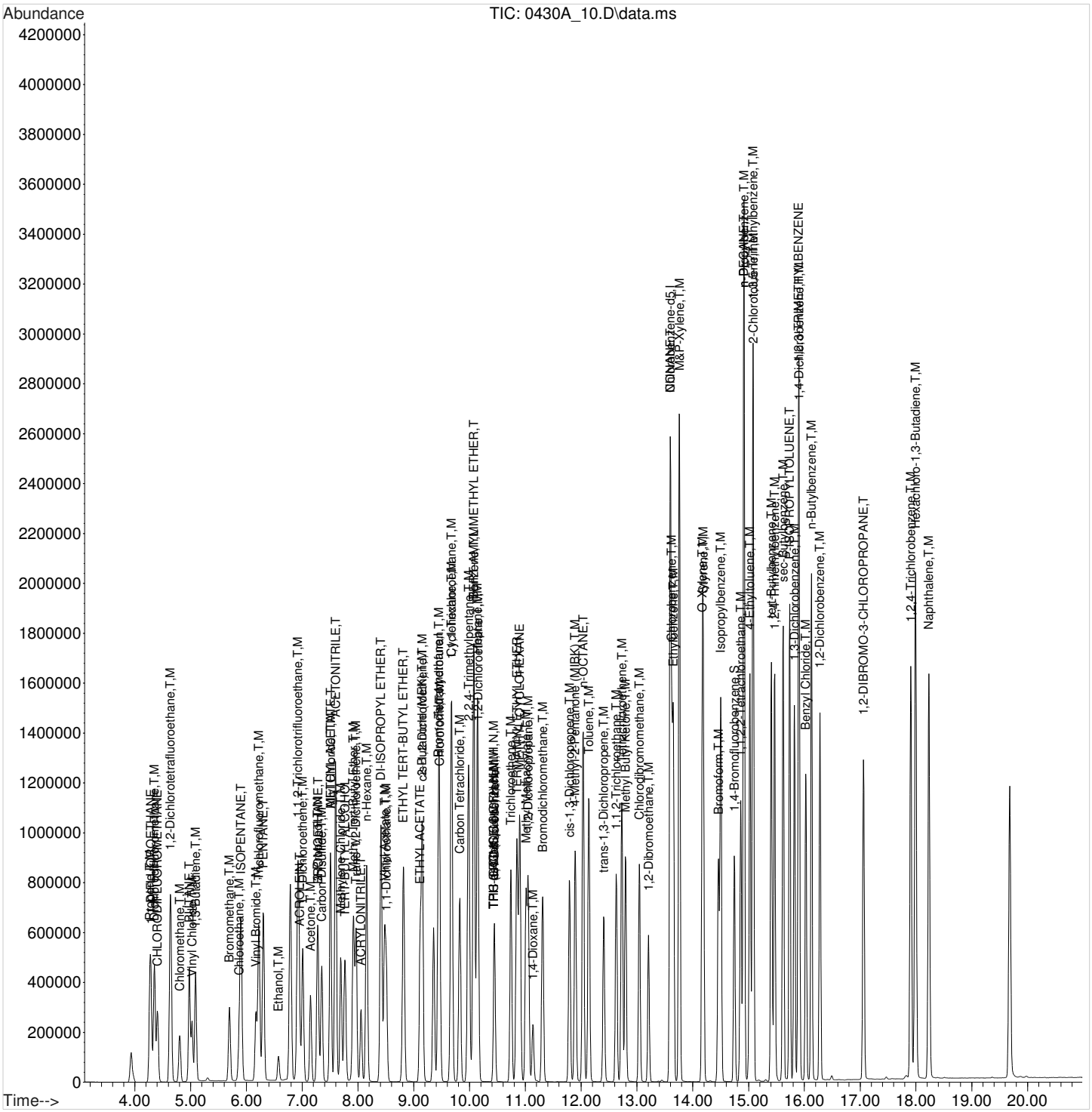
Quant Time: May 01 08:09:09 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:08:15 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97) Benzyl Chloride	16.023	91	942391	25.1646907 ppbv	100
98) n-Butylbenzene	16.127	91	1283622	27.6182696 ppbv	99
99) 1,2-Dichlorobenzene	16.279	146	603737	23.9175695 ppbv	99
100) 1,2-DIBROMO-3-CHLOROPR...	17.060	157	330132	24.7076485 ppbv	98
101) 1,2,4-Trichlorobenzene	17.907	180	578213	27.3995558 ppbv	99
102) Hexachloro-1,3-Butadiene	17.992	225	501469	23.5427784 ppbv	99
103) Naphthalene	18.230	128	1525810	30.1386997 ppbv	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_10.D
Acq On : 30 Apr 2024 9:16 pm
Operator :
Sample : STD AMS 25.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 10 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:09:09 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:08:15 2024
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_11.D
Acq On : 30 Apr 2024 10:02 pm
Operator :
Sample : STD AMS 50.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:10:03 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:09:41 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.439	130	142728	4.0000000	ppbv	# 0.00
50) 1,4-Difluorobenzene	10.445	114	558457	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	13.597	117	439964	4.0000000	ppbv	# 0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	14.743	95	354812	3.9631764	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 99.08%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	215221881m	2180.4507192	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	266817969m	2912.6647121	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	375630396m	3044.0889398	ppbv	
5) Propene	4.276	41	490970	41.5906081	ppbv	97
6) BUTANE	4.983	43	988396	40.4196894	ppbv	99
7) 1,1-DIFLUOROETHANE	4.294	65	327498	38.2456365	ppbv	95
8) Dichlorodifluoromethane	4.355	85	1068965	36.1954309	ppbv	100
9) CHLORODIFLUOROMETHANE	4.410	67	143551	43.5190177	ppbv	76
10) 1,2-Dichlorotetrafluor...	4.641	85	1341025	44.6184057	ppbv	98
11) Chloromethane	4.806	50	550777	41.1119703	ppbv	99
12) Vinyl Chloride	5.032	62	626792	44.9021041	ppbv	99
13) 1,3-Butadiene	5.093	54	468575	44.2837529	ppbv	99
14) Bromomethane	5.696	94	524709	44.1707064	ppbv	99
15) Chloroethane	5.867	64	284183	42.9690067	ppbv	97
16) ISOPENTANE	5.903	43	761856	44.3248356	ppbv	98
17) Vinyl Bromide	6.172	106	494139	48.1185121	ppbv	98
18) Trichlorofluoromethane	6.226	101	1461583	45.6573932	ppbv	99
19) PENTANE	6.306	43	1146542	45.5364066	ppbv	99
20) Ethanol	6.574	45	265360	31.1266517	ppbv	98
21) ACROLEIN	6.952	56	290816	44.4724425	ppbv	98
22) 1,1,2-Trichlorotrifluo...	6.928	101	1119705	45.1528412	ppbv	98
23) 1,1-Dichloroethene	7.013	61	1012349	46.2237365	ppbv	99
24) Acetone	7.147	58	286531	41.3932194	ppbv	98
25) BROMOETHANE	7.287	108	412833	49.5315847	ppbv	99
26) 2-Propanol	7.269	45	1352914	48.8909456	ppbv	100
27) Carbon Disulfide	7.354	76	1603379	42.6295654	ppbv	100
28) Allyl Chloride	7.507	76	260256	53.2013098	ppbv	90
29) METHYL ACETATE	7.507	43	1357845	45.0962027	ppbv #	99
30) ACETONITRILE	7.598	41	3112853	180.4966774	ppbv	100
31) Methylene Chloride	7.696	49	823370	43.6962499	ppbv	98
32) TERT-BUTYL ALCOHOL	7.763	59	1395430	54.2787165	ppbv	97
33) Methyl Tert-Butyl Ether	7.915	73	1550195	55.0175120	ppbv	99
34) Trans-1,2-Dichloroethene	7.970	61	935238	50.4888049	ppbv	98
35) ACRYLONITRILE	8.055	53	538487	47.7291842	ppbv	99
36) n-Hexane	8.153	57	970770	55.8870038	ppbv	97
37) 1,1-Dichloroethane	8.507	63	1135538	46.8865846	ppbv	98
38) Vinyl Acetate	8.476	43	2044393	61.4436224	ppbv	100
39) DI-ISOPROPYL ETHER	8.409	45	2367979	55.0387973	ppbv	99
40) ETHYL TERT-BUTYL ETHER	8.811	59	1926814	56.3995860	ppbv	98
41) ETHYL ACETATE	9.116	70	157825	51.1089374	ppbv	98

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_11.D
Acq On : 30 Apr 2024 10:02 pm
Operator :
Sample : STD AMS 50.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:10:03 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:09:41 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 2-Butanone (MEK)	9.147	72	290818	53.8091291 ppbv	98
43) cis-1,2-Dichloroethene	9.153	61	1106855	50.7627002 ppbv	98
44) Tetrahydrofuran	9.445	42	813558	49.0286073 ppbv	97
45) Chloroform	9.464	83	1229073	44.1254507 ppbv	99
46) Cyclohexane	9.677	84	689330	58.3440690 ppbv	96
47) 1,1,1-Trichloroethane	9.677	97	1110175	46.3977843 ppbv	100
48) Carbon Tetrachloride	9.823	117	1154294	48.1136988 ppbv	99
49) 2,2,4-Trimethylpentane	9.982	57	3175655	57.3146294 ppbv	99
51) Benzene	10.079	78	1791579	47.3727866 ppbv	98
52) TERT-AMYL METHYL ETHER	10.073	73	1710785	56.0815222 ppbv	98
53) 1,2-Dichloroethane	10.153	62	912495	44.5663157 ppbv	97
54) Heptane	10.140	71	602949	53.6581945 ppbv	91
55) Trichloroethene	10.738	95	745035	48.9511819 ppbv	98
56) TERT-AMYL ETHYL ETHER	10.848	73	536758	58.2657602 ppbv #	42
57) METHYL CYCLOHEXANE	10.902	83	997560	56.5165617 ppbv #	73
58) 1,2-Dichloropropane	11.049	63	769213	46.9722518 ppbv	97
59) Methyl Methacrylate	11.012	69	642120	55.5082010 ppbv	99
60) 1,4-Dioxane	11.134	88	367410	57.1723514 ppbv	99
61) Bromodichloromethane	11.311	83	1249853	46.0229349 ppbv	100
62) cis-1,3-Dichloropropene	11.792	75	1173355	58.3508923 ppbv	99
63) 4-Methyl-2-Pentanone (...	11.890	43	1877670	53.7178939 ppbv	99
64) n-OCTANE	12.036	43	1918536	57.7860668 ppbv	97
65) Toluene	12.140	91	2081091	52.6661918 ppbv	98
66) trans-1,3-Dichloropropene	12.402	75	925583	56.5527863 ppbv	99
67) 1,1,2-Trichloroethane	12.628	97	625312	47.1655672 ppbv	98
68) Tetrachloroethene	12.731	166	739188	51.1130110 ppbv	98
69) Methyl Butyl Ketone	12.792	43	1627594	56.0352989 ppbv	99
70) Chlorodibromomethane	13.042	129	1063990	50.0777721 ppbv	100
71) 1,2-Dibromoethane	13.207	107	915017	50.0504394 ppbv	99
72) Chlorobenzene	13.627	112	1289337	45.8241298 ppbv	94
73) NONANE	13.597	43	1521881	47.1986938 ppbv	95
75) Ethylbenzene	13.652	91	2270053	51.8861458 ppbv	99
76) M&P-Xylene	13.762	91	3610315	111.3098717 ppbv	100
77) O-Xylene	14.170	91	1795633	59.2233626 ppbv	99
80) Styrene	14.188	104	1288220	59.1035284 ppbv	97
81) Bromoform	14.463	173	978844	53.3553758 ppbv	99
82) Isopropylbenzene	14.499	105	2357025	60.8959465 ppbv	99
83) n-DECANE	14.914	43	1617551	50.7556878 ppbv	94
84) 1,1,2,2-Tetrachloroethane	14.859	83	1393742	44.9126636 ppbv	99
85) n-Propylbenzene	14.920	91	3018147	50.9413146 ppbv	99
86) 4-Ethyltoluene	15.024	105	2459384	59.4152891 ppbv	99
87) 2-Chlorotoluene	15.085	91	2105387	50.8721618 ppbv	100
89) 1,3,5-Trimethylbenzene	15.078	105	1966189	55.2737609 ppbv	98
90) tert-Butylbenzene	15.408	119	1788082	60.1065975 ppbv	100
91) 1,2,4-Trimethylbenzene	15.469	105	2071470	58.9448810 ppbv	99
92) sec-Butylbenzene	15.621	105	3000675	58.8668877 ppbv	100
93) 1,3-Dichlorobenzene	15.822	146	1301939	51.4243972 ppbv	93
94) P-ISOPROPYLTOLUENE	15.737	119	2391779	59.0146023 ppbv	99
95) 1,4-Dichlorobenzene	15.908	146	1308340	50.9114122 ppbv	100
96) 1,2,3-TRIMETHYLBENZENE	15.895	105	2130533	59.3676468 ppbv	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_11.D
Acq On : 30 Apr 2024 10:02 pm
Operator :
Sample : STD AMS 50.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS13

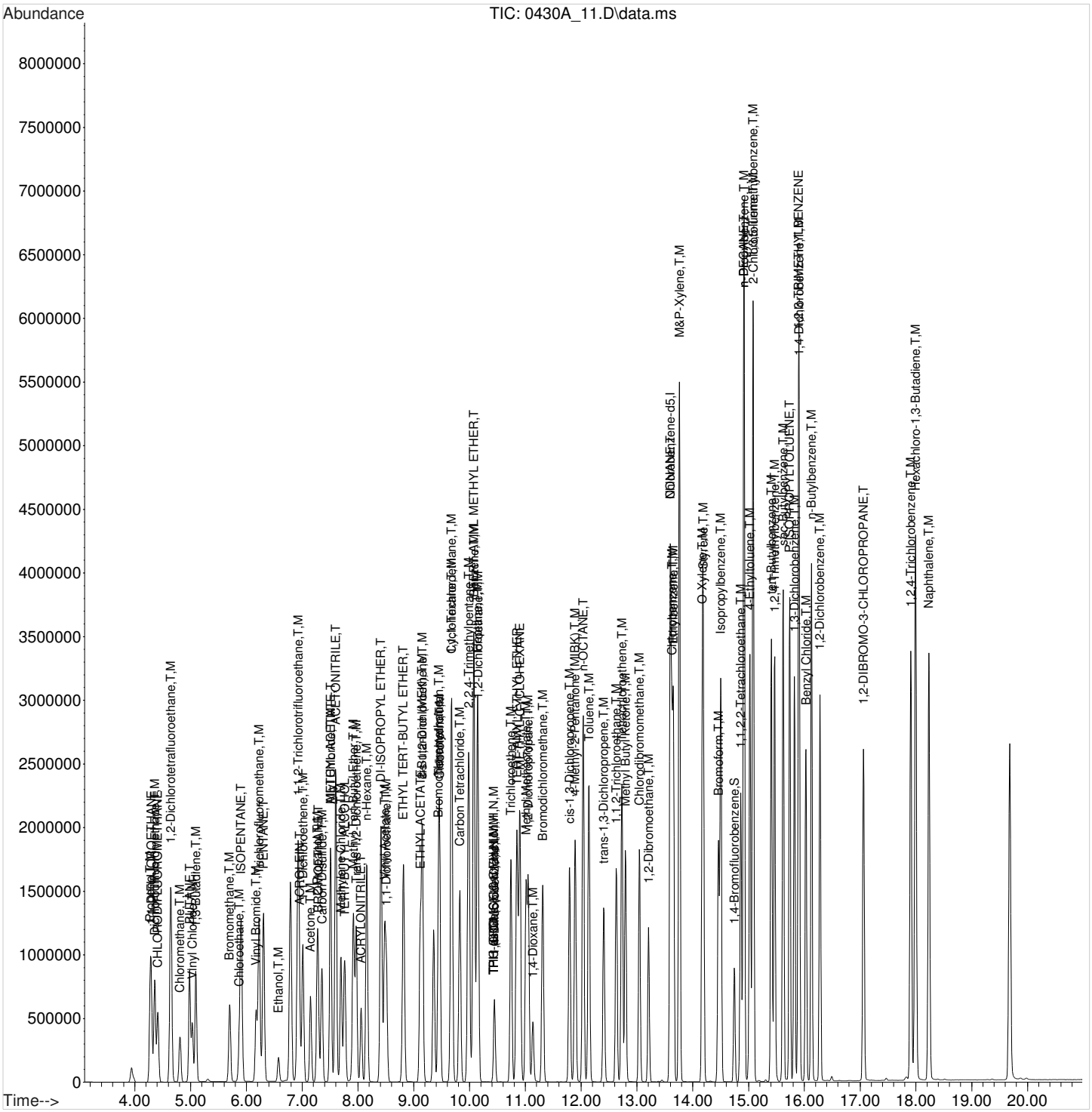
Quant Time: May 01 08:10:03 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:09:41 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	16.029	91	2047347	54.8164959	ppbv	100
98) n-Butylbenzene	16.127	91	2584771	54.6148368	ppbv	99
99) 1,2-Dichlorobenzene	16.279	146	1238154	49.9273494	ppbv	100
100) 1,2-DIBROMO-3-CHLOROPR...	17.060	157	690420	52.3207302	ppbv	97
101) 1,2,4-Trichlorobenzene	17.907	180	1225502	57.5249034	ppbv	98
102) Hexachloro-1,3-Butadiene	17.992	225	1067349	51.3556602	ppbv	98
103) Naphthalene	18.230	128	3184926	60.9436392	ppbv	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_11.D
Acq On : 30 Apr 2024 10:02 pm
Operator :
Sample : STD AMS 50.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:10:03 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:09:41 2024
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_12.D
Acq On : 30 Apr 2024 10:51 pm
Operator :
Sample : STD AMS 100.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:11:29 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:10:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.439	130	151523	4.0000000	ppbv	# 0.00
50) 1,4-Difluorobenzene	10.445	114	581876	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	13.597	117	474496	4.0000000	ppbv	# 0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	14.743	95	382627	3.9668864	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 99.17%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	440490673m	4237.6272066	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	544508016m	5697.5977636	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	770887586m	6129.1998229	ppbv	
5) Propene	4.282	41	1000404	81.3465315	ppbv	97
6) BUTANE	4.983	43	1990718	78.3516494	ppbv	98
7) 1,1-DIFLUOROETHANE	4.300	65	673434	76.0665664	ppbv	93
8) Dichlorodifluoromethane	4.361	85	1515302	49.8599092	ppbv	100
9) CHLORODIFLUOROMETHANE	4.416	67	296270	85.8403394	ppbv	74
10) 1,2-Dichlorotetrafluor...	4.647	85	2727967	86.5310517	ppbv	97
11) Chloromethane	4.812	50	1125904	80.7584820	ppbv	100
12) Vinyl Chloride	5.031	62	1273622	86.9285577	ppbv	100
13) 1,3-Butadiene	5.098	54	956648	86.2581569	ppbv	100
14) Bromomethane	5.702	94	1069149	85.8909263	ppbv	99
15) Chloroethane	5.873	64	577694	83.5843307	ppbv	97
16) ISOPENTANE	5.909	43	1561763	86.6825973	ppbv	99
17) Vinyl Bromide	6.178	106	1033691	95.2147082	ppbv	98
18) Trichlorofluoromethane	6.232	101	3027649	89.9570433	ppbv	99
19) PENTANE	6.312	43	2336752	88.2960646	ppbv	100
20) Ethanol	6.580	45	529330	61.0466334	ppbv	99
21) ACROLEIN	6.958	56	562463	82.0285319	ppbv	98
22) 1,1,2-Trichlorotrifluo...	6.934	101	2192671	84.1955081	ppbv	97
23) 1,1-Dichloroethene	7.013	61	2015412	87.4156308	ppbv	98
24) Acetone	7.153	58	580199	80.4918747	ppbv	99
25) BROMOETHANE	7.287	108	844259	95.5138692	ppbv	99
26) 2-Propanol	7.275	45	2642155	90.1610219	ppbv	99
27) Carbon Disulfide	7.354	76	3322165	84.5860270	ppbv	99
28) Allyl Chloride	7.513	76	544164	104.0407221	ppbv	82
29) METHYL ACETATE	7.513	43	2644775	83.6503479	ppbv #	97
30) ACETONITRILE	7.604	41	6066015	341.8784987	ppbv	100
31) Methylene Chloride	7.696	49	1637391	83.0154453	ppbv	96
32) TERT-BUTYL ALCOHOL	7.763	59	2791256	101.3075767	ppbv	99
33) Methyl Tert-Butyl Ether	7.921	73	3236274	106.9978181	ppbv	98
34) Trans-1,2-Dichloroethene	7.970	61	1889036	95.9560388	ppbv	97
35) ACRYLONITRILE	8.061	53	1074219	90.1424478	ppbv	99
36) n-Hexane	8.159	57	1977772	105.8660298	ppbv	97
37) 1,1-Dichloroethane	8.512	63	2264979	88.7068019	ppbv	97
38) Vinyl Acetate	8.476	43	4002875	110.5118732	ppbv	99
39) DI-ISOPROPYL ETHER	8.415	45	4670484	101.1224735	ppbv	97
40) ETHYL TERT-BUTYL ETHER	8.817	59	3972351	107.9895250	ppbv	97
41) ETHYL ACETATE	9.116	70	329175	100.1635251	ppbv	93

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_12.D
Acq On : 30 Apr 2024 10:51 pm
Operator :
Sample : STD AMS 100.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:11:29 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:10:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 2-Butanone (MEK)	9.146	72	589372	101.8577515 ppbv	98
43) cis-1,2-Dichloroethene	9.159	61	2247895	96.9449446 ppbv	97
44) Tetrahydrofuran	9.451	42	1604169	91.2599612 ppbv	95
45) Chloroform	9.463	83	2485312	85.1588652 ppbv	99
46) Cyclohexane	9.677	84	1438004	112.5592385 ppbv	92
47) 1,1,1-Trichloroethane	9.677	97	2303761	91.4248642 ppbv	100
48) Carbon Tetrachloride	9.823	117	2380854	93.8728459 ppbv	99
49) 2,2,4-Trimethylpentane	9.982	57	6385283	106.8169967 ppbv	99
51) Benzene	10.079	78	3623560	92.4976440 ppbv	98
52) TERT-AMYL METHYL ETHER	10.073	73	3550007	110.2003310 ppbv	99
53) 1,2-Dichloroethane	10.152	62	1856462	88.0841073 ppbv	96
54) Heptane	10.140	71	1242809	105.2938277 ppbv	87
55) Trichloroethene	10.744	95	1583341	100.0768560 ppbv	97
56) TERT-AMYL ETHYL ETHER	10.847	73	1130253	115.6285176 ppbv #	40
57) METHYL CYCLOHEXANE	10.902	83	2061005	110.4666089 ppbv #	71
58) 1,2-Dichloropropane	11.055	63	1559378	92.0105047 ppbv	99
59) Methyl Methacrylate	11.012	69	1302650	106.7687865 ppbv	97
60) 1,4-Dioxane	11.134	88	780830	114.7845466 ppbv	96
61) Bromodichloromethane	11.311	83	2543935	90.7059969 ppbv	99
62) cis-1,3-Dichloropropene	11.792	75	2357291	110.4599897 ppbv	98
63) 4-Methyl-2-Pentanone (...	11.890	43	3678081	100.1629021 ppbv	97
64) n-OCTANE	12.036	43	3742411	106.3442227 ppbv	94
65) Toluene	12.140	91	4352871	105.1018573 ppbv	99
66) trans-1,3-Dichloropropene	12.408	75	1925732	111.3051592 ppbv	97
67) 1,1,2-Trichloroethane	12.628	97	1305302	95.0917315 ppbv	98
68) Tetrachloroethene	12.731	166	1573216	104.1481038 ppbv	98
69) Methyl Butyl Ketone	12.792	43	3199393	104.3173511 ppbv	97
70) Chlorodibromomethane	13.042	129	2248230	101.5388955 ppbv	98
71) 1,2-Dibromoethane	13.207	107	1965363	103.1649389 ppbv	99
72) Chlorobenzene	13.627	112	2713061	93.4104742 ppbv	93
73) NONANE	13.597	43	3025267	90.6116997 ppbv #	91
75) Ethylbenzene	13.652	91	4722509	99.6681236 ppbv	98
76) M&P-Xylene	13.761	91	7383198	208.4462673 ppbv	99
77) O-Xylene	14.176	91	3837637	115.0038825 ppbv	99
80) Styrene	14.194	104	2815935	117.4174019 ppbv	96
81) Bromoform	14.463	173	2123912	106.5514953 ppbv	99
82) Isopropylbenzene	14.505	105	5020279	117.4211315 ppbv	99
83) n-DECANE	14.920	43	3182478	92.4374656 ppbv #	87
84) 1,1,2,2-Tetrachloroethane	14.859	83	2864141	86.5571906 ppbv	98
85) n-Propylbenzene	14.920	91	6389448	99.7861284 ppbv	98
86) 4-Ethyltoluene	15.023	105	5135917	112.6889996 ppbv	96
87) 2-Chlorotoluene	15.084	91	4526684	101.2213471 ppbv	99
89) 1,3,5-Trimethylbenzene	15.078	105	4285314	110.4080863 ppbv	96
90) tert-Butylbenzene	15.407	119	3766662	114.8232944 ppbv	100
91) 1,2,4-Trimethylbenzene	15.468	105	4467587	115.5784951 ppbv	99
92) sec-Butylbenzene	15.621	105	6279479	112.0175598 ppbv	100
93) 1,3-Dichlorobenzene	15.822	146	2778528m	101.4391086 ppbv	
94) P-ISOPROPYLTOLUENE	15.737	119	5182620	116.2407495 ppbv	99
95) 1,4-Dichlorobenzene	15.907	146	2811632	101.2415707 ppbv	99
96) 1,2,3-TRIMETHYLBENZENE	15.895	105	4562907	115.4888034 ppbv	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_12.D
Acq On : 30 Apr 2024 10:51 pm
Operator :
Sample : STD AMS 100.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:11:29 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:10:10 2024
Response via : Initial Calibration

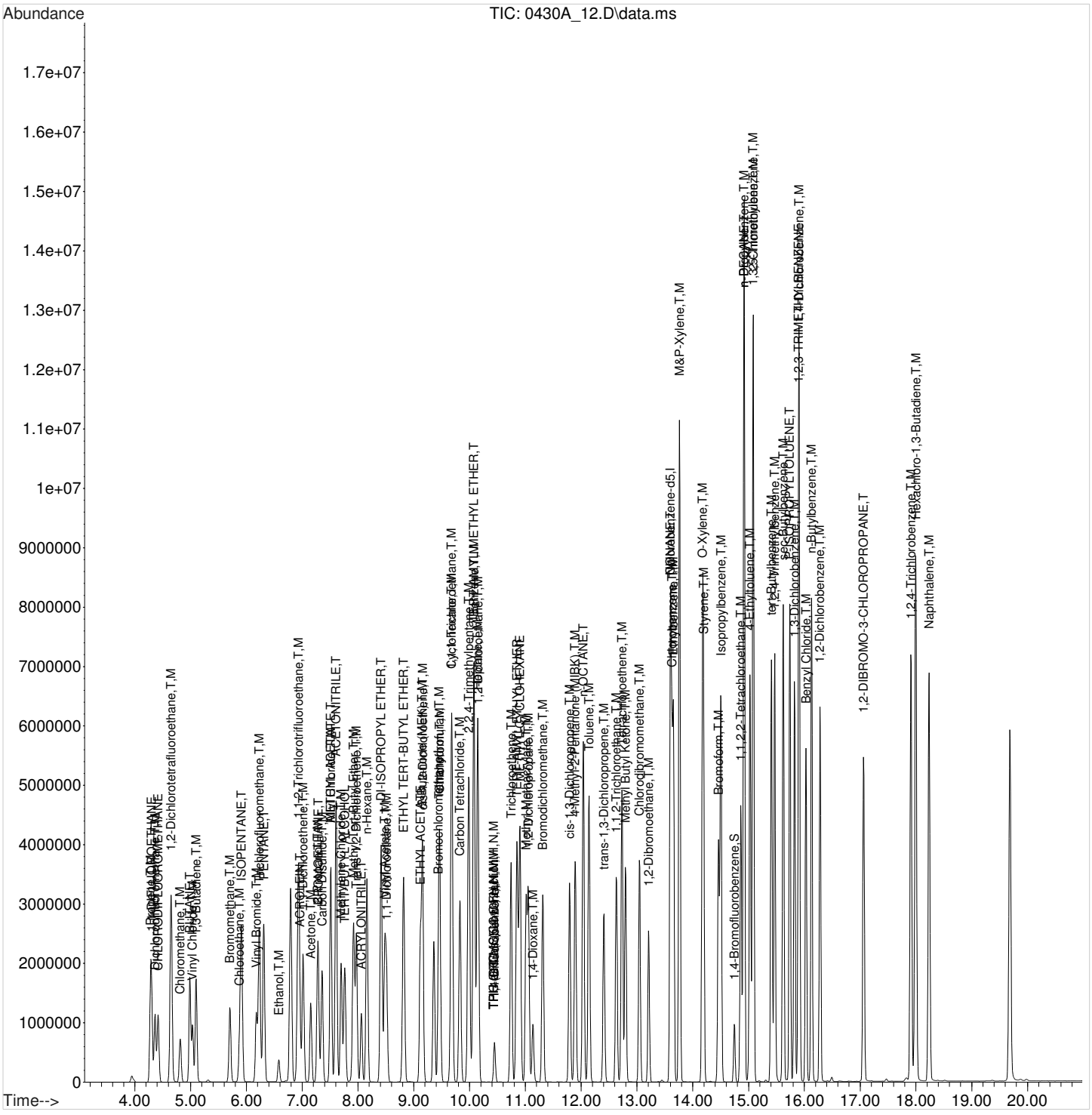
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	16.029	91	4335463	106.4918054	ppbv	100
98) n-Butylbenzene	16.127	91	5301838	102.8178495	ppbv	99
99) 1,2-Dichlorobenzene	16.279	146	2619812	97.9690009	ppbv	100
100) 1,2-DIBROMO-3-CHLOROPR...	17.060	157	1489713	104.1390588	ppbv	97
101) 1,2,4-Trichlorobenzene	17.913	180	2665410	114.1006867	ppbv	98
102) Hexachloro-1,3-Butadiene	17.998	225	2266812	100.8267060	ppbv	98
103) Naphthalene	18.236	128	6661885	115.3919315	ppbv	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_12.D
Acq On : 30 Apr 2024 10:51 pm
Operator :
Sample : STD AMS 100.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS13

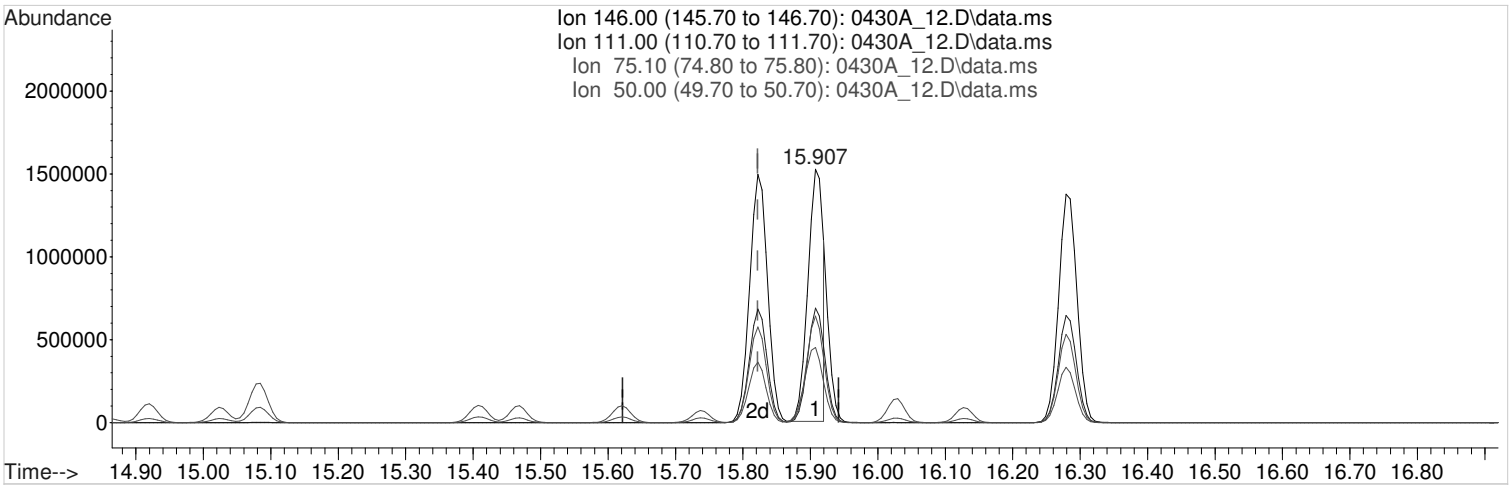
Quant Time: May 01 08:11:29 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:10:10 2024
Response via : Initial Calibration

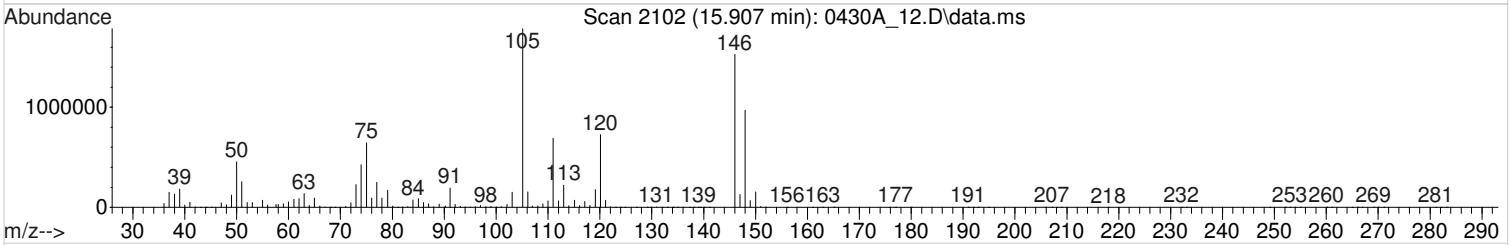


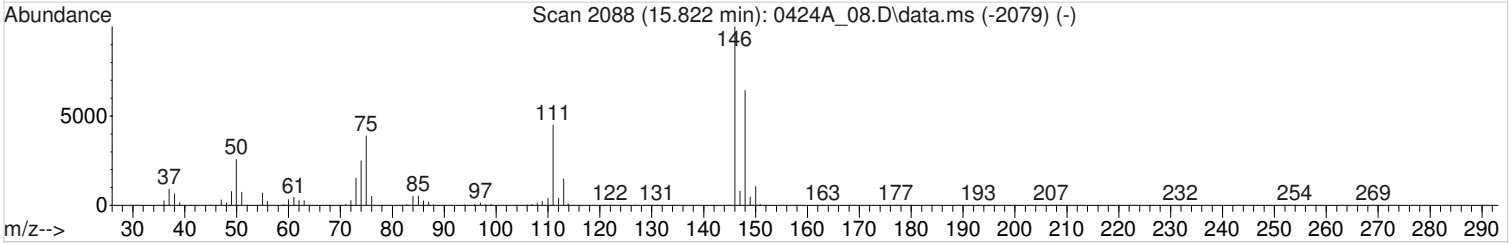
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_12.D
Acq On : 30 Apr 2024 10:51 pm
Operator :
Sample : STD AMS 100.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:10:14 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:10:10 2024
Response via : Initial Calibration







TIC: 0430A_12.D\data.ms

(93) 1,3-Dichlorobenzene (T,M)

15.907min (+0.085) 87.7487455 ppbv

Qvalue = 91

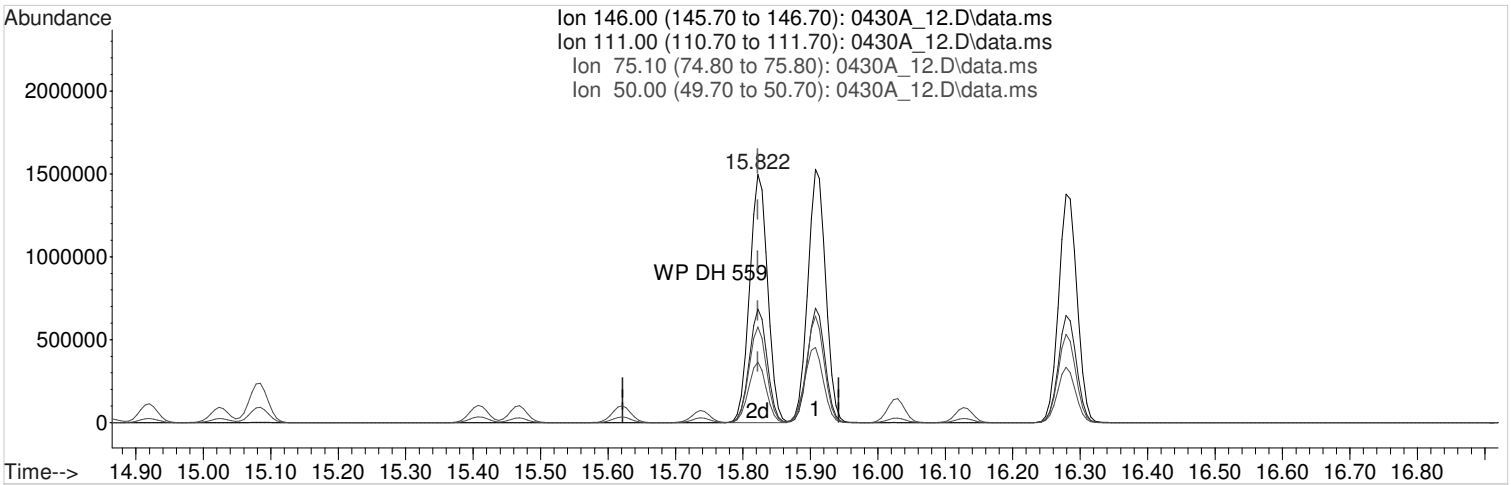
response 2403534

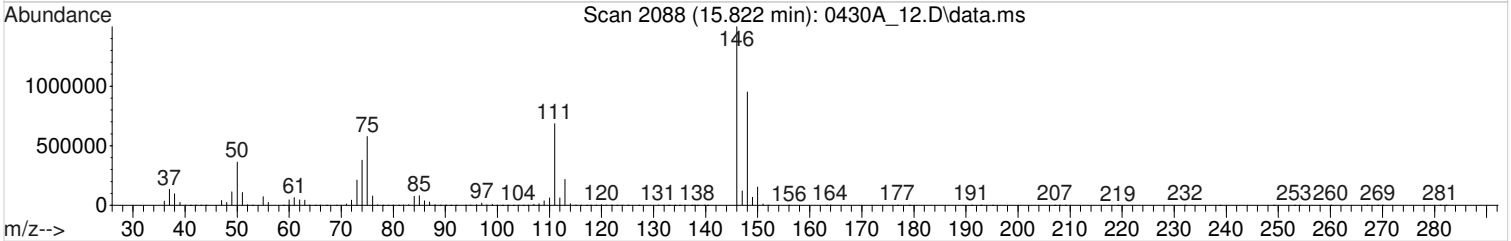
Ion	Exp%	Act%
146.00	100	100
111.00	39.10	45.32
75.10	37.40	43.40
50.00	29.90	33.05

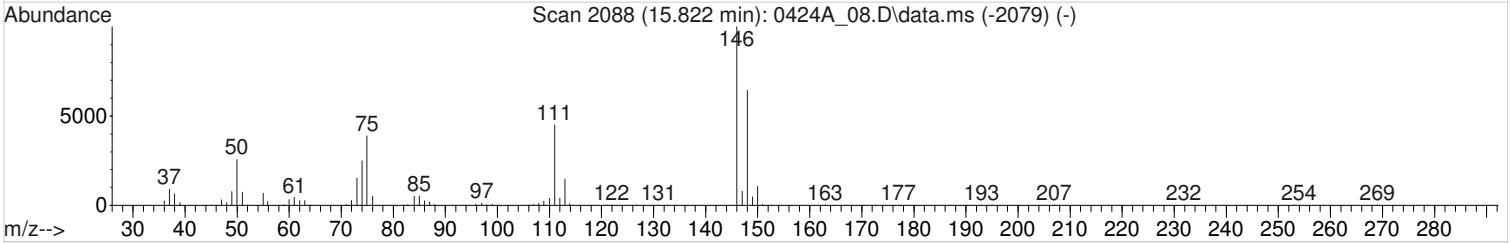
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_12.D
Acq On : 30 Apr 2024 10:51 pm
Operator :
Sample : STD AMS 100.0 ppbv 24D24722
Misc : 24D29341
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:10:14 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:10:10 2024
Response via : Initial Calibration







TIC: 0430A_12.D\data.ms

(93) 1,3-Dichlorobenzene (T,M)

15.822min (-0.000) 101.4391086 ppbv m

response 2778528

Ion	Exp%	Act%
146.00	100	100
111.00	39.10	39.20
75.10	37.40	37.55
50.00	29.90	28.59

6A-OR GC/MS INITIAL CALIBRATION DATA

SDG: L1731355 **Analytical Method:** TO-15

Instrument ID: AIRMS16

Analyte	RRF: .19	RRF: .31	RRF: .63	RRF: 1.25	RRF: 2.5	RRF: 3.75	RRF: 10	RRF: 25	RRF: 50	RRF: 100
Analysis date/time	04/26/24 18:53	04/26/24 19:30	04/26/24 20:06	04/26/24 20:43	04/26/24 21:21	04/26/24 22:01	04/26/24 22:37	04/26/24 23:15	04/26/24 23:56	04/27/24 00:41
PROPENE	0.2950	0.3590	0.3320	0.3020	0.2910	0.2930	0.2830	0.2820	0.2680	0.2570
DICHLORODIFLUOROMETHANE	0.6240	0.7020	0.7280	0.7380	0.7250	0.7440	0.7280	0.7310	0.6750	0.5630
1,2-DICHLOROTETRAFLUOROETHANE	0.6410	0.7560	0.7740	0.7830	0.7780	0.8010	0.7780	0.7890	0.7590	0.7410
CHLOROMETHANE	0.2580	0.3010	0.29	0.2970	0.2920	0.2990	0.2930	0.2910	0.2770	0.2730
VINYL CHLORIDE	0.23	0.2820	0.2780	0.2830	0.2860	0.2940	0.2890	0.2820	0.2750	0.2620
1,3-BUTADIENE	0.2460	0.27	0.2390	0.2320	0.2280	0.2330	0.2310	0.2230	0.2180	0.2050
BROMOMETHANE	0.2410	0.2660	0.2460	0.2520	0.2420	0.2460	0.2430	0.2410	0.2370	0.2280
CHLOROETHANE	0.19	0.1940	0.1470	0.1330	0.1470	0.1410	0.1380	0.1360	0.1340	0.1250
VINYL BROMIDE	0.2420	0.2630	0.2690	0.2670	0.2660	0.2680	0.2680	0.2750	0.2680	0.2650
TRICHLOROFLUOROMETHANE	0.5830	0.6690	0.6920	0.6840	0.6850	0.7060	0.6940	0.7080	0.6840	0.6740
ETHANOL	0.2040	0.1770	0.1590	0.1510	0.1440	0.1430	0.1420	0.1470	0.1430	0.1450
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5150	0.5830	0.6190	0.6250	0.6130	0.63	0.6180	0.6350	0.6180	0.6170
1,1-DICHLOROETHENE	0.4350	0.5010	0.5140	0.5210	0.5170	0.53	0.5220	0.5290	0.5180	0.52
ACETONE	0.1990	0.20	0.1840	0.1830	0.1790	0.1770	0.17	0.1740	0.1690	0.1710
2-PROPANOL	0.6730	0.7330	0.7540	0.7580	0.7420	0.7540	0.71	0.7250	0.7060	0.71
CARBON DISULFIDE	0.8970	1.0110	1.0730	1.0770	1.0740	1.0850	1.0820	1.1040	1.0770	1.0720
METHYLENE CHLORIDE	0.36	0.4160	0.4130	0.4110	0.4030	0.4090	0.4010	0.4110	0.40	0.40
METHYL TERT-BUTYL ETHER	0.8670	0.9690	0.9870	0.9680	0.9730	0.9850	0.9620	0.99	0.9670	0.9730
TRANS-1,2-DICHLOROETHENE	0.4070	0.4630	0.4850	0.4930	0.4910	0.5060	0.4890	0.5050	0.4960	0.50
N-HEXANE	0.5250	0.5850	0.5960	0.5980	0.5830	0.6040	0.5820	0.5960	0.5820	0.5760
1,1-DICHLOROETHANE	0.5270	0.5940	0.6190	0.6260	0.6220	0.6270	0.6170	0.6270	0.6110	0.6120
VINYL ACETATE	1.3790	1.0660	1.0650	1.0430	1.0390	1.0640	1.0540	1.0760	1.0570	1.0650
ETHYL ACETATE	0.0820	0.0970	0.0980	0.0930	0.0920	0.0930	0.0910	0.0930	0.0930	0.0950
2-BUTANONE (MEK)	0.1580	0.1820	0.1850	0.1880	0.1820	0.1850	0.1810	0.1870	0.1830	0.1870
CIS-1,2-DICHLOROETHENE	0.39	0.4430	0.4750	0.4740	0.4710	0.4820	0.4720	0.4860	0.4740	0.4770
TETRAHYDROFURAN	0.4450	0.4820	0.4770	0.47	0.4590	0.4670	0.4480	0.46	0.4440	0.4330
CHLOROFORM	0.5980	0.6760	0.6960	0.69	0.6810	0.6970	0.6770	0.69	0.6680	0.6650
CYCLOHEXANE	0.4160	0.4520	0.4790	0.4560	0.4610	0.4660	0.4630	0.4760	0.4650	0.4650
1,1,1-TRICHLOROETHANE	0.5210	0.5970	0.6260	0.6240	0.6210	0.6330	0.6270	0.6430	0.6240	0.6230
CARBON TETRACHLORIDE	0.5160	0.5860	0.63	0.6210	0.62	0.6360	0.6330	0.6510	0.6370	0.6440
2,2,4-TRIMETHYLPENTANE	1.6370	1.8270	1.9080	1.9330	1.9260	1.9420	1.9270	1.97	1.9160	1.8870
BENZENE	0.2420	0.2670	0.2680	0.2710	0.2670	0.2680	0.2660	0.2680	0.2610	0.2540
1,2-DICHLOROETHANE	0.09	0.1010	0.1070	0.11	0.1080	0.1090	0.1080	0.11	0.1080	0.1080
HEPTANE	0.0920	0.0950	0.0940	0.0950	0.0920	0.0940	0.09	0.0910	0.0880	0.0850
TRICHLOROETHENE	0.0960	0.1050	0.1110	0.1120	0.11	0.1120	0.1110	0.1140	0.1120	0.1140
1,2-DICHLOROPROPANE	0.09	0.1040	0.1050	0.1070	0.1040	0.1060	0.1040	0.1060	0.1040	0.1040
METHYL METHACRYLATE	0.09	0.0960	0.0960	0.1010	0.0950	0.0960	0.1010	0.1030	0.1040	0.10
BROMODICHLOROMETHANE	0.1330	0.1530	0.16	0.1620	0.1610	0.1640	0.1640	0.1680	0.1660	0.1670
CIS-1,3-DICHLOROPROPENE	0.1290	0.1510	0.1530	0.1590	0.16	0.1620	0.1620	0.1670	0.1650	0.1670
4-METHYL-2-PENTANONE (MIBK)	0.21	0.2250	0.2290	0.2360	0.2350	0.2340	0.2320	0.2340	0.2260	0.2230
TOLUENE	0.3090	0.3370	0.3370	0.34	0.3350	0.3360	0.3320	0.3350	0.3250	0.3210
TRANS-1,3-DICHLOROPROPENE	0.1010	0.1140	0.1210	0.1240	0.1260	0.1290	0.1290	0.1330	0.1320	0.1330
1,1,2-TRICHLOROETHANE	0.0830	0.0950	0.0960	0.0990	0.0980	0.0980	0.0970	0.0990	0.0980	0.0980
TETRACHLOROETHENE	0.12	0.1350	0.1430	0.1430	0.1410	0.1420	0.1410	0.1440	0.1410	0.1420
METHYL BUTYL KETONE	0.1970	0.2080	0.2140	0.22	0.2210	0.2220	0.2220	0.2280	0.2210	0.2160
CHLORODIBROMOMETHANE	0.1230	0.1410	0.1470	0.1530	0.1560	0.1590	0.1630	0.1680	0.1660	0.1670
1,2-DIBROMOETHANE	0.1170	0.1350	0.1440	0.1490	0.1490	0.1530	0.1510	0.1550	0.1520	0.1520
CHLOROBENZENE	0.2040	0.2320	0.24	0.2420	0.2450	0.2460	0.2430	0.2470	0.2410	0.2370
ETHYLBENZENE	0.4010	0.4720	0.4650	0.4890	0.4770	0.4760	0.47	0.4750	0.4670	0.4570
M&P-XYLENE	0.31	0.3550	0.3660	0.37	0.3670	0.3690	0.3650	0.3720	0.3590	0.3360

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1731355 **Analytical Method:** TO-15

Instrument ID: AIRMS16

Analyte	**RRF: .19**	**RRF: .31**	**RRF: .63**	**RRF: 1.25**	**RRF: 2.5**	**RRF: 3.75**	**RRF: 10**	**RRF: 25**	**RRF: 50**	**RRF: 100**
Analysis date/time	04/26/24 18:53	04/26/24 19:30	04/26/24 20:06	04/26/24 20:43	04/26/24 21:21	04/26/24 22:01	04/26/24 22:37	04/26/24 23:15	04/26/24 23:56	04/27/24 00:41
O-XYLENE	0.3240	0.3690	0.3760	0.3770	0.3740	0.3760	0.3690	0.3760	0.3660	0.3630
STYRENE	0.2220	0.2520	0.2640	0.2760	0.2760	0.2780	0.2790	0.2860	0.2780	0.2730
BROMOFORM	0.1230	0.1460	0.1560	0.1640	0.1670	0.1740	0.1820	0.1910	0.19	0.1910
ISOPROPYLBENZENE	0.4310	0.4810	0.4970	0.5070	0.4990	0.5040	0.4980	0.5060	0.4930	0.4830
1,1,2,2-TETRACHLOROETHANE	0.2120	0.24	0.2450	0.25	0.2450	0.2490	0.25	0.2530	0.2450	0.2390
4-ETHYLTOLUENE	0.3990	0.4520	0.4680	0.4810	0.4680	0.4780	0.4780	0.4950	0.4770	0.4510
1,3,5-TRIMETHYLBENZENE	0.3410	0.3830	0.39	0.3970	0.3930	0.3950	0.3990	0.3880	0.3760	0.3510
1,2,4-TRIMETHYLBENZENE	0.3640	0.3870	0.3980	0.3970	0.3920	0.4040	0.4040	0.4060	0.3960	0.3790
1,3-DICHLOROBENZENE	0.2170	0.2440	0.2510	0.2580	0.2550	0.26	0.2610	0.2650	0.2590	0.2510
1,4-DICHLOROBENZENE	0.2130	0.2470	0.2520	0.2610	0.2550	0.26	0.2630	0.2670	0.2590	0.2410
BENZYL CHLORIDE	0.2840	0.3150	0.3310	0.3520	0.3470	0.3690	0.3830	0.3970	0.3910	0.3780
1,2-DICHLOROBENZENE	0.2240	0.2410	0.25	0.2530	0.2520	0.2540	0.2550	0.2590	0.2520	0.2450
1,2,4-TRICHLOROBENZENE	0.1950	0.1950	0.2140	0.22	0.2140	0.2370	0.2420	0.2550	0.2520	0.2480
HEXACHLORO-1,3-BUTADIENE	0.1970	0.2090	0.2130	0.2190	0.2150	0.2210	0.2210	0.2260	0.2210	0.2110
NAPHTHALENE	0.4880	0.4840	0.5040	0.5170	0.5230	0.55	0.5810	0.6170	0.61	0.5960
1,4-BROMOFLUOROBENZENE	0.7030	0.7050	0.7050	0.7070	0.7130	0.7080	0.7120	0.7230	0.72	0.7340
File ID:	0426_11	0426_12	0426_13	0426_14	0426_15	0426_16	0426_17	0426_18	0426_19	0426_20

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1731355 **Analytical Method:** TO-15

Instrument ID: AIRMS16

Analyte Analysis date/time	RRF. Avg	%RSD	COD
PROPENE	0.296251	10.12	
DICHLORODIFLUOROMETHANE	0.695878	8.5	
1,2-DICHLOROTETRAFLUOROETHANE	0.759911	5.98	
CHLOROMETHANE	0.287301	4.72	
VINYL CHLORIDE	0.276092	6.67	
1,3-BUTADIENE	0.232443	7.48	
BROMOMETHANE	0.244113	4.03	
CHLOROETHANE	0.148456	16.13	
VINYL BROMIDE	0.265022	3.32	
TRICHLOROFLUOROMETHANE	0.677934	5.25	
ETHANOL	0.155442	13.06	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.607183	5.82	
1,1-DICHLOROETHENE	0.510631	5.43	
ACETONE	0.180402	6.22	
2-PROPANOL	0.726752	3.74	
CARBON DISULFIDE	1.055041	5.72	
METHYLENE CHLORIDE	0.402433	3.97	
METHYL TERT-BUTYL ETHER	0.96418	3.66	
TRANS-1,2-DICHLOROETHENE	0.483502	6.11	
N-HEXANE	0.58272	3.79	
1,1-DICHLOROETHANE	0.608201	4.99	
VINYL ACETATE	1.090839	9.33	
ETHYL ACETATE	0.092689	4.67	
2-BUTANONE (MEK)	0.18179	4.86	
CIS-1,2-DICHLOROETHENE	0.464516	6.11	
TETRAHYDROFURAN	0.458554	3.44	
CHLOROFORM	0.673916	4.29	
CYCLOHEXANE	0.459756	3.77	
1,1,1-TRICHLOROETHANE	0.614004	5.66	
CARBON TETRACHLORIDE	0.617497	6.45	
2,2,4-TRIMETHYLPENTANE	1.887421	5.08	
BENZENE	0.26334	3.32	
1,2-DICHLOROETHANE	0.105807	5.77	
HEPTANE	0.091577	3.57	
TRICHLOROETHENE	0.109554	5.1	
1,2-DICHLOROPROPANE	0.103326	4.66	
METHYL METHACRYLATE	0.098144	4.46	
BROMODICHLOROMETHANE	0.159743	6.49	
CIS-1,3-DICHLOROPROPENE	0.157504	7.33	
4-METHYL-2-PENTANONE (MIBK)	0.228379	3.55	
TOLUENE	0.330611	2.84	
TRANS-1,3-DICHLOROPROPENE	0.124265	8.12	
1,1,2-TRICHLOROETHANE	0.09617	5.03	
TETRACHLOROETHENE	0.139279	5.19	
METHYL BUTYL KETONE	0.216921	4.2	
CHLORODIBROMOMETHANE	0.154328	9.18	
1,2-DIBROMOETHANE	0.145691	7.98	
CHLOROBENZENE	0.23773	5.34	
ETHYLBENZENE	0.464823	5.16	
M&P-XYLENE	0.35699	5.44	
O-XYLENE	0.366893	4.33	

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1731355 **Analytical Method:** TO-15

Instrument ID: AIRMS16

Analyte	RRF. Avg	%RSD	COD
Analysis date/time			
STYRENE	0.268464	6.92	
BROMOFORM	0.168286	13.2	
ISOPROPYLBENZENE	0.48985	4.62	
1,1,2,2-TETRACHLOROETHANE	0.242856	4.83	
4-ETHYLTOLUENE	0.464828	5.72	
1,3,5-TRIMETHYLBENZENE	0.381276	5.26	
1,2,4-TRIMETHYLBENZENE	0.392728	3.36	
1,3-DICHLOROBENZENE	0.252004	5.46	
1,4-DICHLOROBENZENE	0.251731	6.27	
BENZYL CHLORIDE	0.354689	10.27	
1,2-DICHLOROBENZENE	0.248592	4.07	
1,2,4-TRICHLOROBENZENE	0.227143	9.99	
HEXACHLORO-1,3-BUTADIENE	0.21524	3.91	
NAPHTHALENE	0.547033	9.29	
1,4-BROMOFLUOROBENZENE	0.712942	1.41	

Response Factor Report AIRMS16

Method Path : C:\msdchem\1\methods\
Method File : TOAIRMS16D26X.M
Title :
Last Update : Sat Apr 27 07:55:11 2024
Response Via : Initial Calibration

Calibration Files
2.5 =0426_15.D .19 =0426_11.D .31 =0426_12.D .63 =0426_13.D 1.25=0426_14.D 3.75=0426_16.D 10 =0426_17.D
25 =0426_18.D 50 =0426_19.D 100 =0426_20.D

	Compound	2.5	.19	.31	.63	1.25	3.75	10	25	50	100	Avg	%RSD
1)	I Bromochloromethane	----------ISTD----------											
2)	H,N,MTPH (GC/MS) Lo...	2.782	3.380	3.227	2.997	2.760	2.763	2.617	2.718	2.611	2.603	2.846	9.47
3)	H,N,MTPH-GRO (C5-C10)	2.267	2.825	2.644	2.460	2.382	2.289	2.215	2.274	2.180	2.103	2.364	9.43
4)	H,N,MTHC as Gas (C4...	2.941			4.502	3.486	2.806	2.560	2.545	2.418	2.353	2.952	24.54
5)	T,M Propene	0.291	0.295	0.359	0.332	0.302	0.293	0.283	0.282	0.268	0.257	0.296	10.12
6)	T BUTANE	0.458	0.499	0.565	0.476	0.465	0.475	0.460	0.443	0.430	0.399	0.467	9.46
7)	1,1-DIFLUOROET...	0.192	0.164	0.195	0.194	0.190	0.196	0.190	0.192	0.184	0.180	0.188	5.13
8)	T,M Dichlorodifluo...	0.725	0.624	0.702	0.728	0.738	0.744	0.728	0.731	0.675	0.563	0.696	8.50
9)	CHLORODIFLUORO...	0.075	0.068	0.077	0.081	0.078	0.074	0.072	0.073	0.071	0.070	0.074	5.40
10)	T,M 1,2-Dichlorote...	0.778	0.641	0.756	0.774	0.783	0.801	0.778	0.789	0.759	0.741	0.760	5.98
11)	T,M Chloromethane	0.292	0.258	0.301	0.290	0.297	0.299	0.293	0.291	0.277	0.273	0.287	4.72
12)	T,M Vinyl Chloride	0.286	0.230	0.282	0.278	0.283	0.294	0.289	0.282	0.275	0.262	0.276	6.67
13)	T,M 1,3-Butadiene	0.228	0.246	0.270	0.239	0.232	0.233	0.231	0.223	0.218	0.205	0.232	7.48
14)	T,M Bromomethane	0.242	0.241	0.266	0.246	0.252	0.246	0.243	0.241	0.237	0.228	0.244	4.03
15)	T,M Chloroethane	0.147	0.190	0.194	0.147	0.133	0.141	0.138	0.136	0.134	0.125	0.148	16.13
16)	T ISOPENTANE	0.339	0.341	0.366	0.358	0.324	0.331	0.330	0.319	0.315	0.285	0.331	6.87
17)	T,M Vinyl Bromide	0.266	0.242	0.263	0.269	0.267	0.268	0.268	0.275	0.268	0.265	0.265	3.32
18)	T,M Trichlorofluor...	0.685	0.583	0.669	0.692	0.684	0.706	0.694	0.708	0.684	0.674	0.678	5.25
19)	T PENTANE	0.639	0.572	0.648	0.649	0.642	0.648	0.642	0.654	0.627	0.611	0.633	3.93
20)	T,M Ethanol	0.144	0.204	0.177	0.159	0.151	0.143	0.142	0.147	0.143	0.145	0.155	13.06
21)	T ACROLEIN	0.152	0.174	0.174	0.160	0.156	0.153	0.154	0.161	0.158	0.160	0.160	4.97
22)	T,M 1,1,2-Trichlor...	0.613	0.515	0.583	0.619	0.625	0.630	0.618	0.635	0.618	0.617	0.607	5.82
23)	T,M 1,1-Dichloroet...	0.517	0.435	0.501	0.514	0.521	0.530	0.522	0.529	0.518	0.520	0.511	5.43
24)	T,M Acetone	0.179	0.199	0.200	0.184	0.183	0.177	0.170	0.174	0.169	0.171	0.180	6.22
25)	T BROMOETHANE	0.257	0.213	0.251	0.250	0.257	0.258	0.257	0.264	0.257	0.260	0.252	5.77
26)	T,M 2-Propanol	0.742	0.673	0.733	0.754	0.758	0.754	0.710	0.725	0.706	0.710	0.727	3.74
27)	T,M Carbon Disulfide	1.074	0.897	1.011	1.073	1.077	1.085	1.082	1.104	1.077	1.072	1.055	5.72
28)	T,M Allyl Chloride	0.498	0.497	0.446	0.489	0.491	0.497	0.525	0.460	0.501	0.486	0.489	4.51
29)	T METHYL ACETATE	0.721	0.691	0.682	0.728	0.705	0.711	0.704	0.717	0.695	0.690	0.704	2.12
30)	T ACETONITRILE	0.339	0.277	0.327	0.336	0.342	0.345	0.331	0.340	0.364	0.353	0.335	6.86
31)	T,M Methylene Chlo...	0.403	0.360	0.416	0.413	0.411	0.409	0.401	0.411	0.400	0.400	0.402	3.97
32)	TERT-BUTYL ALC...	0.815	0.667	0.788	0.810	0.812	0.829	0.806	0.825	0.803	0.813	0.797	5.89
33)	T,M Methyl Tert-Bu...	0.973	0.867	0.969	0.987	0.968	0.985	0.962	0.990	0.967	0.973	0.964	3.66
34)	T,M Trans-1,2-Dich...	0.491	0.407	0.463	0.485	0.493	0.506	0.489	0.505	0.496	0.500	0.484	6.11
35)	T ACRYLONITRILE	0.295	0.249	0.287	0.299	0.294	0.297	0.293	0.306	0.301	0.306	0.293	5.58
36)	T,M n-Hexane	0.583	0.525	0.585	0.596	0.598	0.604	0.582	0.596	0.582	0.576	0.583	3.79
37)	T,M 1,1-Dichloroet...	0.622	0.527	0.594	0.619	0.626	0.627	0.617	0.627	0.611	0.612	0.608	4.99

Method Path : C:\msdchem\1\methods\
Method File : TOAIRMS16D26X.M
Title :

38)	T,M	Vinyl Acetate	1.039	1.379	1.066	1.065	1.043	1.064	1.054	1.076	1.057	1.065	1.091	9.33
39)	T	DI-ISOPROPYL E...	1.318	1.118	1.248	1.305	1.318	1.332	1.286	1.313	1.264	1.241	1.274	4.97
40)	T	ETHYL TERT-BUT...	1.170	0.987	1.118	1.170	1.168	1.185	1.163	1.185	1.156	1.159	1.146	5.14
41)		ETHYL ACETATE	0.092	0.082	0.097	0.098	0.093	0.093	0.091	0.093	0.093	0.095	0.093	4.67
42)	T,M	2-Butanone (MEK)	0.182	0.158	0.182	0.185	0.188	0.185	0.181	0.187	0.183	0.187	0.182	4.86
43)	T,M	cis-1,2-Dichlo...	0.471	0.390	0.443	0.475	0.474	0.482	0.472	0.486	0.474	0.477	0.465	6.11
44)	T,M	Tetrahydrofuran	0.459	0.445	0.482	0.477	0.470	0.467	0.448	0.460	0.444	0.433	0.459	3.44
45)	T,M	Chloroform	0.681	0.598	0.676	0.696	0.690	0.697	0.677	0.690	0.668	0.665	0.674	4.29
46)	T,M	Cyclohexane	0.461	0.416	0.452	0.479	0.456	0.466	0.463	0.476	0.465	0.465	0.460	3.77
47)	T,M	1,1,1-Trichlor...	0.621	0.521	0.597	0.626	0.624	0.633	0.627	0.643	0.624	0.623	0.614	5.66
48)	T,M	Carbon Tetrach...	0.620	0.516	0.586	0.630	0.621	0.636	0.633	0.651	0.637	0.644	0.617	6.45
49)	T,M	2,2,4-Trimethy...	1.926	1.637	1.827	1.908	1.933	1.942	1.927	1.970	1.916	1.887	1.887	5.08
50)	I	1,4-Difluorobenzene	----------ISTD----------											
51)	T,M	Benzene	0.267	0.242	0.267	0.268	0.271	0.268	0.266	0.268	0.261	0.254	0.263	3.32
52)	T	TERT-AMYL METH...	0.253	0.230	0.246	0.252	0.256	0.256	0.253	0.257	0.254	0.256	0.251	3.22
53)	T,M	1,2-Dichloroet...	0.108	0.090	0.101	0.107	0.110	0.109	0.108	0.110	0.108	0.108	0.106	5.77
54)	T,M	Heptane	0.092	0.092	0.095	0.094	0.095	0.094	0.090	0.091	0.088	0.085	0.092	3.57
55)	T,M	Trichloroethene	0.110	0.096	0.105	0.111	0.112	0.112	0.111	0.114	0.112	0.114	0.110	5.10
56)		TERT-AMYL ETHY...	0.080	0.079	0.085	0.082	0.082	0.080	0.080	0.082	0.082	0.082	0.082	2.00
57)		METHYL CYCLOHE...	0.155	0.131	0.154	0.153	0.156	0.156	0.156	0.158	0.156	0.157	0.153	5.19
58)	T,M	1,2-Dichloropr...	0.104	0.090	0.104	0.105	0.107	0.106	0.104	0.106	0.104	0.104	0.103	4.66
59)	T,M	Methyl Methacr...	0.095	0.090	0.096	0.096	0.101	0.096	0.101	0.103	0.104	0.100	0.098	4.46
60)	T,M	1,4-Dioxane	0.061	0.063	0.062	0.063	0.060	0.061	0.059	0.060	0.059	0.060	0.061	2.08
61)	T,M	Bromodichlorom...	0.161	0.133	0.153	0.160	0.162	0.164	0.164	0.168	0.166	0.167	0.160	6.49
62)	T,M	cis-1,3-Dichlo...	0.160	0.129	0.151	0.153	0.159	0.162	0.162	0.167	0.165	0.167	0.158	7.33
63)	T,M	4-Methyl-2-Pen...	0.235	0.210	0.225	0.229	0.236	0.234	0.232	0.234	0.226	0.223	0.228	3.55
64)	T	n-OCTANE	0.250	0.234	0.249	0.251	0.254	0.251	0.248	0.249	0.240	0.232	0.246	3.11
65)	T,M	Toluene	0.335	0.309	0.337	0.337	0.340	0.336	0.332	0.335	0.325	0.321	0.331	2.84
66)	T,M	trans-1,3-Dich...	0.126	0.101	0.114	0.121	0.124	0.129	0.129	0.133	0.132	0.133	0.124	8.12
67)	T,M	1,1,2-Trichlor...	0.098	0.083	0.095	0.096	0.099	0.098	0.097	0.099	0.098	0.098	0.096	5.03
68)	T,M	Tetrachloroethene	0.141	0.120	0.135	0.143	0.143	0.142	0.141	0.144	0.141	0.142	0.139	5.19
69)	T,M	Methyl Butyl K...	0.221	0.197	0.208	0.214	0.220	0.222	0.222	0.228	0.221	0.216	0.217	4.20
70)	T,M	Chlorodibromom...	0.156	0.123	0.141	0.147	0.153	0.159	0.163	0.168	0.166	0.167	0.154	9.18
71)	T,M	1,2-Dibromoethane	0.149	0.117	0.135	0.144	0.149	0.153	0.151	0.155	0.152	0.152	0.146	7.98
72)	T,M	Chlorobenzene	0.245	0.204	0.232	0.240	0.242	0.246	0.243	0.247	0.241	0.237	0.238	5.34
73)	T	NONANE	0.262	0.251	0.263	0.260	0.264	0.264	0.259	0.261	0.247	0.235	0.257	3.68
74)	I	Chlorobenzene-d5	----------ISTD----------											
75)	T,M	Ethylbenzene	0.477	0.401	0.472	0.465	0.489	0.476	0.470	0.475	0.467	0.457	0.465	5.16
76)	T,M	M&P-Xylene	0.367	0.310	0.355	0.366	0.370	0.369	0.365	0.372	0.359	0.336	0.357	5.44
77)	T,M	O-Xylene	0.374	0.324	0.369	0.376	0.377	0.376	0.369	0.376	0.366	0.363	0.367	4.33
78)		TOTAL XYLENES											0.000	-1.00
79)		XYLENES, TOTAL											0.000	-1.00
80)	T,M	Styrene	0.276	0.222	0.252	0.264	0.276	0.278	0.279	0.286	0.278	0.273	0.268	6.92
81)	T,M	Bromoform	0.167	0.123	0.146	0.156	0.164	0.174	0.182	0.191	0.190	0.191	0.168	13.20
82)	T,M	Isopropylbenzene	0.499	0.431	0.481	0.497	0.507	0.504	0.498	0.506	0.493	0.483	0.490	4.62

Method Path : C:\msdchem\1\methods\
Method File : TOAIRMS16D26X.M
Title :

83)	T	n-DECANE	0.276	0.249	0.269	0.275	0.280	0.279	0.278	0.273	0.248	0.205	0.263	8.97
84)	T,M	1,1,2,2-Tetrac...	0.245	0.212	0.240	0.245	0.250	0.249	0.250	0.253	0.245	0.239	0.243	4.83
85)	T,M	n-Propylbenzene	0.584	0.484	0.561	0.576	0.594	0.590	0.587	0.585	0.546	0.474	0.558	7.93
86)	T,M	4-Ethyltoluene	0.468	0.399	0.452	0.468	0.481	0.478	0.478	0.495	0.477	0.451	0.465	5.72
87)	T,M	2-Chlorotoluene	0.383	0.329	0.368	0.375	0.388	0.387	0.386	0.389	0.374	0.348	0.373	5.30
88)	S	1,4-Bromofluor...	0.713	0.703	0.705	0.705	0.707	0.708	0.712	0.723	0.720	0.734	0.713	1.41
89)	T,M	1,3,5-Trimethy...	0.393	0.341	0.383	0.390	0.397	0.395	0.399	0.388	0.376	0.351	0.381	5.26
90)	T,M	tert-Butylbenzene	0.368	0.335	0.365	0.370	0.376	0.375	0.375	0.375	0.369	0.352	0.366	3.60
91)	T,M	1,2,4-Trimethy...	0.392	0.364	0.387	0.398	0.397	0.404	0.404	0.406	0.396	0.379	0.393	3.36
92)	T,M	sec-Butylbenzene	0.573	0.518	0.577	0.573	0.584	0.586	0.584	0.581	0.557	0.510	0.564	4.90
93)	T,M	1,3-Dichlorobe...	0.255	0.217	0.244	0.251	0.258	0.260	0.261	0.265	0.259	0.251	0.252	5.46
94)	T	P-ISOPROPYLTOL...	0.484	0.416	0.462	0.477	0.490	0.489	0.491	0.497	0.476	0.440	0.472	5.51
95)	T,M	1,4-Dichlorobe...	0.255	0.213	0.247	0.252	0.261	0.260	0.263	0.267	0.259	0.241	0.252	6.27
96)		1,2,3-TRIMETHY...	0.399	0.359	0.402	0.396	0.408	0.405	0.408	0.411	0.396	0.366	0.395	4.60
97)	T,M	Benzyl Chloride	0.347	0.284	0.315	0.331	0.352	0.369	0.383	0.397	0.391	0.378	0.355	10.27
98)	T,M	n-Butylbenzene	0.479	0.420	0.452	0.467	0.483	0.487	0.487	0.492	0.465	0.427	0.466	5.48
99)	T,M	1,2-Dichlorobe...	0.252	0.224	0.241	0.250	0.253	0.254	0.255	0.259	0.252	0.245	0.249	4.07
100)	T	1,2-DIBROMO-3-...	0.133	0.119	0.121	0.129	0.133	0.137	0.144	0.150	0.147	0.145	0.136	8.01
101)	T,M	1,2,4-Trichlor...	0.214	0.195	0.195	0.214	0.220	0.237	0.242	0.255	0.252	0.248	0.227	9.99
102)	T,M	Hexachloro-1,3...	0.215	0.197	0.209	0.213	0.219	0.221	0.221	0.226	0.221	0.211	0.215	3.91
103)	T,M	Naphthalene	0.523	0.488	0.484	0.504	0.517	0.550	0.581	0.617	0.610	0.596	0.547	9.29

(#) = Out of Range

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_11.D
Acq On : 26 Apr 2024 6:53 pm
Operator :
Sample : STD AMS 0.19 ppbv 24D12755
Misc : 24D22236
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:26:34 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:25:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.708	130	238913	4.0000000	ppbv		0.00
50) 1,4-Difluorobenzene	8.541	114	1007214	4.0000000	ppbv		0.00
74) Chlorobenzene-d5	11.642	117	885484	4.0000000	ppbv		0.00
System Monitoring Compounds							
88) 1,4-Bromofluorobenzene	12.901	95	622227	4.0000000	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.00%				
Target Compounds						Qvalue	
2) TPH (GC/MS) Low Fraction	10.430	TIC	1802621m	50.5732315	ppbv		
3) TPH-GRO (C5-C10)	10.430	TIC	2211861m	91.1014619	ppbv		
4) THC as Gas (C4-C12)	10.430	TIC	9783311m	554.7890771	ppbv		
5) Propene	4.119	41	3352	0.1900000	ppbv	#	90
6) BUTANE	4.555	43	5667	0.1900000	ppbv		96
7) 1,1-DIFLUOROETHANE	4.124	65	1864	0.1900000	ppbv		89
8) Dichlorodifluoromethane	4.164	85	7081	0.1900000	ppbv		99
9) CHLORODIFLUOROMETHANE	4.192	67	777	0.1900000	ppbv		89
10) 1,2-Dichlorotetrafluor...	4.334	85	7269	0.1900000	ppbv		97
11) Chloromethane	4.459	50	2933	0.1900000	ppbv		95
12) Vinyl Chloride	4.595	62	2609	0.1900000	ppbv	#	54
13) 1,3-Butadiene	4.623	39	2791	0.1900000	ppbv		99
14) Bromomethane	5.020	94	2737	0.1900000	ppbv		90
15) Chloroethane	5.111	64	2154	0.1900000	ppbv	#	85
16) ISOPENTANE	5.128	43	3874	0.1900000	ppbv	#	88
17) Vinyl Bromide	5.321	106	2744	0.1900000	ppbv		98
18) Trichlorofluoromethane	5.338	101	6614	0.1900000	ppbv		94
19) PENTANE	5.377	43	6495	0.1900000	ppbv	#	82
20) Ethanol	5.485	45	2320	0.1900000	ppbv	#	87
21) ACROLEIN	5.814	56	1971m	0.5130000	ppbv		
22) 1,1,2-Trichlorotrifluo...	5.786	101	5842	0.1900000	ppbv		96
23) 1,1-Dichloroethene	5.882	61	4939	0.1900000	ppbv		92
24) Acetone	5.939	58	2262	0.1900000	ppbv		74
25) BROMOETHANE	6.080	108	2412	0.1900000	ppbv		100
26) 2-Propanol	5.973	45	7641	0.1900000	ppbv	#	55
27) Carbon Disulfide	6.171	76	10181	0.1900000	ppbv	#	73
28) Allyl Chloride	6.211	41	5636	0.1900000	ppbv		77
29) METHYL ACETATE	6.177	43	7842	0.1900000	ppbv	#	93
30) ACETONITRILE	6.256	41	15734	0.9500000	ppbv		89
31) Methylene Chloride	6.341	49	4085	0.1900000	ppbv		97
32) TERT-BUTYL ALCOHOL	6.347	59	7571	0.1900000	ppbv		93
33) Methyl Tert-Butyl Ether	6.506	73	9842	0.1900000	ppbv		97
34) Trans-1,2-Dichloroethene	6.540	61	4619	0.1900000	ppbv		95
35) ACRYLONITRILE	6.591	53	2830	0.1900000	ppbv		98
36) n-Hexane	6.664	57	5961	0.1900000	ppbv	#	89
37) 1,1-Dichloroethane	6.954	63	5976	0.1900000	ppbv		99
38) Vinyl Acetate	6.886	43	15645	0.1900000	ppbv	#	88
39) DI-ISOPROPYL ETHER	6.851	45	12685	0.1900000	ppbv	#	1
40) ETHYL TERT-BUTYL ETHER	7.169	59	11206	0.1900000	ppbv		97
41) ETHYL ACETATE	7.396	70	933	0.1900000	ppbv		84

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_11.D
Acq On : 26 Apr 2024 6:53 pm
Operator :
Sample : STD AMS 0.19 ppbv 24D12755
Misc : 24D22236
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:26:34 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:25:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Butanone (MEK)	7.447	72	1788	0.1900000	ppbv		93
43) cis-1,2-Dichloroethene	7.470	61	4431	0.1900000	ppbv		96
44) Tetrahydrofuran	7.725	42	5047	0.1900000	ppbv		95
45) Chloroform	7.708	83	6785	0.1900000	ppbv		97
46) Cyclohexane	7.929	84	4720	0.1900000	ppbv		98
47) 1,1,1-Trichloroethane	7.912	97	5908	0.1900000	ppbv		98
48) Carbon Tetrachloride	8.042	117	5855	0.1900000	ppbv		99
49) 2,2,4-Trimethylpentane	8.150	57	18572	0.1900000	ppbv	#	95
51) Benzene	8.258	78	11599	0.1900000	ppbv		98
52) TERT-AMYL METHYL ETHER	8.235	73	10996	0.1900000	ppbv	#	83
53) 1,2-Dichloroethane	8.303	62	4295	0.1900000	ppbv		98
54) Heptane	8.269	57	4378	0.1900000	ppbv	#	85
55) Trichloroethene	8.819	95	4569	0.1900000	ppbv		95
56) TERT-AMYL ETHYL ETHER	8.898	73	3791	0.1900000	ppbv	#	86
57) METHYL CYCLOHEXANE	8.978	83	6263	0.1900000	ppbv	#	86
58) 1,2-Dichloropropane	9.097	63	4305	0.1900000	ppbv		99
59) Methyl Methacrylate	9.034	69	4282	0.1900000	ppbv		94
60) 1,4-Dioxane	9.182	88	3003	0.1900000	ppbv	#	87
61) Bromodichloromethane	9.329	83	6349	0.1900000	ppbv		99
62) cis-1,3-Dichloropropene	9.766	75	6149	0.1900000	ppbv	#	84
63) 4-Methyl-2-Pentanone (...	9.851	43	10024	0.1900000	ppbv	#	92
64) n-OCTANE	9.970	43	11203	0.1900000	ppbv		94
65) Toluene	10.095	91	14788	0.1900000	ppbv		96
66) trans-1,3-Dichloropropene	10.333	75	4818	0.1900000	ppbv	#	86
67) 1,1,2-Trichloroethane	10.554	97	3969	0.1900000	ppbv		99
68) Tetrachloroethene	10.667	166	5741	0.1900000	ppbv		97
69) Methyl Butyl Ketone	10.724	43	9407	0.1900000	ppbv	#	92
70) Chlorodibromomethane	11.013	129	5880	0.1900000	ppbv		95
71) 1,2-Dibromoethane	11.200	107	5589	0.1900000	ppbv		96
72) Chlorobenzene	11.676	112	9757	0.1900000	ppbv	#	65
73) NONANE	11.620	43	12023	0.1900000	ppbv		95
75) Ethylbenzene	11.699	91	16860	0.1900000	ppbv		100
76) M&P-Xylene	11.824	91	26104	0.3800000	ppbv		99
77) O-Xylene	12.300	91	13619	0.1900000	ppbv		100
80) Styrene	12.317	104	9356	0.1900000	ppbv		95
81) Bromoform	12.623	173	5160	0.1900000	ppbv		99
82) Isopropylbenzene	12.652	105	18111	0.1900000	ppbv		98
83) n-DECANE	13.043	43	10480	0.1900000	ppbv		97
84) 1,1,2,2-Tetrachloroethane	13.003	83	8910	0.1900000	ppbv		99
85) n-Propylbenzene	13.054	91	20356	0.1900000	ppbv		99
86) 4-Ethyltoluene	13.151	105	16792	0.1900000	ppbv		100
87) 2-Chlorotoluene	13.213	91	13852	0.1900000	ppbv		97
89) 1,3,5-Trimethylbenzene	13.202	105	14332	0.1900000	ppbv		99
90) tert-Butylbenzene	13.502	119	14080	0.1900000	ppbv		99
91) 1,2,4-Trimethylbenzene	13.553	105	15301	0.1900000	ppbv		95
92) sec-Butylbenzene	13.689	105	21798	0.1900000	ppbv		97
93) 1,3-Dichlorobenzene	13.882	146	9113	0.1900000	ppbv		97
94) P-ISOPROPYLTOLUENE	13.791	119	17489	0.1900000	ppbv		97
95) 1,4-Dichlorobenzene	13.961	146	8948	0.1900000	ppbv		98
96) 1,2,3-TRIMETHYLBENZENE	13.944	105	15080	0.1900000	ppbv		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_11.D
Acq On : 26 Apr 2024 6:53 pm
Operator :
Sample : STD AMS 0.19 ppbv 24D12755
Misc : 24D22236
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:26:34 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:25:51 2024
Response via : Initial Calibration

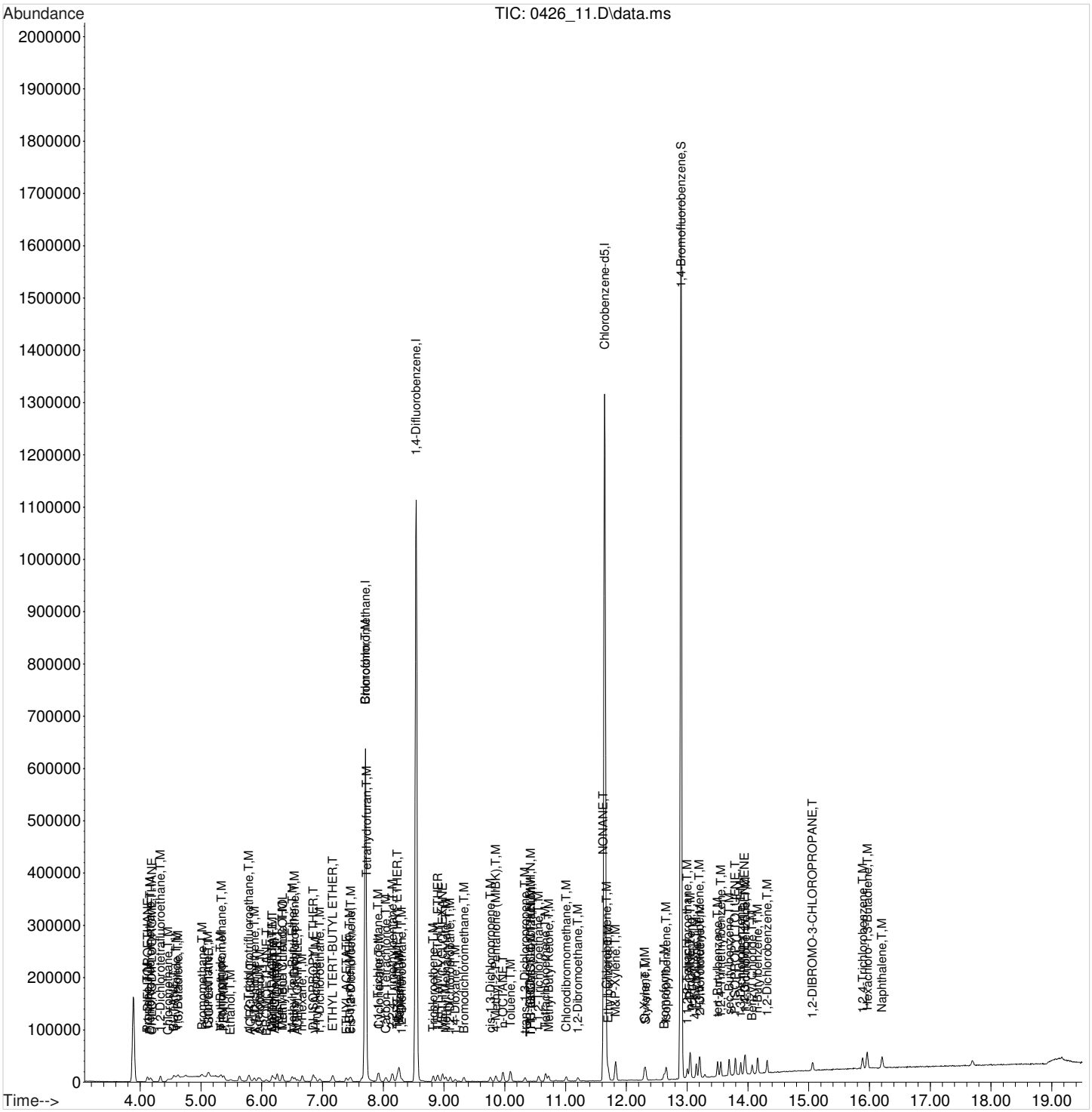
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	14.069	91	11927	0.1900000	ppbv	99
98) n-Butylbenzene	14.160	91	17657	0.1900000	ppbv	99
99) 1,2-Dichlorobenzene	14.319	146	9401	0.1900000	ppbv	99
100) 1,2-DIBROMO-3-CHLOROPR...	15.061	157	4993	0.1900000	ppbv	96
101) 1,2,4-Trichlorobenzene	15.889	180	8185	0.1900000	ppbv	97
102) Hexachloro-1,3-Butadiene	15.968	225	8275	0.1900000	ppbv	99
103) Naphthalene	16.207	128	20516	0.1900000	ppbv #	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_11.D
Acq On : 26 Apr 2024 6:53 pm
Operator :
Sample : STD AMS 0.19 ppbv 24D12755
Misc : 24D22236
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS16

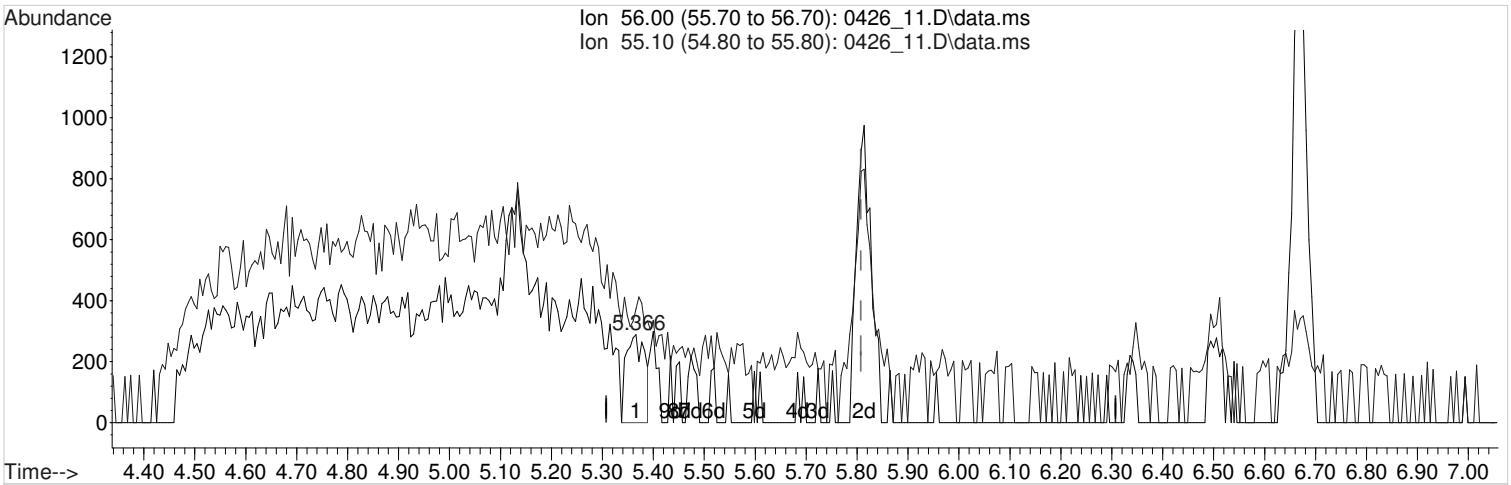
Quant Time: Apr 27 07:26:34 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:25:51 2024
Response via : Initial Calibration

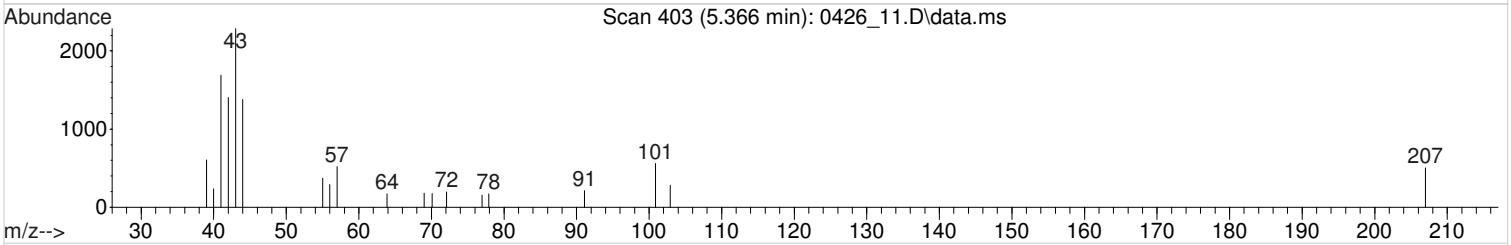


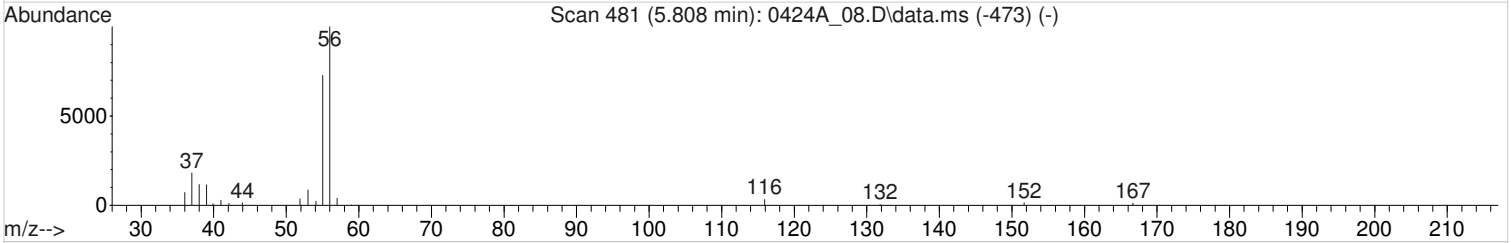
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_11.D
Acq On : 26 Apr 2024 6:53 pm
Operator :
Sample : STD AMS 0.19 ppbv 24D12755
Misc : 24D22236
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:26:00 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:25:51 2024
Response via : Initial Calibration







TIC: 0426_11.D\data.ms

(21) ACROLEIN (T)

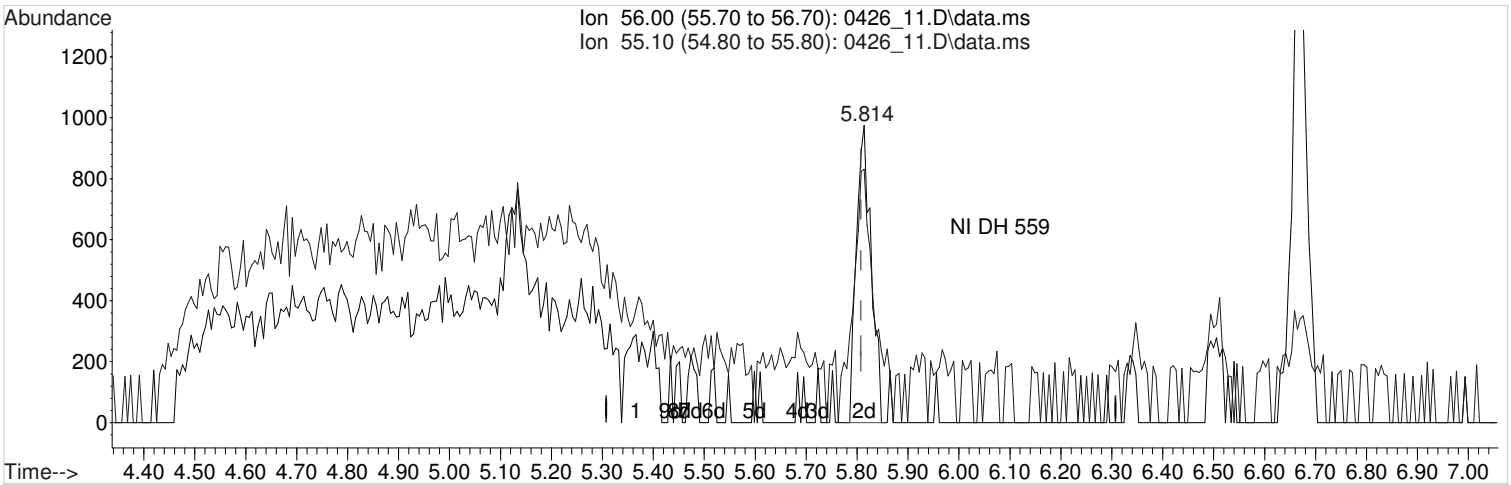
5.366min (-0.442) 0.1900000 ppbv
Qvalue = 85
response 730

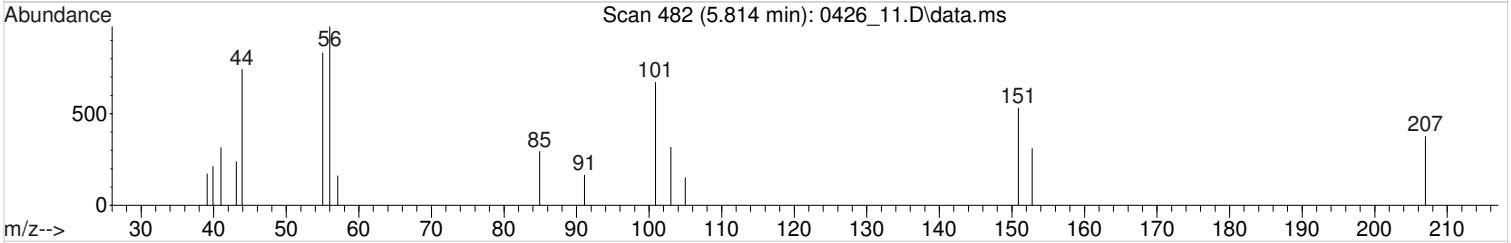
Ion	Exp%	Act%
56.00	100	100
55.10	74.70	62.05
0.00	0.00	0.00
0.00	0.00	0.00

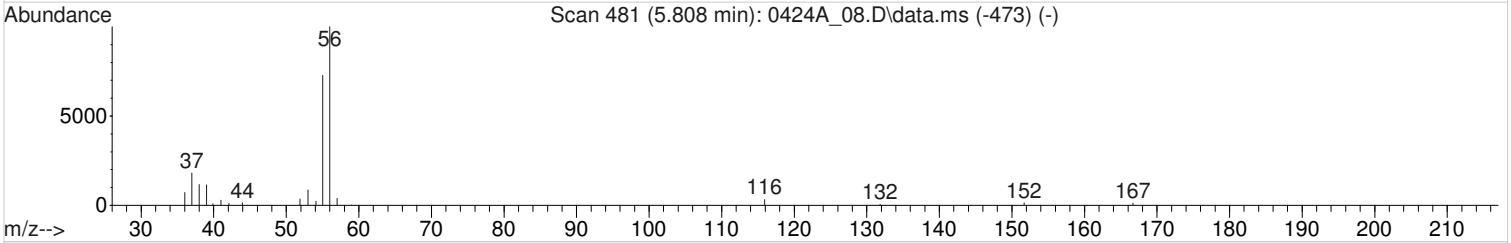
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_11.D
Acq On : 26 Apr 2024 6:53 pm
Operator :
Sample : STD AMS 0.19 ppbv 24D12755
Misc : 24D22236
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:26:00 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:25:51 2024
Response via : Initial Calibration







TIC: 0426_11.D\data.ms

(21) ACROLEIN (T)

5.814min (+0.006) 0.5130000 ppbv m

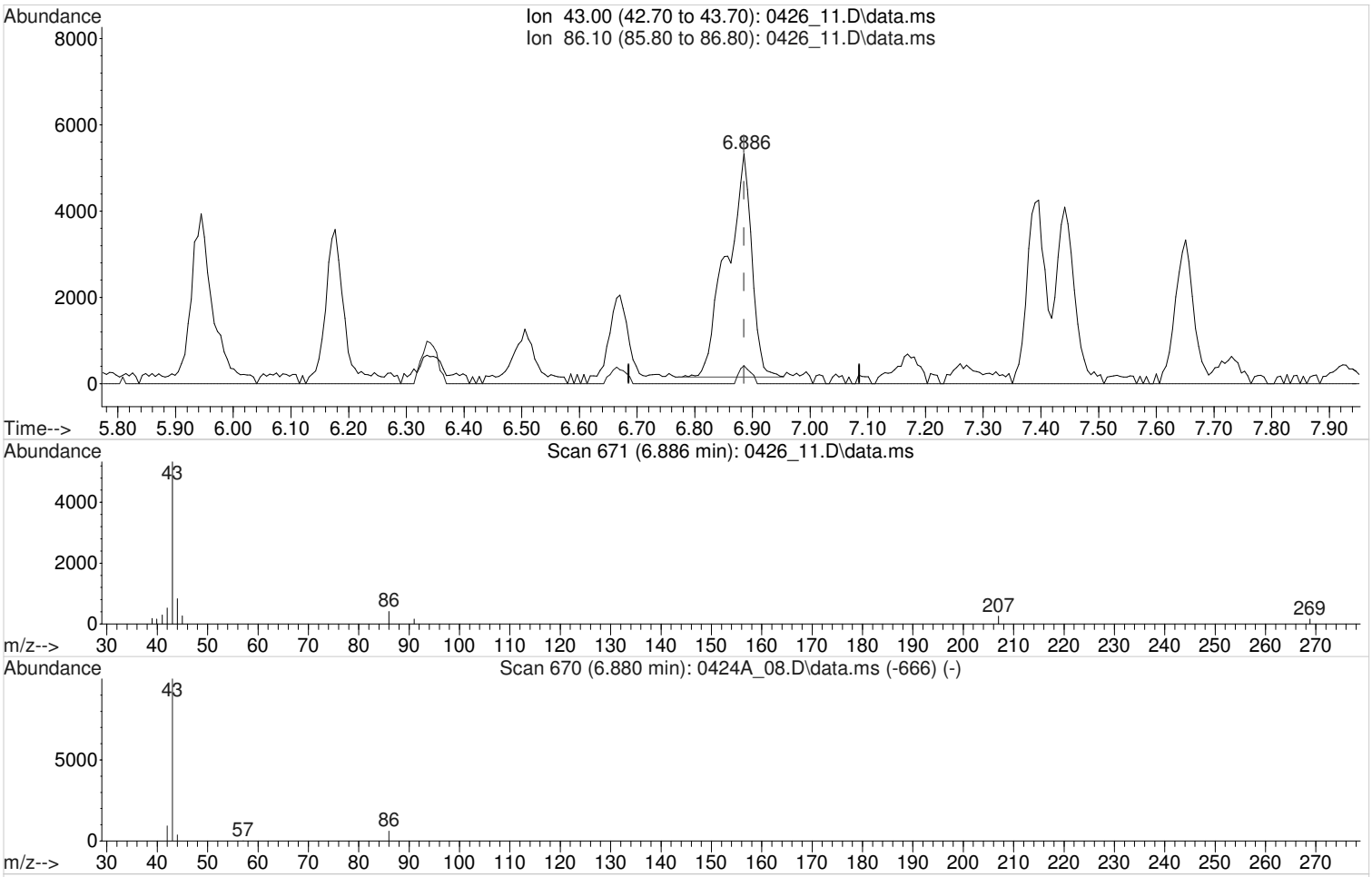
response 1971

Ion	Exp%	Act%
56.00	100	100
55.10	74.70	22.98#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_11.D
Acq On : 26 Apr 2024 6:53 pm
Operator :
Sample : STD AMS 0.19 ppbv 24D12755
Misc : 24D22236
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:26:34 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:25:51 2024
Response via : Initial Calibration



TIC: 0426_11.D\data.ms

(38) Vinyl Acetate (T,M)

6.886min (+0.000) 0.1900000 ppbv

Qvalue = 88

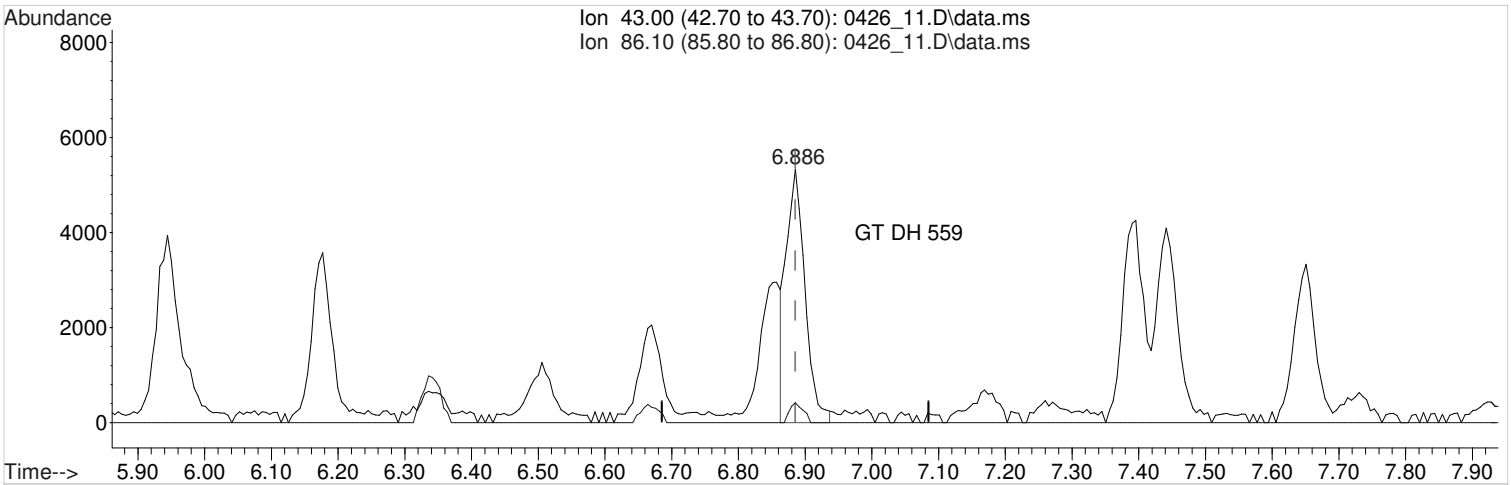
response 15645

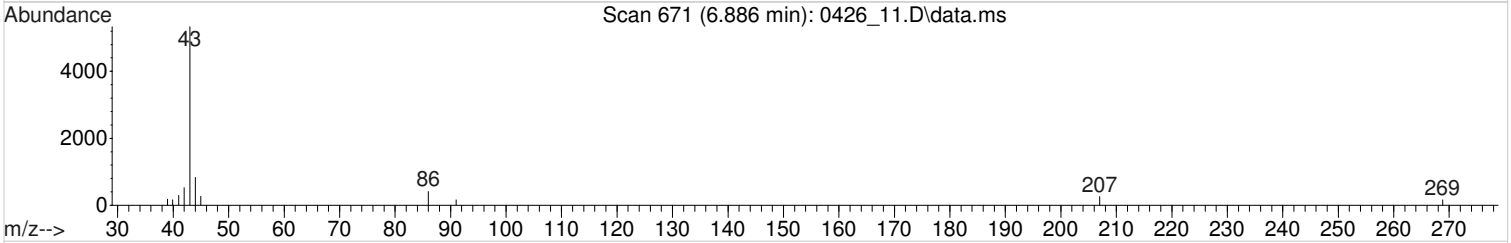
Ion	Exp%	Act%
43.00	100	100
86.10	7.90	3.80#
0.00	0.00	0.00
0.00	0.00	0.00

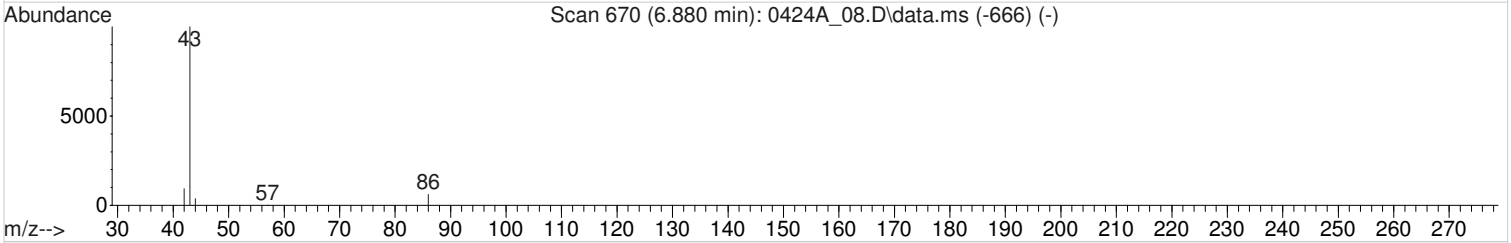
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_11.D
Acq On : 26 Apr 2024 6:53 pm
Operator :
Sample : STD AMS 0.19 ppbv 24D12755
Misc : 24D22236
ALS Vial : 11 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:26:34 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:25:51 2024
Response via : Initial Calibration







TIC: 0426_11.D\data.ms

(38) Vinyl Acetate (T,M)

6.886min (+0.000) 0.1266302 ppbv m

response 10427

Ion	Exp%	Act%
43.00	100	100
86.10	7.90	5.70#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_12.D
Acq On : 26 Apr 2024 7:30 pm
Operator :
Sample : STD AMS 0.31 ppbv 24D12755
Misc : 24D22236
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:28:07 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:27:31 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.708	130	233355	4.0000000	ppbv		0.00
50) 1,4-Difluorobenzene	8.541	114	984856	4.0000000	ppbv		0.00
74) Chlorobenzene-d5	11.642	117	872897	4.0000000	ppbv		0.00
System Monitoring Compounds							
88) 1,4-Bromofluorobenzene	12.901	95	614986	4.0104590	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.26%				
Target Compounds						Qvalue	
2) TPH (GC/MS) Low Fraction	10.430	TIC	2742701m	13.9106735	ppbv		
3) TPH-GRO (C5-C10)	10.430	TIC	3299647m	20.0232700	ppbv		
4) THC as Gas (C4-C12)	10.430	TIC	11350309m	21.4398478	ppbv		
5) Propene	4.119	41	6498	0.3770960	ppbv		92
6) BUTANE	4.561	43	10226	0.3510176	ppbv		97
7) 1,1-DIFLUOROETHANE	4.124	65	3524	0.3677615	ppbv		99
8) Dichlorodifluoromethane	4.170	85	12694	0.3487227	ppbv		100
9) CHLORODIFLUOROMETHANE	4.192	67	1401	0.3507465	ppbv		85
10) 1,2-Dichlorotetrafluor...	4.334	85	13666	0.3657152	ppbv		99
11) Chloromethane	4.459	50	5450	0.3614604	ppbv		98
12) Vinyl Chloride	4.595	62	5107	0.3807747	ppbv	#	81
13) 1,3-Butadiene	4.623	39	4885	0.3404717	ppbv		92
14) Bromomethane	5.020	94	4808	0.3417165	ppbv		99
15) Chloroethane	5.117	64	3514	0.3173455	ppbv	#	88
16) ISOPENTANE	5.128	43	6620	0.3324104	ppbv	#	95
17) Vinyl Bromide	5.321	106	4753	0.3369457	ppbv		97
18) Trichlorofluoromethane	5.343	101	12104	0.3559926	ppbv		96
19) PENTANE	5.383	43	11727	0.3512239	ppbv	#	93
20) Ethanol	5.491	45	3198	0.2681432	ppbv		94
21) ACROLEIN	5.814	56	3150m	0.3108853	ppbv		
22) 1,1,2-Trichlorotrifluo...	5.786	101	10535	0.3507917	ppbv		97
23) 1,1-Dichloroethene	5.882	61	9053	0.3565577	ppbv		95
24) Acetone	5.944	58	3609	0.3103634	ppbv		89
25) BROMOETHANE	6.080	108	4540	0.3661464	ppbv		95
26) 2-Propanol	5.973	45	13262	0.3376254	ppbv	#	77
27) Carbon Disulfide	6.171	76	18277	0.3492133	ppbv		93
28) Allyl Chloride	6.211	41	8058	0.2781202	ppbv		95
29) METHYL ACETATE	6.177	43	12343	0.3061753	ppbv	#	99
30) ACETONITRILE	6.256	41	29546	1.8264417	ppbv		99
31) Methylene Chloride	6.341	49	7515	0.3578600	ppbv		97
32) TERT-BUTYL ALCOHOL	6.341	59	14242	0.3659266	ppbv		96
33) Methyl Tert-Butyl Ether	6.506	73	17520	0.3462797	ppbv		99
34) Trans-1,2-Dichloroethene	6.551	61	8378	0.3528326	ppbv		97
35) ACRYLONITRILE	6.596	53	5194	0.3570194	ppbv		95
36) n-Hexane	6.670	57	10580	0.3452573	ppbv		95
37) 1,1-Dichloroethane	6.959	63	10747	0.3498267	ppbv		99
38) Vinyl Acetate	6.885	43	19287	0.2398089	ppbv		96
39) DI-ISOPROPYL ETHER	6.846	45	22575	0.3461892	ppbv		99
40) ETHYL TERT-BUTYL ETHER	7.169	59	20211	0.3508435	ppbv		98
41) ETHYL ACETATE	7.396	70	1756	0.3661164	ppbv		87

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_12.D
Acq On : 26 Apr 2024 7:30 pm
Operator :
Sample : STD AMS 0.31 ppbv 24D12755
Misc : 24D22236
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:28:07 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:27:31 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 2-Butanone (MEK)	7.447	72	3298	0.3588058 ppbv	97
43) cis-1,2-Dichloroethene	7.469	61	8019	0.3520422 ppbv	98
44) Tetrahydrofuran	7.725	42	8721	0.3361315 ppbv	97
45) Chloroform	7.708	83	12226	0.3505184 ppbv	97
46) Cyclohexane	7.929	84	8170	0.3367102 ppbv	93
47) 1,1,1-Trichloroethane	7.912	97	10802	0.3556640 ppbv	99
48) Carbon Tetrachloride	8.048	117	10604	0.3523052 ppbv	99
49) 2,2,4-Trimethylpentane	8.150	57	33049	0.3461592 ppbv	97
51) Benzene	8.258	78	20386	0.3415184 ppbv	99
52) TERT-AMYL METHYL ETHER	8.235	73	18801	0.3322376 ppbv #	85
53) 1,2-Dichloroethane	8.309	62	7735	0.3499450 ppbv	96
54) Heptane	8.269	57	7262	0.3223169 ppbv #	81
55) Trichloroethene	8.819	95	7990	0.3398038 ppbv	98
56) TERT-AMYL ETHYL ETHER	8.898	73	6481	0.3321933 ppbv	93
57) METHYL CYCLOHEXANE	8.978	83	11756	0.3647370 ppbv	98
58) 1,2-Dichloropropane	9.108	63	7909	0.3569859 ppbv	94
59) Methyl Methacrylate	9.029	69	7325	0.3324020 ppbv	95
60) 1,4-Dioxane	9.187	88	4703	0.3043142 ppbv #	89
61) Bromodichloromethane	9.329	83	11692	0.3578377 ppbv	100
62) cis-1,3-Dichloropropene	9.766	75	11502	0.3634724 ppbv	94
63) 4-Methyl-2-Pentanone (...	9.851	43	17169	0.3328178 ppbv	98
64) n-OCTANE	9.970	43	19030	0.3300708 ppbv	99
65) Toluene	10.095	91	25734	0.3381431 ppbv	96
66) trans-1,3-Dichloropropene	10.333	75	8725	0.3518854 ppbv	93
67) 1,1,2-Trichloroethane	10.554	97	7231	0.3540135 ppbv	99
68) Tetrachloroethene	10.673	166	10284	0.3480785 ppbv	99
69) Methyl Butyl Ketone	10.724	43	15847	0.3273396 ppbv	97
70) Chlorodibromomethane	11.013	129	10752	0.3553158 ppbv	97
71) 1,2-Dibromoethane	11.206	107	10318	0.3587270 ppbv	98
72) Chlorobenzene	11.676	112	17698	0.3524605 ppbv #	76
73) NONANE	11.620	43	20093	0.3247391 ppbv #	98
75) Ethylbenzene	11.705	91	31915	0.3648452 ppbv	97
76) M&P-Xylene	11.824	91	48098	0.7102664 ppbv	98
77) O-Xylene	12.300	91	24996	0.3537501 ppbv	98
80) Styrene	12.317	104	17076	0.3517768 ppbv	97
81) Bromoform	12.623	173	9888	0.3693432 ppbv	99
82) Isopropylbenzene	12.657	105	32531	0.3461994 ppbv	99
83) n-DECANE	13.043	43	18230	0.3352716 ppbv	97
84) 1,1,2,2-Tetrachloroethane	13.003	83	16249	0.3514959 ppbv	100
85) n-Propylbenzene	13.054	91	37949	0.3593182 ppbv	100
86) 4-Ethyltoluene	13.150	105	30595	0.3511716 ppbv	98
87) 2-Chlorotoluene	13.213	91	24914	0.3466589 ppbv	100
89) 1,3,5-Trimethylbenzene	13.202	105	25876	0.3479859 ppbv	99
90) tert-Butylbenzene	13.502	119	24700	0.3381159 ppbv	99
91) 1,2,4-Trimethylbenzene	13.553	105	26191	0.3299162 ppbv	100
92) sec-Butylbenzene	13.689	105	39006	0.3448944 ppbv	99
93) 1,3-Dichlorobenzene	13.882	146	16536	0.3497361 ppbv	95
94) P-ISOPROPYLTOLUENE	13.797	119	31239	0.3442734 ppbv	97
95) 1,4-Dichlorobenzene	13.961	146	16712	0.3599762 ppbv	97
96) 1,2,3-TRIMETHYLBENZENE	13.944	105	27190	0.3475195 ppbv	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_12.D
Acq On : 26 Apr 2024 7:30 pm
Operator :
Sample : STD AMS 0.31 ppbv 24D12755
Misc : 24D22236
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:28:07 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:27:31 2024
Response via : Initial Calibration

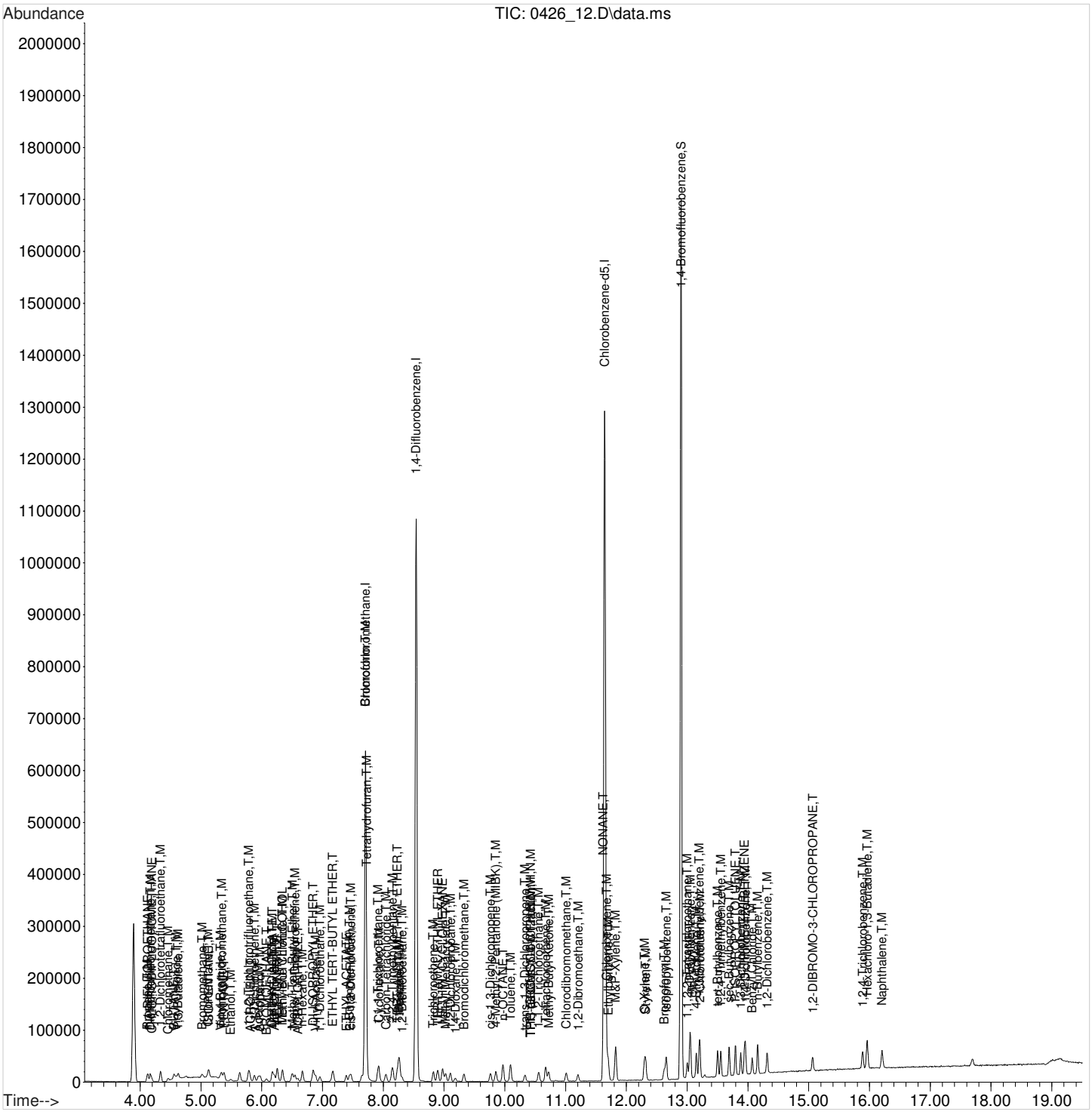
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	14.069	91	21306	0.3443040	ppbv	100
98) n-Butylbenzene	14.160	91	30588	0.3338916	ppbv	99
99) 1,2-Dichlorobenzene	14.318	146	16332	0.3348395	ppbv	98
100) 1,2-DIBROMO-3-CHLOROPR...	15.067	157	8184	0.3159187	ppbv	98
101) 1,2,4-Trichlorobenzene	15.889	180	13212	0.3111152	ppbv	99
102) Hexachloro-1,3-Butadiene	15.963	225	14124	0.3289736	ppbv	98
103) Naphthalene	16.206	128	32730	0.3074855	ppbv	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_12.D
Acq On : 26 Apr 2024 7:30 pm
Operator :
Sample : STD AMS 0.31 ppbv 24D12755
Misc : 24D22236
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS16

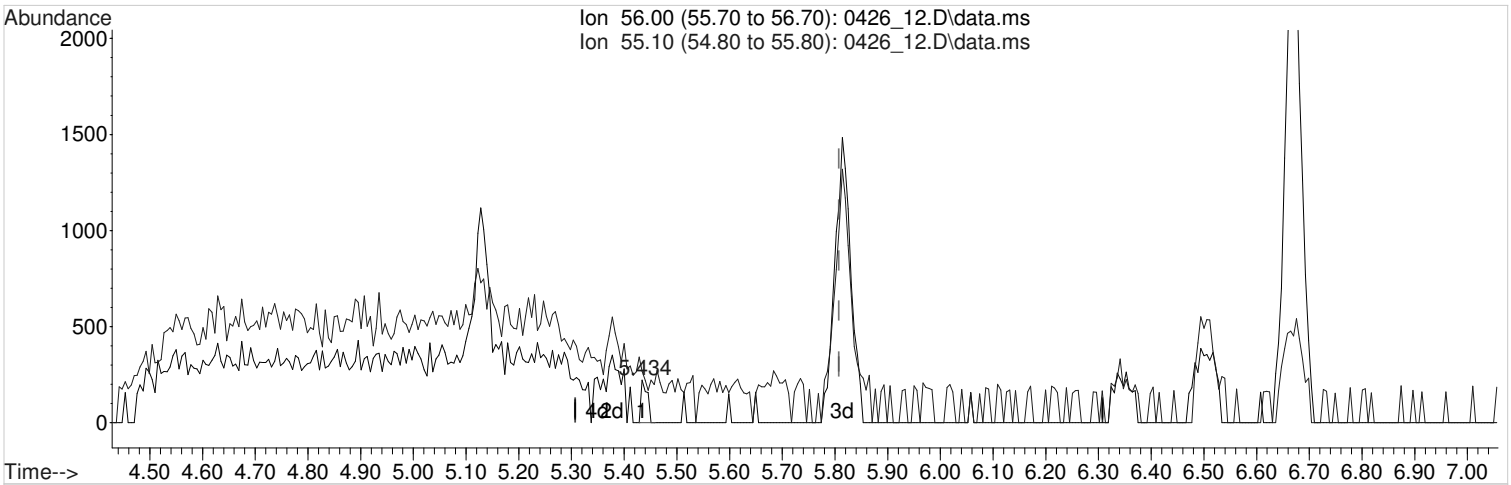
Quant Time: Apr 27 07:28:07 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:27:31 2024
Response via : Initial Calibration

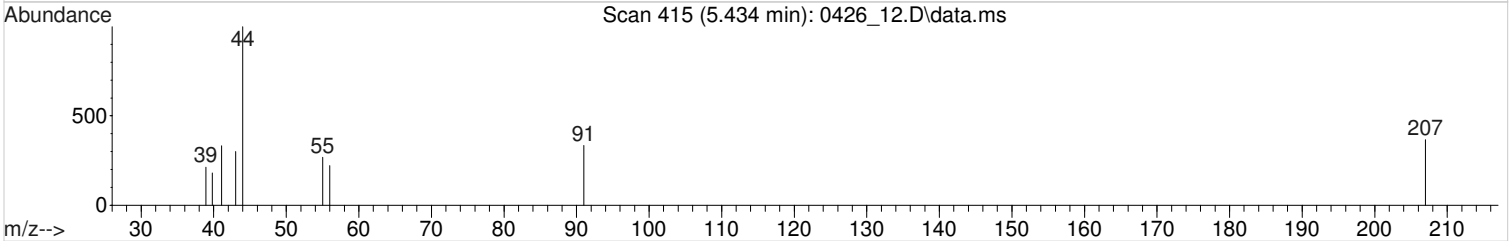


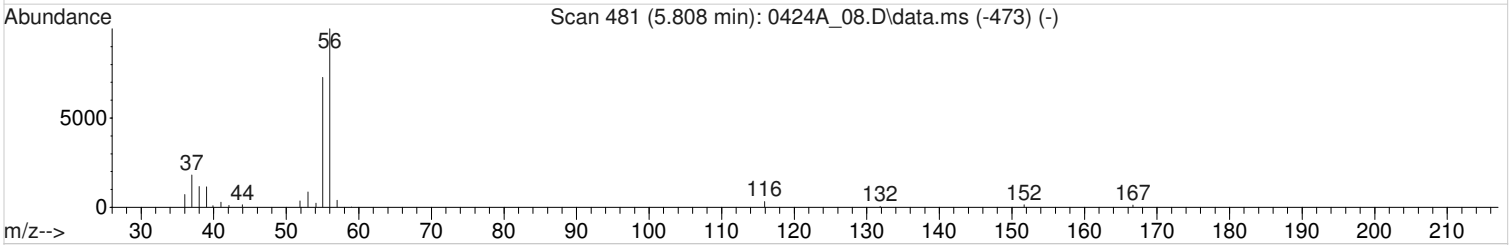
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_12.D
Acq On : 26 Apr 2024 7:30 pm
Operator :
Sample : STD AMS 0.31 ppbv 24D12755
Misc : 24D22236
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:27:35 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:27:31 2024
Response via : Initial Calibration







TIC: 0426_12.D\data.ms

(21) ACROLEIN (T)

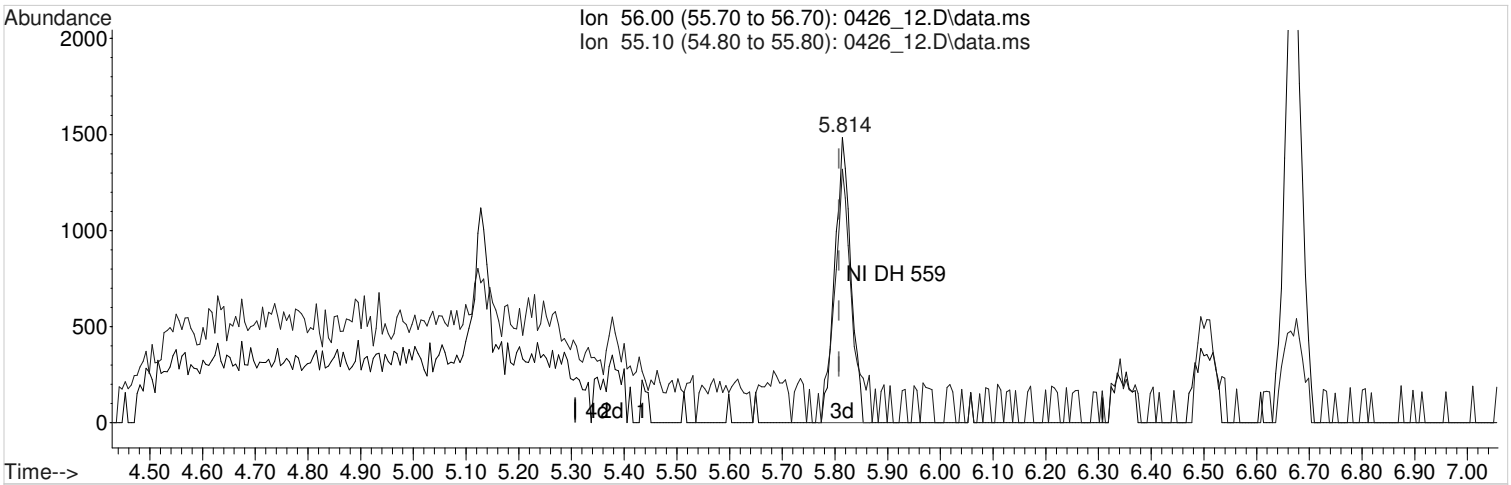
5.434min (-0.374) 0.0180610 ppbv
Qvalue = 96
response 183

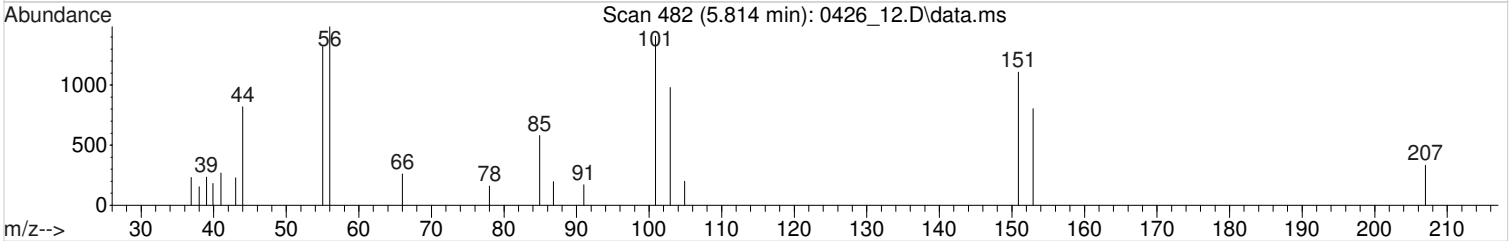
Ion	Exp%	Act%
56.00	100	100
55.10	74.70	78.14
0.00	0.00	0.00
0.00	0.00	0.00

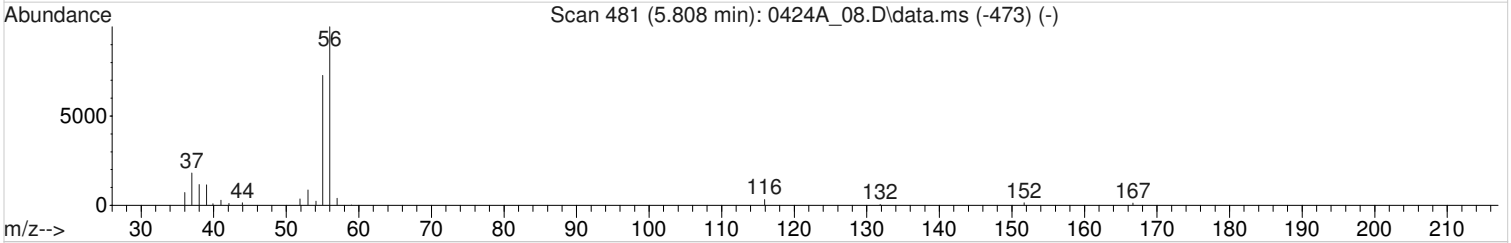
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_12.D
Acq On : 26 Apr 2024 7:30 pm
Operator :
Sample : STD AMS 0.31 ppbv 24D12755
Misc : 24D22236
ALS Vial : 12 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:27:35 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:27:31 2024
Response via : Initial Calibration







TIC: 0426_12.D\data.ms

(21) ACROLEIN (T)

5.814min (+0.006) 0.3108853 ppbv m

response 3150

Ion	Exp%	Act%
56.00	100	100
55.10	74.70	4.54#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_13.D
Acq On : 26 Apr 2024 8:06 pm
Operator :
Sample : STD AMS 0.63 ppbv 24D12755
Misc : 24D22236
ALS Vial : 13 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:29:42 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:29:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.708	130	232305	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	8.541	114	989591	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	11.642	117	875624	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	12.901	95	617041	4.0060910	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.15%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	5152369m	26.8580538	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	6208370m	39.0935365	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	15646344m	34.3613007	ppbv	
5) Propene	4.119	41	12160	0.6396444	ppbv	94
6) BUTANE	4.555	43	17420	0.5633891	ppbv	100
7) 1,1-DIFLUOROETHANE	4.124	65	7100	0.6808666	ppbv	93
8) Dichlorodifluoromethane	4.164	85	26634	0.6917764	ppbv	99
9) CHLORODIFLUOROMETHANE	4.187	67	2965	0.6996733	ppbv	79
10) 1,2-Dichlorotetrafluor...	4.334	85	28309	0.6982528	ppbv	99
11) Chloromethane	4.453	50	10622	0.6534319	ppbv	98
12) Vinyl Chloride	4.589	62	10156	0.6827139	ppbv	90
13) 1,3-Butadiene	4.623	39	8738	0.5831098	ppbv	97
14) Bromomethane	5.015	94	9002	0.6114093	ppbv	94
15) Chloroethane	5.111	64	5392	0.4834192	ppbv	94
16) ISOPENTANE	5.122	43	13098	0.6376161	ppbv	97
17) Vinyl Bromide	5.315	106	9854	0.6724920	ppbv	100
18) Trichlorofluoromethane	5.338	101	25336	0.6968366	ppbv	96
19) PENTANE	5.377	43	23753	0.6700656	ppbv	95
20) Ethanol	5.485	45	5811	0.5248727	ppbv	98
21) ACROLEIN	5.814	56	5853	0.5794381	ppbv	85
22) 1,1,2-Trichlorotrifluo...	5.786	101	22635	0.7103639	ppbv	99
23) 1,1-Dichloroethene	5.876	61	18793	0.6915855	ppbv	96
24) Acetone	5.939	58	6716	0.5798270	ppbv	92
25) BROMOETHANE	6.075	108	9157	0.6802392	ppbv	99
26) 2-Propanol	5.967	45	27605	0.6758343	ppbv	91
27) Carbon Disulfide	6.171	76	39241	0.7083538	ppbv	98
28) Allyl Chloride	6.211	41	17875	0.6533343	ppbv	99
29) METHYL ACETATE	6.171	43	26642	0.6679781	ppbv #	99
30) ACETONITRILE	6.256	41	61519	3.5073361	ppbv	99
31) Methylene Chloride	6.341	49	15114	0.6711636	ppbv	99
32) TERT-BUTYL ALCOHOL	6.336	59	29623	0.7012982	ppbv	99
33) Methyl Tert-Butyl Ether	6.494	73	36104	0.6771884	ppbv	97
34) Trans-1,2-Dichloroethene	6.551	61	17728	0.7015110	ppbv	98
35) ACRYLONITRILE	6.591	53	10956	0.7031592	ppbv	97
36) n-Hexane	6.670	57	21796	0.6760399	ppbv	94
37) 1,1-Dichloroethane	6.959	63	22664	0.6963420	ppbv	100
38) Vinyl Acetate	6.886	43	38976	0.5489546	ppbv	98
39) DI-ISOPROPYL ETHER	6.840	45	47759	0.6951238	ppbv	96
40) ETHYL TERT-BUTYL ETHER	7.163	59	42808	0.7003291	ppbv	99
41) ETHYL ACETATE	7.385	70	3590	0.6894740	ppbv	88

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_13.D
Acq On : 26 Apr 2024 8:06 pm
Operator :
Sample : STD AMS 0.63 ppbv 24D12755
Misc : 24D22236
ALS Vial : 13 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:29:42 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:29:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Butanone (MEK)	7.436	72	6785	0.6873989	ppbv		99
43) cis-1,2-Dichloroethene	7.470	61	17383	0.7178998	ppbv		99
44) Tetrahydrofuran	7.725	42	17461	0.6486962	ppbv		97
45) Chloroform	7.708	83	25471	0.6885536	ppbv		98
46) Cyclohexane	7.929	84	17508	0.6948824	ppbv		98
47) 1,1,1-Trichloroethane	7.912	97	22912	0.7058200	ppbv		100
48) Carbon Tetrachloride	8.042	117	23059	0.7204136	ppbv		99
49) 2,2,4-Trimethylpentane	8.150	57	69828	0.6942057	ppbv		97
51) Benzene	8.258	78	41832	0.6637014	ppbv		99
52) TERT-AMYL METHYL ETHER	8.229	73	39318	0.6675322	ppbv	#	87
53) 1,2-Dichloroethane	8.309	62	16741	0.7081444	ppbv		98
54) Heptane	8.263	57	14702	0.6367620	ppbv	#	82
55) Trichloroethene	8.825	95	17245	0.6964198	ppbv		99
56) TERT-AMYL ETHYL ETHER	8.893	73	12779	0.6293448	ppbv		94
57) METHYL CYCLOHEXANE	8.978	83	23830	0.6761117	ppbv		95
58) 1,2-Dichloropropane	9.102	63	16399	0.6847608	ppbv		96
59) Methyl Methacrylate	9.029	69	14967	0.6523678	ppbv		99
60) 1,4-Dioxane	9.188	88	9778	0.6354998	ppbv	#	94
61) Bromodichloromethane	9.324	83	24993	0.7067298	ppbv		100
62) cis-1,3-Dichloropropene	9.766	75	23858	0.6907502	ppbv		94
63) 4-Methyl-2-Pentanone (...	9.851	43	35619	0.6627719	ppbv		99
64) n-OCTANE	9.970	43	39060	0.6531023	ppbv		99
65) Toluene	10.095	91	52463	0.6562724	ppbv		99
66) trans-1,3-Dichloropropene	10.333	75	18935	0.7119131	ppbv		94
67) 1,1,2-Trichloroethane	10.560	97	15038	0.6841374	ppbv		99
68) Tetrachloroethene	10.673	166	22281	0.7070999	ppbv		100
69) Methyl Butyl Ketone	10.718	43	33297	0.6658776	ppbv		98
70) Chlorodibromomethane	11.007	129	22928	0.7027038	ppbv		97
71) 1,2-Dibromoethane	11.206	107	22413	0.7189991	ppbv		98
72) Chlorobenzene	11.677	112	37465	0.6949615	ppbv	#	79
73) NONANE	11.620	43	40510	0.6364517	ppbv		98
75) Ethylbenzene	11.699	91	64076	0.6708757	ppbv		99
76) M&P-Xylene	11.824	91	100064	1.3730948	ppbv		99
77) O-Xylene	12.300	91	51810	0.6827663	ppbv		100
80) Styrene	12.317	104	36471	0.7017045	ppbv		97
81) Bromoform	12.623	173	21578	0.7332982	ppbv		99
82) Isopropylbenzene	12.657	105	68508	0.6867069	ppbv		99
83) n-DECANE	13.043	43	37862	0.6669728	ppbv		98
84) 1,1,2,2-Tetrachloroethane	13.003	83	33765	0.6824491	ppbv		100
85) n-Propylbenzene	13.054	91	79406	0.6942831	ppbv		99
86) 4-Ethyltoluene	13.151	105	64503	0.6921045	ppbv		99
87) 2-Chlorotoluene	13.213	91	51708	0.6771951	ppbv		99
89) 1,3,5-Trimethylbenzene	13.202	105	53840	0.6801270	ppbv		100
90) tert-Butylbenzene	13.502	119	51091	0.6669564	ppbv		100
91) 1,2,4-Trimethylbenzene	13.553	105	54885	0.6677580	ppbv		99
92) sec-Butylbenzene	13.689	105	78979	0.6590708	ppbv		99
93) 1,3-Dichlorobenzene	13.882	146	34563	0.6848385	ppbv		97
94) P-ISOPROPYLTOLUENE	13.791	119	65720	0.6841978	ppbv		99
95) 1,4-Dichlorobenzene	13.961	146	34771	0.6909398	ppbv		97
96) 1,2,3-TRIMETHYLBENZENE	13.944	105	54591	0.6558725	ppbv		100

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_13.D
Acq On : 26 Apr 2024 8:06 pm
Operator :
Sample : STD AMS 0.63 ppbv 24D12755
Misc : 24D22236
ALS Vial : 13 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:29:42 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:29:25 2024
Response via : Initial Calibration

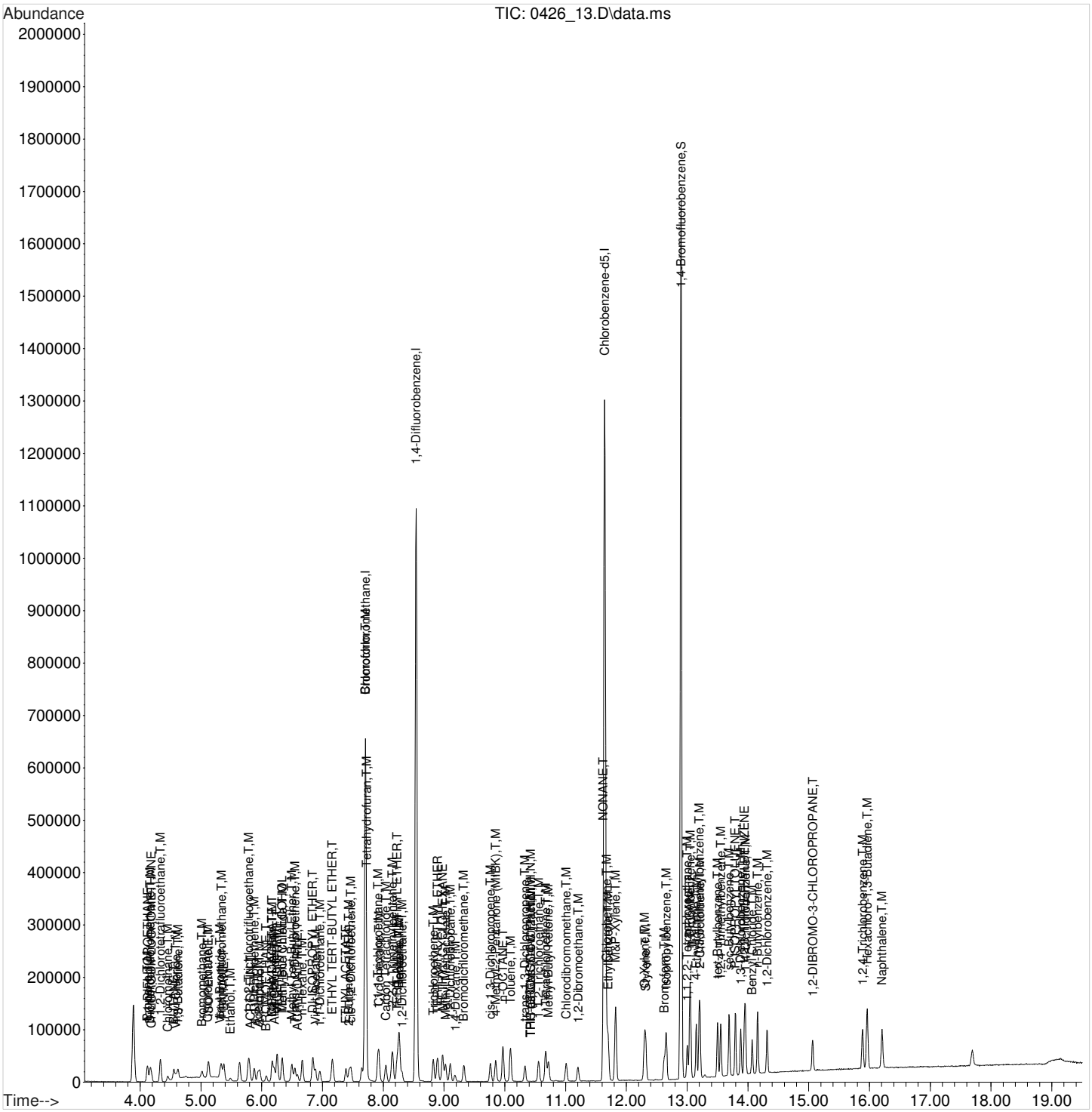
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	14.069	91	45682	0.6973370	ppbv	99
98) n-Butylbenzene	14.160	91	64465	0.6754647	ppbv	99
99) 1,2-Dichlorobenzene	14.319	146	34503	0.6780154	ppbv	99
100) 1,2-DIBROMO-3-CHLOROPR...	15.067	157	17734	0.6759826	ppbv	97
101) 1,2,4-Trichlorobenzene	15.889	180	29484	0.6908821	ppbv	99
102) Hexachloro-1,3-Butadiene	15.963	225	29341	0.6610470	ppbv	96
103) Naphthalene	16.207	128	69538	0.6538996	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_13.D
Acq On : 26 Apr 2024 8:06 pm
Operator :
Sample : STD AMS 0.63 ppbv 24D12755
Misc : 24D22236
ALS Vial : 13 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:29:42 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:29:25 2024
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\042624\
Data File : 0426_14.D
Acq On : 26 Apr 2024 8:43 pm
Operator :
Sample : STD AMS 1.25 ppbv 24D12755
Misc : 24D22236
ALS Vial : 14 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:30:50 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:30:29 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.708	130	232055	4.0000000	ppbv		0.00
50) 1,4-Difluorobenzene	8.541	114	981301	4.0000000	ppbv		0.00
74) Chlorobenzene-d5	11.642	117	868576	4.0000000	ppbv		0.00
System Monitoring Compounds							
88) 1,4-Bromofluorobenzene	12.895	95	614421	4.0194098	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.49%				
Target Compounds						Qvalue	
2) TPH (GC/MS) Low Fraction	10.430	TIC	9408433m	50.6610204	ppbv		
3) TPH-GRO (C5-C10)	10.430	TIC	11918540m	77.7341431	ppbv		
4) THC as Gas (C4-C12)	10.430	TIC	24017266m	61.5351938	ppbv		
5) Propene	4.119	41	21904	1.1475869	ppbv		99
6) BUTANE	4.555	43	33697	1.1308412	ppbv		99
7) 1,1-DIFLUOROETHANE	4.119	65	13758	1.2861533	ppbv		95
8) Dichlorodifluoromethane	4.164	85	53527	1.3477260	ppbv		99
9) CHLORODIFLUOROMETHANE	4.187	67	5645	1.2861165	ppbv		88
10) 1,2-Dichlorotetrafluor...	4.334	85	56810	1.3538596	ppbv		99
11) Chloromethane	4.453	50	21523	1.3092219	ppbv		99
12) Vinyl Chloride	4.589	62	20523	1.3436231	ppbv		99
13) 1,3-Butadiene	4.618	39	16824	1.1525128	ppbv		100
14) Bromomethane	5.020	94	18242	1.2526395	ppbv		99
15) Chloroethane	5.111	64	9634	0.9373640	ppbv		94
16) ISOPENTANE	5.122	43	23507	1.1409657	ppbv		96
17) Vinyl Bromide	5.315	106	19375	1.2945773	ppbv		98
18) Trichlorofluoromethane	5.338	101	49611	1.3193067	ppbv		96
19) PENTANE	5.377	43	46554	1.2873991	ppbv		98
20) Ethanol	5.485	45	10957	1.0491002	ppbv		97
21) ACROLEIN	5.808	56	11296	1.1502638	ppbv		92
22) 1,1,2-Trichlorotrifluo...	5.785	101	45310	1.3654552	ppbv		99
23) 1,1-Dichloroethene	5.876	61	37783	1.3479943	ppbv		99
24) Acetone	5.933	58	13248	1.1762252	ppbv		100
25) BROMOETHANE	6.075	108	18638	1.3501496	ppbv		98
26) 2-Propanol	5.967	45	54977	1.3155118	ppbv		98
27) Carbon Disulfide	6.171	76	78092	1.3550114	ppbv		99
28) Allyl Chloride	6.205	41	35604	1.2868466	ppbv		99
29) METHYL ACETATE	6.171	43	51113	1.2576335	ppbv	#	99
30) ACETONITRILE	6.256	41	123969	6.8175698	ppbv		96
31) Methylene Chloride	6.341	49	29804	1.2966833	ppbv		99
32) TERT-BUTYL ALCOHOL	6.335	59	58893	1.3450028	ppbv		98
33) Methyl Tert-Butyl Ether	6.494	73	70215	1.2862982	ppbv		99
34) Trans-1,2-Dichloroethene	6.545	61	35729	1.3637484	ppbv		99
35) ACRYLONITRILE	6.591	53	21346	1.3203591	ppbv		100
36) n-Hexane	6.670	57	43378	1.3148621	ppbv		98
37) 1,1-Dichloroethane	6.953	63	45429	1.3499071	ppbv		100
38) Vinyl Acetate	6.885	43	75603	1.1137301	ppbv		99
39) DI-ISOPROPYL ETHER	6.840	45	95584	1.3463169	ppbv		99
40) ETHYL TERT-BUTYL ETHER	7.158	59	84734	1.3379362	ppbv		99
41) ETHYL ACETATE	7.384	70	6728	1.2540689	ppbv		97

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_14.D
Acq On : 26 Apr 2024 8:43 pm
Operator :
Sample : STD AMS 1.25 ppbv 24D12755
Misc : 24D22236
ALS Vial : 14 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:30:50 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:30:29 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Butanone (MEK)	7.435	72	13603	1.3389618	ppbv		100
43) cis-1,2-Dichloroethene	7.469	61	34355	1.3572323	ppbv		99
44) Tetrahydrofuran	7.719	42	34052	1.2540288	ppbv		99
45) Chloroform	7.708	83	50052	1.3138030	ppbv		99
46) Cyclohexane	7.929	84	33090	1.2711018	ppbv		98
47) 1,1,1-Trichloroethane	7.912	97	45265	1.3420823	ppbv		99
48) Carbon Tetrachloride	8.042	117	45021	1.3437860	ppbv		99
49) 2,2,4-Trimethylpentane	8.150	57	140164	1.3491313	ppbv		99
51) Benzene	8.257	78	83065	1.3057493	ppbv		99
52) TERT-AMYL METHYL ETHER	8.223	73	78407	1.3162831	ppbv	#	89
53) 1,2-Dichloroethane	8.309	62	33704	1.3806392	ppbv		99
54) Heptane	8.269	57	29195	1.2706083	ppbv	#	81
55) Trichloroethene	8.819	95	34268	1.3481863	ppbv		99
56) TERT-AMYL ETHYL ETHER	8.892	73	25230	1.2534675	ppbv		99
57) METHYL CYCLOHEXANE	8.978	83	47755	1.3338228	ppbv		98
58) 1,2-Dichloropropane	9.102	63	32703	1.3383146	ppbv		97
59) Methyl Methacrylate	9.023	69	31088	1.3504995	ppbv		96
60) 1,4-Dioxane	9.176	88	18522	1.2104444	ppbv		96
61) Bromodichloromethane	9.323	83	49566	1.3582806	ppbv		100
62) cis-1,3-Dichloropropene	9.760	75	48860	1.3821465	ppbv		97
63) 4-Methyl-2-Pentanone (...	9.845	43	72428	1.3359075	ppbv		99
64) n-OCTANE	9.970	43	77882	1.2973680	ppbv		100
65) Toluene	10.094	91	104149	1.2958185	ppbv		99
66) trans-1,3-Dichloropropene	10.333	75	38160	1.3867481	ppbv		97
67) 1,1,2-Trichloroethane	10.559	97	30477	1.3592953	ppbv		99
68) Tetrachloroethene	10.673	166	43865	1.3488172	ppbv		98
69) Methyl Butyl Ketone	10.718	43	67518	1.3362738	ppbv		100
70) Chlorodibromomethane	11.007	129	47056	1.4004954	ppbv		99
71) 1,2-Dibromoethane	11.200	107	45744	1.4132930	ppbv		100
72) Chlorobenzene	11.676	112	74317	1.3440031	ppbv		91
73) NONANE	11.620	43	80881	1.2770951	ppbv		100
75) Ethylbenzene	11.705	91	132730	1.3713019	ppbv		98
76) M&P-Xylene	11.824	91	200712	2.6883077	ppbv		100
77) O-Xylene	12.300	91	102290	1.3220344	ppbv		100
80) Styrene	12.317	104	74860	1.3989251	ppbv		100
81) Bromoform	12.623	173	44401	1.4423197	ppbv		99
82) Isopropylbenzene	12.657	105	137632	1.3502699	ppbv		100
83) n-DECANE	13.043	43	76110	1.3256911	ppbv		100
84) 1,1,2,2-Tetrachloroethane	13.003	83	67920	1.3465521	ppbv		99
85) n-Propylbenzene	13.054	91	161319	1.3751591	ppbv		100
86) 4-Ethyltoluene	13.150	105	130692	1.3687034	ppbv		99
87) 2-Chlorotoluene	13.213	91	105384	1.3574662	ppbv		100
89) 1,3,5-Trimethylbenzene	13.201	105	107769	1.3369658	ppbv		99
90) tert-Butylbenzene	13.502	119	102013	1.3167650	ppbv		99
91) 1,2,4-Trimethylbenzene	13.553	105	107798	1.2962694	ppbv		99
92) sec-Butylbenzene	13.689	105	158631	1.3142838	ppbv		99
93) 1,3-Dichlorobenzene	13.882	146	69957	1.3579883	ppbv		98
94) P-ISOPROPYLTOLUENE	13.797	119	133002	1.3569801	ppbv		99
95) 1,4-Dichlorobenzene	13.961	146	70736	1.3727495	ppbv		100
96) 1,2,3-TRIMETHYLBENZENE	13.944	105	110809	1.3239709	ppbv		99

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_14.D
Acq On : 26 Apr 2024 8:43 pm
Operator :
Sample : STD AMS 1.25 ppbv 24D12755
Misc : 24D22236
ALS Vial : 14 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:30:50 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:30:29 2024
Response via : Initial Calibration

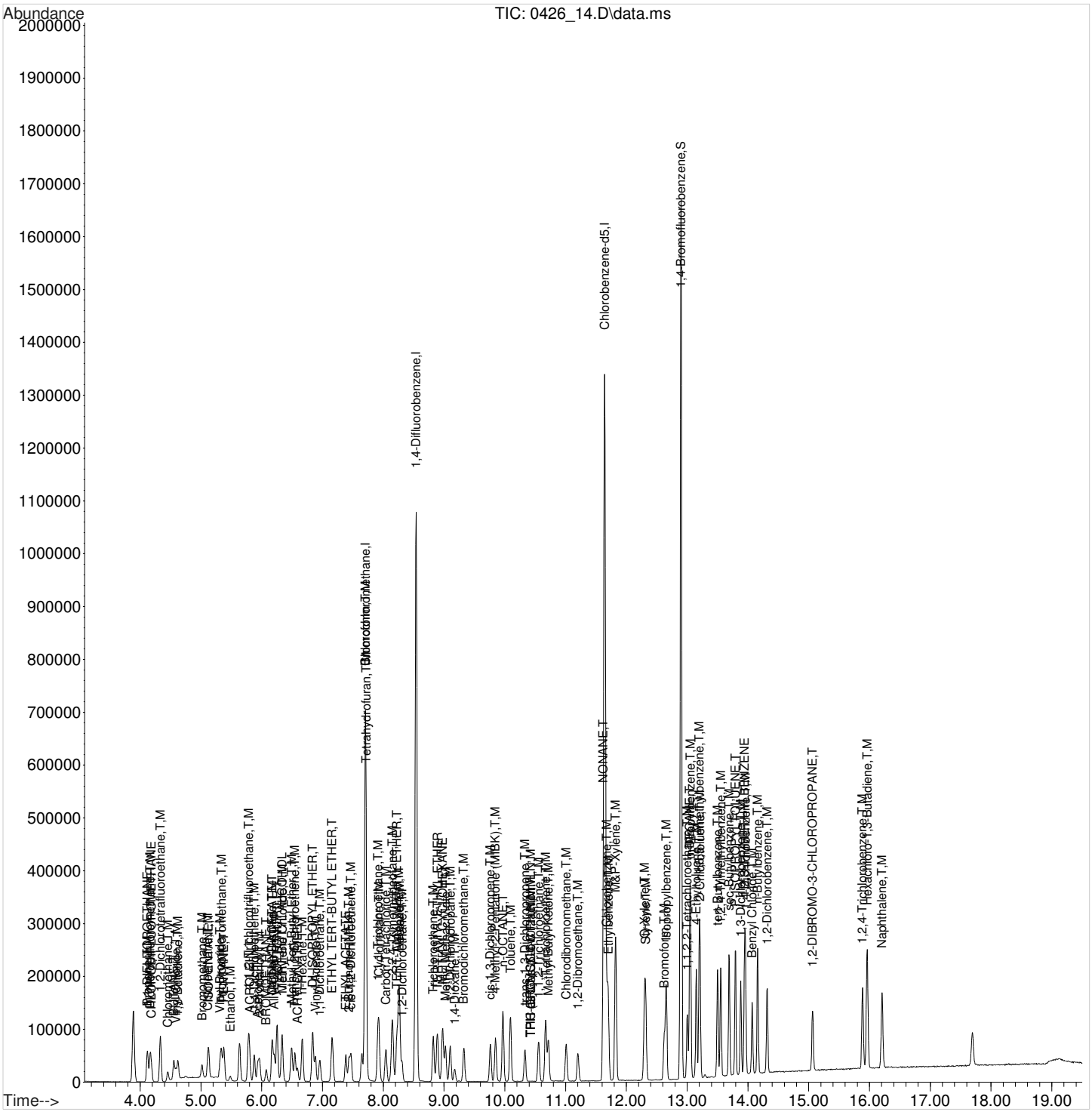
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	14.069	91	95501	1.4190952	ppbv	99
98) n-Butylbenzene	14.160	91	131182	1.3531293	ppbv	100
99) 1,2-Dichlorobenzene	14.318	146	68797	1.3291274	ppbv	100
100) 1,2-DIBROMO-3-CHLOROPR...	15.061	157	36011	1.3509342	ppbv	97
101) 1,2,4-Trichlorobenzene	15.883	180	59706	1.3663945	ppbv	98
102) Hexachloro-1,3-Butadiene	15.963	225	59471	1.3289123	ppbv	98
103) Naphthalene	16.206	128	140332	1.3137057	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_14.D
Acq On : 26 Apr 2024 8:43 pm
Operator :
Sample : STD AMS 1.25 ppbv 24D12755
Misc : 24D22236
ALS Vial : 14 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:30:50 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:30:29 2024
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\042624\
Data File : 0426_15.D
Acq On : 26 Apr 2024 9:21 pm
Operator :
Sample : STD AMS 2.5 ppbv 24D12755
Misc : 24D22236
ALS Vial : 15 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:31:13 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:30:56 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.708	130	231586	4.0000000	ppbv		0.00
50) 1,4-Difluorobenzene	8.541	114	985654	4.0000000	ppbv		0.00
74) Chlorobenzene-d5	11.643	117	883156	4.0000000	ppbv		0.00
System Monitoring Compounds							
88) 1,4-Bromofluorobenzene	12.901	95	629431	4.0447179	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 101.12%				
Target Compounds						Qvalue	
2) TPH (GC/MS) Low Fraction	10.430	TIC	18925333m	105.7526029	ppbv		
3) TPH-GRO (C5-C10)	10.430	TIC	22637231m	151.6858880	ppbv		
4) THC as Gas (C4-C12)	10.430	TIC	40443062m	118.0492482	ppbv		
5) Propene	4.119	41	42082	2.2554075	ppbv		100
6) BUTANE	4.555	43	66236	2.2816994	ppbv		99
7) 1,1-DIFLUOROETHANE	4.125	65	27844	2.5895170	ppbv		99
8) Dichlorodifluoromethane	4.164	85	104972	2.5976122	ppbv		100
9) CHLORODIFLUOROMETHANE	4.187	67	10814	2.4510693	ppbv		95
10) 1,2-Dichlorotetrafluor...	4.334	85	112589	2.6338723	ppbv		99
11) Chloromethane	4.459	50	42256	2.5454452	ppbv		99
12) Vinyl Chloride	4.595	62	41397	2.6657985	ppbv		99
13) 1,3-Butadiene	4.623	39	33008	2.3108173	ppbv		99
14) Bromomethane	5.020	94	35038	2.4095858	ppbv		98
15) Chloroethane	5.111	64	21206	2.2053643	ppbv		98
16) ISOPENTANE	5.128	43	49034	2.4379608	ppbv		99
17) Vinyl Bromide	5.315	106	38457	2.5520286	ppbv		99
18) Trichlorofluoromethane	5.338	101	99116	2.6050233	ppbv		98
19) PENTANE	5.383	43	92495	2.5439978	ppbv		99
20) Ethanol	5.485	45	20780	2.0771108	ppbv		97
21) ACROLEIN	5.808	56	21950	2.2852644	ppbv		100
22) 1,1,2-Trichlorotrifluo...	5.786	101	88698	2.6179513	ppbv		99
23) 1,1-Dichloroethene	5.876	61	74835	2.6238903	ppbv		98
24) Acetone	5.933	58	25850	2.3341840	ppbv		99
25) BROMOETHANE	6.075	108	37175	2.6454484	ppbv		99
26) 2-Propanol	5.961	45	107406	2.5419532	ppbv		98
27) Carbon Disulfide	6.177	76	155390	2.6461313	ppbv		100
28) Allyl Chloride	6.205	41	72038	2.5898794	ppbv		98
29) METHYL ACETATE	6.171	43	104429	2.5707506	ppbv	#	100
30) ACETONITRILE	6.251	41	245141	13.2087474	ppbv		97
31) Methylene Chloride	6.341	49	58283	2.5173514	ppbv		100
32) TERT-BUTYL ALCOHOL	6.324	59	117894	2.6476186	ppbv		99
33) Methyl Tert-Butyl Ether	6.489	73	140771	2.5654417	ppbv		100
34) Trans-1,2-Dichloroethene	6.545	61	71074	2.6578682	ppbv		99
35) ACRYLONITRILE	6.591	53	42631	2.6056194	ppbv		100
36) n-Hexane	6.670	57	84354	2.5292826	ppbv		98
37) 1,1-Dichloroethane	6.959	63	89963	2.6261589	ppbv		99
38) Vinyl Acetate	6.886	43	150444	2.2829424	ppbv		100
39) DI-ISOPROPYL ETHER	6.835	45	190743	2.6412099	ppbv		99
40) ETHYL TERT-BUTYL ETHER	7.158	59	169377	2.6335351	ppbv		100
41) ETHYL ACETATE	7.385	70	13318	2.4854199	ppbv		100

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_15.D
Acq On : 26 Apr 2024 9:21 pm
Operator :
Sample : STD AMS 2.5 ppbv 24D12755
Misc : 24D22236
ALS Vial : 15 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:31:13 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:30:56 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Butanone (MEK)	7.436	72	26279	2.5466061	ppbv		100
43) cis-1,2-Dichloroethene	7.470	61	68221	2.6439019	ppbv		100
44) Tetrahydrofuran	7.719	42	66380	2.4475466	ppbv		98
45) Chloroform	7.708	83	98546	2.5592909	ppbv		100
46) Cyclohexane	7.929	84	66678	2.5557345	ppbv		99
47) 1,1,1-Trichloroethane	7.912	97	89904	2.6227015	ppbv		99
48) Carbon Tetrachloride	8.042	117	89718	2.6339194	ppbv		99
49) 2,2,4-Trimethylpentane	8.150	57	278758	2.6363163	ppbv		100
51) Benzene	8.258	78	164615	2.5478471	ppbv		100
52) TERT-AMYL METHYL ETHER	8.224	73	156070	2.5743773	ppbv		97
53) 1,2-Dichloroethane	8.309	62	66333	2.6363598	ppbv		99
54) Heptane	8.269	57	56775	2.4499192	ppbv	#	81
55) Trichloroethene	8.825	95	67741	2.6022248	ppbv		100
56) TERT-AMYL ETHYL ETHER	8.887	73	49356	2.4395654	ppbv		99
57) METHYL CYCLOHEXANE	8.978	83	95243	2.6047719	ppbv		100
58) 1,2-Dichloropropane	9.102	63	63932	2.5595447	ppbv		98
59) Methyl Methacrylate	9.023	69	58569	2.4831589	ppbv		99
60) 1,4-Dioxane	9.171	88	37661	2.4698807	ppbv		99
61) Bromodichloromethane	9.329	83	99239	2.6500924	ppbv		99
62) cis-1,3-Dichloropropene	9.766	75	98341	2.6982610	ppbv		99
63) 4-Methyl-2-Pentanone (...	9.845	43	144674	2.6117986	ppbv		99
64) n-OCTANE	9.970	43	154080	2.5313671	ppbv		100
65) Toluene	10.095	91	206151	2.5304085	ppbv		99
66) trans-1,3-Dichloropropene	10.333	75	77786	2.7393665	ppbv		98
67) 1,1,2-Trichloroethane	10.554	97	60296	2.6200939	ppbv		99
68) Tetrachloroethene	10.673	166	86883	2.6082433	ppbv		99
69) Methyl Butyl Ketone	10.718	43	136189	2.6379463	ppbv		100
70) Chlorodibromomethane	11.013	129	96135	2.7653299	ppbv		100
71) 1,2-Dibromoethane	11.206	107	91636	2.7295130	ppbv		98
72) Chlorobenzene	11.677	112	150761	2.6643400	ppbv		98
73) NONANE	11.620	43	161360	2.5229188	ppbv		100
75) Ethylbenzene	11.699	91	263375	2.6127542	ppbv		99
76) M&P-Xylene	11.824	91	405513	5.2429868	ppbv		99
77) O-Xylene	12.300	91	206291	2.5849257	ppbv		100
80) Styrene	12.317	104	152241	2.7170654	ppbv		99
81) Bromoform	12.623	173	92023	2.8310280	ppbv		100
82) Isopropylbenzene	12.657	105	275485	2.6058318	ppbv		100
83) n-DECANE	13.043	43	152116	2.5669696	ppbv		99
84) 1,1,2,2-Tetrachloroethane	13.003	83	135232	2.5868360	ppbv		99
85) n-Propylbenzene	13.054	91	322343	2.6364451	ppbv		99
86) 4-Ethyltoluene	13.151	105	258384	2.5995992	ppbv		100
87) 2-Chlorotoluene	13.213	91	211214	2.6194611	ppbv		100
89) 1,3,5-Trimethylbenzene	13.202	105	217028	2.6026981	ppbv		100
90) tert-Butylbenzene	13.502	119	203276	2.5465283	ppbv		100
91) 1,2,4-Trimethylbenzene	13.553	105	216453	2.5364024	ppbv		99
92) sec-Butylbenzene	13.689	105	316526	2.5464365	ppbv		100
93) 1,3-Dichlorobenzene	13.882	146	140685	2.6290761	ppbv		100
94) P-ISOPROPYLTOLUENE	13.791	119	267137	2.6243732	ppbv		100
95) 1,4-Dichlorobenzene	13.961	146	140845	2.6237926	ppbv		100
96) 1,2,3-TRIMETHYLBENZENE	13.944	105	220034	2.5479191	ppbv		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_15.D
Acq On : 26 Apr 2024 9:21 pm
Operator :
Sample : STD AMS 2.5 ppbv 24D12755
Misc : 24D22236
ALS Vial : 15 Sample Multiplier: 1
InstName : AIRMS16

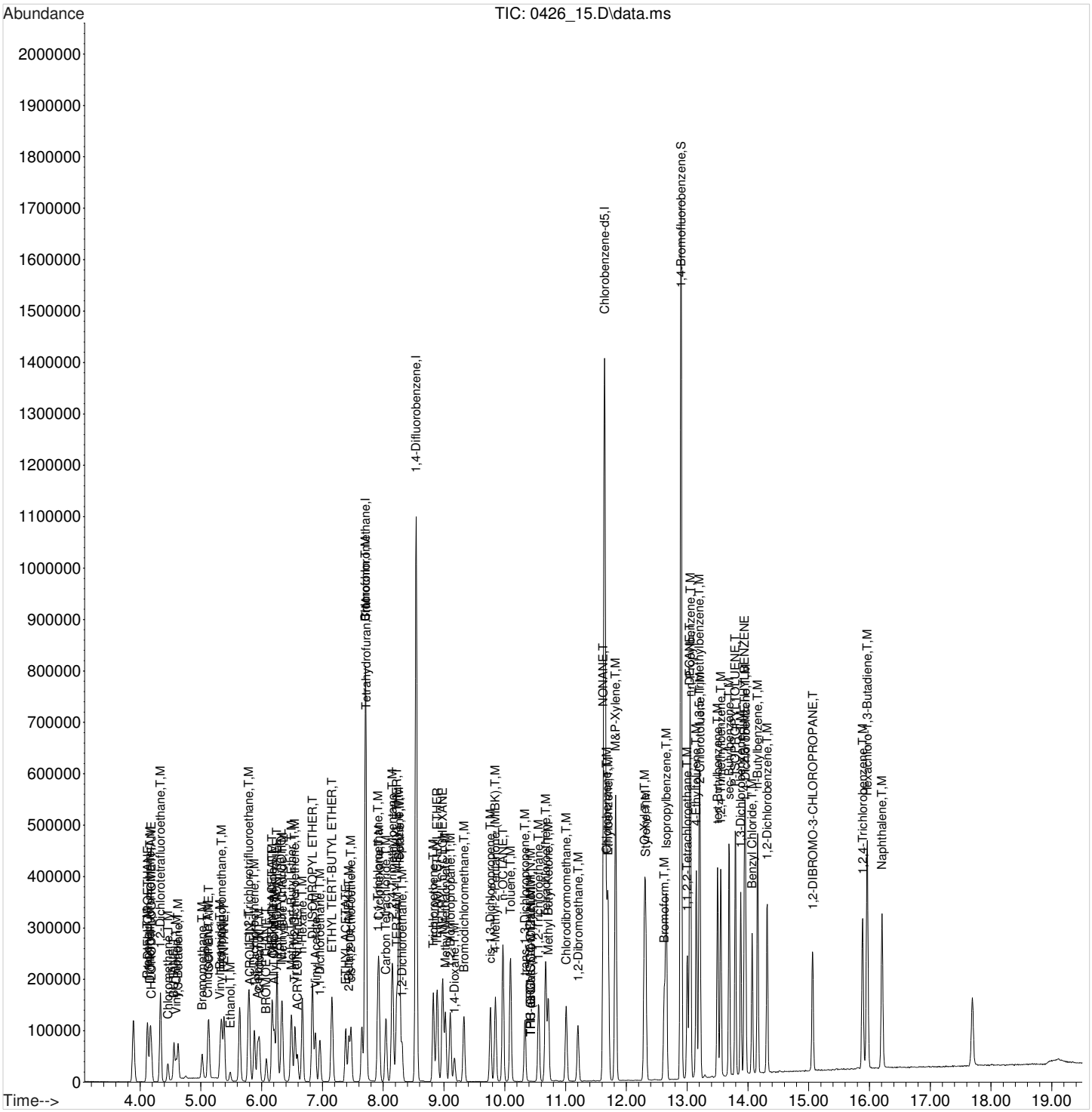
Quant Time: Apr 27 07:31:13 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:30:56 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	14.069	91	191339	2.7047865	ppbv	99
98) n-Butylbenzene	14.160	91	264666	2.6306741	ppbv	99
99) 1,2-Dichlorobenzene	14.319	146	139118	2.6021464	ppbv	99
100) 1,2-DIBROMO-3-CHLOROPR...	15.067	157	73535	2.6594008	ppbv	98
101) 1,2,4-Trichlorobenzene	15.889	180	117945	2.5942633	ppbv	100
102) Hexachloro-1,3-Butadiene	15.963	225	118940	2.5732899	ppbv	99
103) Naphthalene	16.207	128	288779	2.6253000	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_15.D
Acq On : 26 Apr 2024 9:21 pm
Operator :
Sample : STD AMS 2.5 ppbv 24D12755
Misc : 24D22236
ALS Vial : 15 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:31:13 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:30:56 2024
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\042624\
Data File : 0426_16.D
Acq On : 26 Apr 2024 10:01 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 24D12755
Misc : 24D22236
ALS Vial : 16 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:31:43 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:31:23 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.708	130	231561	4.0000000	ppbv		0.00
50) 1,4-Difluorobenzene	8.541	114	988003	4.0000000	ppbv		0.00
74) Chlorobenzene-d5	11.642	117	884650	4.0000000	ppbv		0.00
System Monitoring Compounds							
88) 1,4-Bromofluorobenzene	12.901	95	626014	4.0070074	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.18%				
Target Compounds						Qvalue	
2) TPH (GC/MS) Low Fraction	10.430	TIC	28192972m	160.7708276	ppbv		
3) TPH-GRO (C5-C10)	10.430	TIC	34289034m	235.4686392	ppbv		
4) THC as Gas (C4-C12)	10.430	TIC	57878968m	187.8577874	ppbv		
5) Propene	4.119	41	63535	3.4735282	ppbv		100
6) BUTANE	4.561	43	103171	3.6175989	ppbv		100
7) 1,1-DIFLUOROETHANE	4.124	65	42557	3.9301214	ppbv		100
8) Dichlorodifluoromethane	4.170	85	161545	3.9670075	ppbv		100
9) CHLORODIFLUOROMETHANE	4.187	67	16123	3.6691488	ppbv		100
10) 1,2-Dichlorotetrafluor...	4.334	85	173983	4.0274112	ppbv		100
11) Chloromethane	4.459	50	64979	3.9004904	ppbv		100
12) Vinyl Chloride	4.595	62	63900	4.0614736	ppbv		100
13) 1,3-Butadiene	4.629	39	50574	3.5953711	ppbv		100
14) Bromomethane	5.020	94	53346	3.6957668	ppbv		100
15) Chloroethane	5.116	64	30674	3.2673688	ppbv		100
16) ISOPENTANE	5.128	43	71851	3.5906240	ppbv		100
17) Vinyl Bromide	5.315	106	58165	3.8442785	ppbv		100
18) Trichlorofluoromethane	5.343	101	153284	3.9955624	ppbv		100
19) PENTANE	5.383	43	140770	3.8585978	ppbv		100
20) Ethanol	5.479	45	30997	3.2072117	ppbv		100
21) ACROLEIN	5.808	56	33186	3.5158411	ppbv		100
22) 1,1,2-Trichlorotrifluo...	5.791	101	136755	3.9990700	ppbv		100
23) 1,1-Dichloroethene	5.882	61	114999	3.9929940	ppbv		100
24) Acetone	5.933	58	38437	3.5177948	ppbv		100
25) BROMOETHANE	6.075	108	55948	3.9360041	ppbv		100
26) 2-Propanol	5.961	45	163787	3.8637602	ppbv		100
27) Carbon Disulfide	6.177	76	235568	3.9655537	ppbv		100
28) Allyl Chloride	6.211	41	107982	3.8548244	ppbv		100
29) METHYL ACETATE	6.171	43	154305	3.7775873	ppbv	#	100
30) ACETONITRILE	6.250	41	375006	19.9817544	ppbv		100
31) Methylene Chloride	6.341	49	88791	3.8301461	ppbv		100
32) TERT-BUTYL ALCOHOL	6.324	59	180025	3.9961766	ppbv		100
33) Methyl Tert-Butyl Ether	6.489	73	213906	3.8783863	ppbv		100
34) Trans-1,2-Dichloroethene	6.545	61	109885	4.0584240	ppbv		100
35) ACRYLONITRILE	6.585	53	64399	3.9035280	ppbv		100
36) n-Hexane	6.670	57	131094	3.9219783	ppbv		100
37) 1,1-Dichloroethane	6.959	63	136198	3.9365289	ppbv		100
38) Vinyl Acetate	6.885	43	230980	3.5673765	ppbv		100
39) DI-ISOPROPYL ETHER	6.834	45	289064	3.9583717	ppbv		100
40) ETHYL TERT-BUTYL ETHER	7.158	59	257157	3.9565352	ppbv		100
41) ETHYL ACETATE	7.384	70	20151	3.7654000	ppbv		100

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_16.D
Acq On : 26 Apr 2024 10:01 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 24D12755
Misc : 24D22236
ALS Vial : 16 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:31:43 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:31:23 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone (MEK)	7.435	72	40057	3.8677821	ppbv	100
43) cis-1,2-Dichloroethene	7.469	61	104563	4.0066469	ppbv	100
44) Tetrahydrofuran	7.713	42	101407	3.7552149	ppbv	100
45) Chloroform	7.708	83	151371	3.9130474	ppbv	100
46) Cyclohexane	7.929	84	101089	3.8579078	ppbv	100
47) 1,1,1-Trichloroethane	7.912	97	137497	3.9725343	ppbv	100
48) Carbon Tetrachloride	8.048	117	138169	4.0137684	ppbv	100
49) 2,2,4-Trimethylpentane	8.150	57	421497	3.9436746	ppbv	100
51) Benzene	8.257	78	248489	3.8222417	ppbv	100
52) TERT-AMYL METHYL ETHER	8.223	73	236726	3.8724737	ppbv	100
53) 1,2-Dichloroethane	8.309	62	100606	3.9459645	ppbv	100
54) Heptane	8.269	57	86754	3.7496768	ppbv	100
55) Trichloroethene	8.824	95	103681	3.9411358	ppbv	100
56) TERT-AMYL ETHYL ETHER	8.887	73	74491	3.6910281	ppbv	100
57) METHYL CYCLOHEXANE	8.978	83	144841	3.9189471	ppbv	100
58) 1,2-Dichloropropane	9.102	63	97970	3.8943939	ppbv	100
59) Methyl Methacrylate	9.023	69	88976	3.7684375	ppbv	100
60) 1,4-Dioxane	9.170	88	56054	3.6762469	ppbv	100
61) Bromodichloromethane	9.329	83	152044	4.0024920	ppbv	100
62) cis-1,3-Dichloropropene	9.766	75	150478	4.0546590	ppbv	100
63) 4-Methyl-2-Pentanone (...	9.845	43	216911	3.8719521	ppbv	100
64) n-OCTANE	9.970	43	232612	3.8029338	ppbv	100
65) Toluene	10.094	91	311026	3.7993814	ppbv	100
66) trans-1,3-Dichloropropene	10.333	75	119270	4.1115761	ppbv	100
67) 1,1,2-Trichloroethane	10.554	97	91118	3.9124265	ppbv	100
68) Tetrachloroethene	10.673	166	131781	3.9128008	ppbv	100
69) Methyl Butyl Ketone	10.712	43	205954	3.9363516	ppbv	100
70) Chlorodibromomethane	11.007	129	147246	4.1376440	ppbv	100
71) 1,2-Dibromoethane	11.206	107	141307	4.1233213	ppbv	100
72) Chlorobenzene	11.676	112	227868	3.9653147	ppbv	100
73) NONANE	11.620	43	244559	3.8076911	ppbv	100
75) Ethylbenzene	11.699	91	394488	3.8718972	ppbv	100
76) M&P-Xylene	11.824	91	612500	7.8297030	ppbv	100
77) O-Xylene	12.300	91	311974	3.8762474	ppbv	100
80) Styrene	12.317	104	230375	4.0345292	ppbv	100
81) Bromoform	12.623	173	143973	4.3076790	ppbv	100
82) Isopropylbenzene	12.657	105	417955	3.9136537	ppbv	100
83) n-DECANE	13.043	43	231578	3.8805075	ppbv	100
84) 1,1,2,2-Tetrachloroethane	13.003	83	206612	3.9183601	ppbv	100
85) n-Propylbenzene	13.054	91	489551	3.9541166	ppbv	100
86) 4-Ethyltoluene	13.150	105	396698	3.9529381	ppbv	100
87) 2-Chlorotoluene	13.213	91	320644	3.9323079	ppbv	100
89) 1,3,5-Trimethylbenzene	13.201	105	327750	3.8919132	ppbv	100
90) tert-Butylbenzene	13.502	119	311310	3.8788936	ppbv	100
91) 1,2,4-Trimethylbenzene	13.553	105	335178	3.9096068	ppbv	100
92) sec-Butylbenzene	13.689	105	485754	3.8868288	ppbv	100
93) 1,3-Dichlorobenzene	13.882	146	215701	3.9830145	ppbv	100
94) P-ISOPROPYLTOLUENE	13.791	119	405923	3.9418613	ppbv	100
95) 1,4-Dichlorobenzene	13.961	146	215546	3.9693020	ppbv	100
96) 1,2,3-TRIMETHYLBENZENE	13.944	105	335645	3.8652738	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_16.D
Acq On : 26 Apr 2024 10:01 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 24D12755
Misc : 24D22236
ALS Vial : 16 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:31:43 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:31:23 2024
Response via : Initial Calibration

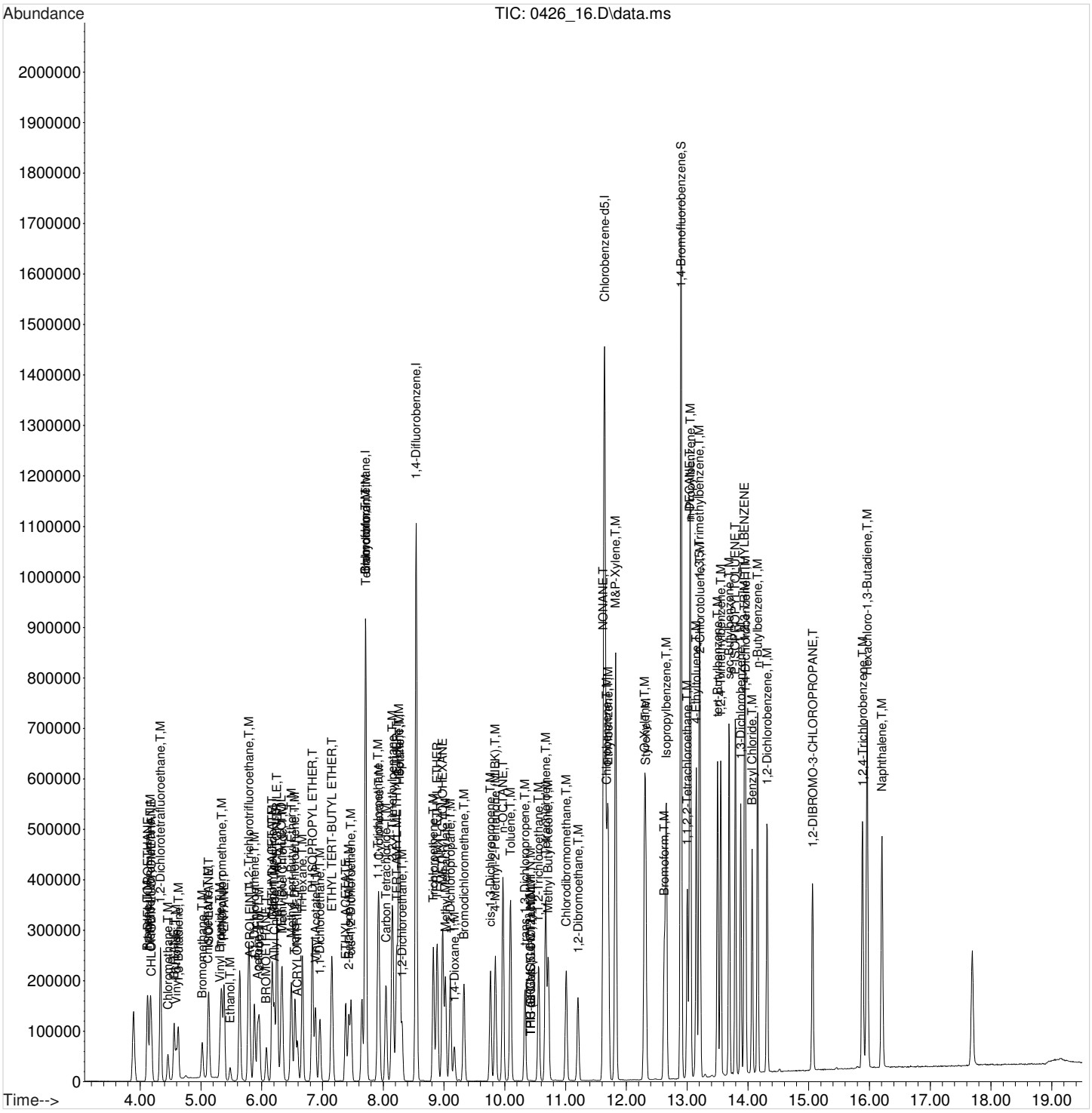
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	14.069	91	306389	4.2541348	ppbv	100
98) n-Butylbenzene	14.160	91	404228	3.9695814	ppbv	100
99) 1,2-Dichlorobenzene	14.318	146	210674	3.9020316	ppbv	100
100) 1,2-DIBROMO-3-CHLOROPR...	15.067	157	113759	4.0554427	ppbv	100
101) 1,2,4-Trichlorobenzene	15.889	180	196682	4.2864950	ppbv	100
102) Hexachloro-1,3-Butadiene	15.963	225	183441	3.9389840	ppbv	100
103) Naphthalene	16.206	128	456238	4.0995768	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_16.D
Acq On : 26 Apr 2024 10:01 pm
Operator :
Sample : MSTD AMS 3.75 ppbv 24D12755
Misc : 24D22236
ALS Vial : 16 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:31:43 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:31:23 2024
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\042624\
Data File : 0426_17.D
Acq On : 26 Apr 2024 10:37 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 17 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:54:21 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:31:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.708	130	237198	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	8.541	114	1010906	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	11.642	117	905136	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	12.901	95	644701	4.0320443	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.80%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	72937031m	412.0717493	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	90637147m	616.8796910	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	144242850m	496.1280108	ppbv	
5) Propene	4.113	41	167984	9.0771521	ppbv	99
6) BUTANE	4.555	43	272994	9.4001204	ppbv	100
7) 1,1-DIFLUOROETHANE	4.119	65	112839	10.0921972	ppbv	97
8) Dichlorodifluoromethane	4.164	85	431625	10.2485373	ppbv	100
9) CHLORODIFLUOROMETHANE	4.181	67	42805	9.5440293	ppbv	99
10) 1,2-Dichlorotetrafluor...	4.328	85	461207	10.2955038	ppbv	99
11) Chloromethane	4.453	50	173961	10.1264539	ppbv	100
12) Vinyl Chloride	4.589	62	171212	10.4785344	ppbv	99
13) 1,3-Butadiene	4.623	39	136941	9.5697204	ppbv	100
14) Bromomethane	5.020	94	144093	9.7689536	ppbv	100
15) Chloroethane	5.111	64	81772	8.6896814	ppbv	100
16) ISOPENTANE	5.128	43	195966	9.6285181	ppbv	99
17) Vinyl Bromide	5.315	106	158707	10.1973570	ppbv	99
18) Trichlorofluoromethane	5.338	101	411725	10.3640276	ppbv	99
19) PENTANE	5.377	43	380865	10.1427039	ppbv	99
20) Ethanol	5.474	45	84218	8.7171118	ppbv	100
21) ACROLEIN	5.808	56	91205	9.5321481	ppbv	97
22) 1,1,2-Trichlorotrifluo...	5.786	101	366620	10.3515458	ppbv	99
23) 1,1-Dichloroethene	5.876	61	309460	10.3776349	ppbv	99
24) Acetone	5.927	58	100583	9.0804067	ppbv	98
25) BROMOETHANE	6.075	108	152696	10.4010586	ppbv	99
26) 2-Propanol	5.950	45	421158	9.6502801	ppbv	100
27) Carbon Disulfide	6.177	76	641468	10.4418180	ppbv	99
28) Allyl Chloride	6.205	41	311232m	10.7962578	ppbv	
29) METHYL ACETATE	6.165	43	417304	9.9611456	ppbv #	100
30) ACETONITRILE	6.251	41	981335m	50.4937780	ppbv	
31) Methylene Chloride	6.341	49	237847	9.9805445	ppbv	99
32) TERT-BUTYL ALCOHOL	6.307	59	477919	10.2445917	ppbv	93
33) Methyl Tert-Butyl Ether	6.477	73	570536	10.0414049	ppbv	99
34) Trans-1,2-Dichloroethene	6.545	61	290134	10.3195146	ppbv	99
35) ACRYLONITRILE	6.585	53	173586	10.2022023	ppbv	99
36) n-Hexane	6.670	57	345284	10.0079776	ppbv	100
37) 1,1-Dichloroethane	6.954	63	365619	10.2315241	ppbv	99
38) Vinyl Acetate	6.880	43	625298	9.5050713	ppbv	99
39) DI-ISOPROPYL ETHER	6.829	45	762442	10.0990447	ppbv	99
40) ETHYL TERT-BUTYL ETHER	7.146	59	689616	10.2638442	ppbv	100
41) ETHYL ACETATE	7.379	70	53803	9.8079501	ppbv	100

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_17.D
Acq On : 26 Apr 2024 10:37 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 17 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:54:21 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:31:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 2-Butanone (MEK)	7.430	72	107467	10.0773327 ppbv	97
43) cis-1,2-Dichloroethene	7.470	61	280102	10.3597169 ppbv	99
44) Tetrahydrofuran	7.708	42	265560	9.5980557 ppbv	99
45) Chloroform	7.708	83	401724	10.0651167 ppbv	100
46) Cyclohexane	7.929	84	274613	10.1822927 ppbv	99
47) 1,1,1-Trichloroethane	7.912	97	371975	10.3888704 ppbv	100
48) Carbon Tetrachloride	8.042	117	375413	10.5231015 ppbv	99
49) 2,2,4-Trimethylpentane	8.150	57	1142955	10.3506544 ppbv	100
51) Benzene	8.258	78	671141	10.0572689 ppbv	100
52) TERT-AMYL METHYL ETHER	8.212	73	638699	10.1561399 ppbv	99
53) 1,2-Dichloroethane	8.309	62	272563	10.3580394 ppbv	100
54) Heptane	8.269	57	226695	9.5763496 ppbv	99
55) Trichloroethene	8.825	95	280374	10.3284163 ppbv	100
56) TERT-AMYL ETHYL ETHER	8.881	73	202461	9.8304224 ppbv	99
57) METHYL CYCLOHEXANE	8.978	83	393046	10.3162041 ppbv	99
58) 1,2-Dichloropropane	9.102	63	264045	10.1928122 ppbv	97
59) Methyl Methacrylate	9.023	69	254796	10.5383544 ppbv	98
60) 1,4-Dioxane	9.159	88	149833	9.6356041 ppbv	98
61) Bromodichloromethane	9.329	83	414470	10.5452122 ppbv	100
62) cis-1,3-Dichloropropene	9.760	75	410379	10.6628396 ppbv	99
63) 4-Methyl-2-Pentanone (...	9.839	43	587447	10.1933520 ppbv	100
64) n-OCTANE	9.970	43	626060	9.9799777 ppbv	100
65) Toluene	10.095	91	838227	9.9855783 ppbv	100
66) trans-1,3-Dichloropropene	10.333	75	325818	10.8037873 ppbv	100
67) 1,1,2-Trichloroethane	10.559	97	245857	10.2434956 ppbv	100
68) Tetrachloroethene	10.673	166	357490	10.2994793 ppbv	100
69) Methyl Butyl Ketone	10.713	43	561055	10.3942806 ppbv	99
70) Chlorodibromomethane	11.007	129	410855	11.0924406 ppbv	100
71) 1,2-Dibromoethane	11.206	107	382018	10.7168734 ppbv	99
72) Chlorobenzene	11.676	112	613705	10.3386832 ppbv	97
73) NONANE	11.620	43	655079	9.9427633 ppbv	100
75) Ethylbenzene	11.699	91	1063371	10.1457924 ppbv	100
76) M&P-Xylene	11.824	91	1651745	20.4865807 ppbv	99
77) O-Xylene	12.300	91	834406	10.0762315 ppbv	99
80) Styrene	12.317	104	631125	10.6677541 ppbv	100
81) Bromoform	12.623	173	411431	11.7404261 ppbv	100
82) Isopropylbenzene	12.657	105	1126307	10.2333985 ppbv	100
83) n-DECANE	13.043	43	629553	10.2510745 ppbv	99
84) 1,1,2,2-Tetrachloroethane	13.003	83	565565	10.4052230 ppbv	99
85) n-Propylbenzene	13.054	91	1328071	10.3898284 ppbv	100
86) 4-Ethyltoluene	13.151	105	1082167	10.4450947 ppbv	100
87) 2-Chlorotoluene	13.213	91	873296	10.3833809 ppbv	100
89) 1,3,5-Trimethylbenzene	13.202	105	903297	10.4178490 ppbv	100
90) tert-Butylbenzene	13.502	119	847516	10.2621779 ppbv	99
91) 1,2,4-Trimethylbenzene	13.553	105	914507	10.3521940 ppbv	99
92) sec-Butylbenzene	13.689	105	1321259	10.2704993 ppbv	100
93) 1,3-Dichlorobenzene	13.882	146	590795	10.5530908 ppbv	99
94) P-ISOPROPYLTOLUENE	13.797	119	1111126	10.4566128 ppbv	100
95) 1,4-Dichlorobenzene	13.961	146	594384	10.5946463 ppbv	100
96) 1,2,3-TRIMETHYLBENZENE	13.944	105	923680	10.3433194 ppbv	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_17.D
Acq On : 26 Apr 2024 10:37 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 17 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:54:21 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:31:51 2024
Response via : Initial Calibration

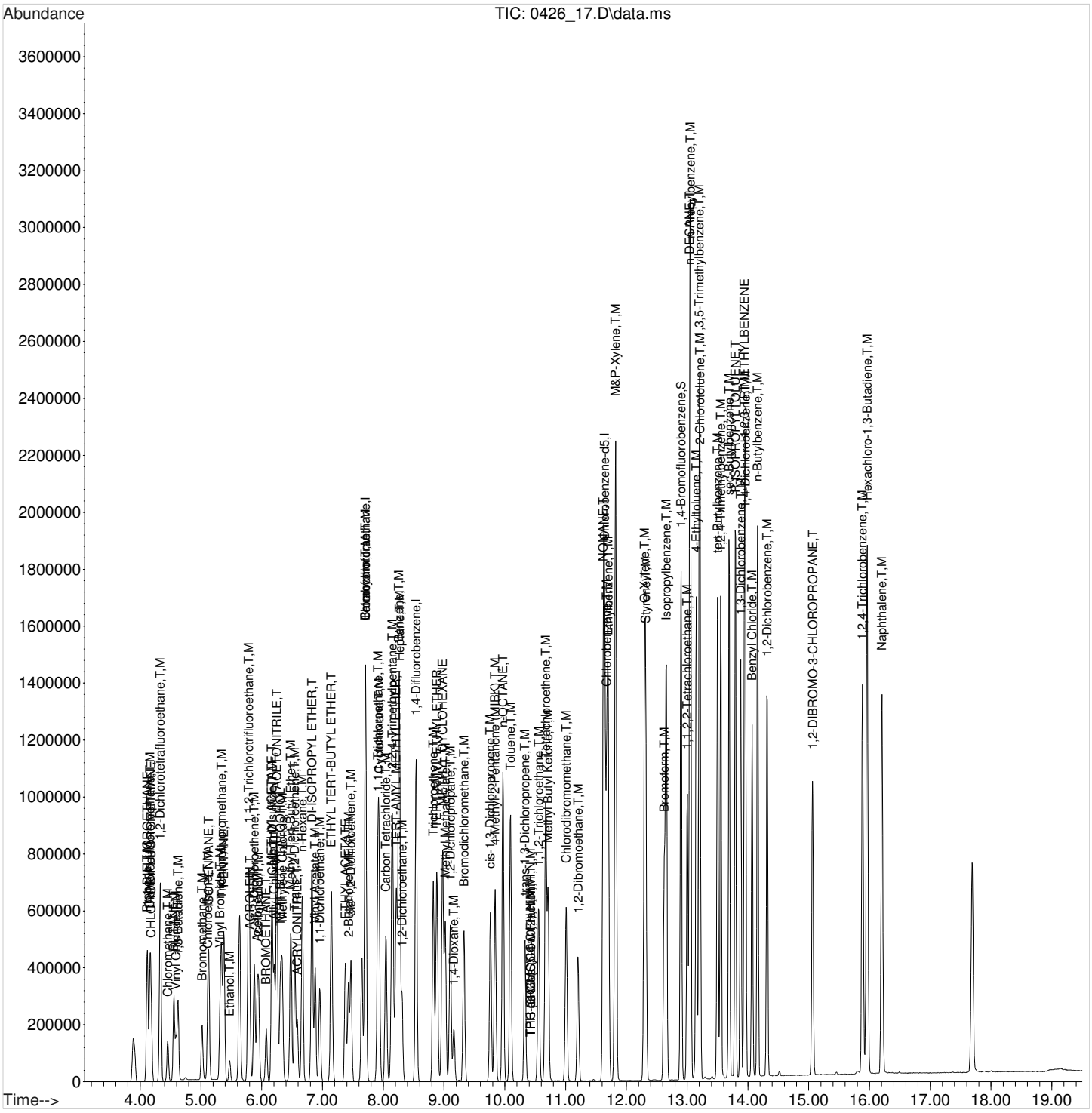
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	14.069	91	867274	11.5114136	ppbv	100
98) n-Butylbenzene	14.160	91	1102094	10.4755490	ppbv	100
99) 1,2-Dichlorobenzene	14.319	146	576726	10.3700864	ppbv	100
100) 1,2-DIBROMO-3-CHLOROPR...	15.067	157	325720	11.1969203	ppbv	99
101) 1,2,4-Trichlorobenzene	15.883	180	546600	11.3718492	ppbv	99
102) Hexachloro-1,3-Butadiene	15.963	225	499350	10.3924506	ppbv	100
103) Naphthalene	16.207	128	1314463	11.3673162	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_17.D
Acq On : 26 Apr 2024 10:37 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 17 Sample Multiplier: 1
InstName : AIRMS16

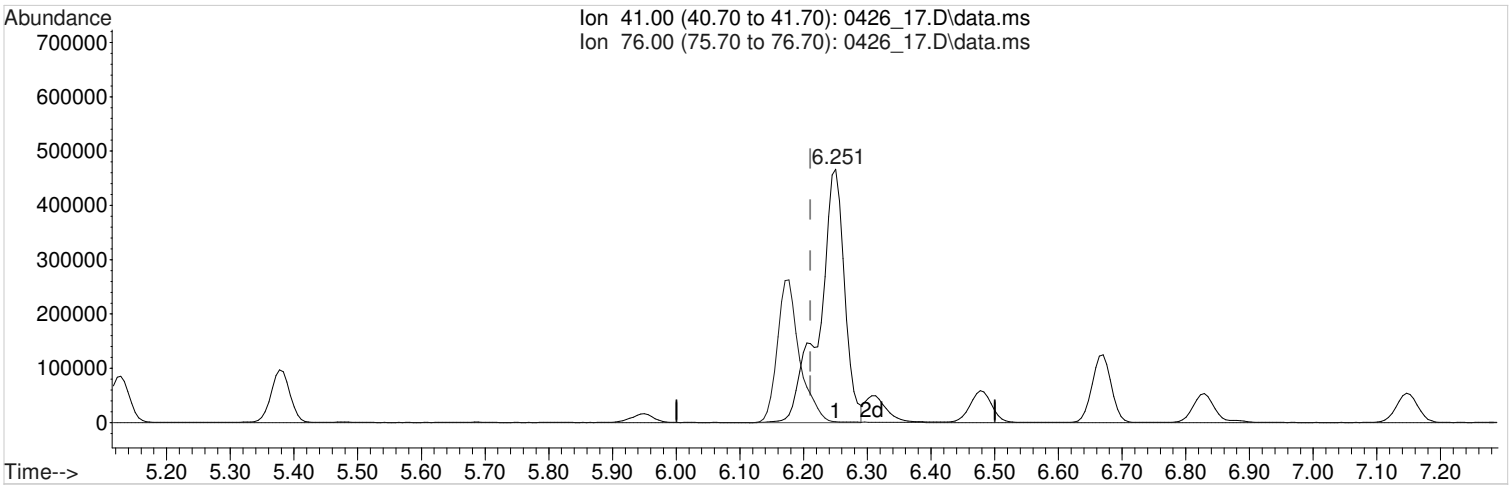
Quant Time: Apr 27 07:54:21 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:31:51 2024
Response via : Initial Calibration

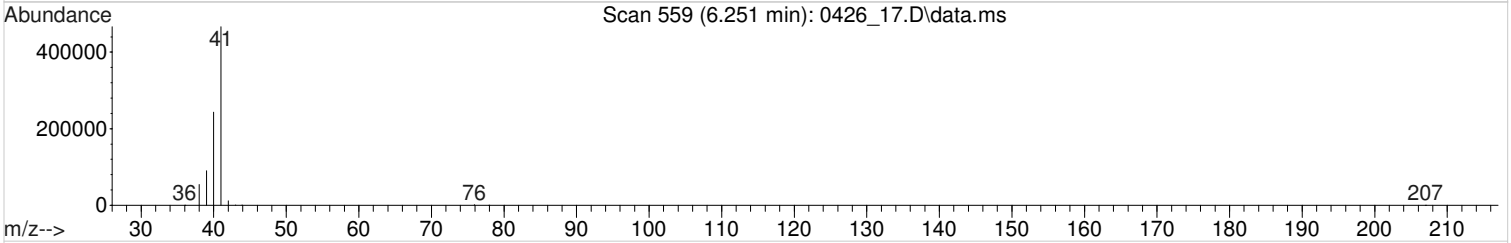


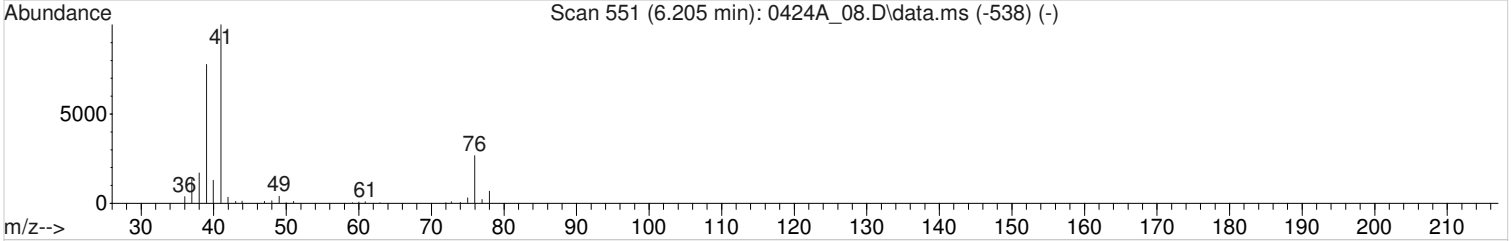
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_17.D
Acq On : 26 Apr 2024 10:37 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 17 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:32:11 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:31:51 2024
Response via : Initial Calibration







TIC: 0426_17.D\data.ms

(28) Allyl Chloride (T,M)

6.251min (+0.040) 44.7858489 ppbv

Qvalue = 1

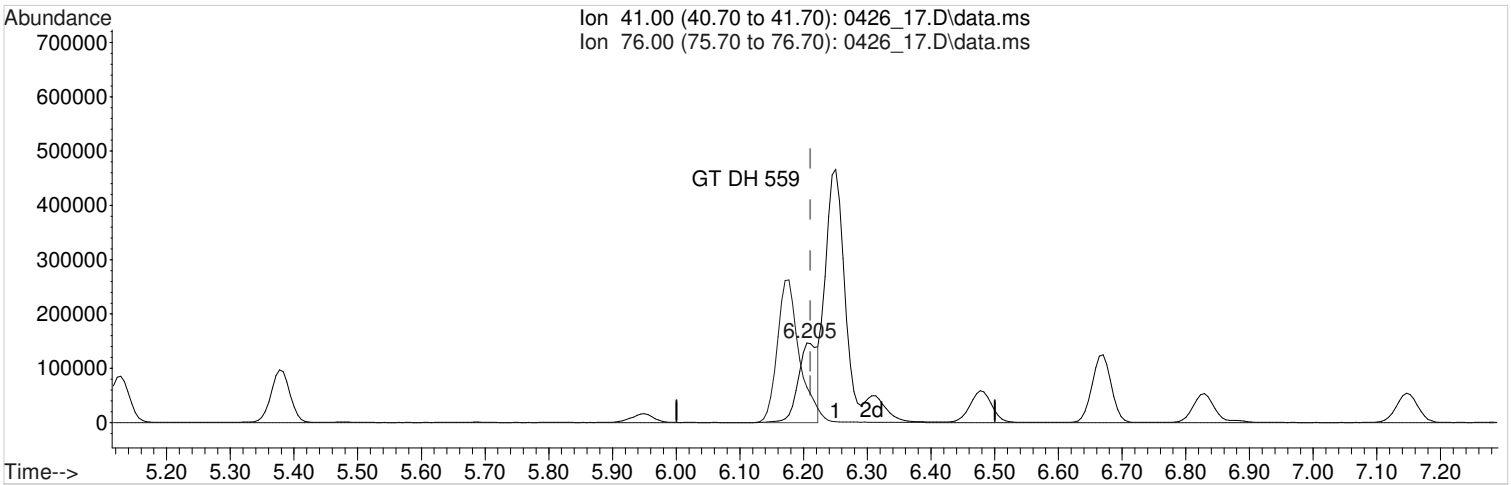
response 1291076

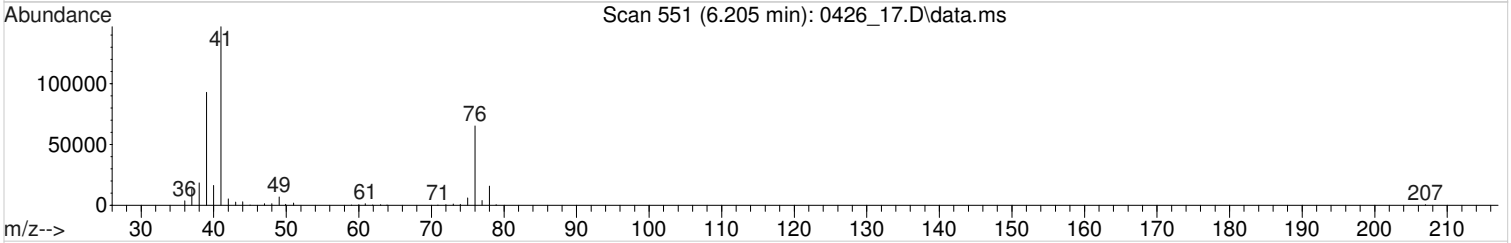
Ion	Exp%	Act%
41.00	100	100
76.00	218.20	49.68#
0.00	0.00	0.00
0.00	0.00	0.00

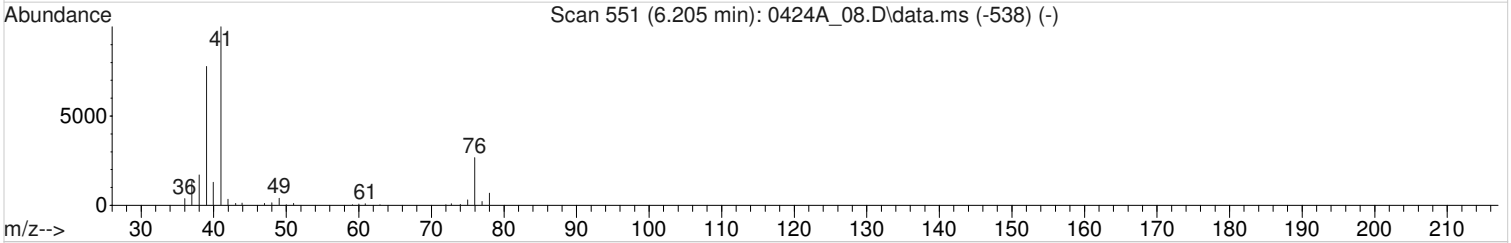
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_17.D
Acq On : 26 Apr 2024 10:37 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 17 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:32:11 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:31:51 2024
Response via : Initial Calibration







TIC: 0426_17.D\data.ms

(28) Allyl Chloride (T,M)

6.205min (-0.006) 10.7962578 ppbv m

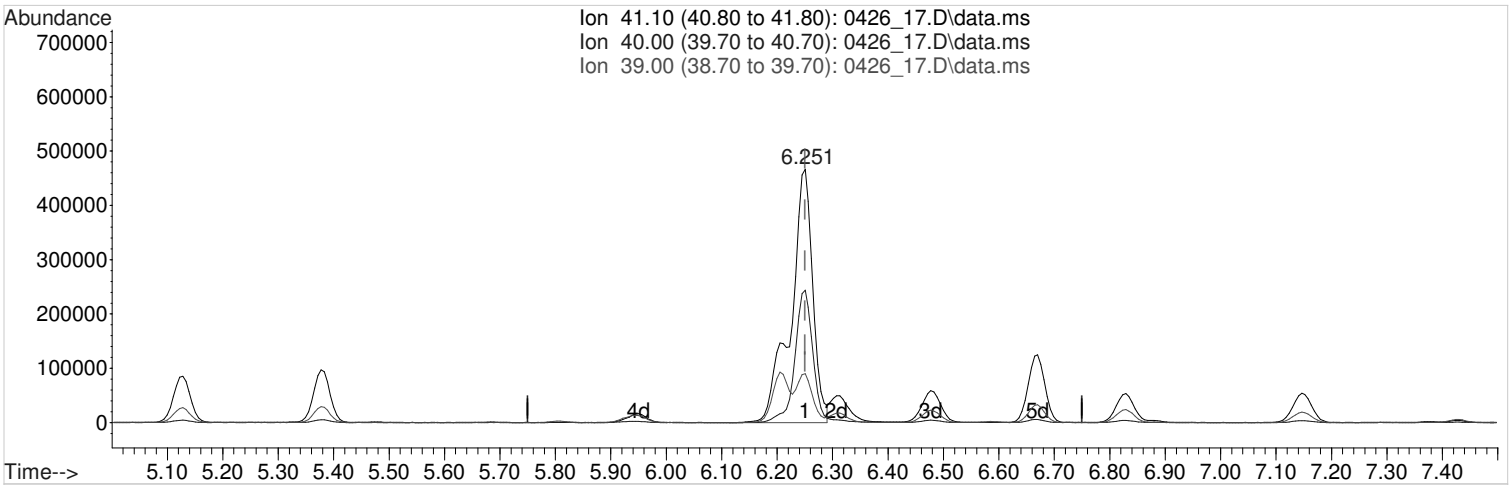
response 311232

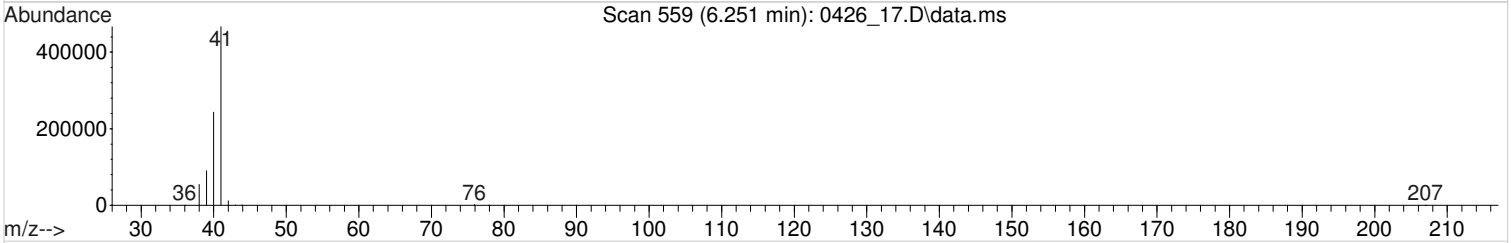
Ion	Exp%	Act%
41.00	100	100
76.00	218.20	206.11
0.00	0.00	0.00
0.00	0.00	0.00

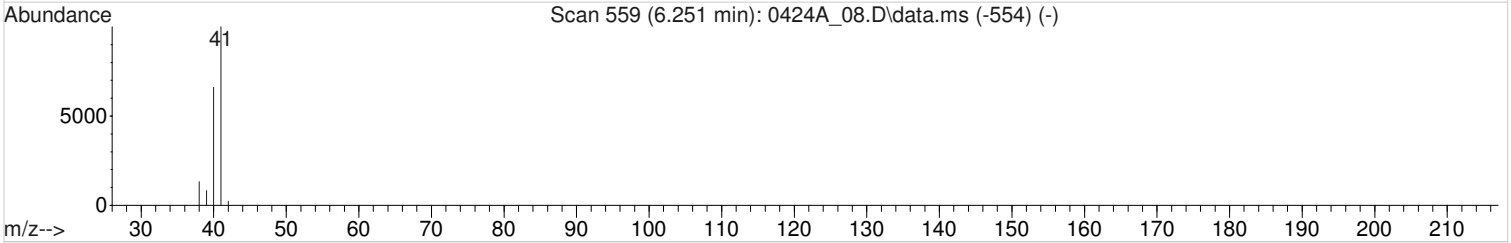
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_17.D
Acq On : 26 Apr 2024 10:37 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 17 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:32:11 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:31:51 2024
Response via : Initial Calibration







TIC: 0426_17.D\data.ms

(30) ACETONITRILE (T)

6.251min (+0.000) 66.4312441 ppbv

Qvalue = 85

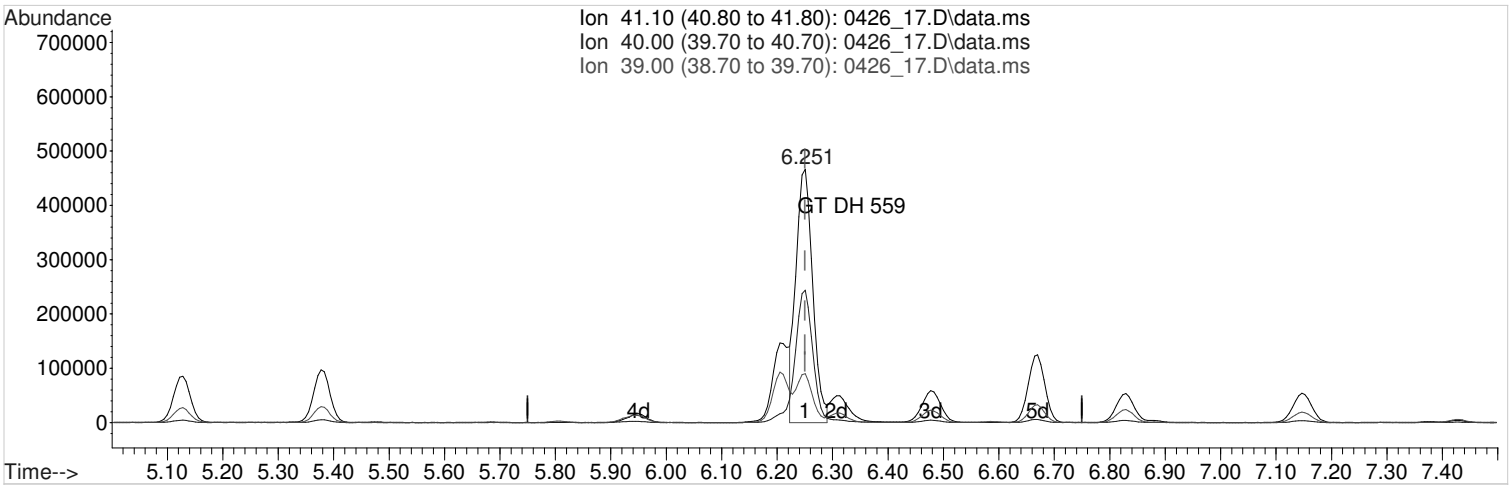
response 1291076

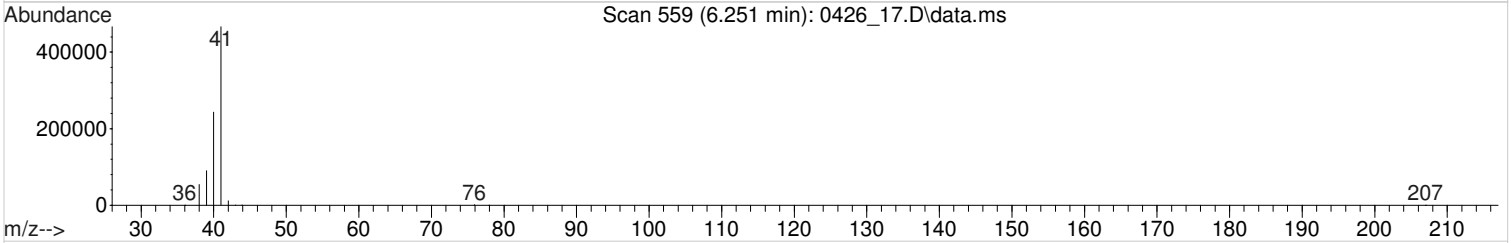
Ion	Exp%	Act%
41.10	100	100
40.00	55.80	43.24#
39.00	17.00	13.89
0.00	0.00	0.00

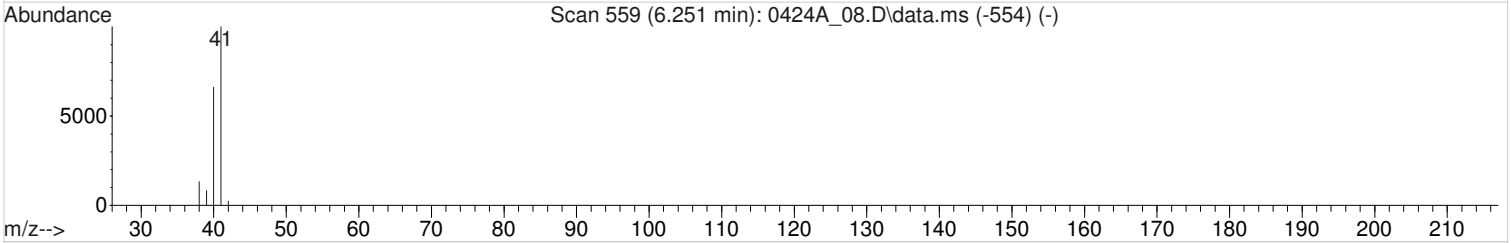
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_17.D
Acq On : 26 Apr 2024 10:37 pm
Operator :
Sample : STD AMS 10.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 17 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:32:11 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:31:51 2024
Response via : Initial Calibration







TIC: 0426_17.D\data.ms

(30) ACETONITRILE (T)

6.251min (+0.000) 50.4937780 ppbv m

response 981335

Ion	Exp%	Act%
41.10	100	100
40.00	55.80	56.89
39.00	17.00	18.27
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_18.D
Acq On : 26 Apr 2024 11:15 pm
Operator :
Sample : STD AMS 25.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 18 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:54:56 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:32:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.708	130	239096	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	8.541	114	1028219	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	11.643	117	918778	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	12.901	95	664568	4.0899019	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 102.25%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	190922421m	1089.2694184	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	234493839m	1607.6420543	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	361341017m	1323.2950607	ppbv	
5) Propene	4.119	41	421717	22.9089471	ppbv	99
6) BUTANE	4.555	43	662530	22.8277123	ppbv	100
7) 1,1-DIFLUOROETHANE	4.119	65	286509	25.3881963	ppbv	98
8) Dichlorodifluoromethane	4.164	85	1092641	25.6467450	ppbv	100
9) CHLORODIFLUOROMETHANE	4.187	67	108894	24.2447728	ppbv	99
10) 1,2-Dichlorotetrafluor...	4.334	85	1178918	25.9982739	ppbv	99
11) Chloromethane	4.453	50	435277	25.0914689	ppbv	99
12) Vinyl Chloride	4.589	62	421334	25.4081320	ppbv	99
13) 1,3-Butadiene	4.623	39	333031	23.2309468	ppbv	100
14) Bromomethane	5.015	94	359624	24.2676864	ppbv	99
15) Chloroethane	5.111	64	203096	21.8195532	ppbv	99
16) ISOPENTANE	5.122	43	477119	23.3805668	ppbv	100
17) Vinyl Bromide	5.315	106	411599	26.1626569	ppbv	100
18) Trichlorofluoromethane	5.338	101	1057283	26.2662838	ppbv	99
19) PENTANE	5.378	43	976702	25.7512912	ppbv	99
20) Ethanol	5.474	45	220167	23.0298851	ppbv	99
21) ACROLEIN	5.803	56	239906	25.0417312	ppbv	97
22) 1,1,2-Trichlorotrifluo...	5.786	101	948938	26.4478273	ppbv	99
23) 1,1-Dichloroethene	5.876	61	790841	26.1688795	ppbv	99
24) Acetone	5.922	58	259442	23.5452262	ppbv	96
25) BROMOETHANE	6.075	108	395005	26.5405574	ppbv	99
26) 2-Propanol	5.944	45	1084017	24.7653712	ppbv	100
27) Carbon Disulfide	6.171	76	1650029	26.4788364	ppbv	99
28) Allyl Chloride	6.205	41	687517	15.8054389	ppbv	86
29) METHYL ACETATE	6.166	43	1070923	25.3743442	ppbv #	99
30) ACETONITRILE	6.251	41	2537139m	123.7026770	ppbv	
31) Methylene Chloride	6.336	49	614650	25.5943367	ppbv	100
32) TERT-BUTYL ALCOHOL	6.302	59	1232520	26.1190991	ppbv #	1
33) Methyl Tert-Butyl Ether	6.477	73	1479074	25.8097163	ppbv	100
34) Trans-1,2-Dichloroethene	6.545	61	755293	26.5299842	ppbv	98
35) ACRYLONITRILE	6.585	53	457384	26.5917072	ppbv	99
36) n-Hexane	6.670	57	890390	25.5999645	ppbv	100
37) 1,1-Dichloroethane	6.954	63	936857	25.9232554	ppbv	99
38) Vinyl Acetate	6.880	43	1608065	24.4226169	ppbv	100
39) DI-ISOPROPYL ETHER	6.823	45	1962134	25.7470099	ppbv	99
40) ETHYL TERT-BUTYL ETHER	7.146	59	1771272	26.0551049	ppbv	99
41) ETHYL ACETATE	7.379	70	139676	25.3294298	ppbv	100

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_18.D
Acq On : 26 Apr 2024 11:15 pm
Operator :
Sample : STD AMS 25.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 18 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:54:56 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:32:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 2-Butanone (MEK)	7.430	72	280009	26.0196620 ppbv	97
43) cis-1,2-Dichloroethene	7.470	61	726613	26.5245186 ppbv	100
44) Tetrahydrofuran	7.708	42	688036	24.8125507 ppbv	99
45) Chloroform	7.708	83	1030715	25.5955540 ppbv	100
46) Cyclohexane	7.929	84	710632	26.0722461 ppbv	98
47) 1,1,1-Trichloroethane	7.912	97	960496	26.4656699 ppbv	100
48) Carbon Tetrachloride	8.042	117	973120	26.8600118 ppbv	100
49) 2,2,4-Trimethylpentane	8.150	57	2944375	26.3208802 ppbv	99
51) Benzene	8.258	78	1724277	25.3830213 ppbv	100
52) TERT-AMYL METHYL ETHER	8.212	73	1649327	25.7274480 ppbv	99
53) 1,2-Dichloroethane	8.309	62	704634	26.1929077 ppbv	100
54) Heptane	8.269	57	583903	24.3983416 ppbv	99
55) Trichloroethene	8.825	95	730077	26.3182504 ppbv	100
56) TERT-AMYL ETHYL ETHER	8.881	73	527598	25.2471559 ppbv	99
57) METHYL CYCLOHEXANE	8.978	83	1016708	26.1180384 ppbv	99
58) 1,2-Dichloropropane	9.102	63	682194	25.8198977 ppbv	98
59) Methyl Methacrylate	9.023	69	663210m	26.7626506 ppbv	
60) 1,4-Dioxane	9.159	88	387195	24.6089484 ppbv	98
61) Bromodichloromethane	9.329	83	1080225	26.8121778 ppbv	99
62) cis-1,3-Dichloropropene	9.766	75	1074315	27.1863868 ppbv	100
63) 4-Methyl-2-Pentanone (...	9.840	43	1505611	25.6146435 ppbv	99
64) n-OCTANE	9.970	43	1597618	25.0458600 ppbv	99
65) Toluene	10.095	91	2150810	25.1958060 ppbv	100
66) trans-1,3-Dichloropropene	10.333	75	855942	27.5874774 ppbv	99
67) 1,1,2-Trichloroethane	10.560	97	638592	26.0679066 ppbv	100
68) Tetrachloroethene	10.673	166	925655	26.1078797 ppbv	99
69) Methyl Butyl Ketone	10.707	43	1468198	26.5925167 ppbv	99
70) Chlorodibromomethane	11.013	129	1077724	28.1673412 ppbv	100
71) 1,2-Dibromoethane	11.206	107	994811	27.1597014 ppbv	99
72) Chlorobenzene	11.677	112	1588924	26.1901296 ppbv	97
73) NONANE	11.620	43	1676854	25.0431570 ppbv	99
75) Ethylbenzene	11.699	91	2728940	25.5973386 ppbv	99
76) M&P-Xylene	11.824	91	4268821	51.9793526 ppbv	99
77) O-Xylene	12.300	91	2156407	25.6260697 ppbv	99
80) Styrene	12.317	104	1640526	27.0595602 ppbv	100
81) Bromoform	12.623	173	1096807	30.0853038 ppbv	100
82) Isopropylbenzene	12.657	105	2906073	25.9255053 ppbv	99
83) n-DECANE	13.043	43	1567560	25.0558756 ppbv	98
84) 1,1,2,2-Tetrachloroethane	13.003	83	1451612	26.1586802 ppbv	99
85) n-Propylbenzene	13.054	91	3360835	25.7588017 ppbv	99
86) 4-Ethyltoluene	13.151	105	2841263	26.8460296 ppbv	99
87) 2-Chlorotoluene	13.213	91	2235639	26.0441482 ppbv	100
89) 1,3,5-Trimethylbenzene	13.202	105	2225259	25.1331308 ppbv	97
90) tert-Butylbenzene	13.502	119	2156135	25.6240201 ppbv	99
91) 1,2,4-Trimethylbenzene	13.553	105	2332252	25.8788210 ppbv	99
92) sec-Butylbenzene	13.689	105	3334358	25.4357224 ppbv	99
93) 1,3-Dichlorobenzene	13.882	146	1518959	26.5200393 ppbv	99
94) P-ISOPROPYLTOLUENE	13.797	119	2854717	26.2948265 ppbv	99
95) 1,4-Dichlorobenzene	13.961	146	1535608	26.7380200 ppbv	99
96) 1,2,3-TRIMETHYLBENZENE	13.944	105	2362715	25.9375031 ppbv	100

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_18.D
Acq On : 26 Apr 2024 11:15 pm
Operator :
Sample : STD AMS 25.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 18 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:54:56 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:32:19 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	Benzyl Chloride	14.069	91	2279608	29.1781957 ppbv	99
98)	n-Butylbenzene	14.160	91	2825686	26.2811809 ppbv	99
99)	1,2-Dichlorobenzene	14.319	146	1487912	26.2182256 ppbv	99
100)	1,2-DIBROMO-3-CHLOROPR...	15.067	157	861546	28.6861795 ppbv	99
101)	1,2,4-Trichlorobenzene	15.889	180	1464333	29.4357874 ppbv	99
102)	Hexachloro-1,3-Butadiene	15.963	225	1298727	26.4792690 ppbv	99
103)	Naphthalene	16.207	128	3542893	29.6053048 ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_18.D
Acq On : 26 Apr 2024 11:15 pm
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Sample : STD AMS 25.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 18 Sample Multiplier: 1
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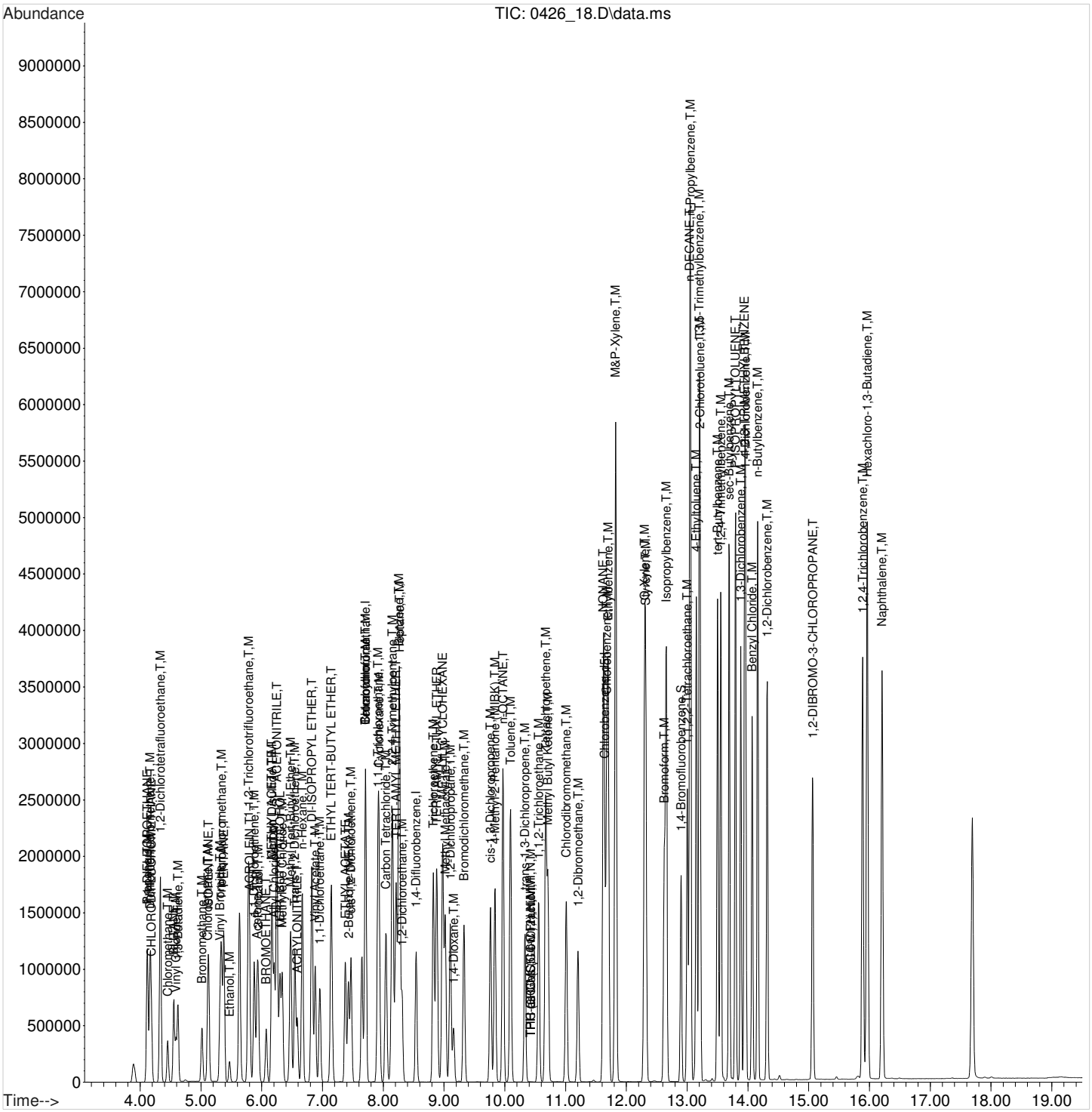
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:32:19 2024
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_18.D
Acq On : 26 Apr 2024 11:15 pm
Operator :
Sample : STD AMS 25.0 ppbv 24D24723
Misc : 24D22236
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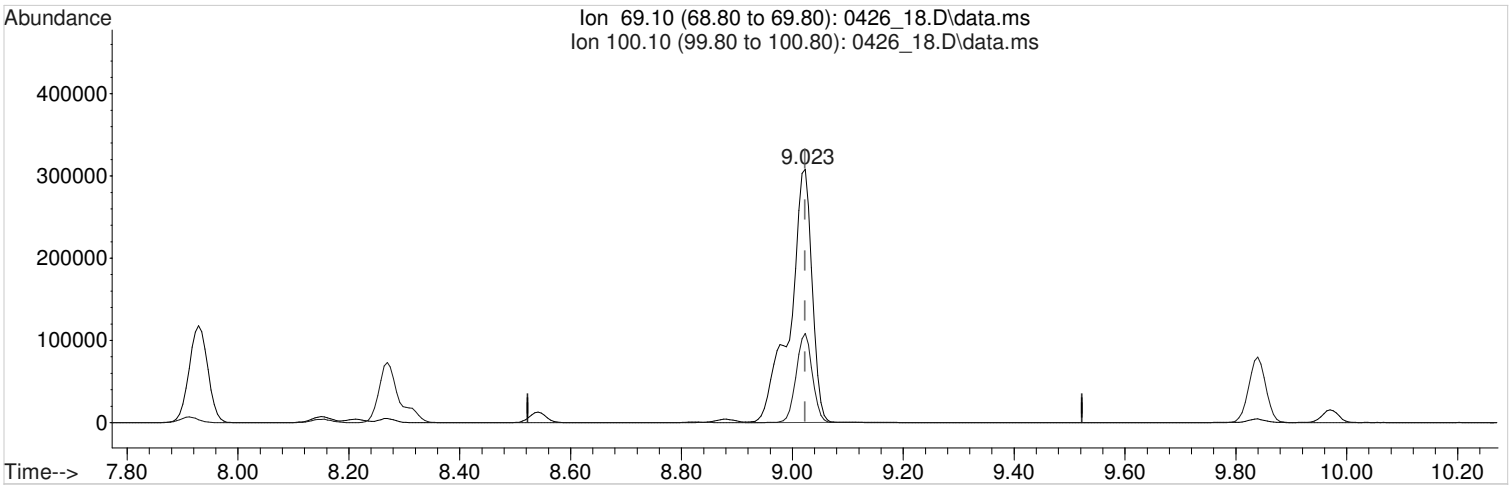
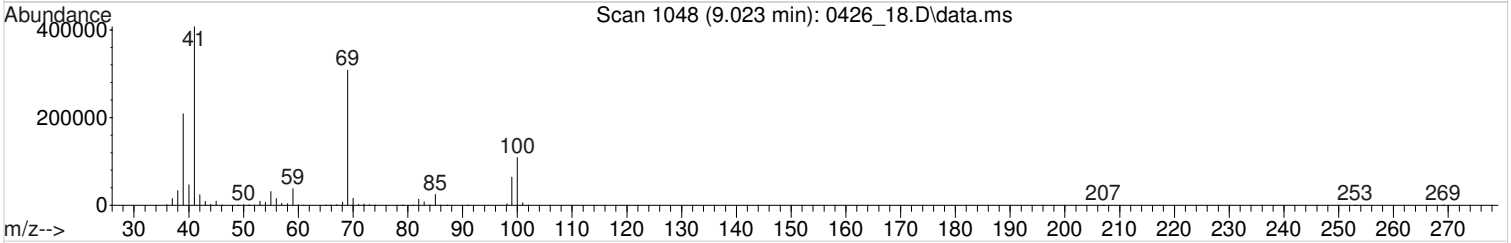
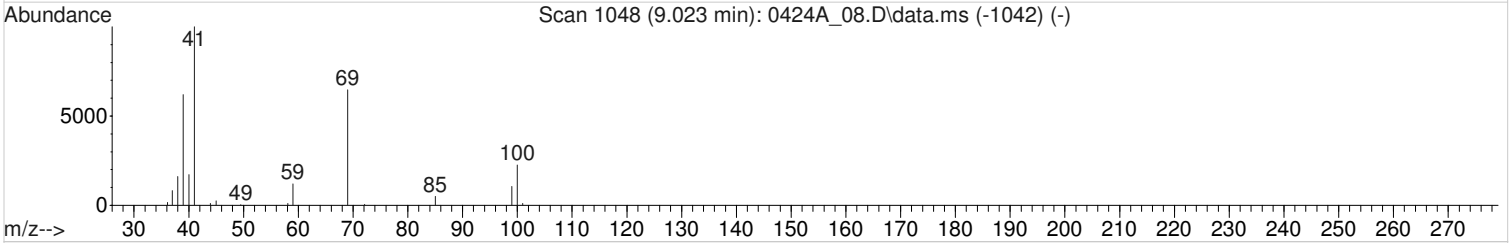
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:32:19 2024
Response via : Initial Calibration







TIC: 0426_18.D\data.ms

(59) Methyl Methacrylate (T,M)

9.023min (+0.000) 34.3658809 ppbv

Qvalue = 85

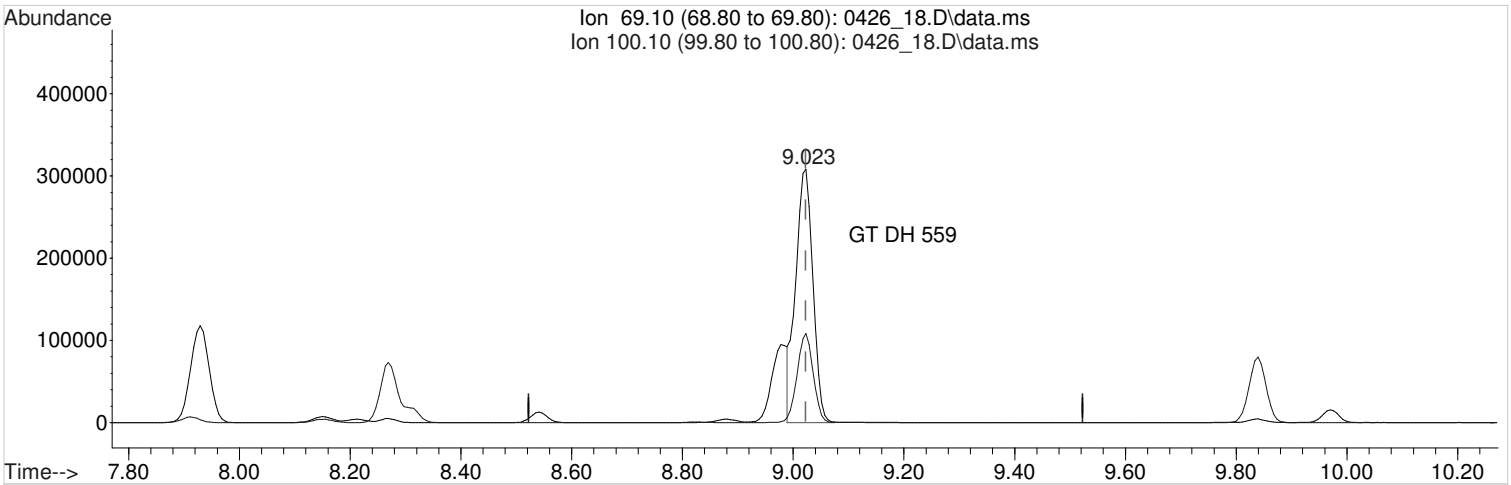
response 851627

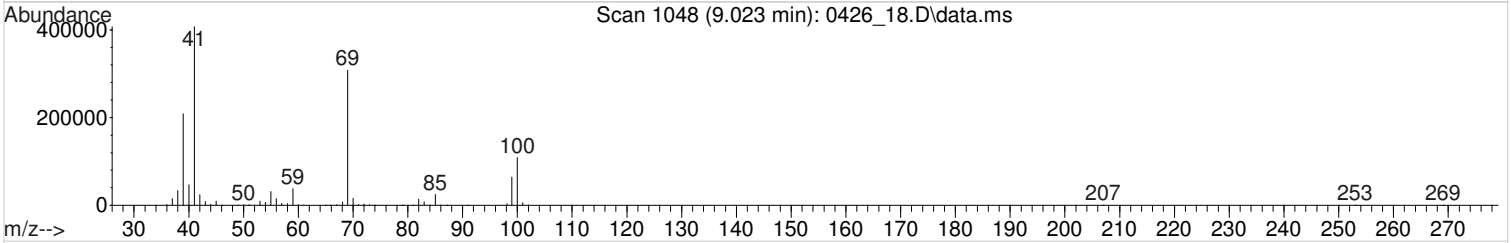
Ion	Exp%	Act%
69.10	100	100
100.10	34.10	25.77#
0.00	0.00	0.00
0.00	0.00	0.00

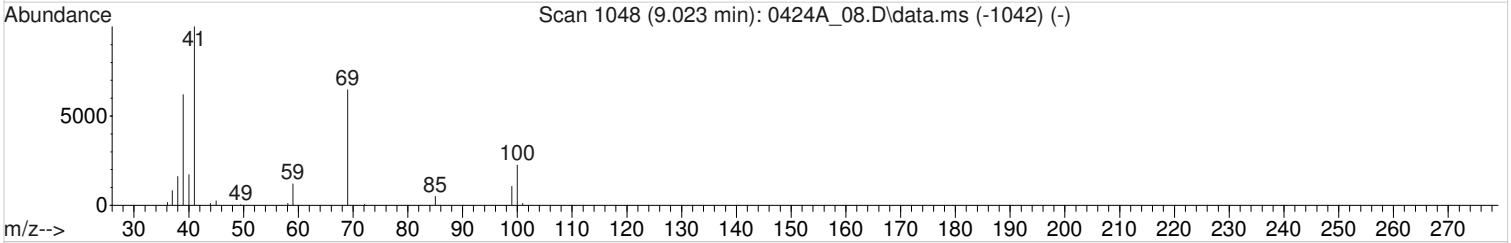
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_18.D
Acq On : 26 Apr 2024 11:15 pm
Operator :
Sample : STD AMS 25.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 18 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:34:11 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:32:19 2024
Response via : Initial Calibration







TIC: 0426_18.D\data.ms

(59) Methyl Methacrylate (T,M)

9.023min (+0.000) 26.7626506 ppbv m

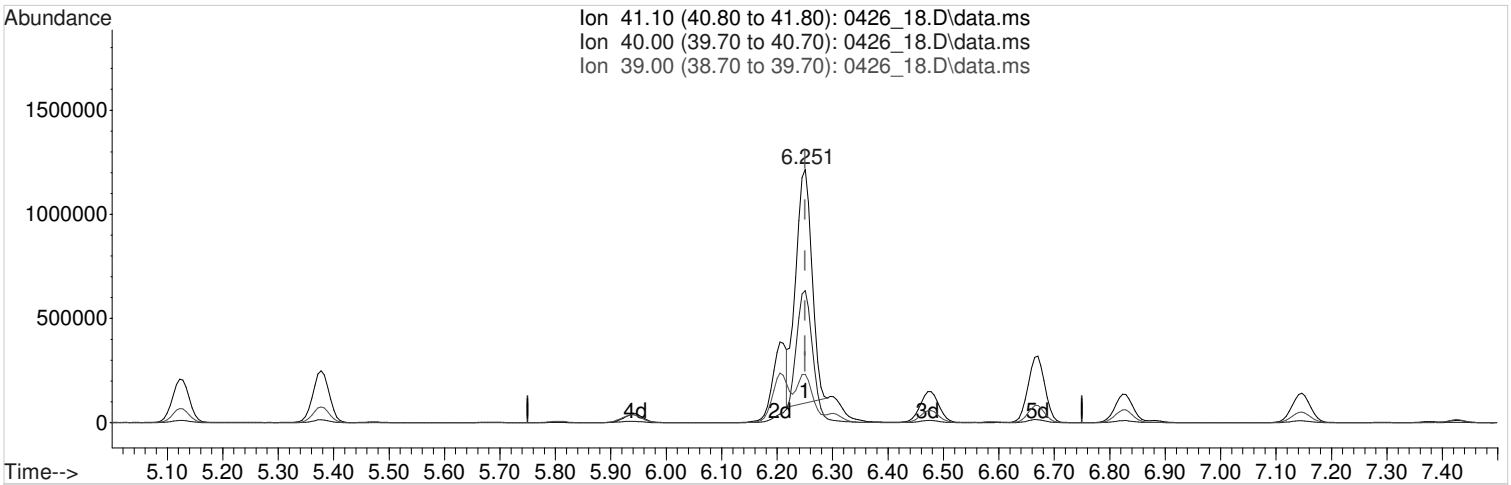
response 663210

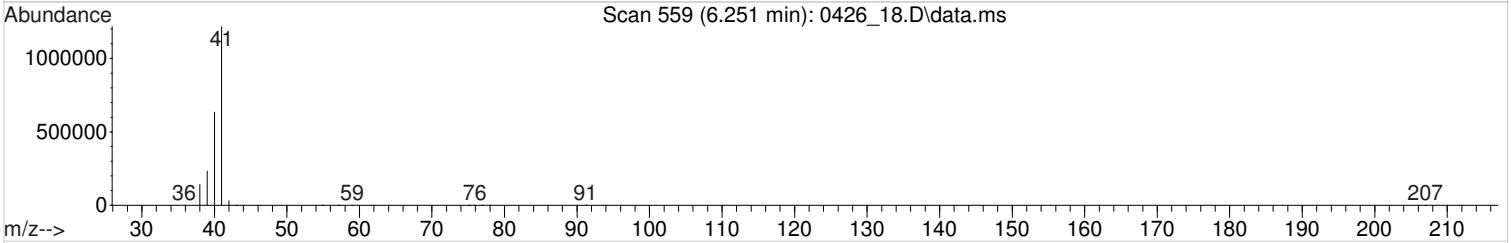
Ion	Exp%	Act%
69.10	100	100
100.10	34.10	33.09
0.00	0.00	0.00
0.00	0.00	0.00

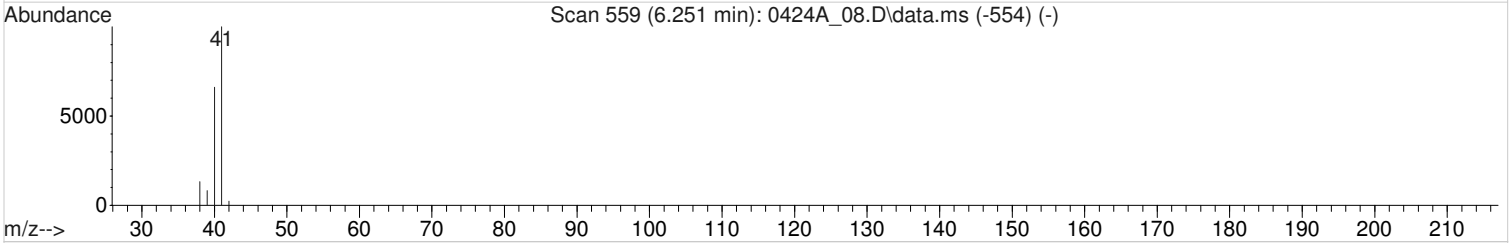
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_18.D
Acq On : 26 Apr 2024 11:15 pm
Operator :
Sample : STD AMS 25.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 18 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:37:35 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:32:19 2024
Response via : Initial Calibration







TIC: 0426_18.D\data.ms

(30) ACETONITRILE (T)

6.251min (+0.000) 110.8721406 ppbv

Qvalue = 90

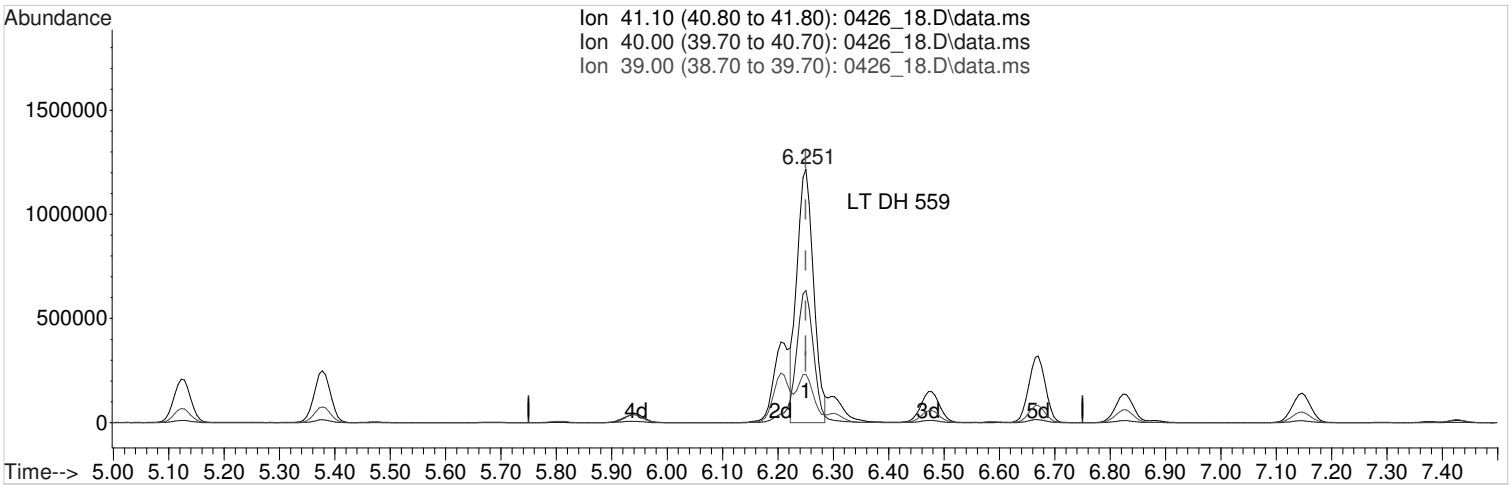
response 2273985

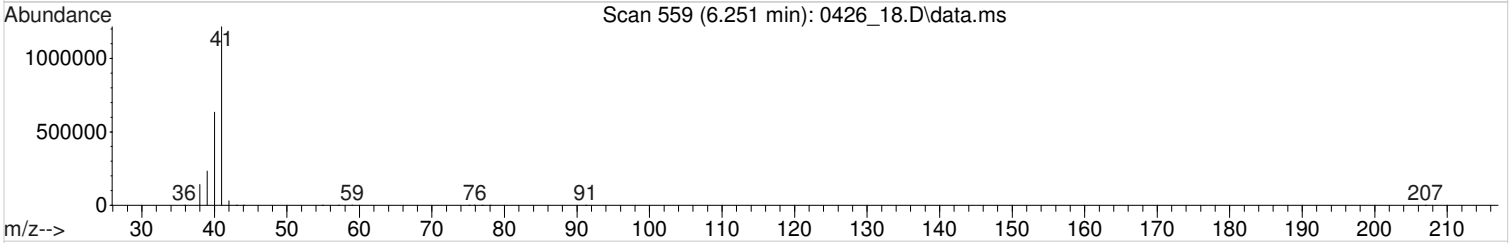
Ion	Exp%	Act%
41.10	100	100
40.00	55.80	62.96
39.00	17.00	20.87#
0.00	0.00	0.00

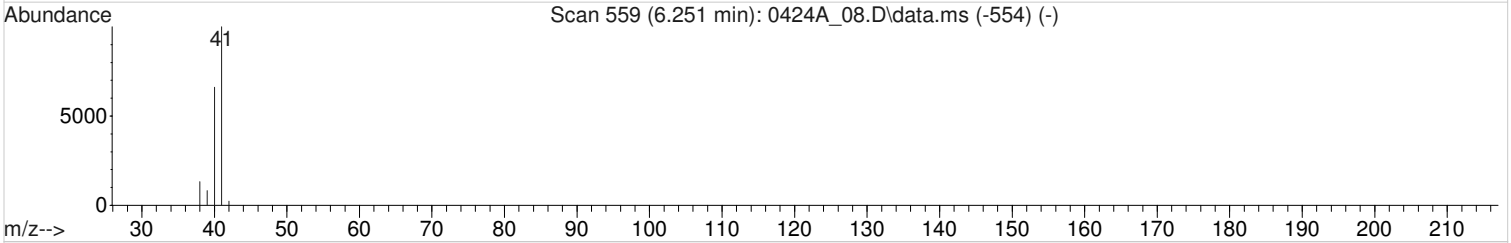
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_18.D
Acq On : 26 Apr 2024 11:15 pm
Operator :
Sample : STD AMS 25.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 18 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:37:35 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:32:19 2024
Response via : Initial Calibration







TIC: 0426_18.D\data.ms

(30) ACETONITRILE (T)

6.251min (+0.000) 123.7026770 ppbv m

response 2537139

Ion	Exp%	Act%
41.10	100	100
40.00	55.80	56.43
39.00	17.00	18.70
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_19.D
Acq On : 26 Apr 2024 11:56 pm
Operator :
Sample : STD AMS 50.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 19 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:38:15 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:34:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.708	130	254050	4.0000000	ppbv	# 0.00
50) 1,4-Difluorobenzene	8.541	114	1083400	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	11.642	117	953927	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	12.901	95	687111	4.0614153	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 101.54%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	389661495m	2111.5338074	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	477700157m	3108.6765522	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	729558029m	2661.8451172	ppbv	
5) Propene	4.119	41	850101	43.9210008	ppbv	100
6) BUTANE	4.555	43	1365860	44.7774138	ppbv	100
7) 1,1-DIFLUOROETHANE	4.124	65	585649	48.7463335	ppbv	99
8) Dichlorodifluoromethane	4.164	85	2143777	47.2047125	ppbv	100
9) CHLORODIFLUOROMETHANE	4.187	67	224321	47.1824263	ppbv	97
10) 1,2-Dichlorotetrafluor...	4.334	85	2410387	49.7781179	ppbv	99
11) Chloromethane	4.453	50	880996	47.7736956	ppbv	100
12) Vinyl Chloride	4.589	62	873911	49.4972652	ppbv	98
13) 1,3-Butadiene	4.623	39	691344	45.7918405	ppbv	100
14) Bromomethane	5.020	94	752762	47.9825829	ppbv	99
15) Chloroethane	5.111	64	425545	43.7224854	ppbv	99
16) ISOPENTANE	5.128	43	1000490	46.5184307	ppbv	99
17) Vinyl Bromide	5.315	106	849669	50.5350910	ppbv	100
18) Trichlorofluoromethane	5.338	101	2170748	50.4346339	ppbv	99
19) PENTANE	5.377	43	1991603	49.2339255	ppbv	99
20) Ethanol	5.474	45	453181	45.0571389	ppbv	100
21) ACROLEIN	5.808	56	501688	49.2741857	ppbv	97
22) 1,1,2-Trichlorotrifluo...	5.786	101	1963756	51.1399391	ppbv	99
23) 1,1-Dichloroethene	5.882	61	1645400	50.9436143	ppbv	99
24) Acetone	5.922	58	537352	46.2322586	ppbv	95
25) BROMOETHANE	6.075	108	817546	51.3027087	ppbv	99
26) 2-Propanol	5.944	45	2242988	48.2834839	ppbv	99
27) Carbon Disulfide	6.177	76	3418767	51.2543222	ppbv	99
28) Allyl Chloride	6.211	41	1592261	36.1101867	ppbv	98
29) METHYL ACETATE	6.166	43	2208472	49.1552005	ppbv #	99
30) ACETONITRILE	6.251	41	5778399	268.9520636	ppbv	93
31) Methylene Chloride	6.341	49	1271808	49.6937745	ppbv	99
32) TERT-BUTYL ALCOHOL	6.302	59	2551448	50.6035204	ppbv #	1
33) Methyl Tert-Butyl Ether	6.477	73	3072247	50.2513625	ppbv	100
34) Trans-1,2-Dichloroethene	6.545	61	1573547	51.6231720	ppbv	98
35) ACRYLONITRILE	6.591	53	955809	51.8855962	ppbv	99
36) n-Hexane	6.670	57	1848999	49.8824781	ppbv	99
37) 1,1-Dichloroethane	6.959	63	1940863	50.3111234	ppbv	99
38) Vinyl Acetate	6.880	43	3356100	48.1096487	ppbv	100
39) DI-ISOPROPYL ETHER	6.823	45	4012499	49.3681776	ppbv	99
40) ETHYL TERT-BUTYL ETHER	7.146	59	3670325	50.5452201	ppbv	99
41) ETHYL ACETATE	7.379	70	294642	50.2038045	ppbv	99

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_19.D
Acq On : 26 Apr 2024 11:56 pm
Operator :
Sample : STD AMS 50.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 19 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:38:15 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:34:18 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 2-Butanone (MEK)	7.430	72	581939	50.6351023 ppbv	97
43) cis-1,2-Dichloroethene	7.470	61	1504248	51.2883827 ppbv	99
44) Tetrahydrofuran	7.708	42	1410951	47.9327697 ppbv	98
45) Chloroform	7.713	83	2122223	49.4514191 ppbv	99
46) Cyclohexane	7.929	84	1477204	50.7347050 ppbv	97
47) 1,1,1-Trichloroethane	7.917	97	1982907	51.0471772 ppbv	100
48) Carbon Tetrachloride	8.048	117	2023964	52.0925235 ppbv	99
49) 2,2,4-Trimethylpentane	8.150	57	6085723	50.8643799 ppbv	99
51) Benzene	8.258	78	3532677	49.2613237 ppbv	100
52) TERT-AMYL METHYL ETHER	8.212	73	3441444	50.7633967 ppbv	99
53) 1,2-Dichloroethane	8.309	62	1456748	51.0879728 ppbv	100
54) Heptane	8.269	57	1193135	47.4585466 ppbv	97
55) Trichloroethene	8.825	95	1521807	51.7239361 ppbv	100
56) TERT-AMYL ETHYL ETHER	8.881	73	1103791	50.0675803 ppbv	98
57) METHYL CYCLOHEXANE	8.978	83	2109047	51.1335963 ppbv	99
58) 1,2-Dichloropropane	9.102	63	1404669	50.2505324 ppbv	97
59) Methyl Methacrylate	9.023	69	1401727m	51.2816958 ppbv	
60) 1,4-Dioxane	9.159	88	801018	48.4119273 ppbv	98
61) Bromodichloromethane	9.329	83	2243994	52.3864511 ppbv	99
62) cis-1,3-Dichloropropene	9.766	75	2232847	53.0461288 ppbv	100
63) 4-Methyl-2-Pentanone (...	9.839	43	3057762	49.2202001 ppbv	99
64) n-OCTANE	9.970	43	3253148	48.3909387 ppbv	98
65) Toluene	10.095	91	4407369	48.9527886 ppbv	99
66) trans-1,3-Dichloropropene	10.333	75	1781277	53.7914567 ppbv	99
67) 1,1,2-Trichloroethane	10.560	97	1321426	50.9224819 ppbv	100
68) Tetrachloroethene	10.679	166	1913501	50.9388161 ppbv	98
69) Methyl Butyl Ketone	10.707	43	2997415	51.1180256 ppbv	98
70) Chlorodibromomethane	11.013	129	2251986	54.9891338 ppbv	100
71) 1,2-Dibromoethane	11.206	107	2061861	52.8537734 ppbv	99
72) Chlorobenzene	11.682	112	3267967	50.8197242 ppbv	96
73) NONANE	11.625	43	3348541	47.4517829 ppbv	98
75) Ethylbenzene	11.705	91	5563561	50.1134099 ppbv	99
76) M&P-Xylene	11.824	91	8566413	99.9709045 ppbv	100
77) O-Xylene	12.300	91	4367244	49.8306789 ppbv	100
80) Styrene	12.323	104	3314380	52.1177855 ppbv	99
81) Bromoform	12.623	173	2267214	58.4127435 ppbv	100
82) Isopropylbenzene	12.657	105	5884395	50.3283741 ppbv	99
83) n-DECANE	13.043	43	2952287	45.4378859 ppbv	95
84) 1,1,2,2-Tetrachloroethane	13.003	83	2927047	50.5104966 ppbv	99
85) n-Propylbenzene	13.054	91	6511384	47.8853450 ppbv	98
86) 4-Ethyltoluene	13.151	105	5688127	51.2912336 ppbv	99
87) 2-Chlorotoluene	13.213	91	4456430	49.7427252 ppbv	100
89) 1,3,5-Trimethylbenzene	13.202	105	4485949	48.7670864 ppbv	100
90) tert-Butylbenzene	13.502	119	4402697	50.2380331 ppbv	99
91) 1,2,4-Trimethylbenzene	13.553	105	4721354	50.2373669 ppbv	99
92) sec-Butylbenzene	13.695	105	6646295	48.7261144 ppbv	99
93) 1,3-Dichlorobenzene	13.882	146	3089080	51.5542496 ppbv	98
94) P-ISOPROPYLTOLUENE	13.797	119	5679215	50.0597166 ppbv	99
95) 1,4-Dichlorobenzene	13.961	146	3087665	51.3353752 ppbv	98
96) 1,2,3-TRIMETHYLBENZENE	13.944	105	4719370	49.6666988 ppbv	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_19.D
Acq On : 26 Apr 2024 11:56 pm
Operator :
Sample : STD AMS 50.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 19 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:38:15 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:34:18 2024
Response via : Initial Calibration

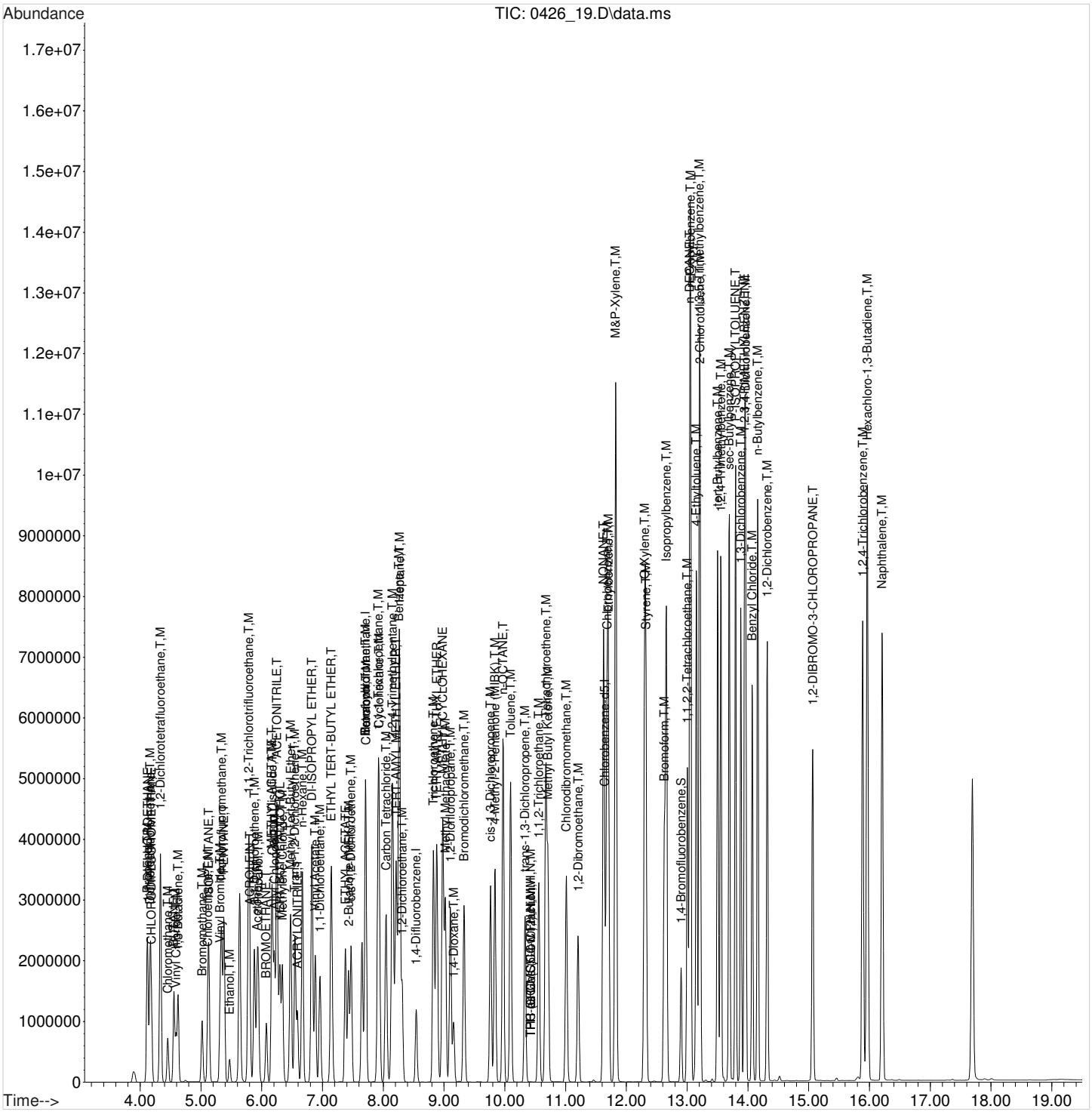
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	Benzyl Chloride	14.069	91	4660266	56.2762366	ppbv	99
98)	n-Butylbenzene	14.160	91	5540978	49.3207500	ppbv	99
99)	1,2-Dichlorobenzene	14.319	146	3006483	50.7157590	ppbv	99
100)	1,2-DIBROMO-3-CHLOROPR...	15.067	157	1752124	55.1725377	ppbv	99
101)	1,2,4-Trichlorobenzene	15.889	180	3006246	56.9414919	ppbv	99
102)	Hexachloro-1,3-Butadiene	15.963	225	2630081	51.2687019	ppbv	98
103)	Naphthalene	16.207	128	7276404	57.2449073	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_19.D
Acq On : 26 Apr 2024 11:56 pm
Operator :
Sample : STD AMS 50.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 19 Sample Multiplier: 1
InstName : AIRMS16

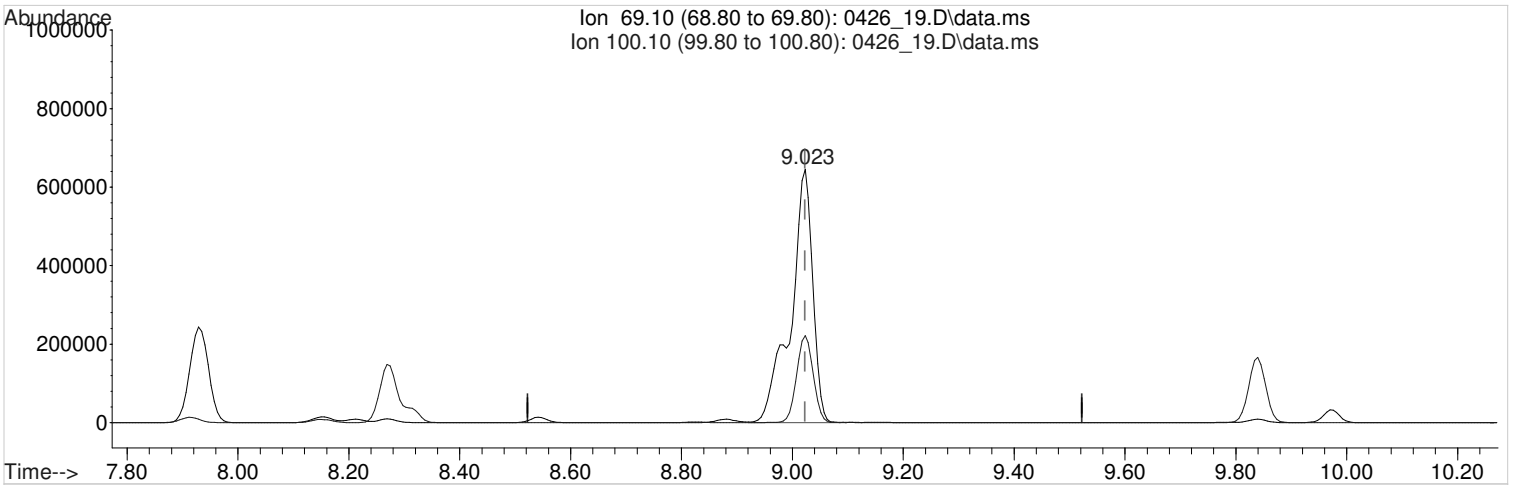
Quant Time: Apr 27 07:38:15 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:34:18 2024
Response via : Initial Calibration

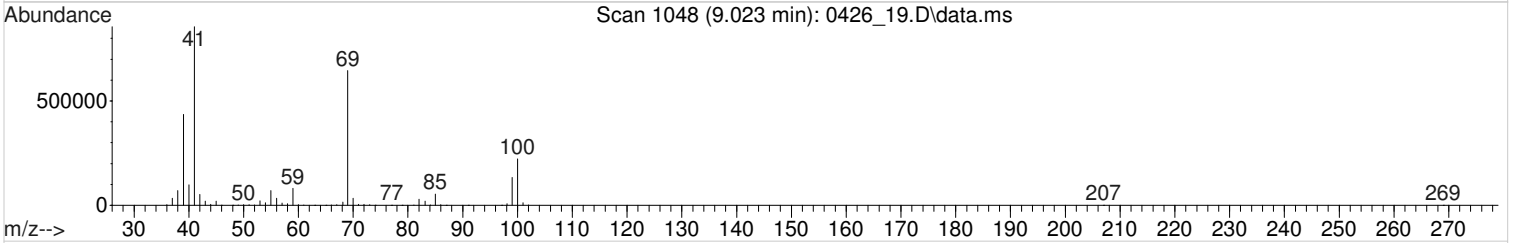


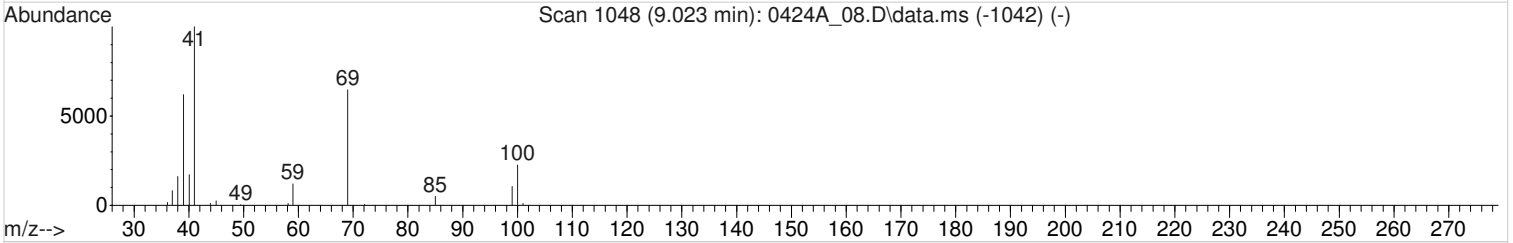
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_19.D
Acq On : 26 Apr 2024 11:56 pm
Operator :
Sample : STD AMS 50.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 19 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:34:34 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:34:18 2024
Response via : Initial Calibration







TIC: 0426_19.D\data.ms

(59) Methyl Methacrylate (T,M)

9.023min (+0.000) 64.9874774 ppbv

Qvalue = 86

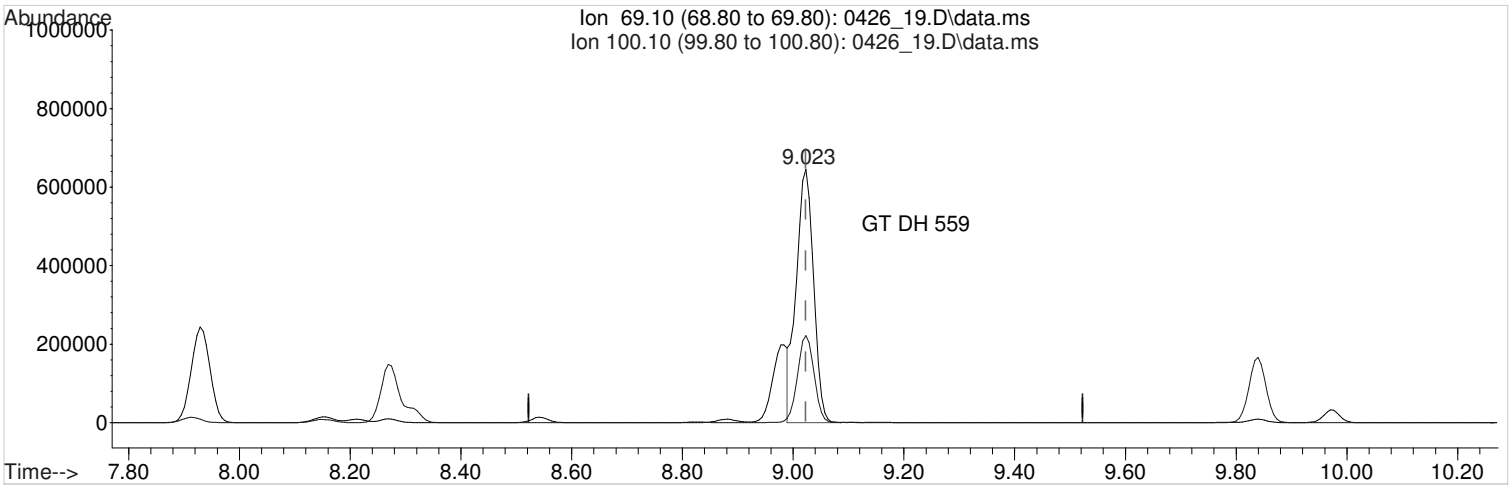
response 1776359

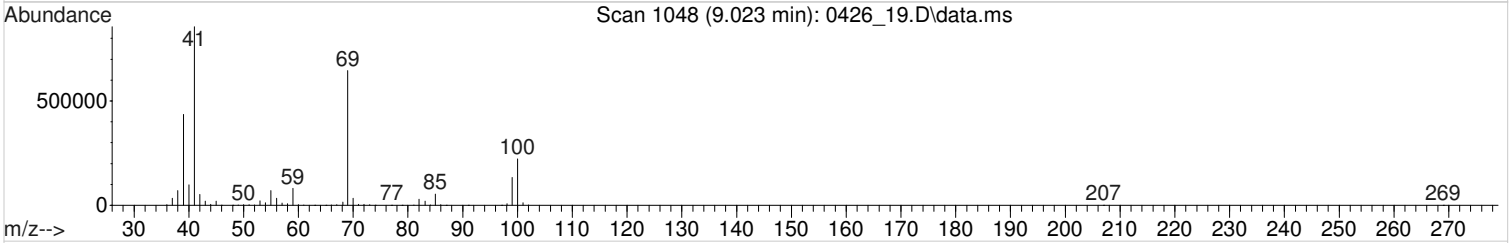
Ion	Exp%	Act%
69.10	100	100
100.10	34.10	25.95#
0.00	0.00	0.00
0.00	0.00	0.00

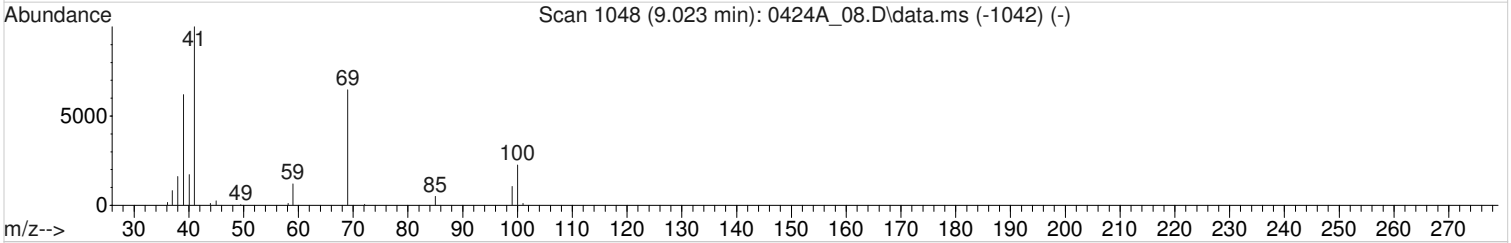
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_19.D
Acq On : 26 Apr 2024 11:56 pm
Operator :
Sample : STD AMS 50.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 19 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:34:34 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:34:18 2024
Response via : Initial Calibration







TIC: 0426_19.D\data.ms

(59) Methyl Methacrylate (T,M)

9.023min (+0.000) 51.2816958 ppbv m

response 1401727

Ion	Exp%	Act%
69.10	100	100
100.10	34.10	32.89
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_20.D
Acq On : 27 Apr 2024 12:41 am
Operator :
Sample : STD AMS 100.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 20 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:38:47 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:34:40 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.713	130	256905	4.0000000	ppbv	# 0.00
50) 1,4-Difluorobenzene	8.547	114	1097260	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	11.648	117	953485	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	12.901	95	699747	4.1309749	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 103.27%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	785639487m	4257.9933163	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	932179890m	6065.5058992	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	1435461929m	5445.1556514	ppbv	
5) Propene	4.119	41	1649617	85.4354850	ppbv	100
6) BUTANE	4.555	43	2562234	84.0403865	ppbv	99
7) 1,1-DIFLUOROETHANE	4.124	65	1154486	95.2909076	ppbv	99
8) Dichlorodifluoromethane	4.164	85	3617998	79.2732853	ppbv	100
9) CHLORODIFLUOROMETHANE	4.187	67	446442	93.4436536	ppbv	95
10) 1,2-Dichlorotetrafluor...	4.334	85	4757845	97.2126582	ppbv	98
11) Chloromethane	4.453	50	1751846	94.4085671	ppbv	100
12) Vinyl Chloride	4.589	62	1681567	94.2888364	ppbv	99
13) 1,3-Butadiene	4.623	39	1316977	87.0761327	ppbv	100
14) Bromomethane	5.020	94	1464367	92.7201008	ppbv	100
15) Chloroethane	5.111	64	800294	82.4625251	ppbv	99
16) ISOPENTANE	5.128	43	1831908	84.8859336	ppbv	98
17) Vinyl Bromide	5.315	106	1700994	99.9255607	ppbv	100
18) Trichlorofluoromethane	5.338	101	4331271	99.4173541	ppbv	99
19) PENTANE	5.377	43	3921365	96.0252775	ppbv	99
20) Ethanol	5.474	45	930136	92.4659329	ppbv	99
21) ACROLEIN	5.808	56	1025334	99.7467586	ppbv	97
22) 1,1,2-Trichlorotrifluo...	5.786	101	3960488	101.7347361	ppbv	99
23) 1,1-Dichloroethene	5.876	61	3338996	102.0166539	ppbv	99
24) Acetone	5.922	58	1096968	94.1192361	ppbv	94
25) BROMOETHANE	6.075	108	1666835	103.1363897	ppbv	99
26) 2-Propanol	5.944	45	4558877	97.4172670	ppbv	99
27) Carbon Disulfide	6.177	76	6885674	101.7994028	ppbv	99
28) Allyl Chloride	6.211	41	3122907	72.2665716	ppbv	99
29) METHYL ACETATE	6.165	43	4430641	97.7027663	ppbv #	98
30) ACETONITRILE	6.251	41	11328414	517.0592432	ppbv #	92
31) Methylene Chloride	6.341	49	2570155	99.3761183	ppbv	99
32) TERT-BUTYL ALCOHOL	6.296	59	5219691	102.2358894	ppbv #	1
33) Methyl Tert-Butyl Ether	6.477	73	6252397	101.0746810	ppbv	100
34) Trans-1,2-Dichloroethene	6.545	61	3211865	103.8257769	ppbv	98
35) ACRYLONITRILE	6.591	53	1966638	105.1309963	ppbv	99
36) n-Hexane	6.670	57	3699417	98.7199007	ppbv	99
37) 1,1-Dichloroethane	6.959	63	3928537	100.6344003	ppbv	100
38) Vinyl Acetate	6.880	43	6838190	97.3449256	ppbv	99
39) DI-ISOPROPYL ETHER	6.823	45	7968697	97.0904053	ppbv	99
40) ETHYL TERT-BUTYL ETHER	7.146	59	7441178	101.2134045	ppbv	98
41) ETHYL ACETATE	7.379	70	609284	102.6152116	ppbv	98

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_20.D
Acq On : 27 Apr 2024 12:41 am
Operator :
Sample : STD AMS 100.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 20 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:38:47 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:34:40 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 2-Butanone (MEK)	7.430	72	1201156	103.2066738 ppbv	97
43) cis-1,2-Dichloroethene	7.470	61	3064777	103.0394291 ppbv	99
44) Tetrahydrofuran	7.708	42	2784093	93.9616537 ppbv	97
45) Chloroform	7.713	83	4272886	98.5792361 ppbv	99
46) Cyclohexane	7.929	84	2986008	101.2497103 ppbv	95
47) 1,1,1-Trichloroethane	7.917	97	3999898	101.5910595 ppbv	100
48) Carbon Tetrachloride	8.048	117	4134205	104.7361129 ppbv	99
49) 2,2,4-Trimethylpentane	8.150	57	12121210	99.9909695 ppbv	99
51) Benzene	8.258	78	6977942	96.2326106 ppbv	100
52) TERT-AMYL METHYL ETHER	8.212	73	7021295	102.0869766 ppbv	99
53) 1,2-Dichloroethane	8.309	62	2970360	102.6062646 ppbv	99
54) Heptane	8.269	57	2334296	92.1976314 ppbv	95
55) Trichloroethene	8.825	95	3131322	104.6835429 ppbv	99
56) TERT-AMYL ETHYL ETHER	8.881	73	2261579	101.2734451 ppbv	97
57) METHYL CYCLOHEXANE	8.978	83	4311878	102.9610994 ppbv	98
58) 1,2-Dichloropropane	9.102	63	2849752	100.6030851 ppbv	97
59) Methyl Methacrylate	9.023	69	2740380m	95.7988440 ppbv	
60) 1,4-Dioxane	9.159	88	1650029	98.8135077 ppbv	98
61) Bromodichloromethane	9.329	83	4567689	104.7311860 ppbv	99
62) cis-1,3-Dichloropropene	9.766	75	4578172	106.6685051 ppbv	99
63) 4-Methyl-2-Pentanone (...	9.839	43	6118785	97.4175964 ppbv	98
64) n-OCTANE	9.970	43	6358022	93.7167505 ppbv	96
65) Toluene	10.095	91	8816249	96.9109822 ppbv	99
66) trans-1,3-Dichloropropene	10.333	75	3649211	107.8987225 ppbv	99
67) 1,1,2-Trichloroethane	10.559	97	2678769	101.7166125 ppbv	100
68) Tetrachloroethene	10.679	166	3894042	102.1397903 ppbv	97
69) Methyl Butyl Ketone	10.707	43	5923425	99.4951029 ppbv	97
70) Chlorodibromomethane	11.013	129	4591192	109.4781424 ppbv	100
71) 1,2-Dibromoethane	11.206	107	4180853	105.1514629 ppbv	99
72) Chlorobenzene	11.682	112	6491239	99.4880983 ppbv	97
73) NONANE	11.625	43	6441682	90.6445611 ppbv	96
75) Ethylbenzene	11.705	91	10904047	98.2382582 ppbv	98
76) M&P-Xylene	11.824	91	16028416	187.1459938 ppbv	98
77) O-Xylene	12.300	91	8645449	98.7282908 ppbv	100
80) Styrene	12.323	104	6516733	102.0412524 ppbv	98
81) Bromoform	12.623	173	4545594	115.0172131 ppbv	99
82) Isopropylbenzene	12.657	105	11510210	98.4189683 ppbv	98
83) n-DECANE	13.048	43	4886827	76.0174233 ppbv	92
84) 1,1,2,2-Tetrachloroethane	13.003	83	5700483	98.3042905 ppbv	98
85) n-Propylbenzene	13.060	91	11295029	83.4956020 ppbv	96
86) 4-Ethyltoluene	13.156	105	10752949	96.7293654 ppbv	97
87) 2-Chlorotoluene	13.213	91	8291248	92.6428771 ppbv	100
89) 1,3,5-Trimethylbenzene	13.202	105	8361851	91.1943001 ppbv	100
90) tert-Butylbenzene	13.502	119	8381772	95.6359738 ppbv	97
91) 1,2,4-Trimethylbenzene	13.553	105	9026903	96.0442421 ppbv	98
92) sec-Butylbenzene	13.695	105	12168240	89.5039863 ppbv	96
93) 1,3-Dichlorobenzene	13.888	146	5982256	99.5414962 ppbv	96
94) P-ISOPROPYLTOLUENE	13.797	119	10488653	92.4833264 ppbv	97
95) 1,4-Dichlorobenzene	13.967	146	5737761	95.1575902 ppbv	97
96) 1,2,3-TRIMETHYLBENZENE	13.944	105	8716812	91.8463730 ppbv	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_20.D
Acq On : 27 Apr 2024 12:41 am
Operator :
Sample : STD AMS 100.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 20 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:38:47 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:34:40 2024
Response via : Initial Calibration

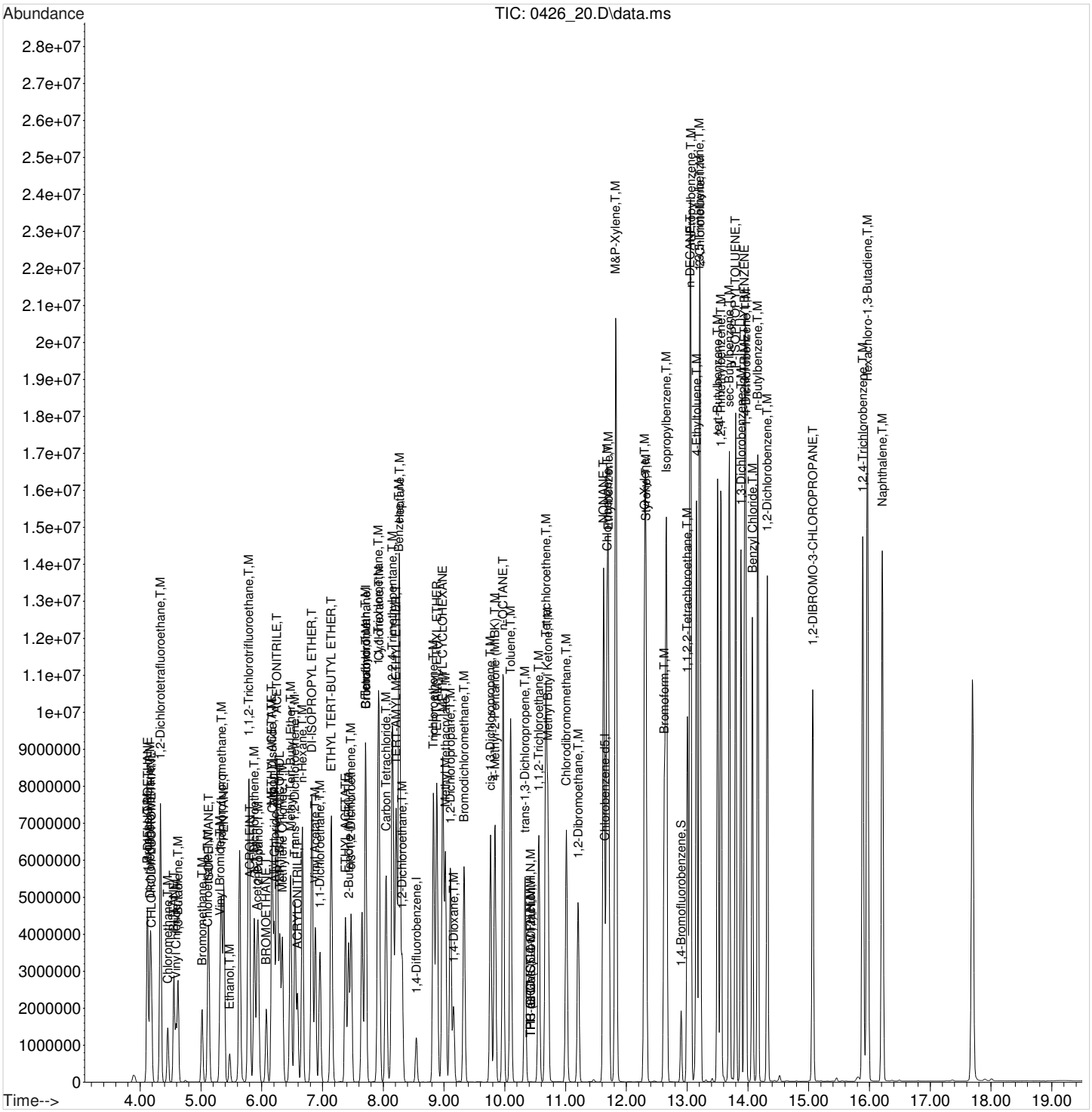
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
97)	Benzyl Chloride	14.075	91	9013753	107.4004085 ppbv	97
98)	n-Butylbenzene	14.160	91	10188751	90.8702054 ppbv	97
99)	1,2-Dichlorobenzene	14.319	146	5844261	98.4747363 ppbv	98
100)	1,2-DIBROMO-3-CHLOROPR...	15.067	157	3460408	107.7762745 ppbv	99
101)	1,2,4-Trichlorobenzene	15.889	180	5917973	110.4410431 ppbv	98
102)	Hexachloro-1,3-Butadiene	15.968	225	5028324	97.7878792 ppbv	97
103)	Naphthalene	16.212	128	14209970	110.0723215 ppbv	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_20.D
Acq On : 27 Apr 2024 12:41 am
Operator :
Sample : STD AMS 100.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 20 Sample Multiplier: 1
InstName : AIRMS16

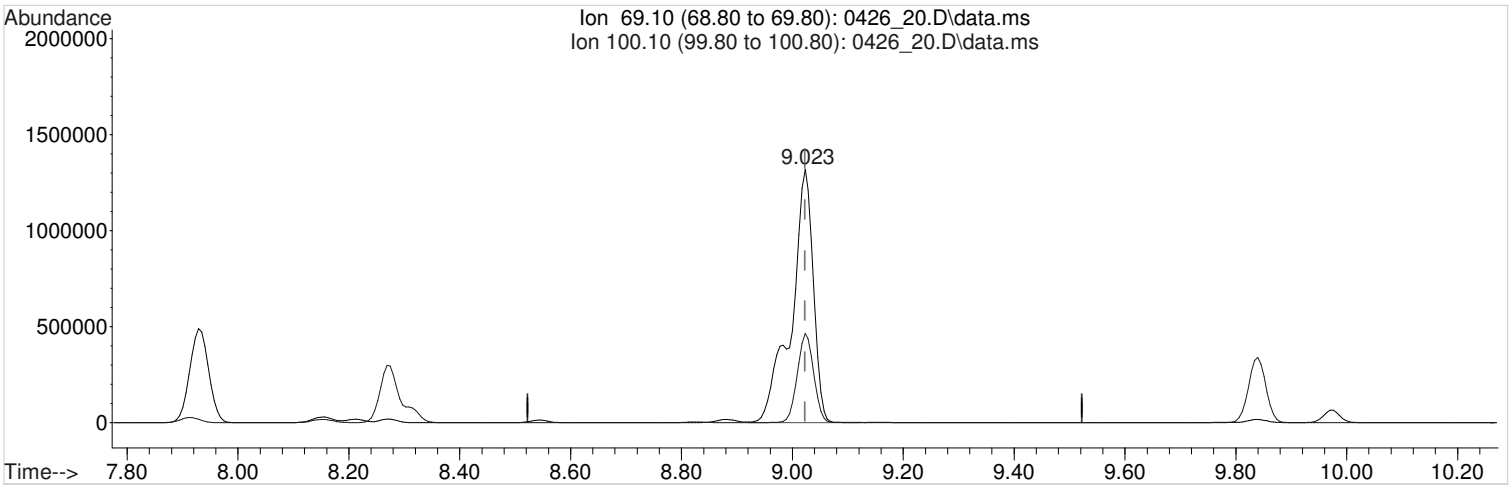
Quant Time: Apr 27 07:38:47 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:34:40 2024
Response via : Initial Calibration

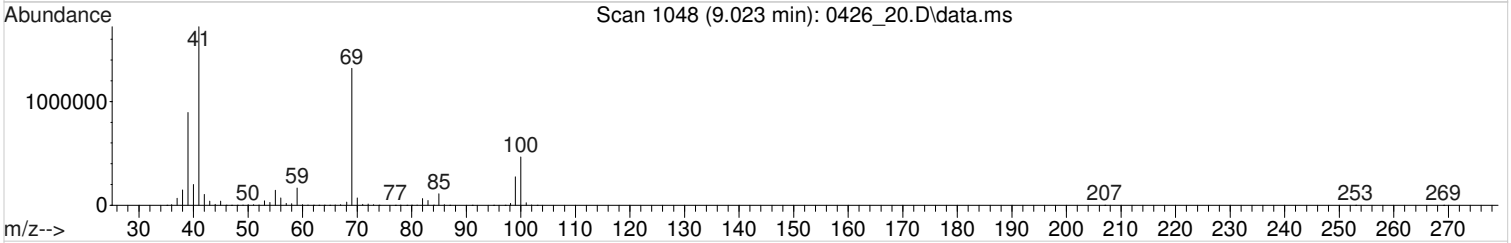


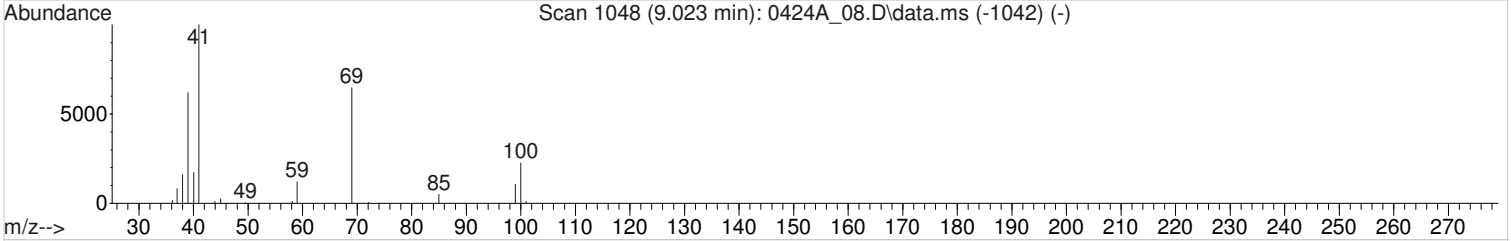
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_20.D
Acq On : 27 Apr 2024 12:41 am
Operator :
Sample : STD AMS 100.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 20 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:35:00 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:34:40 2024
Response via : Initial Calibration







TIC: 0426_20.D\data.ms

(59) Methyl Methacrylate (T,M)

9.023min (+0.000) 126.7531363 ppbv

Qvalue = 86

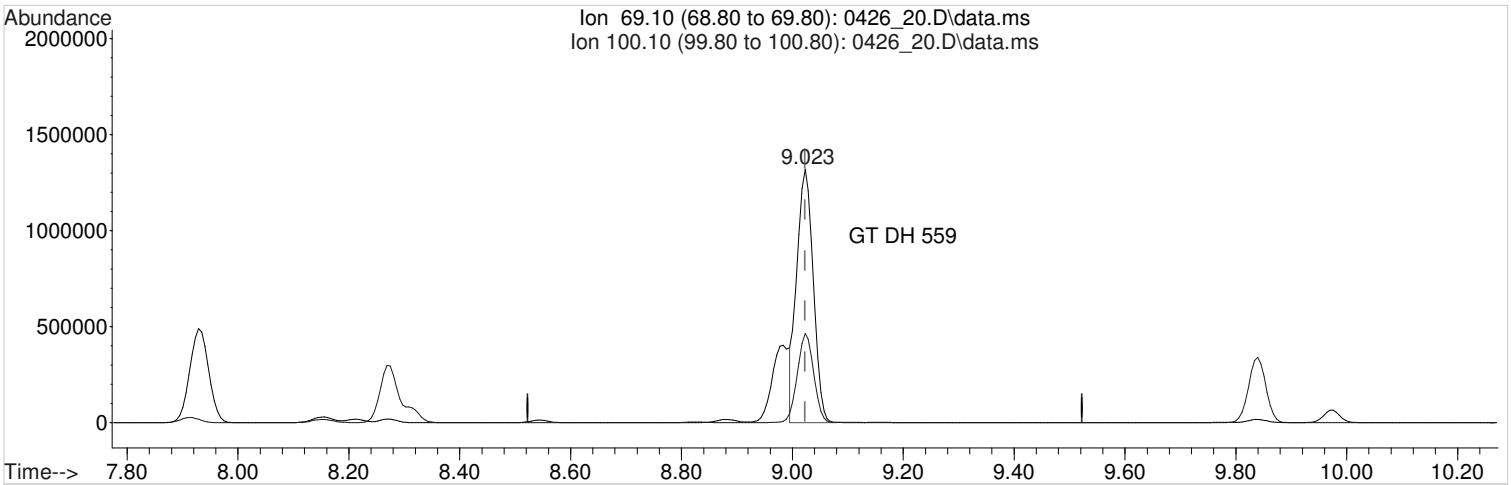
response 3625845

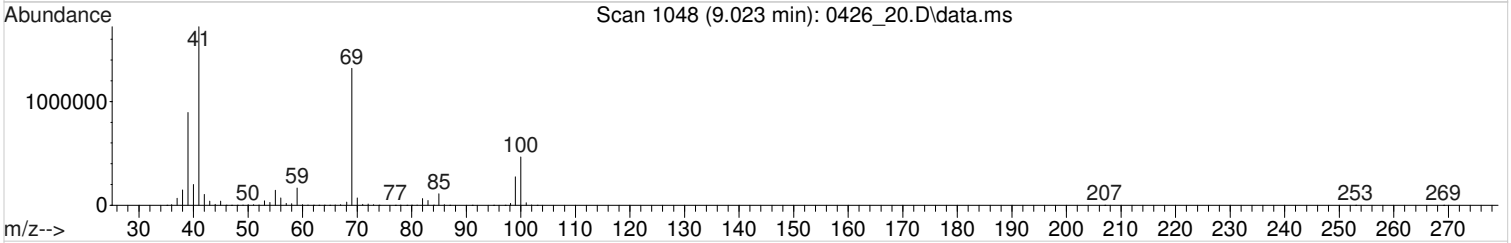
Ion	Exp%	Act%
69.10	100	100
100.10	34.10	26.27#
0.00	0.00	0.00
0.00	0.00	0.00

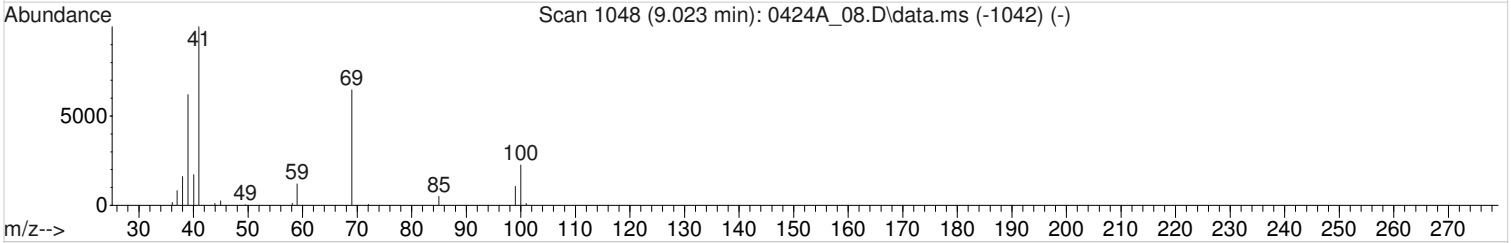
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_20.D
Acq On : 27 Apr 2024 12:41 am
Operator :
Sample : STD AMS 100.0 ppbv 24D24723
Misc : 24D22236
ALS Vial : 20 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:35:00 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:34:40 2024
Response via : Initial Calibration







TIC: 0426_20.D\data.ms

(59) Methyl Methacrylate (T,M)

9.023min (+0.000) 95.7988440 ppbv m

response 2740380

Ion	Exp%	Act%
69.10	100	100
100.10	34.10	34.75
0.00	0.00	0.00
0.00	0.00	0.00

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1731355	**Calibration (begin) date/time:**	04/26/24 16:58
Instrument ID:	AIRMS8	**Calibration (end) date/time:**	04/26/24 21:35
Lab File ID:	0426B_14	**Analysis date/time:**	04/26/24 22:39
Analytical Method:	TO-15	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	0.643602	0.67757760		5.28		10	10.53	105	60 - 140
1,1,2,2-TETRACHLOROETHANE	0.238911	0.26901890		12.60		10	11.26	113	60 - 140
1,1,2-TRICHLOROETHANE	0.088969	0.09316916		4.72		10	10.47	105	60 - 140
1,1,2-TRICHLOROTRIFLUOROETHANE	0.623424	0.65513110		5.09		10	10.51	105	60 - 140
1,1-DICHLOROETHANE	0.479019	0.50806550		6.06		10	10.61	106	60 - 140
1,1-DICHLOROETHENE	0.463120	0.49950530		7.86		10	10.79	108	60 - 140
1,2,4-TRIMETHYLBENZENE	0.416777	0.48788060		17.10		10	11.71	117	60 - 140
1,2-DIBROMOETHANE	0.134105	0.14689940		9.54		10	10.95	110	60 - 140
1,2-DICHLOROBENZENE	0.326816	0.36134270		10.60		10	11.06	111	60 - 140
1,2-DICHLOROETHANE	0.111939	0.09706140		13.30		10	8.671	86.70	60 - 140
1,2-DICHLOROPROPANE	0.081549	0.07355256		9.81		10	9.019	90.20	60 - 140
1,2-DICHLOROTETRAFLUOROETHANE	0.793486	0.856042		7.88		10	10.79	108	60 - 140
1,3,5-TRIMETHYLBENZENE	0.407915	0.47213480		15.70		10	11.57	116	60 - 140
1,3-BUTADIENE	0.210618	0.23228370		10.30		10	11.03	110	60 - 140
1,3-DICHLOROBENZENE	0.308298	0.36930110		19.80		10	11.98	120	60 - 140
1,4-DICHLOROBENZENE	0.309842	0.37404190		20.70		10	12.07	121	60 - 140
2,2,4-TRIMETHYLPENTANE	1.220419	1.229647		0.7560		10	10.08	101	60 - 140
2-BUTANONE (MEK)	0.131219	0.13094780		0.2070		10	9.979	99.80	60 - 140
2-PROPANOL	0.430003	0.53738090		25		10	12.50	125	60 - 140
4-ETHYLTOLUENE	0.449988	0.57370160		27.50		10	12.75	128	60 - 140
4-METHYL-2-PENTANONE (MIBK)	0.191123	0.18833810		1.46		10	9.854	98.50	60 - 140
ACETONE	0.180610	0.16374140		9.34		10	9.066	90.70	60 - 140
BENZENE	0.236912	0.21563870		8.98		10	9.102	91	60 - 140
BENZYL CHLORIDE	0.293248	0.39346480		34.20		10	13.42	134	60 - 140
BROMODICHLOROMETHANE	0.176469	0.17758930		0.6350		10	10.06	101	60 - 140
BROMOFORM	0.241829	0.25973760		7.41		10	10.74	107	60 - 140
BROMOMETHANE	0.277812	0.29319850		5.54		10	10.55	106	60 - 140
CARBON DISULFIDE	0.749389	0.79773350		6.45		10	10.65	106	60 - 140
CARBON TETRACHLORIDE	0.708397	0.71326520		0.6870		10	10.07	101	60 - 140
CHLOROBENZENE	0.229297	0.20313460		11.40		10	8.859	88.60	60 - 140
CHLORODIBROMOMETHANE	0.171323	0.17817670		4		10	10.40	104	60 - 140
CHLOROETHANE	0.148640	0.16395060		10.30		10	11.03	110	60 - 140
CHLOROFORM	0.625352	0.57506480		8.04		10	9.196	92	60 - 140
CHLOROMETHANE	0.224471	0.24359840		8.52		10	10.85	109	60 - 140
CIS-1,2-DICHLOROETHENE	0.331709	0.37049270		11.70		10	11.17	112	60 - 140
CIS-1,3-DICHLOROPROPENE	0.106911	0.11584150		8.35		10	10.84	108	60 - 140
CYCLOHEXANE	0.344004	0.35391290		2.88		10	10.29	103	60 - 140
DICHLORODIFLUOROMETHANE	0.833441	0.88899250		6.67		10	10.67	107	60 - 140
ETHYL ACETATE	1.130112	1.102404		2.45		10	9.755	97.50	60 - 140
ETHYLBENZENE	0.396154	0.40677090		2.68		10	10.27	103	60 - 140
HEPTANE	0.110142	0.10826270		1.71		10	9.829	98.30	60 - 140
HEXACHLORO-1,3-BUTADIENE	0.558986	0.48872910		12.60		10	8.743	87.40	60 - 140
ISOPROPYLBENZENE	0.518461	0.49574760		4.38		10	9.562	95.60	60 - 140
M&P-XYLENE	0.331480	0.35039670		5.71		20	21.14	106	60 - 140
METHYL BUTYL KETONE	0.100507	0.12271630		22.10		10	12.21	122	60 - 140
METHYL METHACRYLATE	0.071154	0.08379167		17.80		10	11.78	118	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1731355	**Calibration (begin) date/time:**	04/26/24 16:58
Instrument ID:	AIRMS8	**Calibration (end) date/time:**	04/26/24 21:35
Lab File ID:	0426B_14	**Analysis date/time:**	04/26/24 22:39
Analytical Method:	TO-15	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
METHYL TERT-BUTYL ETHER	0.766966	0.727596		5.13		10	9.487	94.90	60 - 140
METHYLENE CHLORIDE	0.299767	0.27486650		8.31		10	9.169	91.70	60 - 140
N-HEXANE	0.363825	0.37602810		3.35		10	10.34	103	60 - 140
O-XYLENE	0.323884	0.34387910		6.17		10	10.62	106	60 - 140
PROPENE	0.194874	0.21608730		10.90		10	11.09	111	60 - 140
STYRENE	0.222398	0.285905		28.60		10	12.86	129	60 - 140
TETRACHLOROETHENE	0.170471	0.15032770		11.80		10	8.818	88.20	60 - 140
TETRAHYDROFURAN	0.230193	0.23638940		2.69		10	10.27	103	60 - 140
TOLUENE	0.254161	0.25050650		1.44		10	9.856	98.60	60 - 140
TRANS-1,2-DICHLOROETHENE	0.373446	0.40088920		7.35		10	10.73	107	60 - 140
TRANS-1,3-DICHLOROPROPENE	0.092525	0.10528930		13.80		10	11.38	114	60 - 140
TRICHLOROETHENE	0.109463	0.09692656		11.50		10	8.855	88.50	60 - 140
TRICHLOROFLUOROMETHANE	0.864171	0.89859880		3.98		10	10.40	104	60 - 140
VINYL ACETATE	0.607714	0.60272410		0.8210		10	9.918	99.20	60 - 140
VINYL BROMIDE	0.289658	0.30431280		5.06		10	10.51	105	60 - 140
VINYL CHLORIDE	0.275338	0.30373750		10.30		10	11.03	110	60 - 140
XYLENES, TOTAL	0	0.34822420		0		30	31.76	106	60 - 140
1,4-BROMOFLUOROBENZENE	0.675309	0.68343440		1.20		4	4.048	101	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_14.D
Acq On : 26 Apr 2024 10:39 pm
Operator :
Sample : SSCV AMS 10.0 ppbv 24D26996
Misc : 24D25866
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 27 10:43:24 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.214	130	45887	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	4.185	114	175015	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	6.410	117	135757	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	7.189	95	92781	4.0481288	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 101.20%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	5.430	TIC	15922986m	403.7946935	ppbv	
3) TPH-GRO (C5-C10)	5.430	TIC	18466698m	644.6480439	ppbv	
4) THC as Gas (C4-C12)	5.430	TIC	25456924m	840.9583248	ppbv	
5) Propene	1.572	41	24789	11.0885713	ppbv	95
6) BUTANE	1.758	43	50056	11.0415986	ppbv	100
7) 1,1-DIFLUOROETHANE	1.549	65	21965	10.6631347	ppbv	98
8) Dichlorodifluoromethane	1.591	85	101983	10.6665382	ppbv	98
9) CHLORODIFLUOROMETHANE	1.561	67	9581	10.6919343	ppbv	85
10) 1,2-Dichlorotetrafluor...	1.667	85	98203	10.7883742	ppbv	98
11) Chloromethane	1.637	50	27945	10.8521252	ppbv	98
12) Vinyl Chloride	1.701	62	34844	11.0314242	ppbv	99
13) 1,3-Butadiene	1.743	54	26647	11.0286839	ppbv	94
14) Bromomethane	1.822	94	33635	10.5538391	ppbv	96
15) Chloroethane	1.876	64	18808	11.0300632	ppbv	100
16) ISOPENTANE	2.251	41	31443	10.6568306	ppbv	99
17) Vinyl Bromide	1.986	106	34910	10.5059265	ppbv	97
18) Trichlorofluoromethane	2.126	101	103085	10.3983872	ppbv	98
19) PENTANE	2.251	43	56730	10.5964477	ppbv	98
21) ACROLEIN	2.020	56	15603	11.2402985	ppbv	96
22) 1,1,2-Trichlorotrifluo...	2.486	101	75155	10.5086031	ppbv	98
23) 1,1-Dichloroethene	2.346	61	57302	10.7856624	ppbv	97
24) Acetone	2.065	58	18784	9.0660338	ppbv	88
25) BROMOETHANE	2.334	108	33584	10.7587648	ppbv	94
26) 2-Propanol	2.149	45	61647	12.4971497	ppbv	91
27) Carbon Disulfide	2.486	76	91514	10.6451218	ppbv	98
28) Allyl Chloride	2.429	41	40467	10.8398043	ppbv	99
29) METHYL ACETATE	2.380	43	69413	10.9779011	ppbv #	99
30) ACETONITRILE	1.978	41	129548	55.1462199	ppbv	99
31) Methylene Chloride	2.388	49	31532	9.1693453	ppbv #	100
32) TERT-BUTYL ALCOHOL	2.365	59	73416	9.5049260	ppbv	98
33) Methyl Tert-Butyl Ether	2.820	73	83468	9.4866819	ppbv	100
34) Trans-1,2-Dichloroethene	2.714	61	45989	10.7348738	ppbv	96
35) ACRYLONITRILE	2.221	53	29691	11.8361343	ppbv	96
36) n-Hexane	3.260	57	43137	10.3354049	ppbv	94
37) 1,1-Dichloroethane	2.786	63	58284	10.6063716	ppbv	100
38) Vinyl Acetate	2.858	43	69143	9.9178863	ppbv #	100
39) DI-ISOPROPYL ETHER	3.264	45	94851	10.1393407	ppbv	99
40) ETHYL TERT-BUTYL ETHER	3.521	59	100229	11.8146224	ppbv	99
41) ETHYL ACETATE	3.267	43	126465	9.7548225	ppbv	100
42) 2-Butanone (MEK)	2.953	72	15022	9.9793390	ppbv	99

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_14.D
Acq On : 26 Apr 2024 10:39 pm
Operator :
Sample : SSCV AMS 10.0 ppbv 24D26996
Misc : 24D25866
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 27 10:43:24 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) cis-1,2-Dichloroethene	3.138	61	42502	11.1691991 ppbv	97
44) Tetrahydrofuran	3.465	42	27118	10.2691960 ppbv	96
45) Chloroform	3.279	83	65970	9.1958557 ppbv	99
46) Cyclohexane	4.117	84	40600	10.2880477 ppbv	98
47) 1,1,1-Trichloroethane	3.749	97	77730	10.5278936 ppbv	99
48) Carbon Tetrachloride	4.052	117	81824	10.0687167 ppbv	97
49) 2,2,4-Trimethylpentane	4.576	57	141062	10.0756078 ppbv	98
51) Benzene	3.977	78	94350	9.1020646 ppbv	98
52) TERT-AMYL METHYL ETHER	4.318	73	93968	10.4110259 ppbv	97
53) 1,2-Dichloroethane	3.624	62	42468	8.6708826 ppbv	97
54) Heptane	4.731	43	47369	9.8293566 ppbv	98
55) Trichloroethene	4.530	95	42409	8.8546990 ppbv	99
56) TERT-AMYL ETHYL ETHER	5.039	73	27441	11.0663304 ppbv	93
57) METHYL CYCLOHEXANE	5.036	83	59577	11.6283807 ppbv	91
58) 1,2-Dichloropropane	4.397	63	32182	9.0194722 ppbv	97
59) Methyl Methacrylate	4.678	69	36662	11.7760403 ppbv	98
60) 1,4-Dioxane	4.542	88	20889	10.2773402 ppbv #	84
61) Bromodichloromethane	4.500	83	77702	10.0635007 ppbv	98
62) cis-1,3-Dichloropropene	4.997	75	50685	10.8353076 ppbv	96
63) 4-Methyl-2-Pentanone (...	5.039	43	82405	9.8542857 ppbv	98
64) n-OCTANE	6.081	43	65376	12.1516569 ppbv	98
65) Toluene	5.505	91	109606	9.8562172 ppbv	99
66) trans-1,3-Dichloropropene	5.283	75	46068	11.3795458 ppbv	97
67) 1,1,2-Trichloroethane	5.358	97	40765	10.4721336 ppbv	98
68) Tetrachloroethene	6.090	166	65774	8.8183607 ppbv	98
69) Methyl Butyl Ketone	5.683	43	53693	12.2097593 ppbv	99
70) Chlorodibromomethane	5.705	129	77959	10.4000709 ppbv	98
71) 1,2-Dibromoethane	5.827	107	64274	10.9540915 ppbv	97
72) Chlorobenzene	6.428	112	88879	8.8590333 ppbv	99
73) NONANE	7.133	43	72511	12.7419737 ppbv	99
75) Ethylbenzene	6.638	91	138055	10.2680027 ppbv	100
76) M&P-Xylene	6.729	91	237844	21.1413334 ppbv	100
77) O-Xylene	6.960	91	116710	10.6173687 ppbv	98
80) Styrene	6.910	104	97034	12.8555292 ppbv	99
81) Bromoform	6.729	173	88153	10.7405543 ppbv	97
82) Isopropylbenzene	7.273	105	168253	9.5619023 ppbv	99
83) n-DECANE	7.990	43	79620	10.9077769 ppbv	95
84) 1,1,2,2-Tetrachloroethane	6.954	83	91303	11.2602050 ppbv	99
85) n-Propylbenzene	7.540	91	227508	12.3692802 ppbv	99
86) 4-Ethyltoluene	7.621	105	194710	12.7492526 ppbv	99
87) 2-Chlorotoluene	7.499	91	130117	11.6241702 ppbv	99
89) 1,3,5-Trimethylbenzene	7.665	105	160239	11.5743470 ppbv	98
90) tert-Butylbenzene	7.878	119	182544	11.7724949 ppbv	98
91) 1,2,4-Trimethylbenzene	7.881	105	165583	11.7060325 ppbv	98
92) sec-Butylbenzene	8.031	105	243831	11.1238222 ppbv	99
93) 1,3-Dichlorobenzene	7.943	146	125338	11.9787042 ppbv	98
94) P-ISOPROPYLTOLUENE	8.131	119	233229	10.0970994 ppbv	98
95) 1,4-Dichlorobenzene	7.981	146	126947	12.0720129 ppbv	99
96) 1,2,3-TRIMETHYLBENZENE	8.112	105	171988	10.3112336 ppbv #	84
97) Benzyl Chloride	7.940	91	133539	13.4174957 ppbv	97

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_14.D
Acq On : 26 Apr 2024 10:39 pm
Operator :
Sample : SSCV AMS 10.0 ppbv 24D26996
Misc : 24D25866
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 27 10:43:24 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

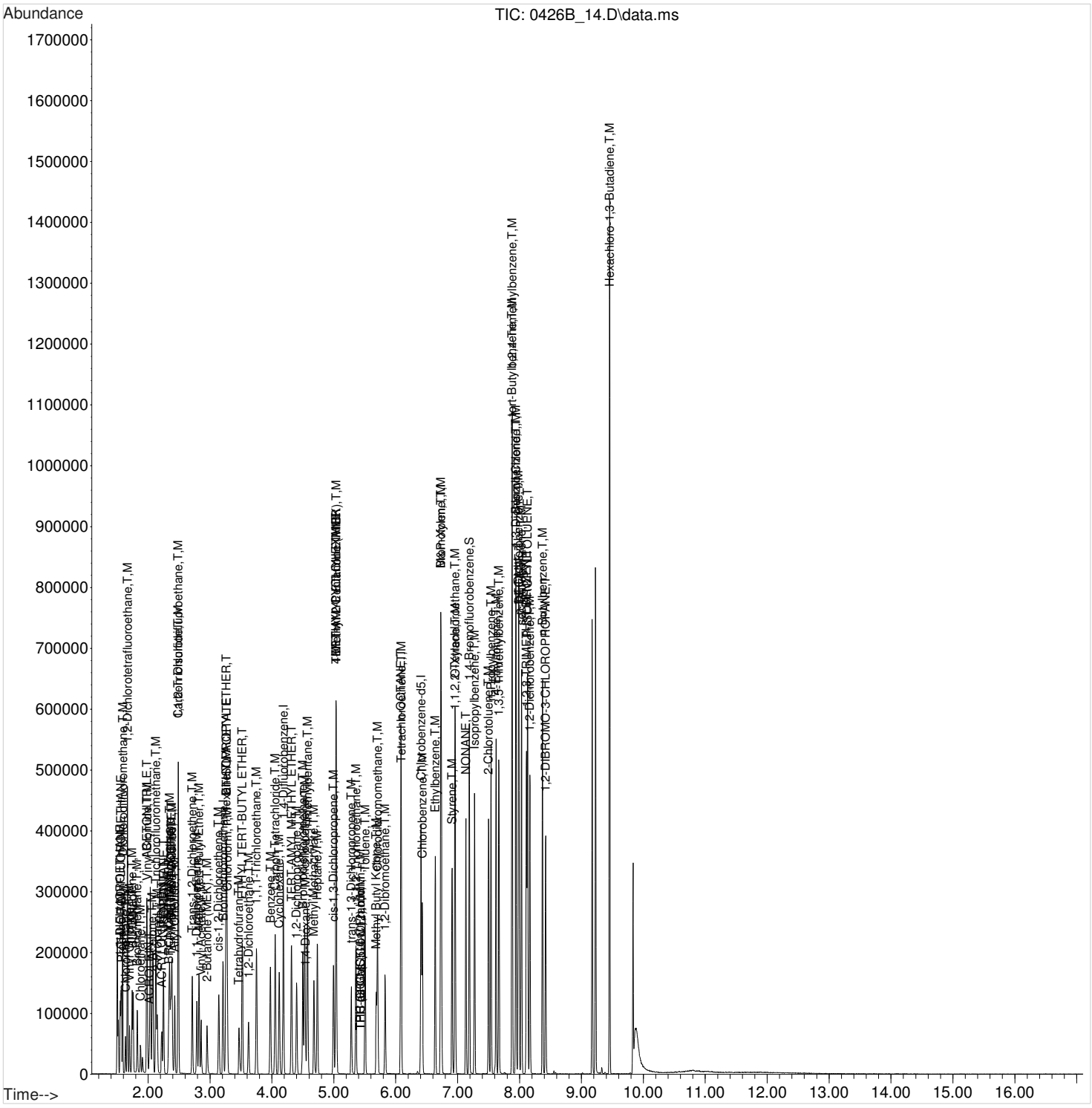
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
98) n-Butylbenzene	8.372	91	188925	10.6230464 ppbv	97
99) 1,2-Dichlorobenzene	8.165	146	122637	11.0564547 ppbv	98
100) 1,2-DIBROMO-3-CHLOROPR...	8.422	157	69732	9.7338183 ppbv	97
102) Hexachloro-1,3-Butadiene	9.455	225	165871	8.7431435 ppbv	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\042624B\
Data File : 0426B_14.D
Acq On : 26 Apr 2024 10:39 pm
Operator :
Sample : SSCV AMS 10.0 ppbv 24D26996
Misc : 24D25866
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 27 10:43:24 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration



7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1731355	**Calibration (begin) date/time:**	04/26/24 16:58
Instrument ID:	AIRMS8	**Calibration (end) date/time:**	04/26/24 21:35
Lab File ID:	0502_01	**Analysis date/time:**	05/02/24 08:15
Analytical Method:	TO-15	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	0.643602	0.64948050		0.9130		3.75	3.784	101	70 - 130
1,1,2,2-TETRACHLOROETHANE	0.238911	0.24288140		1.66		3.75	3.812	102	70 - 130
1,1,2-TRICHLOROETHANE	0.088969	0.08651562		2.76		3.75	3.647	97.30	70 - 130
1,1,2-TRICHLOROTRIFLUOROETHANE	0.623424	0.60616440		2.77		3.75	3.646	97.20	70 - 130
1,1-DICHLOROETHANE	0.479019	0.48916970		2.12		3.75	3.829	102	70 - 130
1,1-DICHLOROETHENE	0.463120	0.48019340		3.69		3.75	3.888	104	70 - 130
1,2,4-TRIMETHYLBENZENE	0.416777	0.42410810		1.76		3.75	3.816	102	70 - 130
1,2-DIBROMOETHANE	0.134105	0.13524910		0.8530		3.75	3.782	101	70 - 130
1,2-DICHLOROBENZENE	0.326816	0.334212		2.26		3.75	3.835	102	70 - 130
1,2-DICHLOROETHANE	0.111939	0.11102930		0.8130		3.75	3.720	99.20	70 - 130
1,2-DICHLOROPROPANE	0.081549	0.07973155		2.23		3.75	3.666	97.80	70 - 130
1,2-DICHLOROTETRAFLUOROETHANE	0.793486	0.78475360		1.10		3.75	3.709	98.90	70 - 130
1,3,5-TRIMETHYLBENZENE	0.407915	0.41785510		2.44		3.75	3.841	102	70 - 130
1,3-BUTADIENE	0.210618	0.22051430		4.70		3.75	3.926	105	70 - 130
1,3-DICHLOROBENZENE	0.308298	0.34134780		10.70		3.75	4.152	111	70 - 130
1,4-DICHLOROBENZENE	0.309842	0.33929530		9.51		3.75	4.106	109	70 - 130
2,2,4-TRIMETHYLPENTANE	1.220419	1.292723		5.92		3.75	3.972	106	70 - 130
2-BUTANONE (MEK)	0.131219	0.13279540		1.20		3.75	3.795	101	70 - 130
2-PROPANOL	0.430003	0.39456110		8.24		3.75	3.441	91.80	70 - 130
4-ETHYLTOLUENE	0.449988	0.49562780		10.10		3.75	4.130	110	70 - 130
4-METHYL-2-PENTANONE (MIBK)	0.191123	0.17567110		8.08		3.75	3.447	91.90	70 - 130
ACETONE	0.180610	0.19778040		9.51		3.75	4.107	110	70 - 130
BENZENE	0.236912	0.22977650		3.01		3.75	3.637	97	70 - 130
BENZYL CHLORIDE	0.293248	0.30188030		2.94		3.75	3.860	103	70 - 130
BROMODICHLOROMETHANE	0.176469	0.17392460		1.44		3.75	3.696	98.60	70 - 130
BROMOFORM	0.241829	0.24053460		0.5350		3.75	3.730	99.50	70 - 130
BROMOMETHANE	0.277812	0.26176560		5.78		3.75	3.533	94.20	70 - 130
CARBON DISULFIDE	0.749389	0.79368630		5.91		3.75	3.972	106	70 - 130
CARBON TETRACHLORIDE	0.708397	0.70840170		0.000665		3.75	3.750	100	70 - 130
CHLOROBENZENE	0.229297	0.21586830		5.86		3.75	3.530	94.10	70 - 130
CHLORODIBROMOMETHANE	0.171323	0.16972280		0.9340		3.75	3.715	99.10	70 - 130
CHLOROETHANE	0.148640	0.15709420		5.69		3.75	3.963	106	70 - 130
CHLOROFORM	0.625352	0.64695920		3.46		3.75	3.880	103	70 - 130
CHLOROMETHANE	0.224471	0.23027290		2.58		3.75	3.847	103	70 - 130
CIS-1,2-DICHLOROETHENE	0.331709	0.34498560		4		3.75	3.900	104	70 - 130
CIS-1,3-DICHLOROPROPENE	0.106911	0.09486747		11.30		3.75	3.328	88.70	70 - 130
CYCLOHEXANE	0.344004	0.334488		2.77		3.75	3.646	97.20	70 - 130
DICHLORODIFLUOROMETHANE	0.833441	0.846022		1.51		3.75	3.807	102	70 - 130
ETHYL ACETATE	1.130112	1.218719		7.84		3.75	4.044	108	70 - 130
ETHYLBENZENE	0.396154	0.38316930		3.28		3.75	3.627	96.70	70 - 130
HEPTANE	0.110142	0.11426290		3.74		3.75	3.890	104	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.558986	0.46186160		17.40		3.75	3.098	82.60	70 - 130
ISOPROPYLBENZENE	0.518461	0.52390610		1.05		3.75	3.789	101	70 - 130
M&P-XYLENE	0.331480	0.34753090		4.84		7.50	7.863	105	70 - 130
METHYL BUTYL KETONE	0.100507	0.07169096		28.70		3.75	2.675	71.30	70 - 130
METHYL METHACRYLATE	0.071154	0.06492418		8.76		3.75	3.422	91.30	70 - 130

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1731355	**Calibration (begin) date/time:**	04/26/24 16:58
Instrument ID:	AIRMS8	**Calibration (end) date/time:**	04/26/24 21:35
Lab File ID:	0502_01	**Analysis date/time:**	05/02/24 08:15
Analytical Method:	TO-15	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
METHYL TERT-BUTYL ETHER	0.766966	0.796903		3.90		3.75	3.896	104	70 - 130
METHYLENE CHLORIDE	0.299767	0.339965		13.40		3.75	4.253	113	70 - 130
N-HEXANE	0.363825	0.37810830		3.93		3.75	3.897	104	70 - 130
O-XYLENE	0.323884	0.34721820		7.20		3.75	4.020	107	70 - 130
PROPENE	0.194874	0.21012540		7.83		3.75	4.043	108	70 - 130
STYRENE	0.222398	0.22121650		0.5310		3.75	3.730	99.50	70 - 130
TETRACHLOROETHENE	0.170471	0.16567080		2.82		3.75	3.644	97.20	70 - 130
TETRAHYDROFURAN	0.230193	0.25100730		9.04		3.75	4.089	109	70 - 130
TOLUENE	0.254161	0.24938520		1.88		3.75	3.680	98.10	70 - 130
TRANS-1,2-DICHLOROETHENE	0.373446	0.39234420		5.06		3.75	3.940	105	70 - 130
TRANS-1,3-DICHLOROPROPENE	0.092525	0.09451011		2.15		3.75	3.830	102	70 - 130
TRICHLOROETHENE	0.109463	0.10939240		0.0645		3.75	3.748	99.90	70 - 130
TRICHLOROFLUOROMETHANE	0.864171	0.87225510		0.9350		3.75	3.785	101	70 - 130
VINYL ACETATE	0.607714	0.60303470		0.77		3.75	3.721	99.20	70 - 130
VINYL BROMIDE	0.289658	0.27960940		3.47		3.75	3.620	96.50	70 - 130
VINYL CHLORIDE	0.275338	0.28063090		1.92		3.75	3.822	102	70 - 130
XYLENES, TOTAL		0.34742670		0		11.25	11.883	106	70 - 130
1,4-BROMOFLUOROBENZENE	0.675309	0.68493830		1.43		4	4.057	101	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_01.D
Acq On : 02 May 2024 08:15 am
Operator :
Sample : ICV AMS 3.75 ppbv 24D26988
Misc : 24D25866
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 10:13:41 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.222	130	49078	4.0000000	ppbv	0.01
50) 1,4-Difluorobenzene	4.189	114	185061	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	6.410	117	144997	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	7.186	95	99314	4.0570369	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 101.43%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	5.430	TIC	7118878m	168.7914536	ppbv	
3) TPH-GRO (C5-C10)	5.430	TIC	8258717m	269.5558837	ppbv	
4) THC as Gas (C4-C12)	5.430	TIC	10962195m	338.5859092	ppbv	
5) Propene	1.576	41	9668	4.0434869	ppbv	97
6) BUTANE	1.766	43	19706	4.0642190	ppbv	100
7) 1,1-DIFLUOROETHANE	1.553	65	8386	3.8063731	ppbv	92
8) Dichlorodifluoromethane	1.595	85	38926	3.8066092	ppbv	99
9) CHLORODIFLUOROMETHANE	1.565	67	3998	4.1714884	ppbv	98
10) 1,2-Dichlorotetrafluor...	1.675	85	36107	3.7087321	ppbv	93
11) Chloromethane	1.644	50	10595	3.8469315	ppbv	95
12) Vinyl Chloride	1.709	62	12912	3.8220812	ppbv	100
13) 1,3-Butadiene	1.751	54	10146	3.9262056	ppbv	97
14) Bromomethane	1.834	94	12044	3.5333983	ppbv	99
15) Chloroethane	1.887	64	7228	3.9632945	ppbv	97
16) ISOPENTANE	2.263	41	12855	4.0736056	ppbv	94
17) Vinyl Bromide	1.997	106	12865	3.6199045	ppbv	100
18) Trichlorofluoromethane	2.137	101	40133	3.7850790	ppbv	100
19) PENTANE	2.263	43	22114	3.8620477	ppbv	100
21) ACROLEIN	2.031	56	5419	3.6499902	ppbv	99
22) 1,1,2-Trichlorotrifluo...	2.498	101	27890	3.6461828	ppbv	95
23) 1,1-Dichloroethene	2.361	61	22094	3.8882502	ppbv	97
24) Acetone	2.077	58	9100	4.1065154	ppbv	97
25) BROMOETHANE	2.346	108	12219	3.6598936	ppbv	96
26) 2-Propanol	2.160	45	18154	3.4409167	ppbv	94
27) Carbon Disulfide	2.501	76	36518	3.9716676	ppbv	96
28) Allyl Chloride	2.445	41	16260	4.0723377	ppbv	95
29) METHYL ACETATE	2.395	43	26213	3.8761273	ppbv #	96
30) ACETONITRILE	1.989	41	44778	17.8218399	ppbv	94
31) Methylene Chloride	2.399	49	15642	4.2528680	ppbv #	100
32) TERT-BUTYL ALCOHOL	2.384	59	32159	3.8928114	ppbv	98
33) Methyl Tert-Butyl Ether	2.835	73	36666	3.8963743	ppbv	99
34) Trans-1,2-Dichloroethene	2.725	61	18052	3.9397722	ppbv	93
35) ACRYLONITRILE	2.232	53	9701	3.6157998	ppbv	98
36) n-Hexane	3.267	57	17397	3.8972183	ppbv	91
37) 1,1-Dichloroethane	2.801	63	22507	3.8294633	ppbv	100
38) Vinyl Acetate	2.869	43	27746	3.7211236	ppbv #	100
39) DI-ISOPROPYL ETHER	3.275	45	39988	3.9966885	ppbv	94
40) ETHYL TERT-BUTYL ETHER	3.533	59	36922	4.0692510	ppbv	97
41) ETHYL ACETATE	3.279	43	56074	4.0440207	ppbv	96
42) 2-Butanone (MEK)	2.968	72	6110	3.7950547	ppbv	97

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_01.D
Acq On : 02 May 2024 08:15 am
Operator :
Sample : ICV AMS 3.75 ppbv 24D26988
Misc : 24D25866
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 10:13:41 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) cis-1,2-Dichloroethene	3.150	61	15873	3.9000887 ppbv	94
44) Tetrahydrofuran	3.480	42	11549	4.0890835 ppbv	97
45) Chloroform	3.286	83	29767	3.8795695 ppbv	98
46) Cyclohexane	4.125	84	15390	3.6462661 ppbv	94
47) 1,1,1-Trichloroethane	3.757	97	29883	3.7842500 ppbv	98
48) Carbon Tetrachloride	4.060	117	32594	3.7500226 ppbv	98
49) 2,2,4-Trimethylpentane	4.580	57	59479	3.9721687 ppbv	98
51) Benzene	3.980	78	39865	3.6370573 ppbv	99
52) TERT-AMYL METHYL ETHER	4.322	73	33731	3.5342977 ppbv	99
53) 1,2-Dichloroethane	3.632	62	19263	3.7195105 ppbv	96
54) Heptane	4.735	43	19824	3.8902950 ppbv	95
55) Trichloroethene	4.534	95	18979	3.7475675 ppbv	93
56) TERT-AMYL ETHYL ETHER	5.039	73	9975	3.8043194 ppbv	94
57) METHYL CYCLOHEXANE	5.039	83	21024	3.8807559 ppbv	92
58) 1,2-Dichloropropane	4.401	63	13833	3.6664421 ppbv	95
59) Methyl Methacrylate	4.682	69	11264	3.4216544 ppbv	99
60) 1,4-Dioxane	4.553	88	6647	3.0927807 ppbv #	89
61) Bromodichloromethane	4.504	83	30175	3.6959367 ppbv	98
62) cis-1,3-Dichloropropene	4.997	75	16459	3.3275578 ppbv	97
63) 4-Methyl-2-Pentanone (...	5.042	43	30478	3.4468185 ppbv	95
64) n-OCTANE	6.081	43	20609	3.6227173 ppbv	98
65) Toluene	5.508	91	43267	3.6795363 ppbv	99
66) trans-1,3-Dichloropropene	5.283	75	16397	3.8304547 ppbv	96
67) 1,1,2-Trichloroethane	5.358	97	15010	3.6466055 ppbv	95
68) Tetrachloroethene	6.090	166	28743	3.6444003 ppbv	97
69) Methyl Butyl Ketone	5.690	43	12438	2.6748557 ppbv	98
70) Chlorodibromomethane	5.709	129	29446	3.7149820 ppbv	100
71) 1,2-Dibromoethane	5.828	107	23465	3.7820038 ppbv	95
72) Chlorobenzene	6.432	112	37452	3.5303889 ppbv	94
73) NONANE	7.133	43	24437	4.0610755 ppbv	99
75) Ethylbenzene	6.638	91	52086	3.6270877 ppbv	99
76) M&P-Xylene	6.735	91	94483	7.8631591 ppbv	99
77) O-Xylene	6.961	91	47199	4.0201739 ppbv	98
80) Styrene	6.911	104	30071	3.7300711 ppbv	98
81) Bromoform	6.729	173	32697	3.7299304 ppbv	99
82) Isopropylbenzene	7.274	105	71217	3.7893819 ppbv	98
83) n-DECANE	7.990	43	29290	3.7569608 ppbv	98
84) 1,1,2,2-Tetrachloroethane	6.954	83	33016	3.8123163 ppbv	100
85) n-Propylbenzene	7.540	91	76972	3.9181742 ppbv	99
86) 4-Ethyltoluene	7.621	105	67373	4.1303378 ppbv	97
87) 2-Chlorotoluene	7.499	91	44293	3.7048125 ppbv	98
89) 1,3,5-Trimethylbenzene	7.665	105	56801	3.8413817 ppbv	99
90) tert-Butylbenzene	7.878	119	62562	3.7775897 ppbv	97
91) 1,2,4-Trimethylbenzene	7.881	105	57651	3.8159620 ppbv	99
92) sec-Butylbenzene	8.031	105	88834	3.7944388 ppbv	98
93) 1,3-Dichlorobenzene	7.943	146	46401	4.1520028 ppbv	98
94) P-ISOPROPYLTOLUENE	8.131	119	86304	3.4982289 ppbv	97
95) 1,4-Dichlorobenzene	7.981	146	46122	4.1064694 ppbv	98
96) 1,2,3-TRIMETHYLBENZENE	8.109	105	61162	3.4331863 ppbv	99
97) Benzyl Chloride	7.940	91	41036	3.8603935 ppbv	96

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_01.D
Acq On : 02 May 2024 08:15 am
Operator :
Sample : ICV AMS 3.75 ppbv 24D26988
Misc : 24D25866
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 10:13:41 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

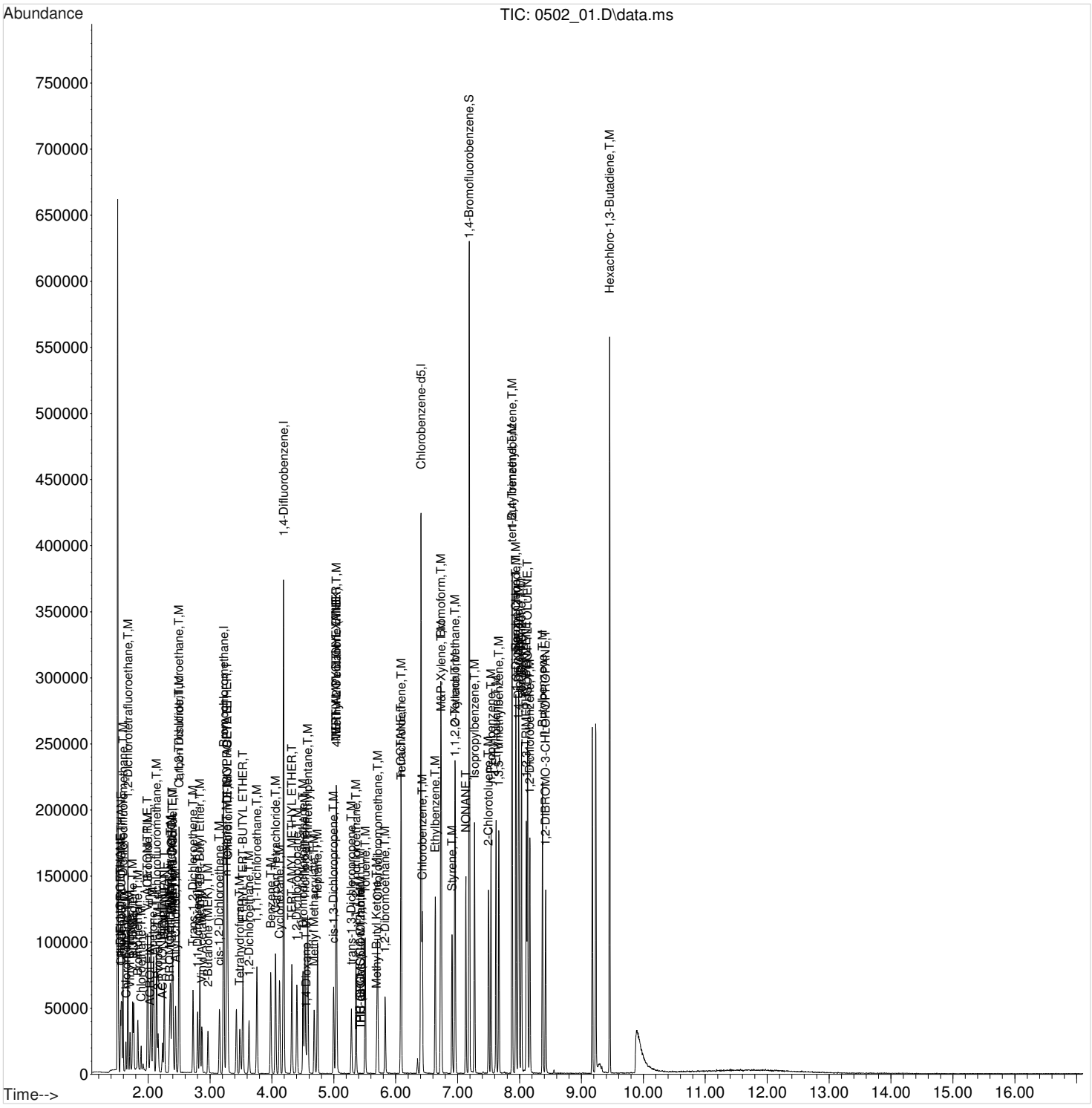
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
98) n-Butylbenzene	8.372	91	64906	3.4170215 ppbv	99
99) 1,2-Dichlorobenzene	8.166	146	45431	3.8348633 ppbv	98
100) 1,2-DIBROMO-3-CHLOROPR...	8.422	157	24394	3.1881397 ppbv	98
102) Hexachloro-1,3-Butadiene	9.455	225	62783	3.0984352 ppbv	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_01.D
Acq On : 02 May 2024 08:15 am
Operator :
Sample : ICV AMS 3.75 ppbv 24D26988
Misc : 24D25866
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 02 10:13:41 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration



7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1731355	**Calibration (begin) date/time:**	04/30/24 16:23
Instrument ID:	AIRMS13	**Calibration (end) date/time:**	04/30/24 22:51
Lab File ID:	0430A_14	**Analysis date/time:**	05/01/24 00:18
Analytical Method:	TO-15	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	0.659499	0.64731810		1.85		10	9.815	98.10	60 - 140
1,1,2,2-TETRACHLOROETHANE	0.275195	0.28890430		4.98		10	10.50	105	60 - 140
1,1,2-TRICHLOROETHANE	0.093899	0.094671		0.8220		10	10.08	101	60 - 140
1,1,2-TRICHLOROTRIFLUOROETHANE	0.676624	0.67577670		0.1250		10	9.987	99.90	60 - 140
1,1-DICHLOROETHANE	0.666433	0.67176190		0.80		10	10.08	101	60 - 140
1,1-DICHLOROETHENE	0.600975	0.60808340		1.18		10	10.12	101	60 - 140
1,2,4-TRICHLOROBENZENE	0.199703	0.225963		13.10		10	11.31	113	60 - 140
1,2,4-TRIMETHYLBENZENE	0.330931	0.40281050		21.70		10	12.17	122	60 - 140
1,2-DIBROMOETHANE	0.131375	0.13974250		6.37		10	10.64	106	60 - 140
1,2-DICHLOROBENZENE	0.224971	0.24757750		10		10	11.00	110	60 - 140
1,2-DICHLOROETHANE	0.143157	0.11946970		16.50		10	8.345	83.50	60 - 140
1,2-DICHLOROPROPANE	0.115574	0.10131960		12.30		10	8.767	87.70	60 - 140
1,2-DICHLOROTETRAFLUOROETHANE	0.821031	0.83137880		1.26		10	10.13	101	60 - 140
1,3,5-TRIMETHYLBENZENE	0.330602	0.392565		18.70		10	11.87	119	60 - 140
1,3-BUTADIENE	0.276026	0.29701590		7.60		10	10.76	108	60 - 140
1,3-DICHLOROBENZENE	0.231239	0.252978		9.40		10	10.94	109	60 - 140
1,4-DICHLOROBENZENE	0.234404	0.25786860		10		10	11.00	110	60 - 140
2,2,4-TRIMETHYLPENTANE	1.588809	1.587885		0.0582		10	9.994	99.90	60 - 140
2-BUTANONE (MEK)	0.153032	0.14750950		3.61		10	9.639	96.40	60 - 140
2-PROPANOL	0.727604	0.69953890		3.86		10	9.614	96.10	60 - 140
4-ETHYLTOLUENE	0.389081	0.46587780		19.70		10	11.97	120	60 - 140
4-METHYL-2-PENTANONE (MIBK)	0.252473	0.234622		7.07		10	9.293	92.90	60 - 140
ACETONE	0.171047	0.15071920		11.90		10	8.812	88.10	60 - 140
BENZENE	0.267278	0.24201330		9.45		10	9.055	90.60	60 - 140
BENZYL CHLORIDE	0.345428	0.37163640		7.59		10	10.76	108	60 - 140
BROMODICHLOROMETHANE	0.191005	0.19111780		0.0590		10	10.01	100	60 - 140
BROMOFORM	0.169138	0.17500160		3.47		10	10.35	104	60 - 140
BROMOMETHANE	0.323967	0.31579530		2.52		10	9.748	97.50	60 - 140
CARBON DISULFIDE	1.020840	0.97725450		4.27		10	9.573	95.70	60 - 140
CARBON TETRACHLORIDE	0.665434	0.65528450		1.53		10	9.847	98.50	60 - 140
CHLOROBENZENE	0.198345	0.16606830		16.30		10	8.373	83.70	60 - 140
CHLORODIBROMOMETHANE	0.152442	0.156292		2.53		10	10.25	103	60 - 140
CHLOROETHANE	0.179459	0.17577860		2.05		10	9.795	97.90	60 - 140
CHLOROFORM	0.758995	0.645487		15		10	8.504	85	60 - 140
CHLOROMETHANE	0.360958	0.35570610		1.45		10	9.854	98.50	60 - 140
CIS-1,2-DICHLOROETHENE	0.610244	0.63760220		4.48		10	10.45	104	60 - 140
CIS-1,3-DICHLOROPROPENE	0.148237	0.16554090		11.70		10	11.17	112	60 - 140
CYCLOHEXANE	0.341492	0.34911830		2.23		10	10.22	102	60 - 140
DICHLORODIFLUOROMETHANE	0.762059	0.70479290		7.51		10	9.249	92.50	60 - 140
ETHANOL	0.170028	0.16906710		0.5650		10	9.943	99.40	60 - 140
ETHYL ACETATE	0.086770	0.07818257		9.90		10	9.010	90.10	60 - 140
ETHYLBENZENE	0.3993	0.37700570		5.58		10	9.442	94.40	60 - 140
HEPTANE	0.081569	0.08095616		0.7510		10	9.925	99.30	60 - 140
HEXACHLORO-1,3-BUTADIENE	0.189682	0.20537640		8.27		10	10.83	108	60 - 140
ISOPROPYLBENZENE	0.366699	0.39829690		8.62		10	10.86	109	60 - 140
M&P-XYLENE	0.299853	0.30772160		2.62		20	20.52	103	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1731355	**Calibration (begin) date/time:**	04/30/24 16:23
Instrument ID:	AIRMS13	**Calibration (end) date/time:**	04/30/24 22:51
Lab File ID:	0430A_14	**Analysis date/time:**	05/01/24 00:18
Analytical Method:	TO-15	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*ppbv*	*ppbv*	*% Rec.*	*%*
METHYL BUTYL KETONE	0.211744	0.203835		3.74		10	9.626	96.30	60 - 140
METHYL METHACRYLATE	0.084439	0.09601202		13.70		10	11.37	114	60 - 140
METHYL TERT-BUTYL ETHER	0.804045	0.78699810		2.12		10	9.788	97.90	60 - 140
METHYLENE CHLORIDE	0.511841	0.42409380		17.10		10	8.286	82.90	60 - 140
N-HEXANE	0.496068	0.48243940		2.75		10	9.725	97.30	60 - 140
NAPHTHALENE	0.494177	0.50851390		2.90		10	10.29	103	60 - 140
O-XYLENE	0.285527	0.29640450		3.81		10	10.38	104	60 - 140
PROPENE	0.299731	0.31947330		6.59		10	10.66	107	60 - 140
STYRENE	0.205692	0.24560290		19.40		10	11.94	119	60 - 140
TETRACHLOROETHENE	0.104271	0.09912268		4.94		10	9.506	95.10	60 - 140
TETRAHYDROFURAN	0.459980	0.41726920		9.29		10	9.071	90.70	60 - 140
TOLUENE	0.286157	0.271201		5.23		10	9.477	94.80	60 - 140
TRANS-1,2-DICHLOROETHENE	0.517594	0.54769890		5.82		10	10.58	106	60 - 140
TRANS-1,3-DICHLOROPROPENE	0.120280	0.13261630		10.30		10	11.03	110	60 - 140
TRICHLOROETHENE	0.108769	0.09979251		8.25		10	9.175	91.80	60 - 140
TRICHLOROFLUOROMETHANE	0.879565	0.84907430		3.47		10	9.653	96.50	60 - 140
VINYL ACETATE	0.966242	0.925431		4.22		10	9.578	95.80	60 - 140
VINYL BROMIDE	0.285223	0.288184		1.04		10	10.10	101	60 - 140
VINYL CHLORIDE	0.381720	0.38892390		1.89		10	10.19	102	60 - 140
XYLENES, TOTAL	0	0.30394920		0		30	30.90	103	60 - 140
1,4-BROMOFLUOROBENZENE	0.812444	0.80807080		0.5380		4	3.978	99.40	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_14.D
Acq On : 1 May 2024 12:18 am
Operator :
Sample : SSCV AMS 10 ppbv 24D11610
Misc : 24D29341
ALS Vial : 14 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:17:25 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.439	130	152039	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	10.445	114	587014	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	13.597	117	447884	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	14.743	95	361922	3.9784675	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 99.46%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	43905576m	425.1311077	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	55023522m	629.9410561	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	81057653m	855.3321999	ppbv	
5) Propene	4.282	41	121431	10.6586675	ppbv	98
6) BUTANE	4.989	43	230484	9.2407614	ppbv	98
7) 1,1-DIFLUOROETHANE	4.300	65	79751	10.1847713	ppbv	96
8) Dichlorodifluoromethane	4.361	85	267890	9.2485317	ppbv	100
9) CHLORODIFLUOROMETHANE	4.416	67	33622	10.4098219	ppbv	80
10) 1,2-Dichlorotetrafluor...	4.647	85	316005	10.1260396	ppbv	98
11) Chloromethane	4.812	50	135203	9.8545001	ppbv	99
12) Vinyl Chloride	5.032	62	147829	10.1887147	ppbv	99
13) 1,3-Butadiene	5.099	54	112895	10.7604356	ppbv	100
14) Bromomethane	5.702	94	120033	9.7477504	ppbv	99
15) Chloroethane	5.873	64	66813	9.7948985	ppbv	96
16) ISOPENTANE	5.909	43	173370	9.7193411	ppbv	98
17) Vinyl Bromide	6.178	106	109538	10.1038033	ppbv	98
18) Trichlorofluoromethane	6.232	101	322731	9.6533385	ppbv	100
19) PENTANE	6.312	43	262787	10.0131124	ppbv	99
20) Ethanol	6.580	45	64262	9.9434802	ppbv	98
21) ACROLEIN	6.958	56	63118	9.9551782	ppbv	99
22) 1,1,2-Trichlorotrifluo...	6.927	101	256861	9.9874771	ppbv	98
23) 1,1-Dichloroethene	7.013	61	231131	10.1182874	ppbv	98
24) Acetone	7.153	58	57288	8.8115633	ppbv	99
25) BROMOETHANE	7.287	108	90370	10.2350805	ppbv	100
26) 2-Propanol	7.281	45	265893	9.6142785	ppbv	98
27) Carbon Disulfide	7.354	76	371452	9.5730432	ppbv	98
28) Allyl Chloride	7.507	76	59581	11.3071608	ppbv	87
29) METHYL ACETATE	7.513	43	303897	9.7384141	ppbv #	98
30) ACETONITRILE	7.598	41	620600	40.1044349	ppbv	99
31) Methylene Chloride	7.696	49	161197	8.2856517	ppbv	97
32) TERT-BUTYL ALCOHOL	7.775	59	261965	9.4632776	ppbv	97
33) Methyl Tert-Butyl Ether	7.927	73	299136	9.7879861	ppbv	98
34) Trans-1,2-Dichloroethene	7.970	61	208179	10.5816254	ppbv	97
35) ACRYLONITRILE	8.061	53	117378	9.9140042	ppbv	99
36) n-Hexane	8.159	57	183374	9.7252679	ppbv	97
37) 1,1-Dichloroethane	8.506	63	255335	10.0799674	ppbv	98
38) Vinyl Acetate	8.476	43	351754	9.5776308	ppbv	99
39) DI-ISOPROPYL ETHER	8.415	45	451340	9.7280538	ppbv	97
40) ETHYL TERT-BUTYL ETHER	8.817	59	427166	11.4814894	ppbv	98
41) ETHYL ACETATE	9.116	70	29717	9.0103210	ppbv	69

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_14.D
Acq On : 1 May 2024 12:18 am
Operator :
Sample : SSCV AMS 10 ppbv 24D11610
Misc : 24D29341
ALS Vial : 14 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:17:25 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone (MEK)	9.153	72	56068	9.6391146	ppbv	99
43) cis-1,2-Dichloroethene	9.159	61	242351	10.4483170	ppbv	96
44) Tetrahydrofuran	9.451	42	158603	9.0714675	ppbv	97
45) Chloroform	9.464	83	245348	8.5044994	ppbv	99
46) Cyclohexane	9.677	84	132699	10.2233168	ppbv	96
47) 1,1,1-Trichloroethane	9.677	97	246044	9.8152967	ppbv	100
48) Carbon Tetrachloride	9.823	117	249072	9.8474744	ppbv	99
49) 2,2,4-Trimethylpentane	9.982	57	603551	9.9941809	ppbv	99
51) Benzene	10.079	78	355163	9.0547285	ppbv	99
52) TERT-AMYL METHYL ETHER	10.079	73	379443	11.5577877	ppbv	99
53) 1,2-Dichloroethane	10.152	62	175326	8.3453756	ppbv	97
54) Heptane	10.140	71	118806	9.9248938	ppbv	91
55) Trichloroethene	10.744	95	146449	9.1747495	ppbv	96
56) TERT-AMYL ETHYL ETHER	10.854	73	117471	11.7291639	ppbv	98
57) METHYL CYCLOHEXANE	10.896	83	222661	11.7072839	ppbv	98
58) 1,2-Dichloropropane	11.049	63	148690	8.7666463	ppbv	87
59) Methyl Methacrylate	11.012	69	140901	11.3705869	ppbv	97
60) 1,4-Dioxane	11.140	88	69768	10.0182380	ppbv	100
61) Bromodichloromethane	11.311	83	280472	10.0059124	ppbv	100
62) cis-1,3-Dichloropropene	11.792	75	242937	11.1673037	ppbv	99
63) 4-Methyl-2-Pentanone (...	11.896	43	344316	9.2929598	ppbv	99
64) n-OCTANE	12.036	43	410309	11.4844154	ppbv	97
65) Toluene	12.140	91	397997	9.4773365	ppbv	100
66) trans-1,3-Dichloropropene	12.402	75	194619	11.0256562	ppbv	97
67) 1,1,2-Trichloroethane	12.628	97	138933	10.0822168	ppbv	98
68) Tetrachloroethene	12.731	166	145466	9.5062389	ppbv	96
69) Methyl Butyl Ketone	12.798	43	299135	9.6264733	ppbv	99
70) Chlorodibromomethane	13.042	129	229364	10.2525316	ppbv	98
71) 1,2-Dibromoethane	13.207	107	205077	10.6369213	ppbv	99
72) Chlorobenzene	13.627	112	243711	8.3726782	ppbv	96
73) NONANE	13.597	43	348568	10.4468802	ppbv	98
75) Ethylbenzene	13.652	91	422137	9.4416538	ppbv	99
76) M&P-Xylene	13.755	91	689118	20.5248498	ppbv	100
77) O-Xylene	14.170	91	331887	10.3809752	ppbv	98
80) Styrene	14.188	104	275004	11.9403401	ppbv	96
81) Bromoform	14.463	173	195951	10.3466921	ppbv	99
82) Isopropylbenzene	14.499	105	445977	10.8616830	ppbv	100
83) n-DECANE	14.914	43	372015	11.5347166	ppbv	97
84) 1,1,2,2-Tetrachloroethane	14.859	83	323489	10.4981559	ppbv	100
85) n-Propylbenzene	14.914	91	667605	11.0480674	ppbv	100
86) 4-Ethyltoluene	15.023	105	521648	11.9737997	ppbv	97
87) 2-Chlorotoluene	15.084	91	463998	10.9785491	ppbv	99
89) 1,3,5-Trimethylbenzene	15.078	105	439559	11.8742340	ppbv	97
90) tert-Butylbenzene	15.408	119	387953	12.3460789	ppbv	99
91) 1,2,4-Trimethylbenzene	15.469	105	451031	12.1720554	ppbv	99
92) sec-Butylbenzene	15.621	105	650566	12.1487842	ppbv	100
93) 1,3-Dichlorobenzene	15.822	146	283262	10.9401033	ppbv	94
94) P-ISOPROPYLTOLUENE	15.737	119	533229	12.4678968	ppbv	100
95) 1,4-Dichlorobenzene	15.907	146	288738	11.0010079	ppbv	99
96) 1,2,3-TRIMETHYLBENZENE	15.895	105	466459	12.3169622	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_14.D
Acq On : 1 May 2024 12:18 am
Operator :
Sample : SSCV AMS 10 ppbv 24D11610
Misc : 24D29341
ALS Vial : 14 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:17:25 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

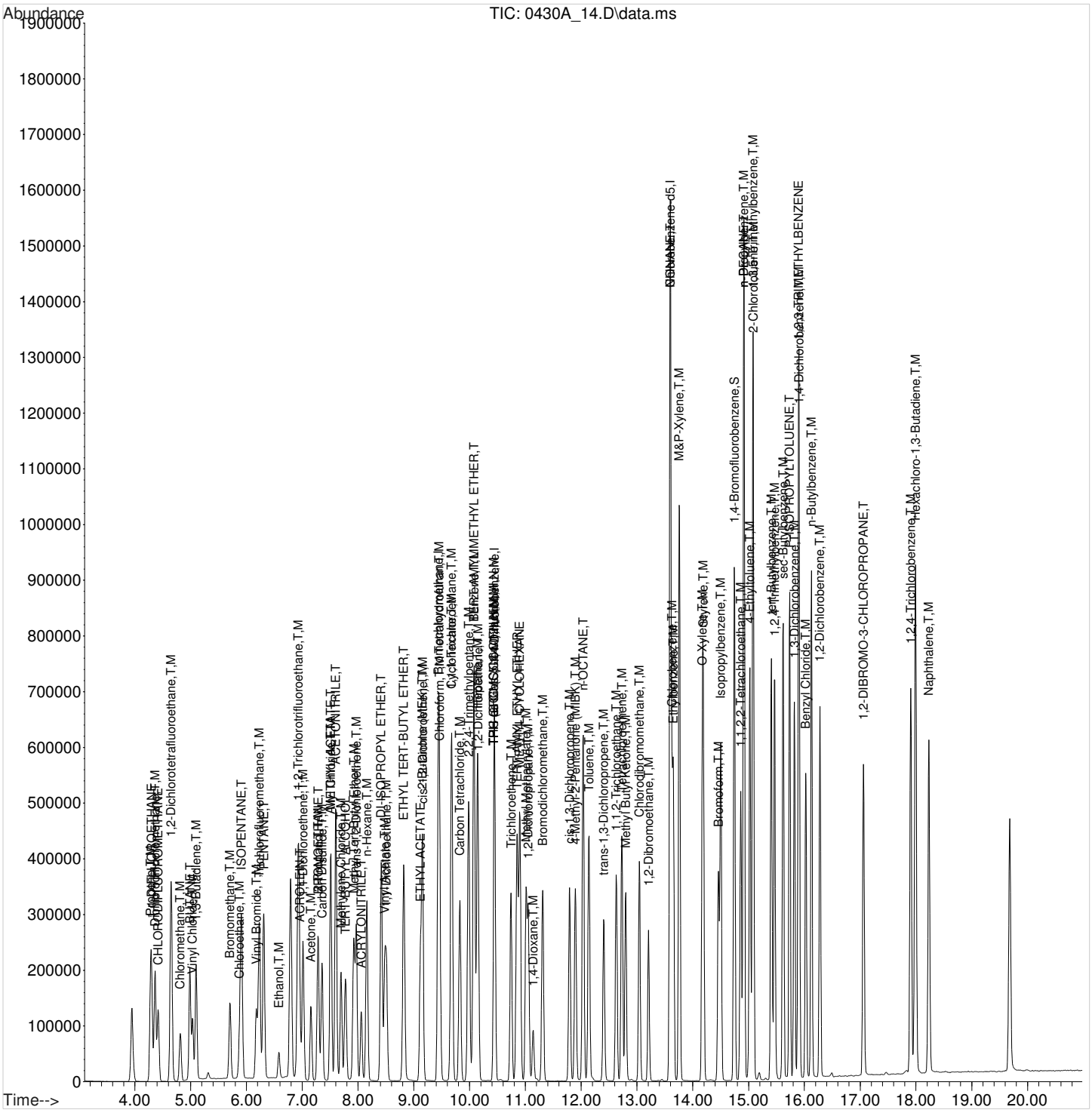
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	16.023	91	416125	10.7587367	ppbv	99
98) n-Butylbenzene	16.127	91	575108	11.7824722	ppbv	99
99) 1,2-Dichlorobenzene	16.279	146	277215	11.0048781	ppbv	99
100) 1,2-DIBROMO-3-CHLOROPR...	17.060	157	145001	10.6943695	ppbv	98
101) 1,2,4-Trichlorobenzene	17.907	180	253013	11.3149595	ppbv	98
102) Hexachloro-1,3-Butadiene	17.992	225	229962	10.8274023	ppbv	98
103) Naphthalene	18.230	128	569388	10.2901077	ppbv	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\043024A\
Data File : 0430A_14.D
Acq On : 1 May 2024 12:18 am
Operator :
Sample : SSCV AMS 10 ppbv 24D11610
Misc : 24D29341
ALS Vial : 14 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 08:17:25 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration



7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1731355	**Calibration (begin) date/time:**	04/30/24 16:23
Instrument ID:	AIRMS13	**Calibration (end) date/time:**	04/30/24 22:51
Lab File ID:	0501_01	**Analysis date/time:**	05/01/24 08:17
Analytical Method:	TO-15	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	0.659499	0.62428530		5.34		3.75	3.550	94.70	70 - 130
1,1,2,2-TETRACHLOROETHANE	0.275195	0.27045180		1.72		3.75	3.685	98.30	70 - 130
1,1,2-TRICHLOROETHANE	0.093899	0.08842931		5.83		3.75	3.532	94.20	70 - 130
1,1,2-TRICHLOROTRIFLUOROETHANE	0.676624	0.63706570		5.85		3.75	3.531	94.20	70 - 130
1,1-DICHLOROETHANE	0.666433	0.66955350		0.4680		3.75	3.768	100	70 - 130
1,1-DICHLOROETHENE	0.600975	0.59176290		1.53		3.75	3.693	98.50	70 - 130
1,2,4-TRICHLOROBENZENE	0.199703	0.194341		2.68		3.75	3.649	97.30	70 - 130
1,2,4-TRIMETHYLBENZENE	0.330931	0.35419190		7.03		3.75	4.014	107	70 - 130
1,2-DIBROMOETHANE	0.131375	0.12224740		6.95		3.75	3.489	93	70 - 130
1,2-DICHLOROBENZENE	0.224971	0.21453920		4.64		3.75	3.576	95.40	70 - 130
1,2-DICHLOROETHANE	0.143157	0.13332030		6.87		3.75	3.492	93.10	70 - 130
1,2-DICHLOROPROPANE	0.115574	0.11579950		0.1950		3.75	3.757	100	70 - 130
1,2-DICHLOROTETRAFLUOROETHANE	0.821031	0.826444		0.6590		3.75	3.775	101	70 - 130
1,3,5-TRIMETHYLBENZENE	0.330602	0.33322080		0.7920		3.75	3.780	101	70 - 130
1,3-BUTADIENE	0.276026	0.29993380		8.66		3.75	4.075	109	70 - 130
1,3-DICHLOROBENZENE	0.231239	0.218212		5.63		3.75	3.539	94.40	70 - 130
1,4-DICHLOROBENZENE	0.234404	0.22265530		5.01		3.75	3.562	95	70 - 130
2,2,4-TRIMETHYLPENTANE	1.588809	1.712433		7.78		3.75	4.042	108	70 - 130
2-BUTANONE (MEK)	0.153032	0.16214810		5.96		3.75	3.973	106	70 - 130
2-PROPANOL	0.727604	0.82880610		13.90		3.75	4.272	114	70 - 130
4-ETHYLTOLUENE	0.389081	0.38315850		1.52		3.75	3.693	98.50	70 - 130
4-METHYL-2-PENTANONE (MIBK)	0.252473	0.28154930		11.50		3.75	4.182	112	70 - 130
ACETONE	0.171047	0.18812450		9.98		3.75	4.124	110	70 - 130
BENZENE	0.267278	0.26591770		0.5090		3.75	3.731	99.50	70 - 130
BENZYL CHLORIDE	0.345428	0.34697380		0.4480		3.75	3.767	100	70 - 130
BROMODICHLOROMETHANE	0.191005	0.18001980		5.75		3.75	3.534	94.20	70 - 130
BROMOFORM	0.169138	0.15423760		8.81		3.75	3.420	91.20	70 - 130
BROMOMETHANE	0.323967	0.30266990		6.57		3.75	3.503	93.40	70 - 130
CARBON DISULFIDE	1.020840	1.015961		0.4780		3.75	3.732	99.50	70 - 130
CARBON TETRACHLORIDE	0.665434	0.60180020		9.56		3.75	3.391	90.40	70 - 130
CHLOROBENZENE	0.198345	0.17092390		13.80		3.75	3.232	86.20	70 - 130
CHLORODIBROMOMETHANE	0.152442	0.13762070		9.72		3.75	3.385	90.30	70 - 130
CHLOROETHANE	0.179459	0.17358460		3.27		3.75	3.627	96.70	70 - 130
CHLOROFORM	0.758995	0.72179040		4.90		3.75	3.566	95.10	70 - 130
CHLOROMETHANE	0.360958	0.38321750		6.17		3.75	3.981	106	70 - 130
CIS-1,2-DICHLOROETHENE	0.610244	0.63600590		4.22		3.75	3.908	104	70 - 130
CIS-1,3-DICHLOROPROPENE	0.148237	0.157481		6.24		3.75	3.984	106	70 - 130
CYCLOHEXANE	0.341492	0.35708870		4.57		3.75	3.921	105	70 - 130
DICHLORODIFLUOROMETHANE	0.762059	0.78501340		3.01		3.75	3.863	103	70 - 130
ETHANOL	0.170028	0.18452930		8.53		3.75	4.070	109	70 - 130
ETHYL ACETATE	0.086770	0.09100048		4.88		3.75	3.933	105	70 - 130
ETHYLBENZENE	0.3993	0.391010		2.08		3.75	3.672	97.90	70 - 130
HEPTANE	0.081569	0.08687206		6.50		3.75	3.994	107	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.189682	0.17557030		7.44		3.75	3.471	92.60	70 - 130
ISOPROPYLBENZENE	0.366699	0.38118970		3.95		3.75	3.898	104	70 - 130
M&P-XYLENE	0.299853	0.30789620		2.68		7.50	7.701	103	70 - 130

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1731355	**Calibration (begin) date/time:**	04/30/24 16:23
Instrument ID:	AIRMS13	**Calibration (end) date/time:**	04/30/24 22:51
Lab File ID:	0501_01	**Analysis date/time:**	05/01/24 08:17
Analytical Method:	TO-15	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
METHYL BUTYL KETONE	0.211744	0.22943540		8.36		3.75	4.063	108	70 - 130
METHYL METHACRYLATE	0.084439	0.08663346		2.60		3.75	3.847	103	70 - 130
METHYL TERT-BUTYL ETHER	0.804045	0.84415640		4.99		3.75	3.937	105	70 - 130
METHYLENE CHLORIDE	0.511841	0.51366750		0.3570		3.75	3.763	100	70 - 130
N-HEXANE	0.496068	0.53821690		8.50		3.75	4.069	109	70 - 130
NAPHTHALENE	0.494177	0.50451790		2.09		3.75	3.828	102	70 - 130
O-XYLENE	0.285527	0.28847320		1.03		3.75	3.789	101	70 - 130
PROPENE	0.299731	0.34951060		16.60		3.75	4.373	117	70 - 130
STYRENE	0.205692	0.21040780		2.29		3.75	3.836	102	70 - 130
TETRACHLOROETHENE	0.104271	0.09936412		4.71		3.75	3.574	95.30	70 - 130
TETRAHYDROFURAN	0.459980	0.48577230		5.61		3.75	3.960	106	70 - 130
TOLUENE	0.286157	0.287999		0.6440		3.75	3.774	101	70 - 130
TRANS-1,2-DICHLOROETHENE	0.517594	0.53742720		3.83		3.75	3.894	104	70 - 130
TRANS-1,3-DICHLOROPROPENE	0.120280	0.12149390		1.01		3.75	3.788	101	70 - 130
TRICHLOROETHENE	0.108769	0.108225		0.50		3.75	3.731	99.50	70 - 130
TRICHLOROFLUOROMETHANE	0.879565	0.780497		11.30		3.75	3.328	88.70	70 - 130
VINYL ACETATE	0.966242	1.118412		15.70		3.75	4.341	116	70 - 130
VINYL BROMIDE	0.285223	0.27564760		3.36		3.75	3.624	96.60	70 - 130
VINYL CHLORIDE	0.381720	0.385933		1.10		3.75	3.791	101	70 - 130
XYLENES, TOTAL		0.30142190		0		11.25	11.49	102	70 - 130
1,4-BROMOFLUOROBENZENE	0.812444	0.80983530		0.3210		4	3.987	99.70	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_01.D
Acq On : 1 May 2024 8:17 am
Operator :
Sample : ICV AMS 3.75 ppbv 24D28181
Misc : 24D29341
ALS Vial : 1 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 10:32:05 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.433	130	153986	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	10.445	114	594554	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	13.597	117	451314	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	14.743	95	365490	3.9871546	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 99.68%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	17190350m	164.3469695	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	22143596m	250.3072633	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	32634398m	340.0088134	ppbv	
5) Propene	4.257	41	50456	4.3728032	ppbv	98
6) BUTANE	4.964	43	95326	3.7735674	ppbv	100
7) 1,1-DIFLUOROETHANE	4.276	65	31848	4.0157907	ppbv	96
8) Dichlorodifluoromethane	4.336	85	113326	3.8629547	ppbv	100
9) CHLORODIFLUOROMETHANE	4.391	67	12797	3.9120256	ppbv	94
10) 1,2-Dichlorotetrafluor...	4.629	85	119307	3.7747254	ppbv	98
11) Chloromethane	4.794	50	55322	3.9812542	ppbv	99
12) Vinyl Chloride	5.013	62	55714	3.7913848	ppbv	98
13) 1,3-Butadiene	5.080	54	43299	4.0748045	ppbv	97
14) Bromomethane	5.690	94	43694	3.5034773	ppbv	98
15) Chloroethane	5.861	64	25059	3.6272415	ppbv	97
16) ISOPENTANE	5.891	43	69393	3.8410707	ppbv	96
17) Vinyl Bromide	6.159	106	39793	3.6241029	ppbv	99
18) Trichlorofluoromethane	6.214	101	112674	3.3276246	ppbv	99
19) PENTANE	6.293	43	102991	3.8747015	ppbv	98
20) Ethanol	6.574	45	26639	4.0698262	ppbv	98
21) ACROLEIN	6.946	56	25202	3.9246830	ppbv	97
22) 1,1,2-Trichlorotrifluo...	6.915	101	91968	3.5307595	ppbv	100
23) 1,1-Dichloroethene	7.001	61	85428	3.6925197	ppbv	98
24) Acetone	7.147	58	27158	4.1244007	ppbv	97
25) BROMOETHANE	7.275	108	32858	3.6743614	ppbv	99
26) 2-Propanol	7.275	45	119648	4.2715845	ppbv	94
27) Carbon Disulfide	7.342	76	146666	3.7320764	ppbv	100
28) Allyl Chloride	7.500	76	21259	3.9834776	ppbv	96
29) METHYL ACETATE	7.507	43	123523	3.9082598	ppbv #	99
30) ACETONITRILE	7.592	41	305557	19.4960502	ppbv	99
31) Methylene Chloride	7.683	49	74154	3.7633799	ppbv	100
32) TERT-BUTYL ALCOHOL	7.775	59	112603	4.0162620	ppbv	92
33) Methyl Tert-Butyl Ether	7.921	73	121864	3.9370766	ppbv	100
34) Trans-1,2-Dichloroethene	7.958	61	77584	3.8936902	ppbv	100
35) ACRYLONITRILE	8.049	53	46129	3.8468938	ppbv	98
36) n-Hexane	8.153	57	77698	4.0686228	ppbv	92
37) 1,1-Dichloroethane	8.500	63	96658	3.7675615	ppbv	100
38) Vinyl Acetate	8.476	43	161456	4.3405724	ppbv	99
39) DI-ISOPROPYL ETHER	8.415	45	194641	4.1421921	ppbv	94
40) ETHYL TERT-BUTYL ETHER	8.817	59	151585	4.0228288	ppbv	99
41) ETHYL ACETATE	9.116	70	13137	3.9328308	ppbv	98

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_01.D
Acq On : 1 May 2024 8:17 am
Operator :
Sample : ICV AMS 3.75 ppbv 24D28181
Misc : 24D29341
ALS Vial : 1 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 10:32:05 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 2-Butanone (MEK)	9.147	72	23408	3.9733805 ppbv	99
43) cis-1,2-Dichloroethene	9.153	61	91815	3.9083093 ppbv	99
44) Tetrahydrofuran	9.451	42	70127	3.9602735 ppbv	96
45) Chloroform	9.457	83	104199	3.5661824 ppbv	96
46) Cyclohexane	9.677	84	51550	3.9212687 ppbv	95
47) 1,1,1-Trichloroethane	9.671	97	90123	3.5497687 ppbv	98
48) Carbon Tetrachloride	9.823	117	86877	3.3913962 ppbv	99
49) 2,2,4-Trimethylpentane	9.976	57	247210	4.0417834 ppbv	96
51) Benzene	10.073	78	148221	3.7309086 ppbv	98
52) TERT-AMYL METHYL ETHER	10.079	73	127381	3.8308044 ppbv	95
53) 1,2-Dichloroethane	10.152	62	74312	3.4923332 ppbv	98
54) Heptane	10.140	71	48422	3.9938097 ppbv	94
55) Trichloroethene	10.738	95	60324	3.7312564 ppbv	100
56) TERT-AMYL ETHYL ETHER	10.847	73	38453	3.7907380 ppbv	89
57) METHYL CYCLOHEXANE	10.896	83	73211	3.8005416 ppbv	89
58) 1,2-Dichloropropane	11.049	63	64546	3.7573202 ppbv	99
59) Methyl Methacrylate	11.012	69	48289	3.8474605 ppbv	99
60) 1,4-Dioxane	11.140	88	27581	3.9102294 ppbv	94
61) Bromodichloromethane	11.305	83	100342	3.5343299 ppbv	99
62) cis-1,3-Dichloropropene	11.786	75	87779	3.9838451 ppbv	98
63) 4-Methyl-2-Pentanone (...	11.896	43	156934	4.1818750 ppbv	98
64) n-OCTANE	12.030	43	148210	4.0957412 ppbv	100
65) Toluene	12.134	91	160529	3.7741326 ppbv	99
66) trans-1,3-Dichloropropene	12.402	75	67720	3.7878547 ppbv	98
67) 1,1,2-Trichloroethane	12.628	97	49290	3.5315600 ppbv	96
68) Tetrachloroethene	12.725	166	55385	3.5735227 ppbv	99
69) Methyl Butyl Ketone	12.798	43	127886	4.0633117 ppbv	97
70) Chlorodibromomethane	13.042	129	76709	3.3853949 ppbv	100
71) 1,2-Dibromoethane	13.207	107	68140	3.4894604 ppbv	98
72) Chlorobenzene	13.621	112	95272	3.2315561 ppbv	96
73) NONANE	13.597	43	124005	3.6694033 ppbv	98
75) Ethylbenzene	13.652	91	165439	3.6721405 ppbv	99
76) M&P-Xylene	13.755	91	260546	7.7011848 ppbv	98
77) O-Xylene	14.170	91	122055	3.7887001 ppbv	98
80) Styrene	14.188	104	89025	3.8359807 ppbv	98
81) Bromoform	14.463	173	65259	3.4196464 ppbv	98
82) Isopropylbenzene	14.499	105	161284	3.8981872 ppbv	98
83) n-DECANE	14.914	43	134085	4.1258498 ppbv	99
84) 1,1,2,2-Tetrachloroethane	14.859	83	114430	3.6853619 ppbv	99
85) n-Propylbenzene	14.920	91	229514	3.7693170 ppbv	99
86) 4-Ethyltoluene	15.023	105	162117	3.6929187 ppbv	97
87) 2-Chlorotoluene	15.084	91	151797	3.5643371 ppbv	100
89) 1,3,5-Trimethylbenzene	15.078	105	140988	3.7796999 ppbv	95
90) tert-Butylbenzene	15.408	119	119549	3.7755708 ppbv	98
91) 1,2,4-Trimethylbenzene	15.468	105	149861	4.0135890 ppbv	99
92) sec-Butylbenzene	15.621	105	206047	3.8185149 ppbv	98
93) 1,3-Dichlorobenzene	15.822	146	92327	3.5387393 ppbv	94
94) P-ISOPROPYLTOLUENE	15.737	119	163544	3.7949040 ppbv	98
95) 1,4-Dichlorobenzene	15.907	146	94207	3.5620372 ppbv	98
96) 1,2,3-TRIMETHYLBENZENE	15.895	105	148200	3.8835158 ppbv	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_01.D
Acq On : 1 May 2024 8:17 am
Operator :
Sample : ICV AMS 3.75 ppbv 24D28181
Misc : 24D29341
ALS Vial : 1 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 10:32:05 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

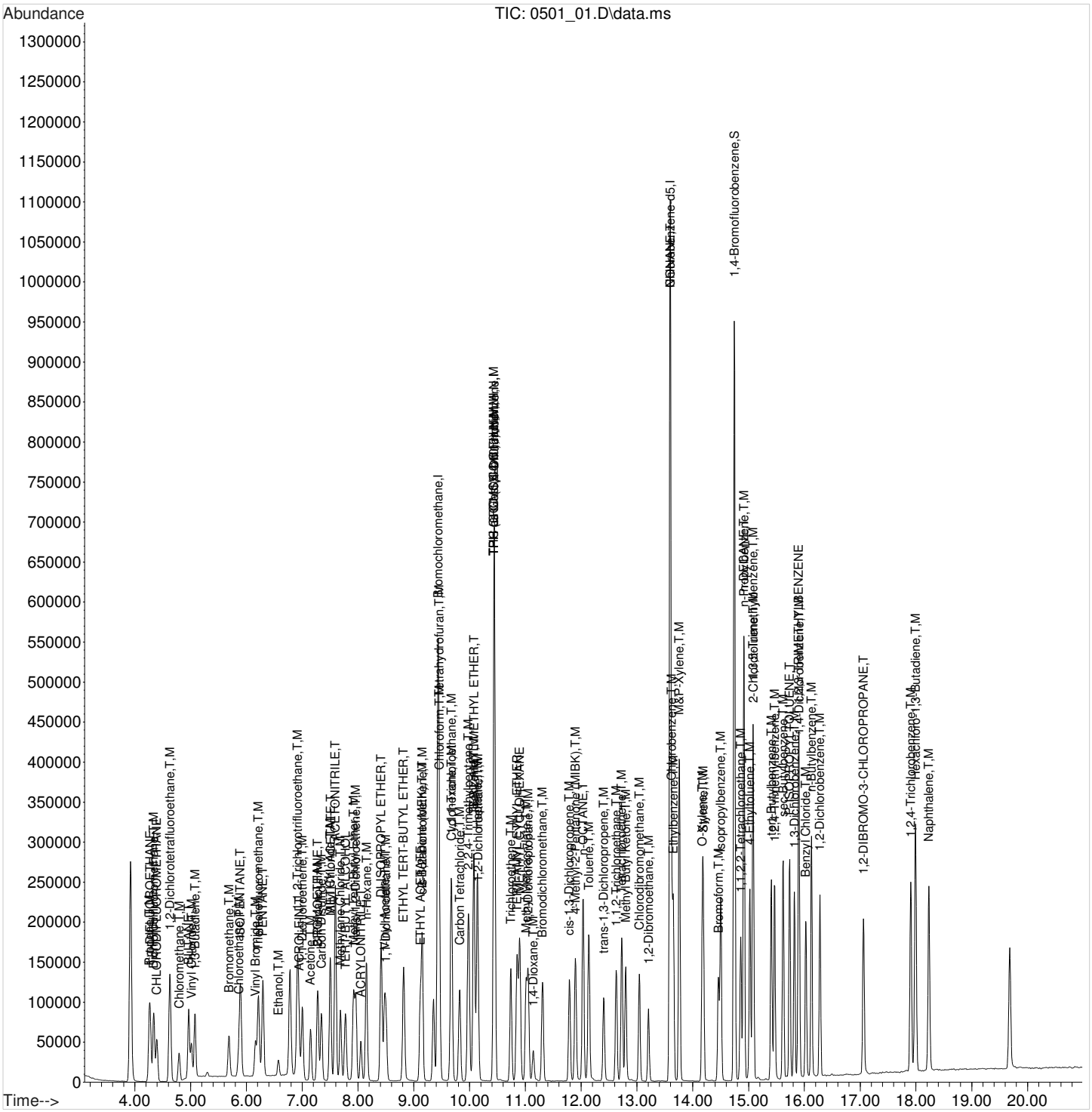
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	Benzyl Chloride	16.023	91	146807	3.7667862	ppbv	100
98)	n-Butylbenzene	16.127	91	188304	3.8285410	ppbv	98
99)	1,2-Dichlorobenzene	16.279	146	90773	3.5761188	ppbv	99
100)	1,2-DIBROMO-3-CHLOROPR...	17.060	157	48808	3.5724153	ppbv	99
101)	1,2,4-Trichlorobenzene	17.907	180	82227	3.6493150	ppbv	99
102)	Hexachloro-1,3-Butadiene	17.992	225	74285	3.4710116	ppbv	100
103)	Naphthalene	18.230	128	213465	3.8284681	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_01.D
Acq On : 1 May 2024 8:17 am
Operator :
Sample : ICV AMS 3.75 ppbv 24D28181
Misc : 24D29341
ALS Vial : 1 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 10:32:05 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration



7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1731355	**Calibration (begin) date/time:**	04/26/24 18:53
Instrument ID:	AIRMS16	**Calibration (end) date/time:**	04/27/24 00:41
Lab File ID:	0426_22	**Analysis date/time:**	04/27/24 02:00
Analytical Method:	TO-15	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	0.614004	0.69685020		13.50		10	11.35	114	60 - 140
1,1,2,2-TETRACHLOROETHANE	0.242856	0.27901430		14.90		10	11.49	115	60 - 140
1,1,2-TRICHLOROETHANE	0.096170	0.10798880		12.30		10	11.23	112	60 - 140
1,1,2-TRICHLOROTRIFLUOROETHANE	0.607183	0.68919320		13.50		10	11.35	114	60 - 140
1,1-DICHLOROETHANE	0.608201	0.68040520		11.90		10	11.19	112	60 - 140
1,1-DICHLOROETHENE	0.510631	0.58190550		14		10	11.40	114	60 - 140
1,2,4-TRICHLOROBENZENE	0.227143	0.27373210		20.50		10	12.05	121	60 - 140
1,2,4-TRIMETHYLBENZENE	0.392728	0.43990260		12		10	11.20	112	60 - 140
1,2-DIBROMOETHANE	0.145691	0.16914160		16.10		10	11.61	116	60 - 140
1,2-DICHLOROBENZENE	0.248592	0.28047460		12.80		10	11.28	113	60 - 140
1,2-DICHLOROETHANE	0.105807	0.10255450		3.07		10	9.693	96.90	60 - 140
1,2-DICHLOROPROPANE	0.103326	0.09997360		3.24		10	9.676	96.80	60 - 140
1,2-DICHLOROTETRAFLUOROETHANE	0.759911	0.84730610		11.50		10	11.15	112	60 - 140
1,3,5-TRIMETHYLBENZENE	0.381276	0.43933430		15.20		10	11.52	115	60 - 140
1,3-BUTADIENE	0.232443	0.24936550		7.28		10	10.73	107	60 - 140
1,3-DICHLOROBENZENE	0.252004	0.28761570		14.10		10	11.41	114	60 - 140
1,4-DICHLOROBENZENE	0.251731	0.28949850		15		10	11.50	115	60 - 140
2,2,4-TRIMETHYLPENTANE	1.887421	1.861172		1.39		10	9.861	98.60	60 - 140
2-BUTANONE (MEK)	0.181790	0.17789350		2.14		10	9.786	97.90	60 - 140
2-PROPANOL	0.726752	0.72766020		0.1250		10	10.01	100	60 - 140
4-ETHYLTOLUENE	0.464828	0.52815290		13.60		10	11.36	114	60 - 140
4-METHYL-2-PENTANONE (MIBK)	0.228379	0.22080270		3.32		10	9.668	96.70	60 - 140
ACETONE	0.180402	0.16881830		6.42		10	9.358	93.60	60 - 140
BENZENE	0.263340	0.25484010		3.23		10	9.677	96.80	60 - 140
BENZYL CHLORIDE	0.354689	0.413491		16.60		10	11.66	117	60 - 140
BROMODICHLOROMETHANE	0.159743	0.18110150		13.40		10	11.34	113	60 - 140
BROMOFORM	0.168286	0.19340770		14.90		10	11.49	115	60 - 140
BROMOMETHANE	0.244113	0.26920680		10.30		10	11.03	110	60 - 140
CARBON DISULFIDE	1.055041	1.214762		15.10		10	11.51	115	60 - 140
CARBON TETRACHLORIDE	0.617497	0.69062730		11.80		10	11.18	112	60 - 140
CHLOROBENZENE	0.237730	0.23366850		1.71		10	9.829	98.30	60 - 140
CHLORODIBROMOMETHANE	0.154328	0.18110790		17.40		10	11.74	117	60 - 140
CHLOROETHANE	0.148456	0.15177510		2.24		10	10.22	102	60 - 140
CHLOROFORM	0.673916	0.65550870		2.73		10	9.727	97.30	60 - 140
CHLOROMETHANE	0.287301	0.29863210		3.94		10	10.39	104	60 - 140
CIS-1,2-DICHLOROETHENE	0.464516	0.52438680		12.90		10	11.29	113	60 - 140
CIS-1,3-DICHLOROPROPENE	0.157504	0.181396		15.20		10	11.52	115	60 - 140
CYCLOHEXANE	0.459756	0.44724540		2.72		10	9.728	97.30	60 - 140
DICHLORODIFLUOROMETHANE	0.695878	0.78710590		13.10		10	11.31	113	60 - 140
ETHANOL	0.155442	0.17038170		9.61		10	10.96	110	60 - 140
ETHYL ACETATE	0.092689	0.08841316		4.61		10	9.539	95.40	60 - 140
ETHYLBENZENE	0.464823	0.45388370		2.35		10	9.765	97.70	60 - 140
HEPTANE	0.091577	0.08691788		5.09		10	9.491	94.90	60 - 140
HEXACHLORO-1,3-BUTADIENE	0.215240	0.24913220		15.70		10	11.57	116	60 - 140
ISOPROPYLBENZENE	0.489850	0.48127230		1.75		10	9.825	98.20	60 - 140
M&P-XYLENE	0.356990	0.35525360		0.4860		20	19.90	99.50	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1731355	**Calibration (begin) date/time:**	04/26/24 18:53
Instrument ID:	AIRMS16	**Calibration (end) date/time:**	04/27/24 00:41
Lab File ID:	0426_22	**Analysis date/time:**	04/27/24 02:00
Analytical Method:	TO-15	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
METHYL BUTYL KETONE	0.216921	0.21184920		2.34		10	9.766	97.70	60 - 140
METHYL METHACRYLATE	0.098144	0.11309950		15.20		10	11.52	115	60 - 140
METHYL TERT-BUTYL ETHER	0.964180	0.938857		2.63		10	9.737	97.40	60 - 140
METHYLENE CHLORIDE	0.402433	0.38562870		4.18		10	9.582	95.80	60 - 140
N-HEXANE	0.582720	0.56583690		2.90		10	9.710	97.10	60 - 140
NAPHTHALENE	0.547033	0.56070720		2.50		10	10.25	103	60 - 140
O-XYLENE	0.366893	0.35923990		2.09		10	9.791	97.90	60 - 140
PROPENE	0.296251	0.31006020		4.66		10	10.47	105	60 - 140
STYRENE	0.268464	0.31406050		17		10	11.70	117	60 - 140
TETRACHLOROETHENE	0.139279	0.13560990		2.63		10	9.737	97.40	60 - 140
TETRAHYDROFURAN	0.458554	0.43422530		5.31		10	9.469	94.70	60 - 140
TOLUENE	0.330611	0.320745		2.98		10	9.702	97	60 - 140
TRANS-1,2-DICHLOROETHENE	0.483502	0.55197290		14.20		10	11.42	114	60 - 140
TRANS-1,3-DICHLOROPROPENE	0.124265	0.14267150		14.80		10	11.48	115	60 - 140
TRICHLOROETHENE	0.109554	0.10572180		3.50		10	9.650	96.50	60 - 140
TRICHLOROFLUOROMETHANE	0.677934	0.76206580		12.40		10	11.24	112	60 - 140
VINYL ACETATE	1.090839	0.98512950		9.69		10	9.031	90.30	60 - 140
VINYL BROMIDE	0.265022	0.30019540		13.30		10	11.33	113	60 - 140
VINYL CHLORIDE	0.276092	0.31106360		12.70		10	11.27	113	60 - 140
XYLENES, TOTAL	0	0.35658240		0		30	29.691	99	60 - 140
1,4-BROMOFLUOROBENZENE	0.712942	0.71786330		0.69		4	4.028	101	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_22.D
Acq On : 27 Apr 2024 2:00 am
Operator :
Sample : SSCV AMS 10 ppbv 24D11610
Misc : 24D22236
ALS Vial : 22 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:57:03 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.708	130	250750	4.0000000	ppbv		0.00
50) 1,4-Difluorobenzene	8.541	114	1071715	4.0000000	ppbv		0.00
74) Chlorobenzene-d5	11.642	117	951567	4.0000000	ppbv		0.00
System Monitoring Compounds							
88) 1,4-Bromofluorobenzene	12.901	95	683095	4.0276098	ppbv		0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.69%				
Target Compounds						Qvalue	
2) TPH (GC/MS) Low Fraction	10.430	TIC	79628854m	446.3621456	ppbv		
3) TPH-GRO (C5-C10)	10.430	TIC	98114939m	662.0922148	ppbv		
4) THC as Gas (C4-C12)	10.430	TIC	159679118m	862.9965538	ppbv		
5) Propene	4.119	41	194369	10.4661170	ppbv		100
6) BUTANE	4.555	43	306731	10.4747970	ppbv		100
7) 1,1-DIFLUOROETHANE	4.124	65	132650	11.2707191	ppbv		100
8) Dichlorodifluoromethane	4.164	85	493417	11.3109830	ppbv		100
9) CHLORODIFLUOROMETHANE	4.187	67	49431	10.6701995	ppbv		99
10) 1,2-Dichlorotetrafluor...	4.334	85	531155	11.1500711	ppbv		99
11) Chloromethane	4.453	50	187205	10.3944061	ppbv		100
12) Vinyl Chloride	4.589	62	194998	11.2666631	ppbv		98
13) 1,3-Butadiene	4.623	39	156321	10.7280115	ppbv		99
14) Bromomethane	5.020	94	168759	11.0279733	ppbv		100
15) Chloroethane	5.111	64	95144	10.2236058	ppbv		100
16) ISOPENTANE	5.128	43	225411	10.8655786	ppbv		99
17) Vinyl Bromide	5.315	106	188185	11.3272050	ppbv		100
18) Trichlorofluoromethane	5.343	101	477720	11.2410012	ppbv		99
19) PENTANE	5.383	43	448808	11.3049891	ppbv		99
20) Ethanol	5.474	45	106808	10.9611240	ppbv		100
21) ACROLEIN	5.808	56	103513	10.3197681	ppbv		99
22) 1,1,2-Trichlorotrifluo...	5.786	101	432038	11.3506672	ppbv		99
23) 1,1-Dichloroethene	5.876	61	364782	11.3958114	ppbv		99
24) Acetone	5.927	58	105828	9.3578949	ppbv		98
25) BROMOETHANE	6.075	108	178764	11.2972049	ppbv		99
26) 2-Propanol	5.950	45	456152	10.0124966	ppbv		98
27) Carbon Disulfide	6.177	76	761504	11.5138829	ppbv		98
28) Allyl Chloride	6.211	41	357573	11.6661864	ppbv		97
29) METHYL ACETATE	6.166	43	492725	11.1577168	ppbv	#	99
30) ACETONITRILE	6.251	41	1018585	48.4503472	ppbv		98
31) Methylene Chloride	6.341	49	241741	9.5824304	ppbv		99
32) TERT-BUTYL ALCOHOL	6.307	59	486741	9.7458154	ppbv		93
33) Methyl Tert-Butyl Ether	6.477	73	588546	9.7373635	ppbv		99
34) Trans-1,2-Dichloroethene	6.545	61	346018	11.4161553	ppbv		99
35) ACRYLONITRILE	6.585	53	209530	11.4172501	ppbv		99
36) n-Hexane	6.670	57	354709	9.7102753	ppbv		99
37) 1,1-Dichloroethane	6.959	63	426529	11.1871733	ppbv		99
38) Vinyl Acetate	6.880	43	617553	9.0309330	ppbv		99
39) DI-ISOPROPYL ETHER	6.829	45	778615	9.7478502	ppbv		98
40) ETHYL TERT-BUTYL ETHER	7.146	59	818312	11.3899081	ppbv		99
41) ETHYL ACETATE	7.379	70	55424	9.5386555	ppbv		99

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_22.D
Acq On : 27 Apr 2024 2:00 am
Operator :
Sample : SSCV AMS 10 ppbv 24D11610
Misc : 24D22236
ALS Vial : 22 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:57:03 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone (MEK)	7.430	72	111517	9.7856718	ppbv	97
43) cis-1,2-Dichloroethene	7.470	61	328725	11.2888813	ppbv	100
44) Tetrahydrofuran	7.708	42	272205	9.4694553	ppbv	98
45) Chloroform	7.708	83	410922	9.7268590	ppbv	99
46) Cyclohexane	7.929	84	280367	9.7278962	ppbv	98
47) 1,1,1-Trichloroethane	7.912	97	436838	11.3492760	ppbv	100
48) Carbon Tetrachloride	8.042	117	432937	11.1842985	ppbv	100
49) 2,2,4-Trimethylpentane	8.150	57	1166722	9.8609266	ppbv	99
51) Benzene	8.258	78	682790	9.6772408	ppbv	100
52) TERT-AMYL METHYL ETHER	8.218	73	759823	11.2873080	ppbv	99
53) 1,2-Dichloroethane	8.309	62	274773	9.6925638	ppbv	99
54) Heptane	8.269	57	232878	9.4912705	ppbv	99
55) Trichloroethene	8.825	95	283259	9.6501786	ppbv	99
56) TERT-AMYL ETHYL ETHER	8.881	73	242277	11.0936267	ppbv	98
57) METHYL CYCLOHEXANE	8.978	83	463128	11.2889590	ppbv	99
58) 1,2-Dichloropropane	9.102	63	267858	9.6755855	ppbv	98
59) Methyl Methacrylate	9.023	69	303026	11.5238751	ppbv	98
60) 1,4-Dioxane	9.159	88	152262	9.3467817	ppbv	98
61) Bromodichloromethane	9.329	83	485223	11.3370805	ppbv	99
62) cis-1,3-Dichloropropene	9.766	75	486012	11.5168803	ppbv	99
63) 4-Methyl-2-Pentanone (...	9.840	43	591594	9.6682793	ppbv	99
64) n-OCTANE	9.970	43	724828	11.0077304	ppbv	98
65) Toluene	10.095	91	859368	9.7015736	ppbv	100
66) trans-1,3-Dichloropropene	10.333	75	382258	11.4811993	ppbv	100
67) 1,1,2-Trichloroethane	10.554	97	289333	11.2289709	ppbv	99
68) Tetrachloroethene	10.673	166	363338	9.7365945	ppbv	100
69) Methyl Butyl Ketone	10.713	43	567605	9.7661770	ppbv	99
70) Chlorodibromomethane	11.007	129	485240	11.7352373	ppbv	99
71) 1,2-Dibromoethane	11.206	107	453179	11.6096447	ppbv	100
72) Chlorobenzene	11.677	112	626065	9.8291410	ppbv	97
73) NONANE	11.620	43	774255	11.2600123	ppbv	99
75) Ethylbenzene	11.699	91	1079752	9.7646625	ppbv	100
76) M&P-Xylene	11.824	91	1690238	19.9027232	ppbv	99
77) O-Xylene	12.300	91	854602	9.7914072	ppbv	100
80) Styrene	12.317	104	747124	11.6984260	ppbv	97
81) Bromoform	12.623	173	460101	11.4928162	ppbv	100
82) Isopropylbenzene	12.657	105	1144907	9.8248842	ppbv	100
83) n-DECANE	13.043	43	725678	11.5890293	ppbv	98
84) 1,1,2,2-Tetrachloroethane	13.003	83	663752	11.4888938	ppbv	100
85) n-Propylbenzene	13.054	91	1550216	11.6753669	ppbv	99
86) 4-Ethyltoluene	13.151	105	1256432	11.3623191	ppbv	100
87) 2-Chlorotoluene	13.213	91	1021656	11.5233375	ppbv	100
89) 1,3,5-Trimethylbenzene	13.202	105	1045140	11.5227313	ppbv	100
90) tert-Butylbenzene	13.502	119	983678	11.2956782	ppbv	100
91) 1,2,4-Trimethylbenzene	13.553	105	1046492	11.2011944	ppbv	99
92) sec-Butylbenzene	13.689	105	1525908	11.3657973	ppbv	100
93) 1,3-Dichlorobenzene	13.882	146	684214	11.4131307	ppbv	99
94) P-ISOPROPYLTOLUENE	13.797	119	1280620	11.4002737	ppbv	99
95) 1,4-Dichlorobenzene	13.961	146	688693	11.5003030	ppbv	99
96) 1,2,3-TRIMETHYLBENZENE	13.944	105	1066138	11.3487450	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_22.D
Acq On : 27 Apr 2024 2:00 am
Operator :
Sample : SSCV AMS 10 ppbv 24D11610
Misc : 24D22236
ALS Vial : 22 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:57:03 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

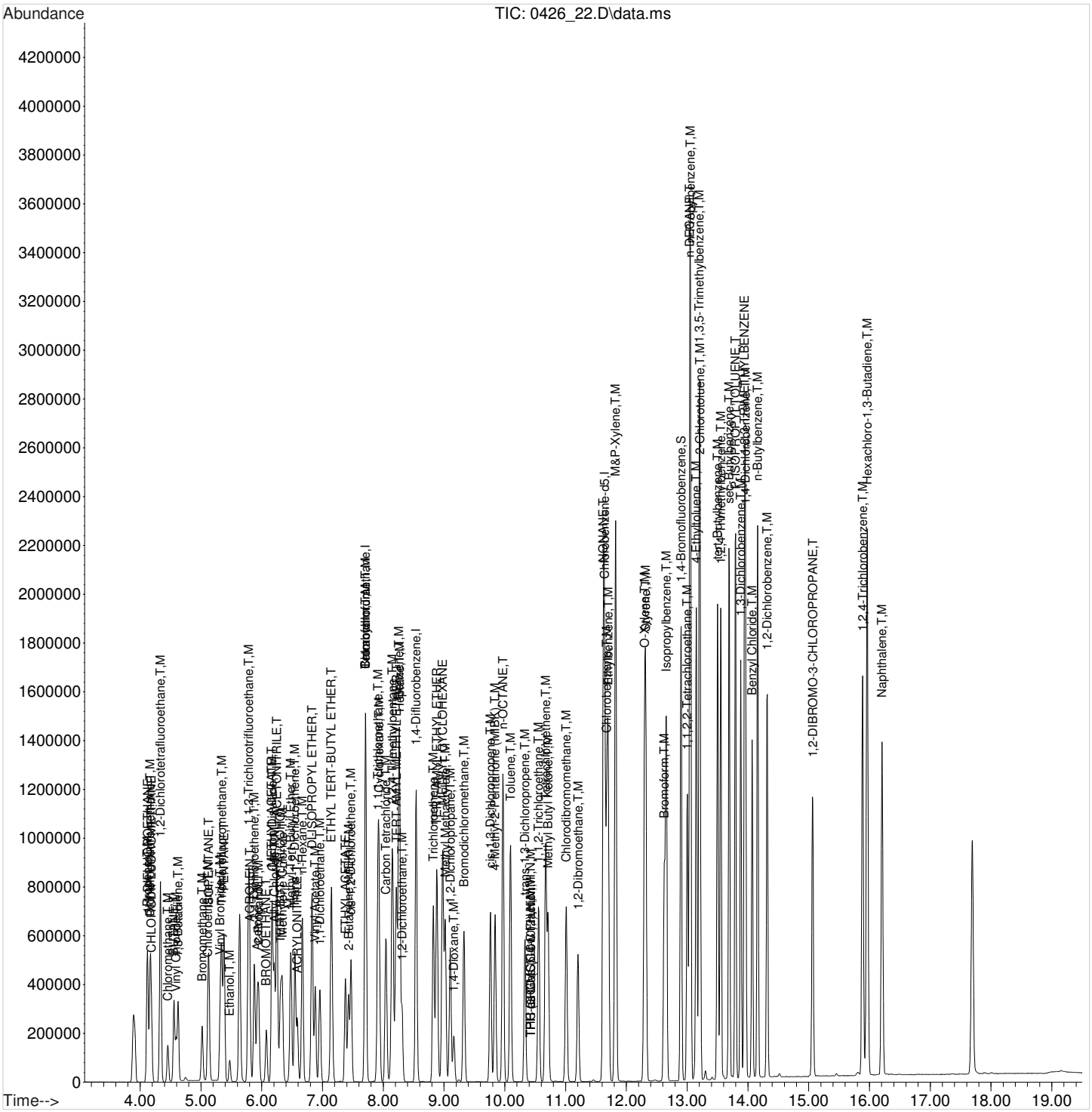
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	14.069	91	983661	11.6578403	ppbv	99
98) n-Butylbenzene	14.160	91	1273753	11.4879756	ppbv	100
99) 1,2-Dichlorobenzene	14.319	146	667226	11.2825066	ppbv	99
100) 1,2-DIBROMO-3-CHLOROPR...	15.067	157	367920	11.3935646	ppbv	98
101) 1,2,4-Trichlorobenzene	15.889	180	651186	12.0510833	ppbv	100
102) Hexachloro-1,3-Butadiene	15.963	225	592665	11.5746355	ppbv	99
103) Naphthalene	16.207	128	1333876	10.2499665	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\042624\
Data File : 0426_22.D
Acq On : 27 Apr 2024 2:00 am
Operator :
Sample : SSCV AMS 10 ppbv 24D11610
Misc : 24D22236
ALS Vial : 22 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: Apr 27 07:57:03 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration



7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1731355	**Calibration (begin) date/time:**	04/26/24 18:53
Instrument ID:	AIRMS16	**Calibration (end) date/time:**	04/27/24 00:41
Lab File ID:	0503_01	**Analysis date/time:**	05/03/24 09:08
Analytical Method:	TO-15	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
1,1,1-TRICHLOROETHANE	0.614004	0.71366070		16.20		3.75	4.359	116	70 - 130
1,1,2,2-TETRACHLOROETHANE	0.242856	0.289368		19.20		3.75	4.468	119	70 - 130
1,1,2-TRICHLOROETHANE	0.096170	0.11365070		18.20		3.75	4.432	118	70 - 130
1,1,2-TRICHLOROTRIFLUOROETHANE	0.607183	0.70729930		16.50		3.75	4.368	116	70 - 130
1,1-DICHLOROETHANE	0.608201	0.70112680		15.30		3.75	4.323	115	70 - 130
1,1-DICHLOROETHENE	0.510631	0.575291		12.70		3.75	4.225	113	70 - 130
1,2,4-TRICHLOROBENZENE	0.227143	0.25754850		13.40		3.75	4.252	113	70 - 130
1,2,4-TRIMETHYLBENZENE	0.392728	0.46747450		19		3.75	4.464	119	70 - 130
1,2-DIBROMOETHANE	0.145691	0.17343870		19		3.75	4.464	119	70 - 130
1,2-DICHLOROBENZENE	0.248592	0.30267490		21.80		3.75	4.566	122	70 - 130
1,2-DICHLOROETHANE	0.105807	0.12068230		14.10		3.75	4.277	114	70 - 130
1,2-DICHLOROPROPANE	0.103326	0.11972040		15.90		3.75	4.345	116	70 - 130
1,2-DICHLOROTETRAFLUOROETHANE	0.759911	0.91105190		19.90		3.75	4.496	120	70 - 130
1,3,5-TRIMETHYLBENZENE	0.381276	0.46423070		21.80		3.75	4.566	122	70 - 130
1,3-BUTADIENE	0.232443	0.270358		16.30		3.75	4.362	116	70 - 130
1,3-DICHLOROBENZENE	0.252004	0.30448330		20.80		3.75	4.531	121	70 - 130
1,4-DICHLOROBENZENE	0.251731	0.30316630		20.40		3.75	4.516	120	70 - 130
2,2,4-TRIMETHYLPENTANE	1.887421	2.181536		15.60		3.75	4.334	116	70 - 130
2-BUTANONE (MEK)	0.181790	0.20859810		14.70		3.75	4.303	115	70 - 130
2-PROPANOL	0.726752	0.85020640		17		3.75	4.387	117	70 - 130
4-ETHYLTOLUENE	0.464828	0.56343990		21.20		3.75	4.546	121	70 - 130
4-METHYL-2-PENTANONE (MIBK)	0.228379	0.26436670		15.80		3.75	4.341	116	70 - 130
ACETONE	0.180402	0.19944370		10.60		3.75	4.146	111	70 - 130
BENZENE	0.263340	0.30834740		17.10		3.75	4.391	117	70 - 130
BENZYL CHLORIDE	0.354689	0.40646960		14.60		3.75	4.297	115	70 - 130
BROMODICHLOROMETHANE	0.159743	0.18507420		15.90		3.75	4.345	116	70 - 130
BROMOFORM	0.168286	0.19757990		17.40		3.75	4.403	117	70 - 130
BROMOMETHANE	0.244113	0.296549		21.50		3.75	4.556	121	70 - 130
CARBON DISULFIDE	1.055041	1.225085		16.10		3.75	4.354	116	70 - 130
CARBON TETRACHLORIDE	0.617497	0.70934190		14.90		3.75	4.308	115	70 - 130
CHLOROBENZENE	0.237730	0.28481330		19.80		3.75	4.493	120	70 - 130
CHLORODIBROMOMETHANE	0.154328	0.178974		16		3.75	4.349	116	70 - 130
CHLOROETHANE	0.148456	0.16754250		12.90		3.75	4.232	113	70 - 130
CHLOROFORM	0.673916	0.77697610		15.30		3.75	4.323	115	70 - 130
CHLOROMETHANE	0.287301	0.34449770		19.90		3.75	4.497	120	70 - 130
CIS-1,2-DICHLOROETHENE	0.464516	0.531169		14.30		3.75	4.288	114	70 - 130
CIS-1,3-DICHLOROPROPENE	0.157504	0.18206760		15.60		3.75	4.335	116	70 - 130
CYCLOHEXANE	0.459756	0.52428580		14		3.75	4.276	114	70 - 130
DICHLORODIFLUOROMETHANE	0.695878	0.79388840		14.10		3.75	4.278	114	70 - 130
ETHANOL	0.155442	0.15748350		1.31		3.75	3.799	101	70 - 130
ETHYL ACETATE	0.092689	0.10490790		13.20		3.75	4.244	113	70 - 130
ETHYLBENZENE	0.464823	0.54217880		16.60		3.75	4.374	117	70 - 130
HEPTANE	0.091577	0.10353140		13.10		3.75	4.240	113	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.215240	0.25722220		19.50		3.75	4.481	119	70 - 130
ISOPROPYLBENZENE	0.489850	0.59805720		22.10		3.75	4.578	122	70 - 130
M&P-XYLENE	0.356990	0.42032970		17.70		7.50	8.831	118	70 - 130

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1731355	**Calibration (begin) date/time:**	04/26/24 18:53
Instrument ID:	AIRMS16	**Calibration (end) date/time:**	04/27/24 00:41
Lab File ID:	0503_01	**Analysis date/time:**	05/03/24 09:08
Analytical Method:	TO-15	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	ppbv	ppbv	% Rec.	%
METHYL BUTYL KETONE	0.216921	0.24285030		12		3.75	4.198	112	70 - 130
METHYL METHACRYLATE	0.098144	0.10618930		8.20		3.75	4.057	108	70 - 130
METHYL TERT-BUTYL ETHER	0.964180	1.119039		16.10		3.75	4.352	116	70 - 130
METHYLENE CHLORIDE	0.402433	0.45747660		13.70		3.75	4.263	114	70 - 130
N-HEXANE	0.582720	0.66880310		14.80		3.75	4.304	115	70 - 130
NAPHTHALENE	0.547033	0.63573380		16.20		3.75	4.358	116	70 - 130
O-XYLENE	0.366893	0.42717430		16.40		3.75	4.366	116	70 - 130
PROPENE	0.296251	0.32877820		11		3.75	4.162	111	70 - 130
STYRENE	0.268464	0.31143390		16		3.75	4.350	116	70 - 130
TETRACHLOROETHENE	0.139279	0.16582340		19.10		3.75	4.465	119	70 - 130
TETRAHYDROFURAN	0.458554	0.52411190		14.30		3.75	4.286	114	70 - 130
TOLUENE	0.330611	0.38550010		16.60		3.75	4.373	117	70 - 130
TRANS-1,2-DICHLOROETHENE	0.483502	0.55200740		14.20		3.75	4.281	114	70 - 130
TRANS-1,3-DICHLOROPROPENE	0.124265	0.14309020		15.10		3.75	4.318	115	70 - 130
TRICHLOROETHENE	0.109554	0.12777150		16.60		3.75	4.374	117	70 - 130
TRICHLOROFLUOROMETHANE	0.677934	0.78067870		15.20		3.75	4.318	115	70 - 130
VINYL ACETATE	1.090839	1.134455		4		3.75	3.900	104	70 - 130
VINYL BROMIDE	0.265022	0.30630470		15.60		3.75	4.334	116	70 - 130
VINYL CHLORIDE	0.276092	0.34275830		24.10		3.75	4.655	124	70 - 130
XYLENES, TOTAL		0.42261120		0		11.25	13.197	117	70 - 130
1,4-BROMOFLUOROBENZENE	0.712942	0.69239750		2.88		4	3.885	97.10	60 - 140

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_01.D
Acq On : 3 May 2024 9:08 am
Operator :
Sample : ICV AMS 3.75 ppbv 24D12755
Misc : 24D22236
ALS Vial : 1 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 03 10:19:18 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.708	130	214629	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	8.541	114	908205	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	11.642	117	820429	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	12.895	95	568063	3.8847328	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 97.12%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	29518228m	193.3123997	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	35783851m	282.1129084	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	60756206m	383.6225442	ppbv	
5) Propene	4.113	41	66155	4.1617290	ppbv	100
6) BUTANE	4.550	43	109790	4.3802941	ppbv	99
7) 1,1-DIFLUOROETHANE	4.119	65	44816	4.4486681	ppbv	99
8) Dichlorodifluoromethane	4.164	85	159742	4.2781686	ppbv	100
9) CHLORODIFLUOROMETHANE	4.187	67	16543	4.1719582	ppbv	95
10) 1,2-Dichlorotetrafluor...	4.329	85	183317	4.4958482	ppbv	99
11) Chloromethane	4.453	50	69318	4.4965642	ppbv	100
12) Vinyl Chloride	4.584	62	68968	4.6554892	ppbv	99
13) 1,3-Butadiene	4.618	39	54400	4.3616754	ppbv	98
14) Bromomethane	5.020	94	59670	4.5555135	ppbv	98
15) Chloroethane	5.111	64	33712	4.2321373	ppbv	99
16) ISOPENTANE	5.122	43	80749	4.5474449	ppbv	98
17) Vinyl Bromide	5.315	106	61633	4.3341467	ppbv	99
18) Trichlorofluoromethane	5.338	101	157084	4.3183323	ppbv	99
19) PENTANE	5.377	43	144261	4.2453259	ppbv	99
20) Ethanol	5.479	45	31688	3.7992570	ppbv	100
21) ACROLEIN	5.808	56	33556	3.9083889	ppbv	97
22) 1,1,2-Trichlorotrifluo...	5.786	101	142319	4.3683242	ppbv	99
23) 1,1-Dichloroethene	5.876	61	115757	4.2248535	ppbv	97
24) Acetone	5.927	58	40131	4.1458167	ppbv	98
25) BROMOETHANE	6.075	108	59565	4.3977914	ppbv	99
26) 2-Propanol	5.956	45	171074	4.3870173	ppbv	99
27) Carbon Disulfide	6.171	76	246505	4.3543957	ppbv	99
28) Allyl Chloride	6.205	41	106123	4.0450719	ppbv	91
29) METHYL ACETATE	6.165	43	162497	4.2990117	ppbv #	100
30) ACETONITRILE	6.251	41	396594	22.0393254	ppbv	100
31) Methylene Chloride	6.336	49	92051	4.2629124	ppbv	99
32) TERT-BUTYL ALCOHOL	6.319	59	187991	4.3975405	ppbv	98
33) Methyl Tert-Butyl Ether	6.483	73	225167	4.3522943	ppbv	99
34) Trans-1,2-Dichloroethene	6.545	61	111072	4.2813261	ppbv	97
35) ACRYLONITRILE	6.585	53	66803	4.2526908	ppbv	99
36) n-Hexane	6.664	57	134573	4.3039757	ppbv	100
37) 1,1-Dichloroethane	6.954	63	141077	4.3229534	ppbv	99
38) Vinyl Acetate	6.880	43	228269	3.8999394	ppbv	99
39) DI-ISOPROPYL ETHER	6.829	45	301088	4.4038454	ppbv	98
40) ETHYL TERT-BUTYL ETHER	7.152	59	269806	4.3873819	ppbv	99
41) ETHYL ACETATE	7.379	70	21109	4.2443335	ppbv	98

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_01.D
Acq On : 3 May 2024 9:08 am
Operator :
Sample : ICV AMS 3.75 ppbv 24D12755
Misc : 24D22236
ALS Vial : 1 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 03 10:19:18 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) 2-Butanone (MEK)	7.430	72	41973	4.3030077 ppbv	97
43) cis-1,2-Dichloroethene	7.470	61	106879	4.2880821 ppbv	98
44) Tetrahydrofuran	7.713	42	105459	4.2861275 ppbv	98
45) Chloroform	7.708	83	156339	4.3234764 ppbv	100
46) Cyclohexane	7.929	84	105494	4.2763410 ppbv	98
47) 1,1,1-Trichloroethane	7.912	97	143599	4.3586471 ppbv	98
48) Carbon Tetrachloride	8.042	117	142730	4.3077635 ppbv	99
49) 2,2,4-Trimethylpentane	8.150	57	438957	4.3343588 ppbv	99
51) Benzene	8.252	78	262540	4.3909177 ppbv	99
52) TERT-AMYL METHYL ETHER	8.218	73	251622	4.4108468 ppbv	100
53) 1,2-Dichloroethane	8.309	62	102754	4.2771923 ppbv	100
54) Heptane	8.263	57	88151	4.2395382 ppbv	99
55) Trichloroethene	8.819	95	108790	4.3735695 ppbv	98
56) TERT-AMYL ETHYL ETHER	8.887	73	78841	4.2599932 ppbv	98
57) METHYL CYCLOHEXANE	8.978	83	150216	4.3208030 ppbv	99
58) 1,2-Dichloropropane	9.102	63	101935	4.3450160 ppbv	100
59) Methyl Methacrylate	9.023	69	90414	4.0574180 ppbv	98
60) 1,4-Dioxane	9.165	88	59158	4.2852827 ppbv	98
61) Bromodichloromethane	9.323	83	157580	4.3446657 ppbv	99
62) cis-1,3-Dichloropropene	9.766	75	155020	4.3348195 ppbv	99
63) 4-Methyl-2-Pentanone (...	9.839	43	225093	4.3409306 ppbv	100
64) n-OCTANE	9.970	43	240137	4.3034556 ppbv	99
65) Toluene	10.095	91	328231	4.3725826 ppbv	100
66) trans-1,3-Dichloropropene	10.327	75	121833	4.3180834 ppbv	99
67) 1,1,2-Trichloroethane	10.554	97	96767	4.4316421 ppbv	99
68) Tetrachloroethene	10.673	166	141189	4.4647027 ppbv	98
69) Methyl Butyl Ketone	10.713	43	206773	4.1982435 ppbv	100
70) Chlorodibromomethane	11.007	129	152386	4.3488635 ppbv	100
71) 1,2-Dibromoethane	11.200	107	147673	4.4642208 ppbv	100
72) Chlorobenzene	11.676	112	242502	4.4926945 ppbv	98
73) NONANE	11.620	43	253059	4.3428223 ppbv	100
75) Ethylbenzene	11.699	91	417018	4.3740767 ppbv	100
76) M&P-Xylene	11.824	91	646595	8.8307045 ppbv	99
77) O-Xylene	12.300	91	328562	4.3661325 ppbv	98
80) Styrene	12.317	104	239540	4.3502194 ppbv	99
81) Bromoform	12.623	173	151969	4.4027767 ppbv	100
82) Isopropylbenzene	12.657	105	459997	4.5783670 ppbv	100
83) n-DECANE	13.043	43	247099	4.5769109 ppbv	100
84) 1,1,2,2-Tetrachloroethane	13.003	83	222568	4.4682089 ppbv	100
85) n-Propylbenzene	13.054	91	531948	4.6467132 ppbv	100
86) 4-Ethyltoluene	13.151	105	433371	4.5455476 ppbv	100
87) 2-Chlorotoluene	13.213	91	344859	4.5114227 ppbv	99
89) 1,3,5-Trimethylbenzene	13.196	105	357064	4.5658896 ppbv	100
90) tert-Butylbenzene	13.502	119	337523	4.4953250 ppbv	99
91) 1,2,4-Trimethylbenzene	13.553	105	359559	4.4637201 ppbv	99
92) sec-Butylbenzene	13.689	105	531209	4.5891827 ppbv	100
93) 1,3-Dichlorobenzene	13.882	146	234194	4.5309260 ppbv	99
94) P-ISOPROPYLTOLUENE	13.791	119	439977	4.5427971 ppbv	98
95) 1,4-Dichlorobenzene	13.961	146	233181	4.5162206 ppbv	98
96) 1,2,3-TRIMETHYLBENZENE	13.944	105	366550	4.5254941 ppbv	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_01.D
Acq On : 3 May 2024 9:08 am
Operator :
Sample : ICV AMS 3.75 ppbv 24D12755
Misc : 24D22236
ALS Vial : 1 Sample Multiplier: 1
InstName : AIRMS16

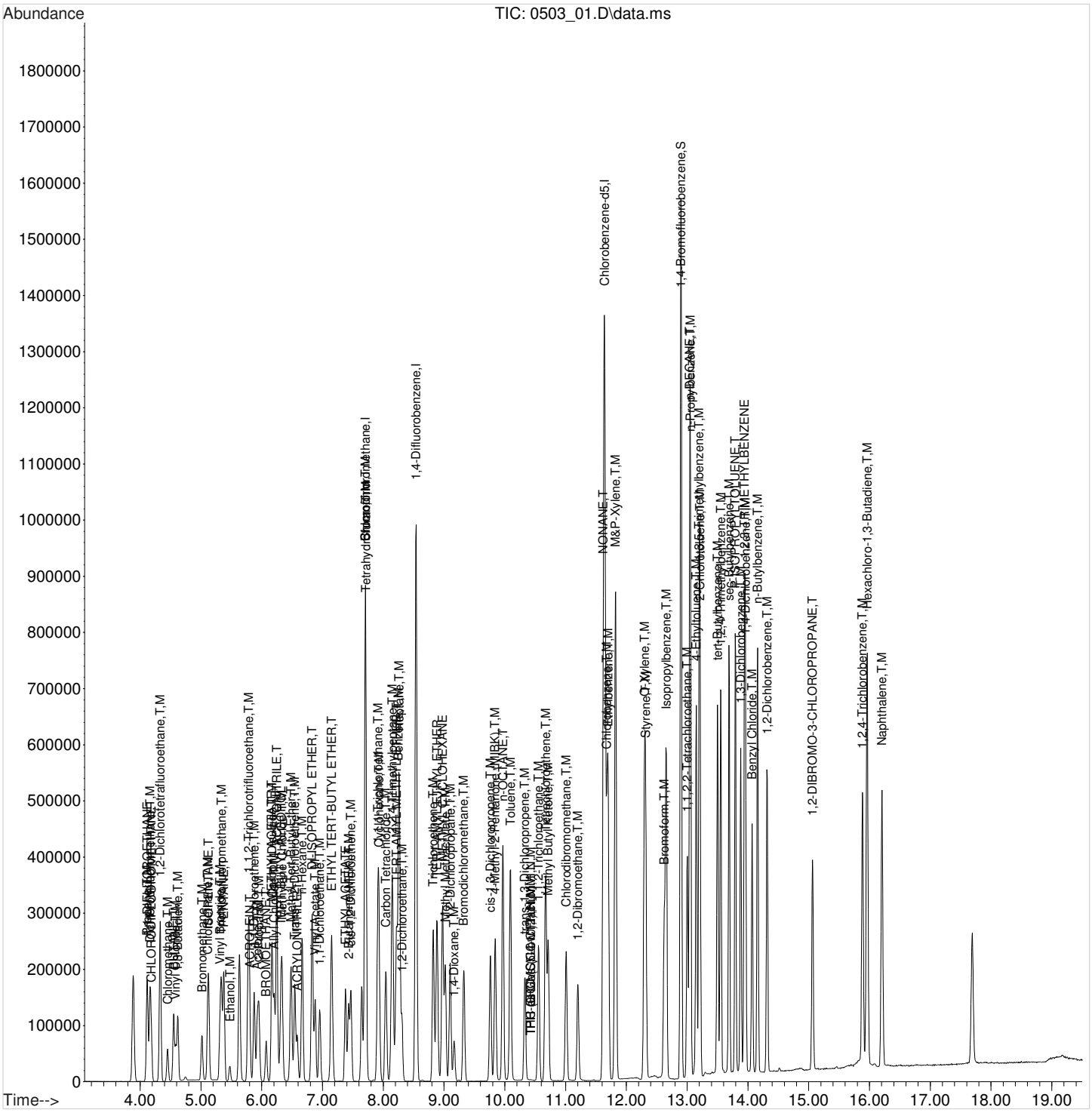
Quant Time: May 03 10:19:18 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	Benzyl Chloride	14.069	91	312637	4.2974556	ppbv	99
98)	n-Butylbenzene	14.160	91	434993	4.5502884	ppbv	100
99)	1,2-Dichlorobenzene	14.319	146	232803	4.5658283	ppbv	98
100)	1,2-DIBROMO-3-CHLOROPR...	15.061	157	117098	4.2058528	ppbv	98
101)	1,2,4-Trichlorobenzene	15.883	180	198094	4.2519752	ppbv	100
102)	Hexachloro-1,3-Butadiene	15.963	225	197843	4.4814350	ppbv	99
103)	Naphthalene	16.207	128	488976	4.3580569	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_01.D
Acq On : 3 May 2024 9:08 am
Operator :
Sample : ICV AMS 3.75 ppbv 24D12755
Misc : 24D22236
ALS Vial : 1 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 03 10:19:18 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration



8B-OR ANALYTICAL SEQUENCE

SDG:	L1731355	**Analytical Method:**	TO-15
Instrument ID:	AIRMS8	**Calibration Start Date:**	04/26/24 16:58
		Calibration End Date:	04/26/24 21:35

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
TUNE	AIRMS8042624B0426B_01720243	0426B_01	04/26/24 16:01		
CAL	0.19	0426B_03	04/26/24 16:58		
CAL	0.31	0426B_04	04/26/24 17:26		
CAL	0.63	0426B_05	04/26/24 17:54		
CAL	1.25	0426B_06	04/26/24 18:22		
CAL	2.5	0426B_07	04/26/24 18:51		
CAL	3.75	0426B_08	04/26/24 19:23		
CAL	10.0	0426B_09	04/26/24 19:52		
CAL	25	0426B_10	04/26/24 20:22		
CAL	50	0426B_11	04/26/24 20:55		
CAL	100	0426B_12	04/26/24 21:35		
SSCV	AIRMS8042624B0426B_14720243	0426B_14	04/26/24 22:39		
ICV	AIRMS80502240502_01720243	0502_01	05/02/24 08:15		
TUNE	AIRMS80502240502_01T720243	0502_01T	05/02/24 08:15		
LCS	R4065178-1	0502_02	05/02/24 08:47	1	WG2278934
LCSD	R4065178-2	0502_03	05/02/24 09:19	1	WG2278934
BLANK	R4065178-3	0502_04	05/02/24 09:49	1	WG2278934
L1730285-05	L1730285-05	0502_05	05/02/24 13:23	100	WG2278934
L1731200-01	L1731200-01	0502_06	05/02/24 13:54	100	WG2278934
L1730235-01	L1730235-01	0502_07	05/02/24 14:24	100	WG2278934
L1731357-02	L1731357-02	0502_10	05/02/24 15:53	10	WG2278934
L1731366-02	L1731366-02	0502_11	05/02/24 16:21	5	WG2278934
L1731393-02	L1731393-02	0502_12	05/02/24 16:50	20	WG2278934
L1731393-03	L1731393-03	0502_13	05/02/24 17:19	20	WG2278934
SG3	L1731355-01	0502_14	05/02/24 17:49	10	WG2278934
L1731357-07	L1731357-07	0502_15	05/02/24 18:19	10	WG2278934
L1731357-09	L1731357-09	0502_16	05/02/24 18:48	10	WG2278934
L1731351-01	L1731351-01	0502_17	05/02/24 19:16	400	WG2278934
L1731367-01	L1731367-01	0502_18	05/02/24 19:47	100	WG2278934
L1731357-08	L1731357-08	0502_19	05/02/24 20:17	100	WG2278934
L1731209-01	L1731209-01	0502_20	05/02/24 20:46	20	WG2278934
L1731209-02	L1731209-02	0502_21	05/02/24 21:15	20	WG2278934

8B-OR ANALYTICAL SEQUENCE

SDG:	L1731355	**Analytical Method:**	TO-15
Instrument ID:	AIRMS13	**Calibration Start Date:**	04/30/24 16:23
		Calibration End Date:	04/30/24 22:51

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
TUNE	AIRMS13043024A0430A_01721112	0430A_01	04/30/24 15:01		
TUNE	AIRMS13043024A0430A_02721112	0430A_02	04/30/24 15:43		
CAL	.19	0430A_03	04/30/24 16:23		
CAL	.31	0430A_04	04/30/24 17:04		
CAL	.63	0430A_05	04/30/24 17:45		
CAL	1.25	0430A_06	04/30/24 18:26		
CAL	2.5	0430A_07	04/30/24 19:09		
CAL	3.75	0430A_08	04/30/24 19:52		
CAL	10	0430A_09	04/30/24 20:34		
CAL	25	0430A_10	04/30/24 21:16		
CAL	50	0430A_11	04/30/24 22:02		
CAL	100	0430A_12	04/30/24 22:51		
SSCV	AIRMS13043024A0430A_14721112	0430A_14	05/01/24 00:18		
ICV	AIRMS130501240501_01721112	0501_01	05/01/24 08:17		
TUNE	AIRMS130501240501_01T721112	0501_01T	05/01/24 08:17		
LCS	R4064812-1	0501_02	05/01/24 09:01	1	WG2278229
LCSD	R4064812-2	0501_03	05/01/24 09:44	1	WG2278229
BLANK	R4064812-3	0501_04	05/01/24 10:27	1	WG2278229
L1731390-01	L1731390-01	0501_09	05/01/24 15:39	1	WG2278229
L1731390-02	L1731390-02	0501_10	05/01/24 16:34	1	WG2278229
L1731390-03	L1731390-03	0501_11	05/01/24 17:36	1	WG2278229
L1731406-01	L1731406-01	0501_12	05/01/24 18:20	1	WG2278229
L1731406-02	L1731406-02	0501_13	05/01/24 19:11	1	WG2278229
L1731406-03	L1731406-03	0501_14	05/01/24 19:54	1	WG2278229
L1731406-04	L1731406-04	0501_15	05/01/24 20:37	1	WG2278229
L1731406-05	L1731406-05	0501_16	05/01/24 21:21	1	WG2278229
L1731406-06	L1731406-06	0501_17	05/01/24 22:04	1	WG2278229
L1731406-07	L1731406-07	0501_18	05/01/24 22:48	1	WG2278229
L1731406-08	L1731406-08	0501_19	05/01/24 23:32	1	WG2278229
L1731347-01	L1731347-01	0501_20	05/02/24 00:15	1	WG2278229
L1731347-02	L1731347-02	0501_21	05/02/24 00:59	1	WG2278229
L1731347-03	L1731347-03	0501_22	05/02/24 01:42	1	WG2278229
L1731347-04	L1731347-04	0501_23	05/02/24 02:25	1	WG2278229
L1731347-05	L1731347-05	0501_24	05/02/24 03:07	5.79	WG2278229
SG3	L1731355-01	0501_25	05/02/24 03:51	1	WG2278229
SG2	L1731355-02	0501_26	05/02/24 04:34	1	WG2278229

8B-OR ANALYTICAL SEQUENCE

SDG:	L1731355	**Analytical Method:**	TO-15
Instrument ID:	AIRMS16	**Calibration Start Date:**	04/26/24 18:53
		Calibration End Date:	04/27/24 00:41

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
TUNE	AIRMS160426240426_01720184	0426_01	04/26/24 09:01		
TUNE	AIRMS160426240426_02720184	0426_02	04/26/24 09:40		
CAL	.19	0426_11	04/26/24 18:53		
CAL	.31	0426_12	04/26/24 19:30		
CAL	.63	0426_13	04/26/24 20:06		
CAL	1.25	0426_14	04/26/24 20:43		
CAL	2.5	0426_15	04/26/24 21:21		
CAL	3.75	0426_16	04/26/24 22:01		
CAL	10	0426_17	04/26/24 22:37		
CAL	25	0426_18	04/26/24 23:15		
CAL	50	0426_19	04/26/24 23:56		
CAL	100	0426_20	04/27/24 00:41		
SSCV	AIRMS160426240426_22720184	0426_22	04/27/24 02:00		
ICV	AIRMS160503240503_01720184	0503_01	05/03/24 09:08		
TUNE	AIRMS160503240503_01T720184	0503_01T	05/03/24 09:08		
LCS	R4065813-1	0503_02	05/03/24 09:48	1	WG2279821
LCSD	R4065813-2	0503_03	05/03/24 10:28	1	WG2279821
BLANK	R4065813-3	0503_04	05/03/24 11:07	1	WG2279821
SG2	L1731355-02	0503_05	05/03/24 14:44	10	WG2279821
L1731734-01	L1731734-01	0503_06	05/03/24 15:23	1	WG2279821
L1731734-02	L1731734-02	0503_07	05/03/24 16:02	1	WG2279821
L1731822-01	L1731822-01	0503_08	05/03/24 16:41	1	WG2279821
L1731823-01	L1731823-01	0503_09	05/03/24 17:23	1	WG2279821
L1731823-02	L1731823-02	0503_10	05/03/24 18:04	1	WG2279821
L1731823-03	L1731823-03	0503_11	05/03/24 18:47	1	WG2279821
L1731833-02	L1731833-02	0503_12	05/03/24 19:25	2	WG2279821
L1731833-04	L1731833-04	0503_13	05/03/24 20:04	2	WG2279821
L1731833-01	L1731833-01	0503_14	05/03/24 20:41	4	WG2279821
L1731833-03	L1731833-03	0503_15	05/03/24 21:18	4	WG2279821
L1732314-13	L1732314-13	0503_17	05/03/24 22:36	1	WG2279821
L1732314-14	L1732314-14	0503_18	05/03/24 23:15	1	WG2279821
L1732314-15	L1732314-15	0503_19	05/03/24 23:59	1	WG2279821
L1732314-16	L1732314-16	0503_20	05/04/24 00:41	1	WG2279821
L1731712-01	L1731712-01	0503_21	05/04/24 01:19	10	WG2279821
L1731712-02	L1731712-02	0503_22	05/04/24 01:57	10	WG2279821
L1731803-01	L1731803-01	0503_23	05/04/24 02:34	10	WG2279821
SG1	L1731355-03	0503_24	05/04/24 03:13	100	WG2279821
SG-DUP 1	L1731355-04	0503_25	05/04/24 03:51	100	WG2279821

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1731355-01,02,03,04 **Analytical Method:** TO-15
Matrix: Air **Prep Method:** TO-15

Analyte	CAS	MDL	RDL
		ppbv	*ppbv*
Carbon tetrachloride	56-23-5	0.0732	0.20
Chlorobenzene	108-90-7	0.0832	0.20
Chloroethane	75-00-3	0.0996	0.20
Chloroform	67-66-3	0.0717	0.20
Chloromethane	74-87-3	0.1030	0.20
Cyclohexane	110-82-7	0.0753	0.20
Dibromochloromethane	124-48-1	0.0727	0.20
1,2-Dibromoethane	106-93-4	0.0721	0.20
1,2-Dichlorobenzene	95-50-1	0.1280	0.20
1,3-Dichlorobenzene	541-73-1	0.1820	0.20
Acetone	67-64-1	0.5840	1.25
1,4-Dichlorobenzene	106-46-7	0.0557	0.20
1,2-Dichloroethane	107-06-2	0.07	0.20
1,1-Dichloroethane	75-34-3	0.0723	0.20
1,1-Dichloroethene	75-35-4	0.0762	0.20
cis-1,2-Dichloroethene	156-59-2	0.0784	0.20
trans-1,2-Dichloroethene	156-60-5	0.0673	0.20
1,2-Dichloropropane	78-87-5	0.0760	0.20
cis-1,3-Dichloropropene	10061-01-5	0.0689	0.20
trans-1,3-Dichloropropene	10061-02-6	0.0728	0.20
Benzene	71-43-2	0.0715	0.20
Ethanol	64-17-5	0.2650	2.50
Ethylbenzene	100-41-4	0.0835	0.20
4-Ethyltoluene	622-96-8	0.0783	0.20
Ethyl acetate	141-78-6	0.10	0.63
Trichlorofluoromethane	75-69-4	0.0819	0.20
Dichlorodifluoromethane	75-71-8	0.1370	0.20
1,1,2-Trichlorotrifluoroethane	76-13-1	0.0793	0.20
1,2-Dichlorotetrafluoroethane	76-14-2	0.0890	0.20
Heptane	142-82-5	0.1040	0.20
Hexachloro-1,3-butadiene	87-68-3	0.1050	0.63
n-Hexane	110-54-3	0.2060	0.63
Isopropylbenzene	98-82-8	0.0777	0.20
Benzyl Chloride	100-44-7	0.0598	0.20
Methylene Chloride	75-09-2	0.0979	0.20
Methyl Butyl Ketone	591-78-6	0.1330	1.25
2-Butanone (MEK)	78-93-3	0.0814	1.25
4-Methyl-2-pentanone (MIBK)	108-10-1	0.0765	1.25
Methyl methacrylate	80-62-6	0.0876	0.20
MTBE	1634-04-4	0.0647	0.20
Naphthalene	91-20-3	0.35	0.63
2-Propanol	67-63-0	0.2640	1.25
Propene	115-07-1	0.0932	1.25
Styrene	100-42-5	0.0788	0.20
1,1,2,2-Tetrachloroethane	79-34-5	0.0743	0.20
Bromodichloromethane	75-27-4	0.0702	0.20
Tetrachloroethylene	127-18-4	0.0814	0.20
Tetrahydrofuran	109-99-9	0.0734	0.20
Toluene	108-88-3	0.0870	0.50
1,2,4-Trichlorobenzene	120-82-1	0.1480	0.63
1,1,1-Trichloroethane	71-55-6	0.0736	0.20

11-OR

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1731355-01,02,03,04 **Analytical Method:** TO-15

Matrix: Air **Prep Method:** TO-15

Analyte	CAS	MDL	RDL
		ppbv	*ppbv*
1,1,2-Trichloroethane	79-00-5	0.0775	0.20
Trichloroethylene	79-01-6	0.0680	0.20
1,2,4-Trimethylbenzene	95-63-6	0.0764	0.20
1,3,5-Trimethylbenzene	108-67-8	0.0779	0.20
2,2,4-Trimethylpentane	540-84-1	0.1330	0.20
Vinyl chloride	75-01-4	0.0949	0.20
Vinyl Bromide	593-60-2	0.0852	0.20
Vinyl acetate	108-05-4	0.1160	0.63
Xylenes, Total	1330-20-7	0.1350	0.60
Bromoform	75-25-2	0.0732	0.60
m&p-Xylene	179601-23-1	0.1350	0.40
o-Xylene	95-47-6	0.0828	0.20
Bromomethane	74-83-9	0.0982	0.20
1,3-Butadiene	106-99-0	0.1040	2
Carbon disulfide	75-15-0	0.1020	0.20

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R4064812-3

Lab Sample ID:	R4064812-3	**SDG:**	L1731355
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	0501_04	**Received Date/Time:**	
Instrument ID:	AIRMS13	**Preparation Date/Time:**	05/01/24 10:27
Analytical Batch:	WG2278229	**Analysis Date/Time:**	05/01/24 10:27
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
Acetone	67-64-1	7.17	U		0.584	1.25
Benzene	71-43-2	0	U		0.0715	0.200
Benzyl Chloride	100-44-7	0	U		0.0598	0.200
Bromodichloromethane	75-27-4	0	U		0.0702	0.200
Bromoform	75-25-2	0	U		0.0732	0.600
Bromomethane	74-83-9	0	U		0.0982	0.200
1,3-Butadiene	106-99-0	0	U		0.104	2.00
Carbon disulfide	75-15-0	0	U		0.102	0.200
Carbon tetrachloride	56-23-5	0	U		0.0732	0.200
Chlorobenzene	108-90-7	0	U		0.0832	0.200
Chloroethane	75-00-3	0	U		0.0996	0.200
Chloroform	67-66-3	0	U		0.0717	0.200
Chloromethane	74-87-3	0	U		0.103	0.200
Cyclohexane	110-82-7	0	U		0.0753	0.200
Dibromochloromethane	124-48-1	0	U		0.0727	0.200
1,2-Dibromoethane	106-93-4	0	U		0.0721	0.200
1,2-Dichlorobenzene	95-50-1	0	U		0.128	0.200
1,3-Dichlorobenzene	541-73-1	0	U		0.182	0.200
1,4-Dichlorobenzene	106-46-7	0	U		0.0557	0.200
1,2-Dichloroethane	107-06-2	0	U		0.0700	0.200
1,1-Dichloroethane	75-34-3	0	U		0.0723	0.200
1,1-Dichloroethene	75-35-4	0	U		0.0762	0.200
cis-1,2-Dichloroethene	156-59-2	0	U		0.0784	0.200
trans-1,2-Dichloroethene	156-60-5	0	U		0.0673	0.200
1,2-Dichloropropane	78-87-5	0	U		0.0760	0.200
cis-1,3-Dichloropropene	10061-01-5	0	U		0.0689	0.200
trans-1,3-Dichloropropene	10061-02-6	0	U		0.0728	0.200
Ethanol	64-17-5	6.60	U		0.265	2.50
Ethylbenzene	100-41-4	0	U		0.0835	0.200
4-Ethyltoluene	622-96-8	0	U		0.0783	0.200
Ethyl acetate	141-78-6	0	U		0.100	0.630
Trichlorofluoromethane	75-69-4	0	U		0.0819	0.200
Dichlorodifluoromethane	75-71-8	0	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	76-13-1	0	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	76-14-2	0	U		0.0890	0.200
Heptane	142-82-5	0	U		0.104	0.200
Hexachloro-1,3-butadiene	87-68-3	0	U		0.105	0.630
Isopropylbenzene	98-82-8	0	U		0.0777	0.200
Methylene Chloride	75-09-2	0	U		0.0979	0.200
Methyl Butyl Ketone	591-78-6	0	U		0.133	1.25
2-Butanone (MEK)	78-93-3	0	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	108-10-1	0	U		0.0765	1.25
Methyl methacrylate	80-62-6	11.01	U		0.0876	0.200

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4064812-3	**SDG:**	L1731355
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	0501_04	**Received Date/Time:**	
Instrument ID:	AIRMS13	**Preparation Date/Time:**	05/01/24 10:27
Analytical Batch:	WG2278229	**Analysis Date/Time:**	05/01/24 10:27
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
MTBE	1634-04-4	0	U		0.0647	0.200
Naphthalene	91-20-3	0	U		0.350	0.630
2-Propanol	67-63-0	7.30	U		0.264	1.25
Propene	115-07-1	0	U		0.0932	1.25
Styrene	100-42-5	0	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	79-34-5	0	U		0.0743	0.200
Tetrahydrofuran	109-99-9	0	U		0.0734	0.200
1,2,4-Trichlorobenzene	120-82-1	0	U		0.148	0.630
1,1,1-Trichloroethane	71-55-6	0	U		0.0736	0.200
1,1,2-Trichloroethane	79-00-5	0	U		0.0775	0.200
Trichloroethylene	79-01-6	0	U		0.0680	0.200
1,2,4-Trimethylbenzene	95-63-6	0	U		0.0764	0.200
1,3,5-Trimethylbenzene	108-67-8	0	U		0.0779	0.200
2,2,4-Trimethylpentane	540-84-1	0	U		0.133	0.200
Vinyl chloride	75-01-4	0	U		0.0949	0.200
Vinyl Bromide	593-60-2	0	U		0.0852	0.200
Vinyl acetate	108-05-4	0	U		0.116	0.630
Xylenes, Total	1330-20-7	0	U		0.135	0.600
m&p-Xylene	179601-23-1	0	U		0.135	0.400
o-Xylene	95-47-6	0	U		0.0828	0.200

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_04.D
Acq On : 1 May 2024 10:27 am
Operator :
Sample : BLANK 1x WG2278229
Misc : 24D29341
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 10:52:30 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

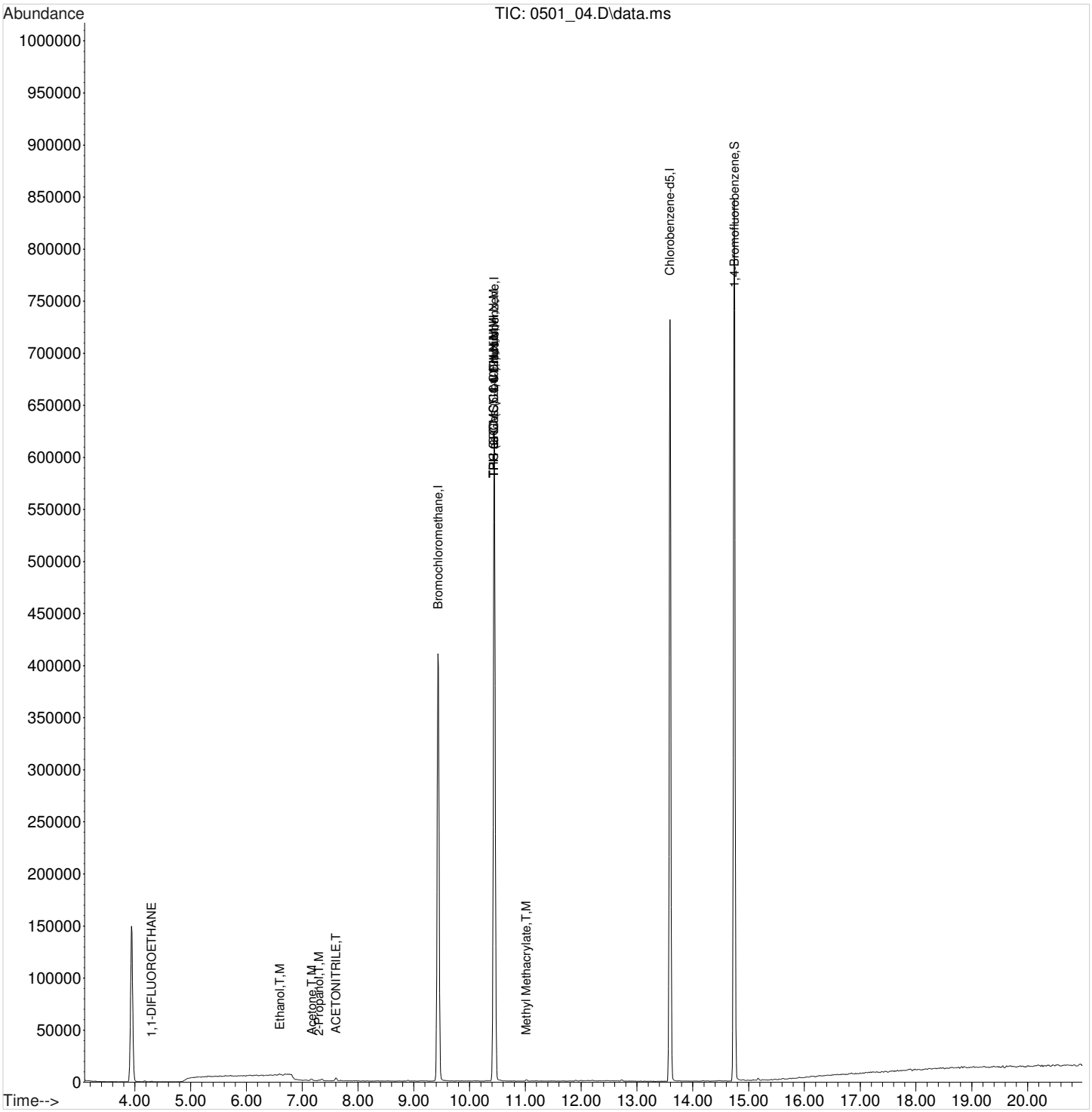
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.433	130	137505	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	10.445	114	533865	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	13.591	117	396257	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	14.743	95	322878	4.0116948	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.29%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	267160m	2.8602930	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	596995m	7.5571572	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	2861162m	33.3825649	ppbv	
7) 1,1-DIFLUOROETHANE	4.300	65	273	0.0385491	ppbv #	67
20) Ethanol	6.598	45	1220	0.2087279	ppbv	96
24) Acetone	7.171	58	352	0.0598644	ppbv #	1
26) 2-Propanol	7.299	45	788	0.0315045	ppbv #	76
30) ACETONITRILE	7.604	41	3942	0.2816656	ppbv #	93
59) Methyl Methacrylate	11.012	69	543	0.0481821	ppbv #	52

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_04.D
Acq On : 1 May 2024 10:27 am
Operator :
Sample : BLANK 1x WG2278229
Misc : 24D29341
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 10:52:30 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4065178-3	**SDG:**	L1731355
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	0502_04	**Received Date/Time:**	
Instrument ID:	AIRMS8	**Preparation Date/Time:**	05/02/24 09:49
Analytical Batch:	WG2278934	**Analysis Date/Time:**	05/02/24 09:49
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
n-Hexane	110-54-3	0	U		0.206	0.630
Tetrachloroethylene	127-18-4	0	U		0.0814	0.200
Toluene	108-88-3	5.51	U		0.0870	0.500

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_04.D
Acq On : 02 May 2024 09:49 am
Operator :
Sample : BLANK 1x WG2278934
Misc : 24D25866
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 02 10:14:44 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

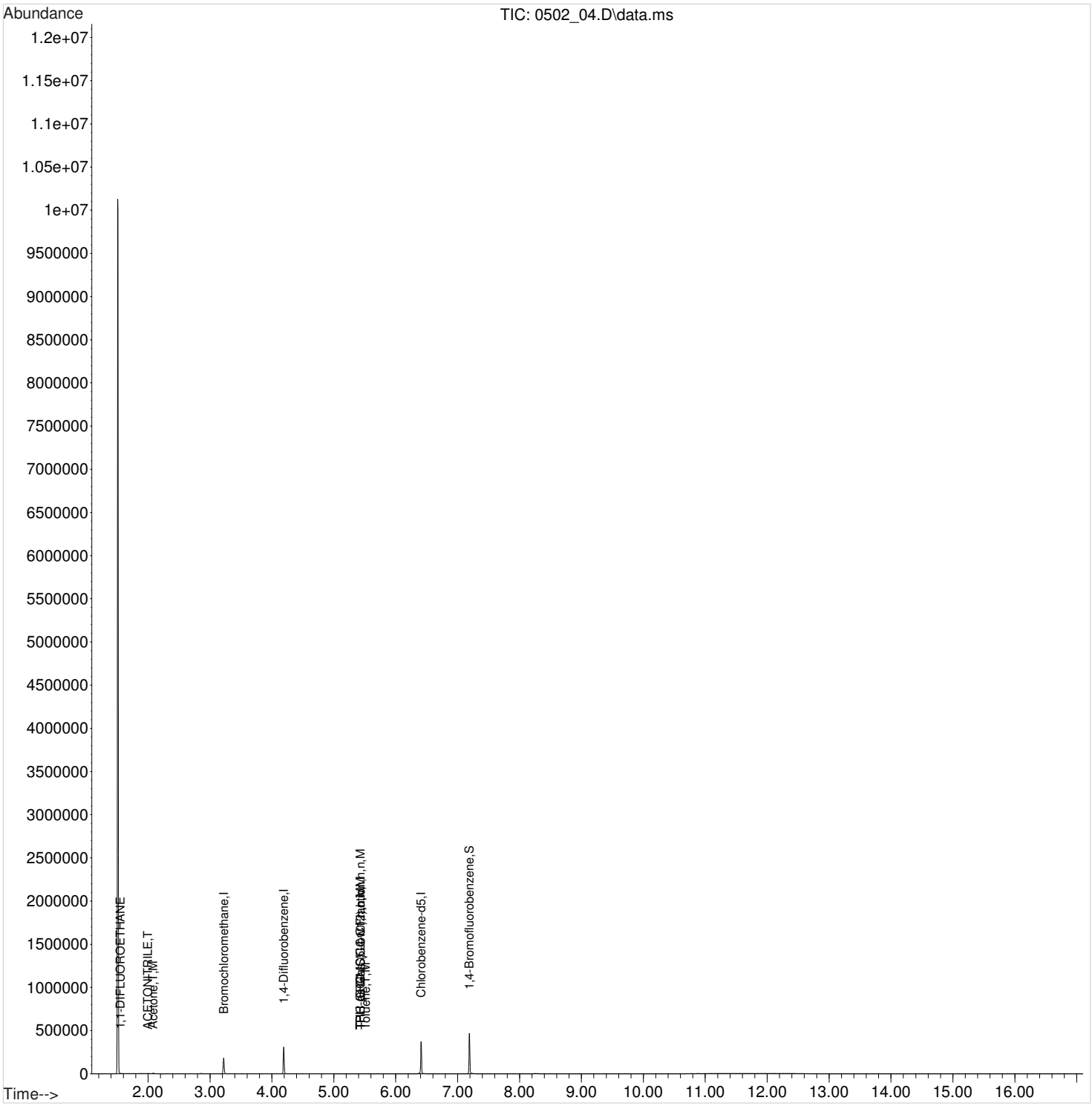
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.222	130	44597	4.0000000	ppbv	0.01
50) 1,4-Difluorobenzene	4.193	114	154636	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	6.410	117	123099	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	7.189	95	76187	3.6659273	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 91.65%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	5.430	TIC	1253492m	32.7070730	ppbv	
3) TPH-GRO (C5-C10)	5.430	TIC	1498176m	53.8121418	ppbv	
4) THC as Gas (C4-C12)	5.430	TIC	1608491m	54.6727858	ppbv	
7) 1,1-DIFLUOROETHANE	1.553	65	1508	0.7532498	ppbv #	3
24) Acetone	2.084	58	2124	1.0547943	ppbv #	48
30) ACETONITRILE	1.997	41	2610	1.1431667	ppbv #	4
65) Toluene	5.515	91	598	0.0608614	ppbv	97

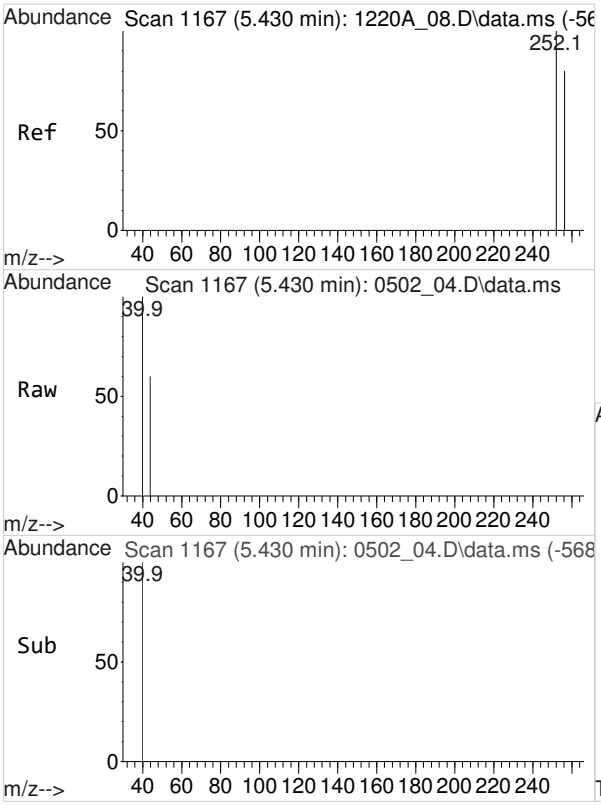
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_04.D
Acq On : 02 May 2024 09:49 am
Operator :
Sample : BLANK 1x WG2278934
Misc : 24D25866
ALS Vial : 4 Sample Multiplier: 1

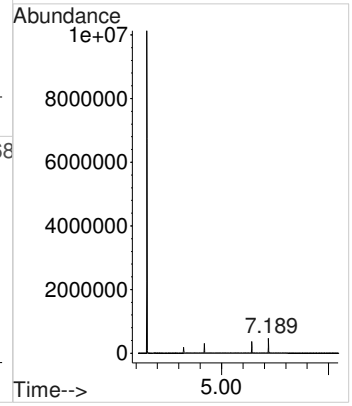
Quant Time: May 02 10:14:44 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

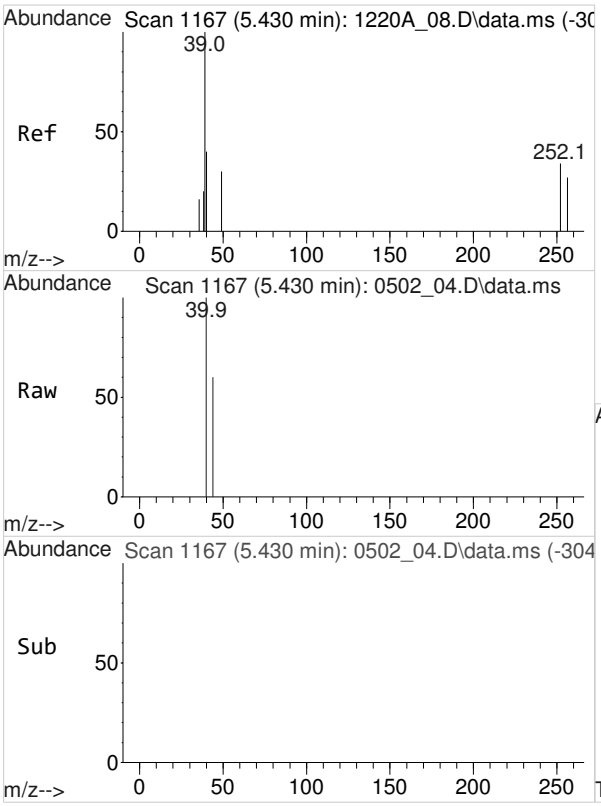




#2
TPH (GC/MS) Low Fraction
Concen: 32.7070730 ppbv m
RT: 5.430 min Scan# 1167
Delta R.T. 0.000 min
Lab File: 0502_04.D
Acq: 02 May 2024 09:49 am

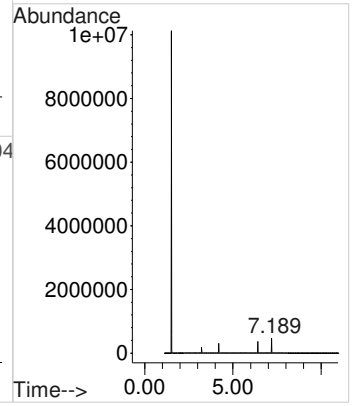
Tgt Ion:TIC Resp: 1253492

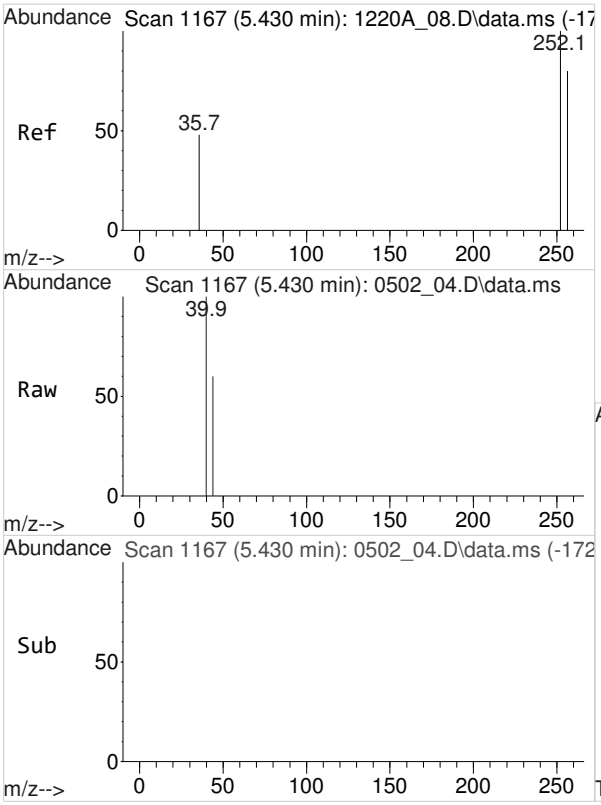




#3
TPH-GRO (C5-C10)
Concen: 53.8121418 ppbv m
RT: 5.430 min Scan# 1167
Delta R.T. 0.000 min
Lab File: 0502_04.D
Acq: 02 May 2024 09:49 am

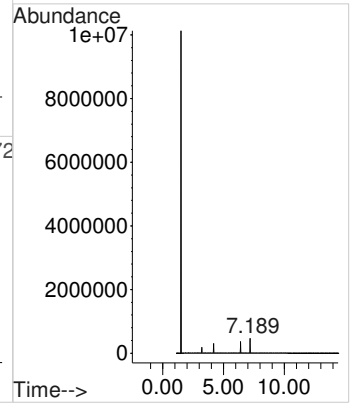
Tgt Ion:TIC Resp: 1498176

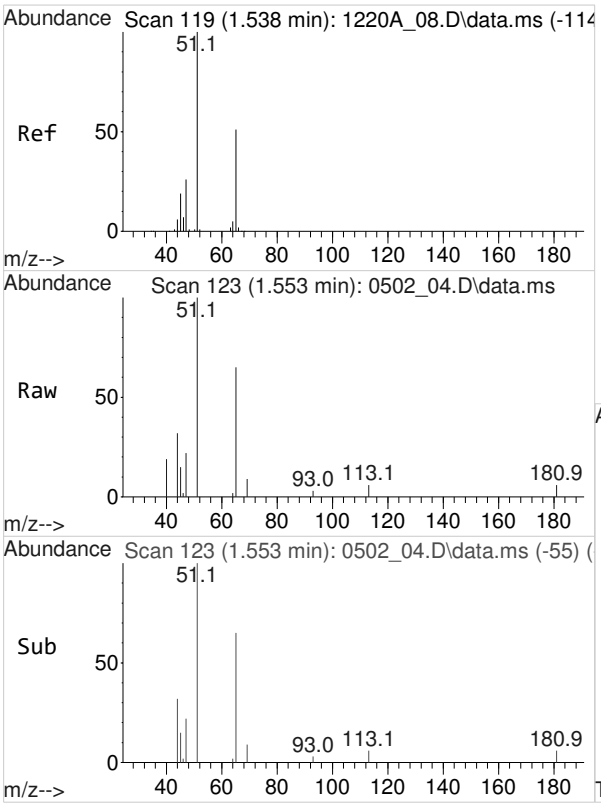




#4
THC as Gas (C4-C12)
Concen: 54.6727858 ppbv m
RT: 5.430 min Scan# 1167
Delta R.T. 0.000 min
Lab File: 0502_04.D
Acq: 02 May 2024 09:49 am

Tgt Ion:TIC Resp: 1608491

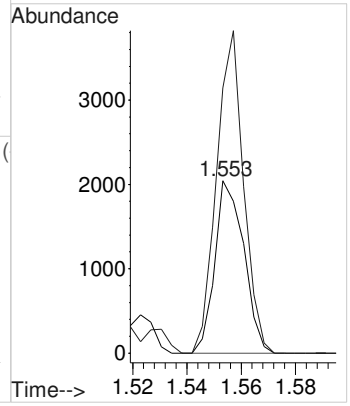


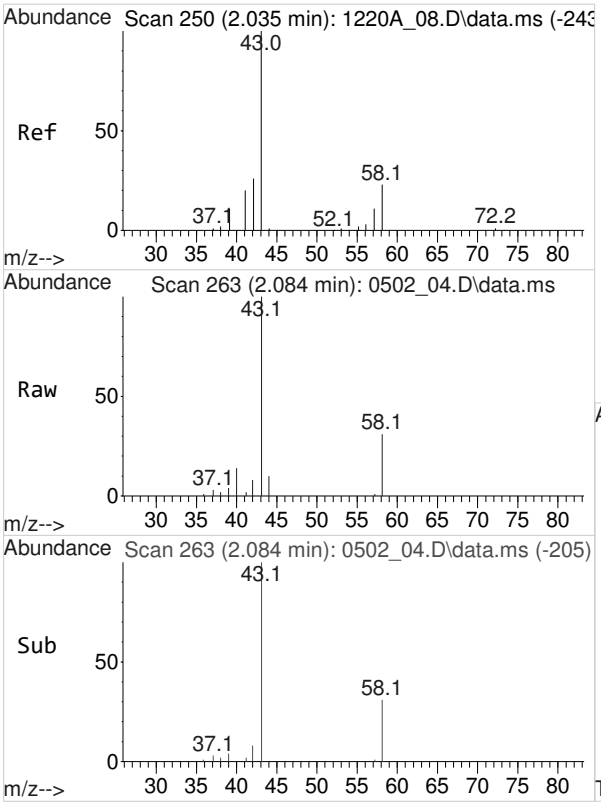


#7
1,1-DIFLUOROETHANE
Concen: 0.7532498 ppbv
RT: 1.553 min Scan# 123
Delta R.T. 0.007 min
Lab File: 0502_04.D
Acq: 02 May 2024 09:49 am

Tgt Ion: 65 Resp: 1508

Ion	Ratio	Lower	Upper
65	100		
51	174.4	324.4	486.6#

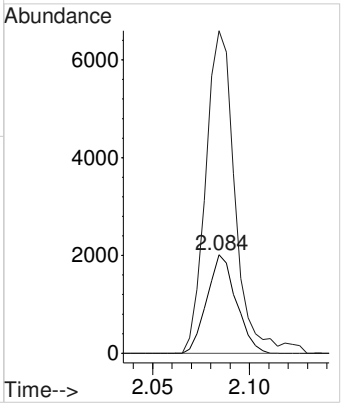


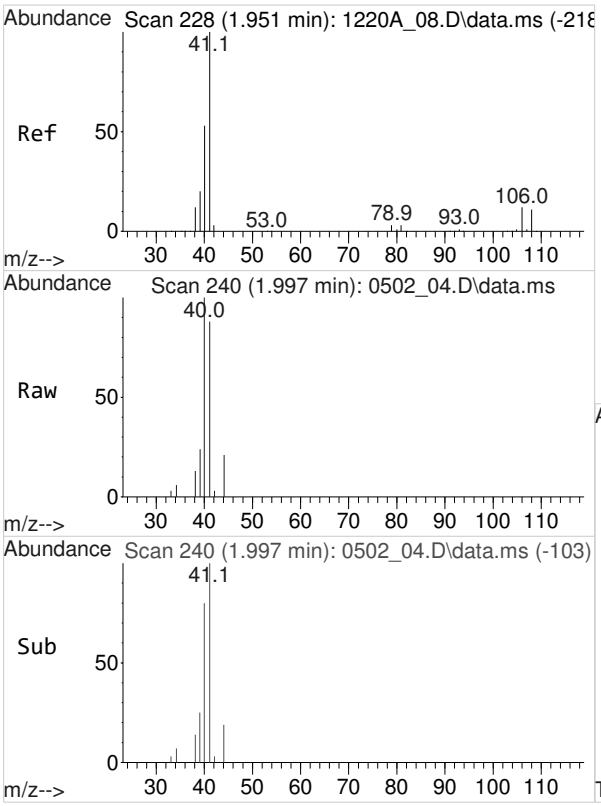


#24
Acetone
Concen: 1.0547943 ppbv
RT: 2.084 min Scan# 263
Delta R.T. 0.019 min
Lab File: 0502_04.D
Acq: 02 May 2024 09:49 am

Tgt Ion: 58 Resp: 2124

Ion	Ratio	Lower	Upper
58	100		
43	329.5	372.3	558.5#

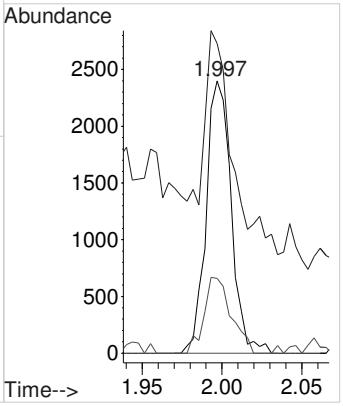


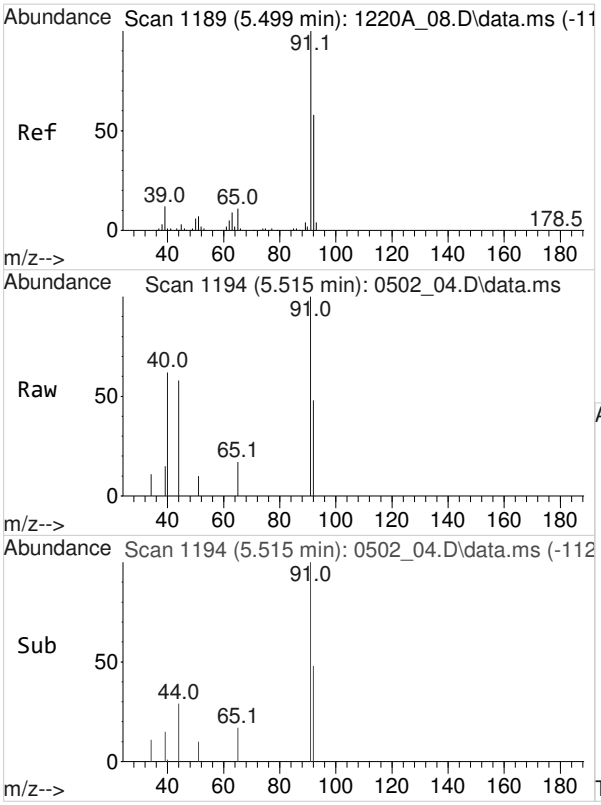


#30
ACETONITRILE
Concen: 1.1431667 ppbv
RT: 1.997 min Scan# 240
Delta R.T. 0.019 min
Lab File: 0502_04.D
Acq: 02 May 2024 09:49 am

Tgt Ion: 41 Resp: 2610

Ion	Ratio	Lower	Upper
41	100		
40	139.7	42.2	63.2#
39	30.4	15.8	23.8#

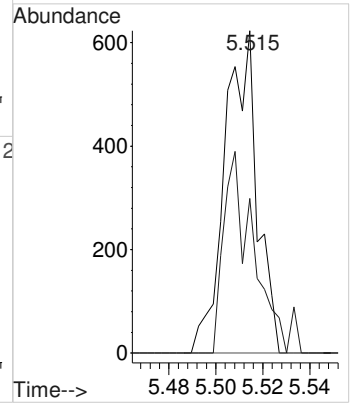




#65
Toluene
Concen: 0.0608614 ppbv
RT: 5.515 min Scan# 1194
Delta R.T. 0.010 min
Lab File: 0502_04.D
Acq: 02 May 2024 09:49 am

Tgt Ion: 91 Resp: 598

Ion	Ratio	Lower	Upper
91	100		
92	56.2	47.0	70.4



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R4065813-3

Lab Sample ID:	R4065813-3	**SDG:**	L1731355
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	0503_04	**Received Date/Time:**	
Instrument ID:	AIRMS16	**Preparation Date/Time:**	05/03/24 11:07
Analytical Batch:	WG2279821	**Analysis Date/Time:**	05/03/24 11:07
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
Acetone	67-64-1	5.94	U		0.584	1.25
Benzene	71-43-2	0	U		0.0715	0.200
Benzyl Chloride	100-44-7	0	U		0.0598	0.200
Bromodichloromethane	75-27-4	0	U		0.0702	0.200
Bromoform	75-25-2	0	U		0.0732	0.600
Bromomethane	74-83-9	0	U		0.0982	0.200
1,3-Butadiene	106-99-0	0	U		0.104	2.00
Carbon disulfide	75-15-0	0	U		0.102	0.200
Carbon tetrachloride	56-23-5	0	U		0.0732	0.200
Chlorobenzene	108-90-7	0	U		0.0832	0.200
Chloroethane	75-00-3	0	U		0.0996	0.200
Chloroform	67-66-3	0	U		0.0717	0.200
Chloromethane	74-87-3	0	U		0.103	0.200
Cyclohexane	110-82-7	0	U		0.0753	0.200
Dibromochloromethane	124-48-1	0	U		0.0727	0.200
1,2-Dibromoethane	106-93-4	0	U		0.0721	0.200
1,2-Dichlorobenzene	95-50-1	0	U		0.128	0.200
1,3-Dichlorobenzene	541-73-1	0	U		0.182	0.200
1,4-Dichlorobenzene	106-46-7	0	U		0.0557	0.200
1,2-Dichloroethane	107-06-2	0	U		0.0700	0.200
1,1-Dichloroethane	75-34-3	0	U		0.0723	0.200
1,1-Dichloroethene	75-35-4	0	U		0.0762	0.200
cis-1,2-Dichloroethene	156-59-2	0	U		0.0784	0.200
trans-1,2-Dichloroethene	156-60-5	0	U		0.0673	0.200
1,2-Dichloropropane	78-87-5	0	U		0.0760	0.200
cis-1,3-Dichloropropene	10061-01-5	0	U		0.0689	0.200
trans-1,3-Dichloropropene	10061-02-6	0	U		0.0728	0.200
Ethanol	64-17-5	5.49	U		0.265	2.50
Ethylbenzene	100-41-4	0	U		0.0835	0.200
4-Ethyltoluene	622-96-8	0	U		0.0783	0.200
Ethyl acetate	141-78-6	0	U		0.100	0.630
Trichlorofluoromethane	75-69-4	0	U		0.0819	0.200
Dichlorodifluoromethane	75-71-8	4.16	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	76-13-1	0	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	76-14-2	0	U		0.0890	0.200
Heptane	142-82-5	0	U		0.104	0.200
Hexachloro-1,3-butadiene	87-68-3	0	U		0.105	0.630
n-Hexane	110-54-3	0	U		0.206	0.630
Isopropylbenzene	98-82-8	0	U		0.0777	0.200
Methylene Chloride	75-09-2	0	U		0.0979	0.200
Methyl Butyl Ketone	591-78-6	0	U		0.133	1.25
2-Butanone (MEK)	78-93-3	0	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	108-10-1	0	U		0.0765	1.25

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R4065813-3

Lab Sample ID:	R4065813-3	**SDG:**	L1731355
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	0503_04	**Received Date/Time:**	
Instrument ID:	AIRMS16	**Preparation Date/Time:**	05/03/24 11:07
Analytical Batch:	WG2279821	**Analysis Date/Time:**	05/03/24 11:07
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	200 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
Methyl methacrylate	80-62-6	0	U		0.0876	0.200
MTBE	1634-04-4	0	U		0.0647	0.200
Naphthalene	91-20-3	16.21	U		0.350	0.630
2-Propanol	67-63-0	0	U		0.264	1.25
Propene	115-07-1	0	U		0.0932	1.25
Styrene	100-42-5	0	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	79-34-5	0	U		0.0743	0.200
Tetrachloroethylene	127-18-4	0	U		0.0814	0.200
Tetrahydrofuran	109-99-9	0	U		0.0734	0.200
Toluene	108-88-3	0	U		0.0870	0.500
1,2,4-Trichlorobenzene	120-82-1	15.89	U		0.148	0.630
1,1,1-Trichloroethane	71-55-6	0	U		0.0736	0.200
1,1,2-Trichloroethane	79-00-5	0	U		0.0775	0.200
Trichloroethylene	79-01-6	0	U		0.0680	0.200
1,2,4-Trimethylbenzene	95-63-6	0	U		0.0764	0.200
1,3,5-Trimethylbenzene	108-67-8	0	U		0.0779	0.200
2,2,4-Trimethylpentane	540-84-1	0	U		0.133	0.200
Vinyl chloride	75-01-4	0	U		0.0949	0.200
Vinyl Bromide	593-60-2	0	U		0.0852	0.200
Vinyl acetate	108-05-4	0	U		0.116	0.630
Xylenes, Total	1330-20-7	0	U		0.135	0.600
m&p-Xylene	179601-23-1	0	U		0.135	0.400
o-Xylene	95-47-6	0	U		0.0828	0.200

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_04.D
Acq On : 3 May 2024 11:07 am
Operator :
Sample : BLANK 1x WG2279821
Misc : 24D22236
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 03 14:14:20 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

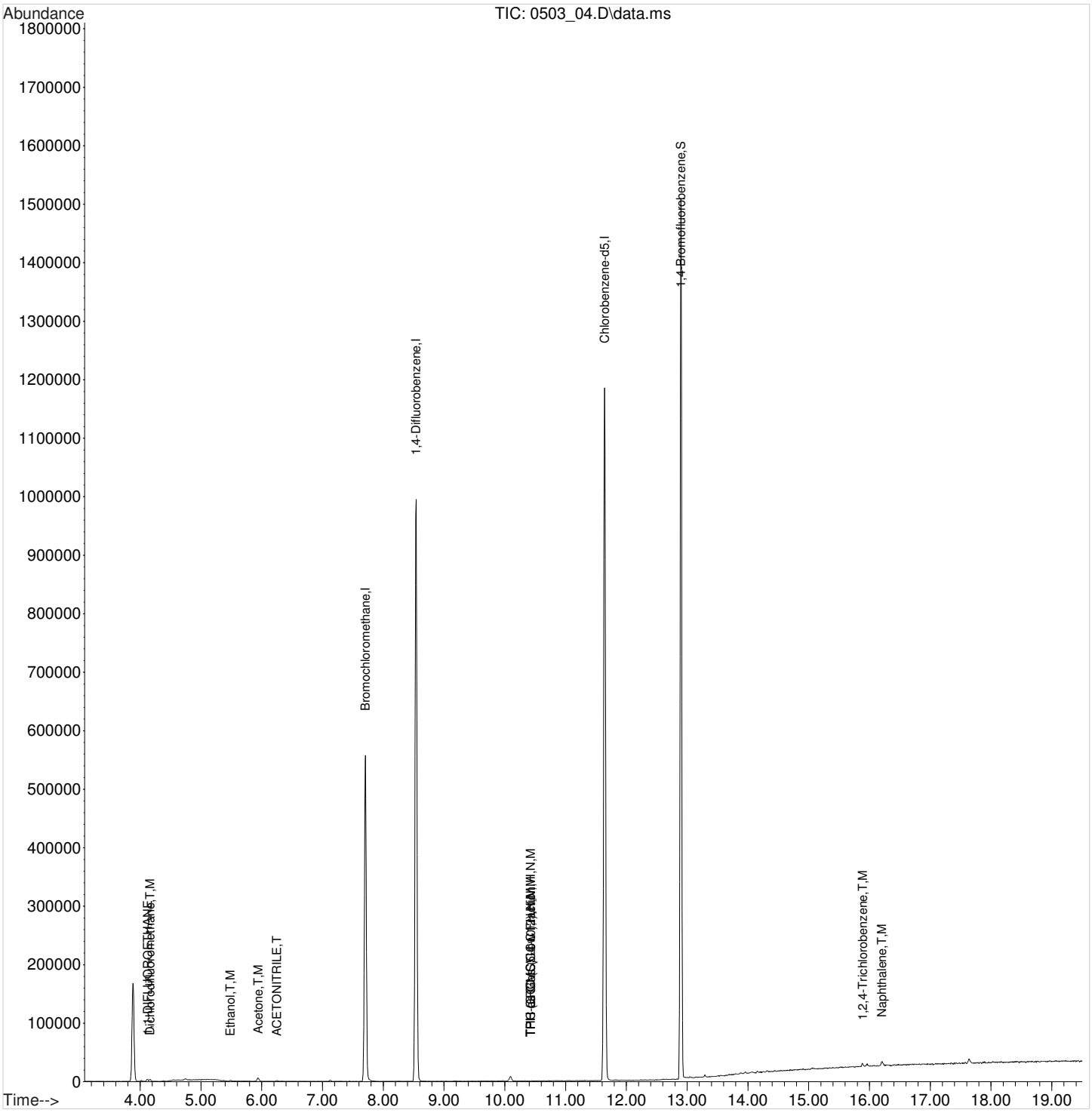
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.708	130	216000	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	8.541	114	913827	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	11.642	117	815101	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	12.895	95	549914	3.7852015	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 94.63%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	663796m	4.3195517	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	745448m	5.8396640	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	7309203m	45.8583208	ppbv	
7) 1,1-DIFLUOROETHANE	4.124	65	1284	0.1266475	ppbv	93
8) Dichlorodifluoromethane	4.164	85	4248	0.1130467	ppbv	93
20) Ethanol	5.485	45	1348	0.1605937	ppbv #	77
24) Acetone	5.944	58	2198	0.2256277	ppbv	76
30) ACETONITRILE	6.250	41	1529	0.0844295	ppbv #	68
101) 1,2,4-Trichlorobenzene	15.889	180	2461	0.0531693	ppbv	95
103) Naphthalene	16.206	128	7269	0.0652093	ppbv #	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_04.D
Acq On : 3 May 2024 11:07 am
Operator :
Sample : BLANK 1x WG2279821
Misc : 24D22236
ALS Vial : 4 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 03 14:14:20 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4064812-1	**SDG:**	L1731355
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	0501_02	**Received Date/Time:**	
Instrument ID:	AIRMS13	**Preparation Date/Time:**	05/01/24 09:01
Analytical Batch:	WG2278229	**Analysis Date/Time:**	05/01/24 09:01
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
Acetone	67-64-1	7.15	3.79		0.584	1.25
Benzene	71-43-2	10.07	3.62		0.0715	0.200
Benzyl Chloride	100-44-7	16.02	3.83		0.0598	0.200
Bromodichloromethane	75-27-4	11.30	3.51		0.0702	0.200
Bromoform	75-25-2	14.46	3.47		0.0732	0.600
Bromomethane	74-83-9	5.68	3.42		0.0982	0.200
1,3-Butadiene	106-99-0	5.07	3.83		0.104	2.00
Carbon disulfide	75-15-0	7.34	3.47		0.102	0.200
Carbon tetrachloride	56-23-5	9.82	3.53		0.0732	0.200
Chlorobenzene	108-90-7	13.62	3.36		0.0832	0.200
Chloroethane	75-00-3	5.85	3.54		0.0996	0.200
Chloroform	67-66-3	9.46	3.53		0.0717	0.200
Chloromethane	74-87-3	4.79	3.64		0.103	0.200
Cyclohexane	110-82-7	9.67	3.91		0.0753	0.200
Dibromochloromethane	124-48-1	13.04	3.37		0.0727	0.200
1,2-Dibromoethane	106-93-4	13.20	3.53		0.0721	0.200
1,2-Dichlorobenzene	95-50-1	16.28	3.57		0.128	0.200
1,3-Dichlorobenzene	541-73-1	15.82	3.58		0.182	0.200
1,4-Dichlorobenzene	106-46-7	15.91	3.66		0.0557	0.200
1,2-Dichloroethane	107-06-2	10.15	3.49		0.0700	0.200
1,1-Dichloroethane	75-34-3	8.50	3.66		0.0723	0.200
1,1-Dichloroethene	75-35-4	7	3.51		0.0762	0.200
cis-1,2-Dichloroethene	156-59-2	9.15	3.80		0.0784	0.200
trans-1,2-Dichloroethene	156-60-5	7.96	3.71		0.0673	0.200
1,2-Dichloropropane	78-87-5	11.04	3.74		0.0760	0.200
cis-1,3-Dichloropropene	10061-01-5	11.79	3.94		0.0689	0.200
trans-1,3-Dichloropropene	10061-02-6	12.40	3.65		0.0728	0.200
Ethanol	64-17-5	6.57	3.78		0.265	2.50
Ethylbenzene	100-41-4	13.65	3.59		0.0835	0.200
4-Ethyltoluene	622-96-8	15.02	3.79		0.0783	0.200
Ethyl acetate	141-78-6	9.12	3.74		0.100	0.630
Trichlorofluoromethane	75-69-4	6.21	3.45		0.0819	0.200
Dichlorodifluoromethane	75-71-8	4.33	3.71		0.137	0.200
1,1,2-Trichlorotrifluoroethane	76-13-1	6.92	3.37		0.0793	0.200
1,2-Dichlorotetrafluoroethane	76-14-2	4.62	3.60		0.0891	0.200
Heptane	142-82-5	10.13	3.80		0.104	0.200
Hexachloro-1,3-butadiene	87-68-3	17.99	3.49		0.105	0.630
Isopropylbenzene	98-82-8	14.50	3.95		0.0777	0.200
Methylene Chloride	75-09-2	7.68	3.55		0.0979	0.200
Methyl Butyl Ketone	591-78-6	12.80	3.74		0.133	1.25
2-Butanone (MEK)	78-93-3	9.15	3.97		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	108-10-1	11.90	4.01		0.0765	1.25
Methyl methacrylate	80-62-6	11.01	3.80		0.0876	0.200

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4064812-1	**SDG:**	L1731355
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	0501_02	**Received Date/Time:**	
Instrument ID:	AIRMS13	**Preparation Date/Time:**	05/01/24 09:01
Analytical Batch:	WG2278229	**Analysis Date/Time:**	05/01/24 09:01
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
MTBE	1634-04-4	7.92	3.84		0.0647	0.200
Naphthalene	91-20-3	18.23	3.87		0.350	0.630
2-Propanol	67-63-0	7.28	3.91		0.264	1.25
Propene	115-07-1	4.25	3.83		0.0932	1.25
Styrene	100-42-5	14.19	3.94		0.0788	0.200
1,1,2,2-Tetrachloroethane	79-34-5	14.86	3.57		0.0743	0.200
Tetrahydrofuran	109-99-9	9.45	3.89		0.0734	0.200
1,2,4-Trichlorobenzene	120-82-1	17.91	3.60		0.148	0.630
1,1,1-Trichloroethane	71-55-6	9.67	3.56		0.0736	0.200
1,1,2-Trichloroethane	79-00-5	12.63	3.42		0.0775	0.200
Trichloroethylene	79-01-6	10.74	3.72		0.0680	0.200
1,2,4-Trimethylbenzene	95-63-6	15.46	3.96		0.0764	0.200
1,3,5-Trimethylbenzene	108-67-8	15.08	3.78		0.0779	0.200
2,2,4-Trimethylpentane	540-84-1	9.98	3.80		0.133	0.200
Vinyl chloride	75-01-4	5.01	3.58		0.0949	0.200
Vinyl Bromide	593-60-2	6.16	3.59		0.0852	0.200
Vinyl acetate	108-05-4	8.47	4.05		0.116	0.630
Xylenes, Total	1330-20-7	14.17	11.4		0.200	0.600
m&p-Xylene	179601-23-1	13.76	7.53		0.135	0.400
o-Xylene	95-47-6	14.17	3.90		0.0828	0.200

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_02.D
Acq On : 1 May 2024 9:01 am
Operator :
Sample : LCS 1x WG2278229
Misc : 24D29341
ALS Vial : 2 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 10:32:28 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.433	130	141913	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	10.439	114	552096	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	13.591	117	430495	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	14.743	95	342246	3.9141427	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 97.85%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	15961137m	165.5769425	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	20171859m	247.4174232	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	30299111m	342.5338605	ppbv	
5) Propene	4.251	41	40771	3.8340479	ppbv	97
6) BUTANE	4.965	43	82375	3.5383047	ppbv	100
7) 1,1-DIFLUOROETHANE	4.276	65	26432	3.6164128	ppbv	99
8) Dichlorodifluoromethane	4.331	85	100313	3.7102769	ppbv	100
9) CHLORODIFLUOROMETHANE	4.392	67	11451	3.7983588	ppbv	86
10) 1,2-Dichlorotetrafluor...	4.623	85	104951	3.6030067	ppbv	100
11) Chloromethane	4.788	50	46552	3.6351257	ppbv	100
12) Vinyl Chloride	5.007	62	48497	3.5810259	ppbv	98
13) 1,3-Butadiene	5.074	54	37518	3.8311367	ppbv	98
14) Bromomethane	5.684	94	39345	3.4231514	ppbv	99
15) Chloroethane	5.855	64	22539	3.5400259	ppbv	97
16) ISOPENTANE	5.885	43	59345	3.5643458	ppbv	95
17) Vinyl Bromide	6.159	106	36366	3.5937547	ppbv	100
18) Trichlorofluoromethane	6.214	101	107645	3.4495587	ppbv	100
19) PENTANE	6.294	43	88891	3.6287398	ppbv	99
20) Ethanol	6.574	45	22781	3.7765025	ppbv	98
21) ACROLEIN	6.946	56	20381	3.4439285	ppbv	96
22) 1,1,2-Trichlorotrifluo...	6.915	101	80908	3.3704036	ppbv	99
23) 1,1-Dichloroethene	7.001	61	74834	3.5097857	ppbv	99
24) Acetone	7.153	58	22995	3.7892699	ppbv	97
25) BROMOETHANE	7.275	108	29469	3.5757340	ppbv	97
26) 2-Propanol	7.281	45	100911	3.9091391	ppbv	93
27) Carbon Disulfide	7.342	76	125588	3.4675943	ppbv	99
28) Allyl Chloride	7.501	76	18343	3.7294859	ppbv	95
29) METHYL ACETATE	7.507	43	108143	3.7127274	ppbv #	99
30) ACETONITRILE	7.592	41	258282	17.8816502	ppbv	99
31) Methylene Chloride	7.684	49	64368	3.5446434	ppbv	99
32) TERT-BUTYL ALCOHOL	7.775	59	96329	3.7281054	ppbv #	90
33) Methyl Tert-Butyl Ether	7.921	73	109509	3.8389044	ppbv	100
34) Trans-1,2-Dichloroethene	7.958	61	68028	3.7045545	ppbv	99
35) ACRYLONITRILE	8.049	53	41111	3.7200884	ppbv	98
36) n-Hexane	8.147	57	65889	3.7437734	ppbv	92
37) 1,1-Dichloroethane	8.500	63	86473	3.6573130	ppbv	98
38) Vinyl Acetate	8.470	43	138992	4.0545408	ppbv	100
39) DI-ISOPROPYL ETHER	8.415	45	170452	3.9360179	ppbv	92
40) ETHYL TERT-BUTYL ETHER	8.818	59	135789	3.9101999	ppbv	99
41) ETHYL ACETATE	9.116	70	11524	3.7434443	ppbv	98

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_02.D
Acq On : 1 May 2024 9:01 am
Operator :
Sample : LCS 1x WG2278229
Misc : 24D29341
ALS Vial : 2 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 10:32:28 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42)	2-Butanone (MEK)	9.147	72	21534	3.9662457	ppbv	100
43)	cis-1,2-Dichloroethene	9.147	61	82206	3.7969761	ppbv	99
44)	Tetrahydrofuran	9.452	42	63546	3.8939215	ppbv	97
45)	Chloroform	9.458	83	95162	3.5339681	ppbv	100
46)	Cyclohexane	9.671	84	47336	3.9070462	ppbv	98
47)	1,1,1-Trichloroethane	9.671	97	83190	3.5554502	ppbv	99
48)	Carbon Tetrachloride	9.817	117	83290	3.5279761	ppbv	98
49)	2,2,4-Trimethylpentane	9.976	57	213937	3.7953511	ppbv	96
51)	Benzene	10.073	78	133668	3.6233395	ppbv	98
52)	TERT-AMYL METHYL ETHER	10.079	73	116248	3.7648486	ppbv	95
53)	1,2-Dichloroethane	10.147	62	68982	3.4911556	ppbv	97
54)	Heptane	10.134	71	42750	3.7971475	ppbv	94
55)	Trichloroethene	10.738	95	55793	3.7163908	ppbv	99
56)	TERT-AMYL ETHYL ETHER	10.848	73	35644	3.7840484	ppbv	90
57)	METHYL CYCLOHEXANE	10.896	83	68284	3.8173748	ppbv	91
58)	1,2-Dichloropropane	11.043	63	59633	3.7382836	ppbv	98
59)	Methyl Methacrylate	11.006	69	44262	3.7978141	ppbv	98
60)	1,4-Dioxane	11.140	88	25014	3.8190213	ppbv	96
61)	Bromodichloromethane	11.305	83	92412	3.5053341	ppbv	99
62)	cis-1,3-Dichloropropene	11.786	75	80568	3.9377769	ppbv	99
63)	4-Methyl-2-Pentanone (...	11.896	43	139588	4.0057035	ppbv	98
64)	n-OCTANE	12.030	43	135161	4.0223801	ppbv	99
65)	Toluene	12.134	91	149076	3.7744015	ppbv	98
66)	trans-1,3-Dichloropropene	12.402	75	60560	3.6478665	ppbv	99
67)	1,1,2-Trichloroethane	12.628	97	44350	3.4219850	ppbv	94
68)	Tetrachloroethene	12.725	166	51074	3.5487954	ppbv	99
69)	Methyl Butyl Ketone	12.798	43	109298	3.7397800	ppbv	97
70)	Chlorodibromomethane	13.042	129	70844	3.3669975	ppbv	99
71)	1,2-Dibromoethane	13.201	107	63949	3.5266845	ppbv	99
72)	Chlorobenzene	13.621	112	91939	3.3583264	ppbv	97
73)	NONANE	13.597	43	113212	3.6076585	ppbv	99
75)	Ethylbenzene	13.652	91	154143	3.5868721	ppbv	99
76)	M&P-Xylene	13.756	91	243051	7.5314959	ppbv	99
77)	O-Xylene	14.170	91	119823	3.8992900	ppbv	100
80)	Styrene	14.188	104	87174	3.9378766	ppbv	98
81)	Bromoform	14.457	173	63244	3.4743279	ppbv	98
82)	Isopropylbenzene	14.499	105	155963	3.9518794	ppbv	99
83)	n-DECANE	14.914	43	122841	3.9626641	ppbv	99
84)	1,1,2,2-Tetrachloroethane	14.859	83	105823	3.5729834	ppbv	99
85)	n-Propylbenzene	14.914	91	217494	3.7446519	ppbv	99
86)	4-Ethyltoluene	15.024	105	158730	3.7906256	ppbv	97
87)	2-Chlorotoluene	15.078	91	148188	3.6478697	ppbv	99
89)	1,3,5-Trimethylbenzene	15.078	105	134585	3.7825312	ppbv	97
90)	tert-Butylbenzene	15.408	119	116931	3.8714801	ppbv	98
91)	1,2,4-Trimethylbenzene	15.463	105	141093	3.9615070	ppbv	98
92)	sec-Butylbenzene	15.615	105	199574	3.8774201	ppbv	99
93)	1,3-Dichlorobenzene	15.822	146	88981	3.5754263	ppbv	94
94)	P-ISOPROPYLTOLUENE	15.737	119	158609	3.8583774	ppbv	98
95)	1,4-Dichlorobenzene	15.908	146	92226	3.6557740	ppbv	99
96)	1,2,3-TRIMETHYLBENZENE	15.895	105	141011	3.8738300	ppbv	99

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_02.D
Acq On : 1 May 2024 9:01 am
Operator :
Sample : LCS 1x WG2278229
Misc : 24D29341
ALS Vial : 2 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 10:32:28 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

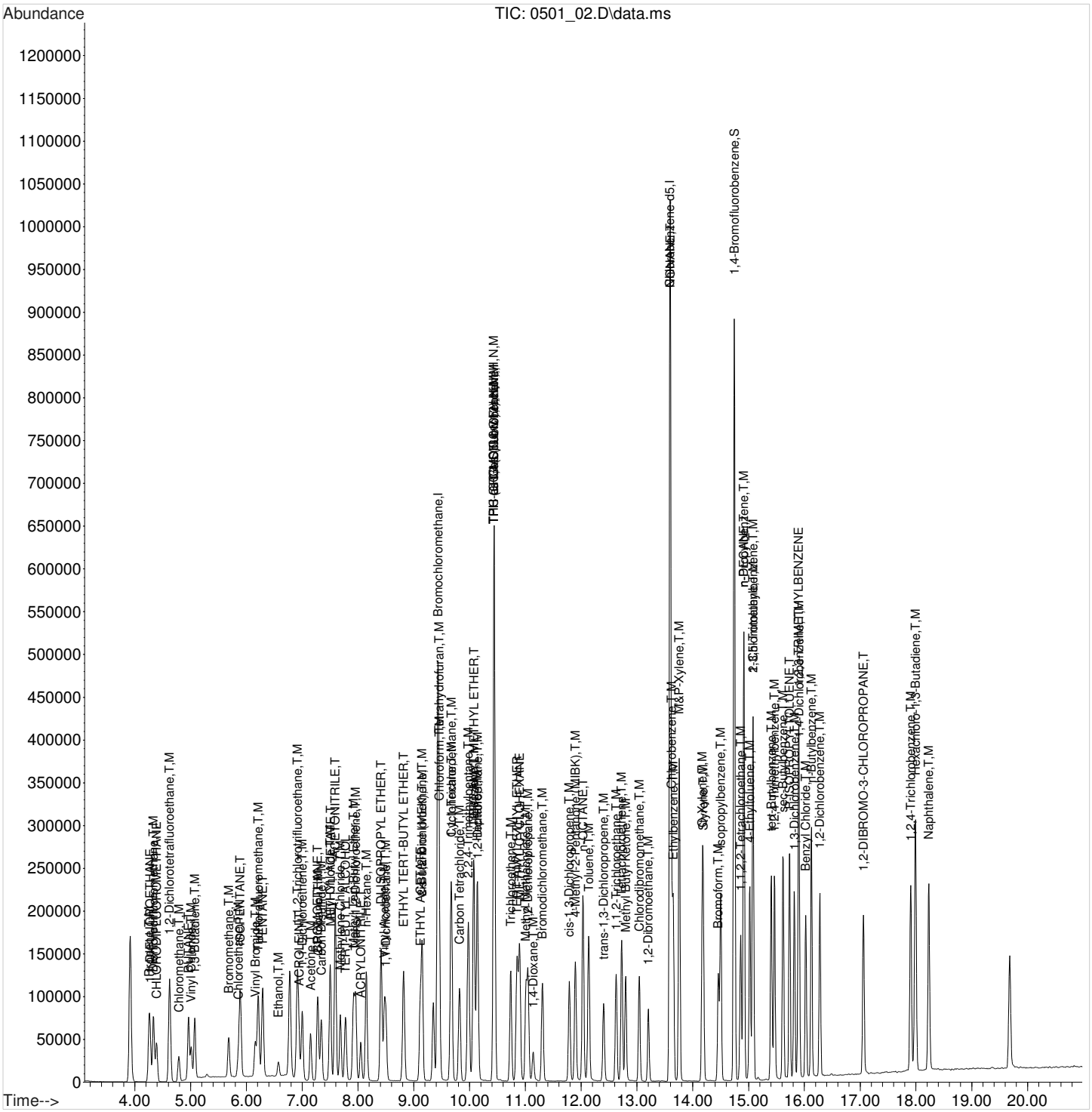
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	16.023	91	142372	3.8296536	ppbv	99
98) n-Butylbenzene	16.127	91	182039	3.8801534	ppbv	99
99) 1,2-Dichlorobenzene	16.279	146	86328	3.5654769	ppbv	99
100) 1,2-DIBROMO-3-CHLOROPR...	17.060	157	45699	3.5066169	ppbv	97
101) 1,2,4-Trichlorobenzene	17.907	180	77353	3.5990242	ppbv	98
102) Hexachloro-1,3-Butadiene	17.993	225	71245	3.4899566	ppbv	98
103) Naphthalene	18.230	128	205689	3.8674091	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_02.D
Acq On : 1 May 2024 9:01 am
Operator :
Sample : LCS 1x WG2278229
Misc : 24D29341
ALS Vial : 2 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 10:32:28 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4065178-1	**SDG:**	L1731355
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	0502_02	**Received Date/Time:**	
Instrument ID:	AIRMS8	**Preparation Date/Time:**	05/02/24 08:47
Analytical Batch:	WG2278934	**Analysis Date/Time:**	05/02/24 08:47
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
n-Hexane	110-54-3	3.27	3.80		0.206	0.630
Tetrachloroethylene	127-18-4	6.09	3.80		0.0814	0.200
Toluene	108-88-3	5.51	3.68		0.0870	0.500

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_02.D
Acq On : 02 May 2024 08:47 am
Operator :
Sample : LCS 1x WG2278934
Misc : 24D25866
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 02 10:14:03 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.222	130	45116	4.0000000	ppbv	0.01
50) 1,4-Difluorobenzene	4.193	114	164733	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	6.410	117	131496	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	7.189	95	88995	4.0087647	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.22%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	5.430	TIC	6324305m	163.1202873	ppbv	
3) TPH-GRO (C5-C10)	5.430	TIC	7423787m	263.5833677	ppbv	
4) THC as Gas (C4-C12)	5.430	TIC	9849263m	330.9263580	ppbv	
5) Propene	1.576	41	7862	3.5769157	ppbv	95
6) BUTANE	1.770	43	16960	3.8050533	ppbv	98
7) 1,1-DIFLUOROETHANE	1.553	65	7580	3.7426738	ppbv	99
8) Dichlorodifluoromethane	1.599	85	35346	3.7600625	ppbv	99
9) CHLORODIFLUOROMETHANE	1.569	67	3311	3.7580599	ppbv	88
10) 1,2-Dichlorotetrafluor...	1.675	85	34172	3.8182180	ppbv	98
11) Chloromethane	1.644	50	9809	3.8743111	ppbv	98
12) Vinyl Chloride	1.709	62	12055	3.8817707	ppbv	96
13) 1,3-Butadiene	1.751	54	8998	3.7877424	ppbv	95
14) Bromomethane	1.834	94	11636	3.7134863	ppbv	96
15) Chloroethane	1.887	64	6568	3.9176678	ppbv	99
16) ISOPENTANE	2.266	41	10780	3.7160532	ppbv	99
17) Vinyl Bromide	2.001	106	11966	3.6626261	ppbv	95
18) Trichlorofluoromethane	2.137	101	35911	3.6843178	ppbv	98
19) PENTANE	2.266	43	19517	3.7078286	ppbv	98
21) ACROLEIN	2.035	56	4704	3.4466416	ppbv	100
22) 1,1,2-Trichlorotrifluo...	2.498	101	26052	3.7049919	ppbv	99
23) 1,1-Dichloroethene	2.361	61	18969	3.6314541	ppbv	96
24) Acetone	2.081	58	8318	4.0832620	ppbv	96
25) BROMOETHANE	2.346	108	11605	3.7812397	ppbv	96
26) 2-Propanol	2.164	45	14935	3.0793803	ppbv	98
27) Carbon Disulfide	2.498	76	31326	3.7061852	ppbv	98
28) Allyl Chloride	2.441	41	13708	3.7346818	ppbv	95
29) METHYL ACETATE	2.395	43	22395	3.6023727	ppbv #	99
30) ACETONITRILE	1.993	41	36748	15.9102799	ppbv	96
31) Methylene Chloride	2.399	49	13203	3.9049773	ppbv #	100
32) TERT-BUTYL ALCOHOL	2.384	59	27343	3.6005037	ppbv	99
33) Methyl Tert-Butyl Ether	2.835	73	31860	3.6829785	ppbv	99
34) Trans-1,2-Dichloroethene	2.725	61	15670	3.7202408	ppbv	96
35) ACRYLONITRILE	2.236	53	8861	3.5927490	ppbv	98
36) n-Hexane	3.268	57	15610	3.8039915	ppbv	99
37) 1,1-Dichloroethane	2.797	63	20410	3.7776313	ppbv	100
38) Vinyl Acetate	2.866	43	24014	3.5034384	ppbv #	100
39) DI-ISOPROPYL ETHER	3.275	45	35149	3.8215527	ppbv	98
40) ETHYL TERT-BUTYL ETHER	3.533	59	31784	3.8106063	ppbv	100
41) ETHYL ACETATE	3.279	43	47645	3.7378807	ppbv	98
42) 2-Butanone (MEK)	2.968	72	5140	3.4729315	ppbv	97

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_02.D
Acq On : 02 May 2024 08:47 am
Operator :
Sample : LCS 1x WG2278934
Misc : 24D25866
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 02 10:14:03 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) cis-1,2-Dichloroethene	3.150	61	14142	3.7799197	ppbv		98
44) Tetrahydrofuran	3.480	42	10276	3.9578740	ppbv		96
45) Chloroform	3.286	83	26497	3.7566562	ppbv		97
46) Cyclohexane	4.125	84	14094	3.6324553	ppbv		98
47) 1,1,1-Trichloroethane	3.757	97	26591	3.6630814	ppbv		98
48) Carbon Tetrachloride	4.060	117	29780	3.7271527	ppbv		96
49) 2,2,4-Trimethylpentane	4.580	57	52680	3.8270670	ppbv		99
51) Benzene	3.980	78	35435	3.6318267	ppbv		99
52) TERT-AMYL METHYL ETHER	4.322	73	29604	3.4846455	ppbv		99
53) 1,2-Dichloroethane	3.632	62	17235	3.7385867	ppbv		98
54) Heptane	4.739	43	17343	3.8234002	ppbv		97
55) Trichloroethene	4.534	95	16442	3.6472462	ppbv		97
56) TERT-AMYL ETHYL ETHER	5.045	73	8740	3.7446376	ppbv		97
57) METHYL CYCLOHEXANE	5.039	83	18466	3.8292005	ppbv		95
58) 1,2-Dichloropropane	4.401	63	12425	3.6996373	ppbv		97
59) Methyl Methacrylate	4.682	69	10215	3.4859100	ppbv		96
60) 1,4-Dioxane	4.553	88	5421	2.8335909	ppbv	#	96
61) Bromodichloromethane	4.504	83	26913	3.7031701	ppbv		98
62) cis-1,3-Dichloropropene	4.997	75	13162	2.9893609	ppbv		96
63) 4-Methyl-2-Pentanone (...	5.045	43	26951	3.4240582	ppbv		97
64) n-OCTANE	6.084	43	18145	3.5831814	ppbv		97
65) Toluene	5.508	91	38557	3.6836116	ppbv		100
66) trans-1,3-Dichloropropene	5.286	75	14317	3.7572688	ppbv		98
67) 1,1,2-Trichloroethane	5.358	97	13672	3.7314226	ppbv		97
68) Tetrachloroethene	6.091	166	26680	3.8002669	ppbv		99
69) Methyl Butyl Ketone	5.693	43	10912	2.6362613	ppbv		100
70) Chlorodibromomethane	5.709	129	25819	3.6593515	ppbv		99
71) 1,2-Dibromoethane	5.831	107	20567	3.7239741	ppbv		98
72) Chlorobenzene	6.429	112	35169	3.7242760	ppbv		99
73) NONANE	7.133	43	21878	4.0844642	ppbv		97
75) Ethylbenzene	6.641	91	46324	3.5570468	ppbv		97
76) M&P-Xylene	6.732	91	83501	7.6626950	ppbv		99
77) O-Xylene	6.961	91	43436	4.0795132	ppbv		97
80) Styrene	6.911	104	28003	3.8301896	ppbv		98
81) Bromoform	6.729	173	30143	3.7916284	ppbv		100
82) Isopropylbenzene	7.274	105	63155	3.7054326	ppbv		98
83) n-DECANE	7.990	43	26118	3.6940578	ppbv		99
84) 1,1,2,2-Tetrachloroethane	6.954	83	30026	3.8230363	ppbv		100
85) n-Propylbenzene	7.540	91	69810	3.9184570	ppbv		99
86) 4-Ethyltoluene	7.621	105	57818	3.9084920	ppbv		98
87) 2-Chlorotoluene	7.499	91	39351	3.6293879	ppbv		100
89) 1,3,5-Trimethylbenzene	7.668	105	52082	3.8838783	ppbv		100
90) tert-Butylbenzene	7.878	119	56617	3.7696193	ppbv		98
91) 1,2,4-Trimethylbenzene	7.881	105	52245	3.8131896	ppbv		99
92) sec-Butylbenzene	8.031	105	81456	3.8365237	ppbv		99
93) 1,3-Dichlorobenzene	7.943	146	41975	4.1415935	ppbv		98
94) P-ISOPROPYLTOLUENE	8.131	119	78197	3.4950538	ppbv		99
95) 1,4-Dichlorobenzene	7.981	146	42601	4.1824112	ppbv		98
96) 1,2,3-TRIMETHYLBENZENE	8.112	105	55134	3.4125708	ppbv		98
97) Benzyl Chloride	7.940	91	37686	3.9092467	ppbv		97

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_02.D
Acq On : 02 May 2024 08:47 am
Operator :
Sample : LCS 1x WG2278934
Misc : 24D25866
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 02 10:14:03 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

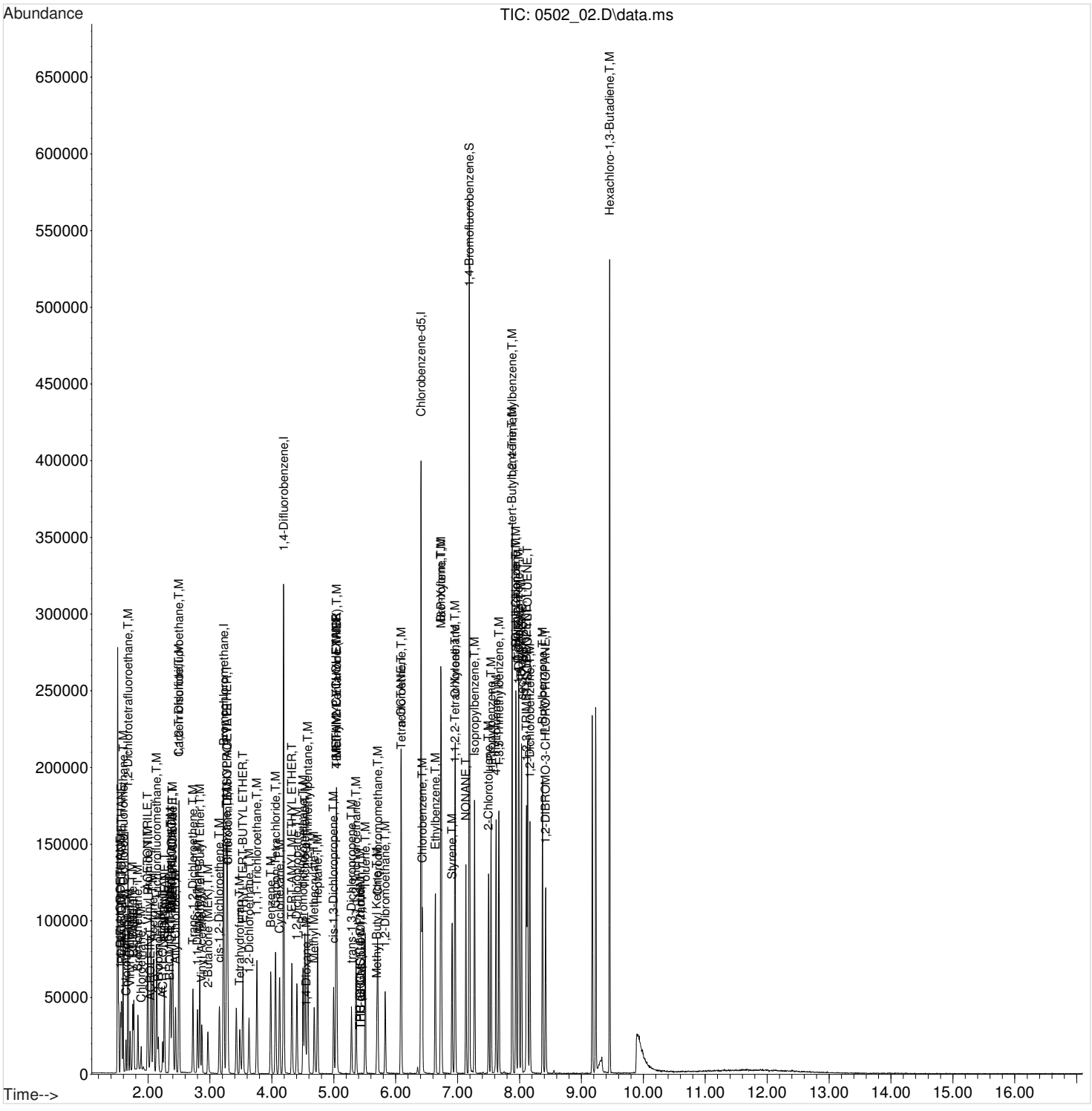
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98)	n-Butylbenzene	8.372	91	59299	3.4423633	ppbv	99
99)	1,2-Dichlorobenzene	8.169	146	42495	3.9553225	ppbv	97
100)	1,2-DIBROMO-3-CHLOROPR...	8.422	157	21963	3.1651367	ppbv	97
102)	Hexachloro-1,3-Butadiene	9.455	225	60599	3.2977087	ppbv	98

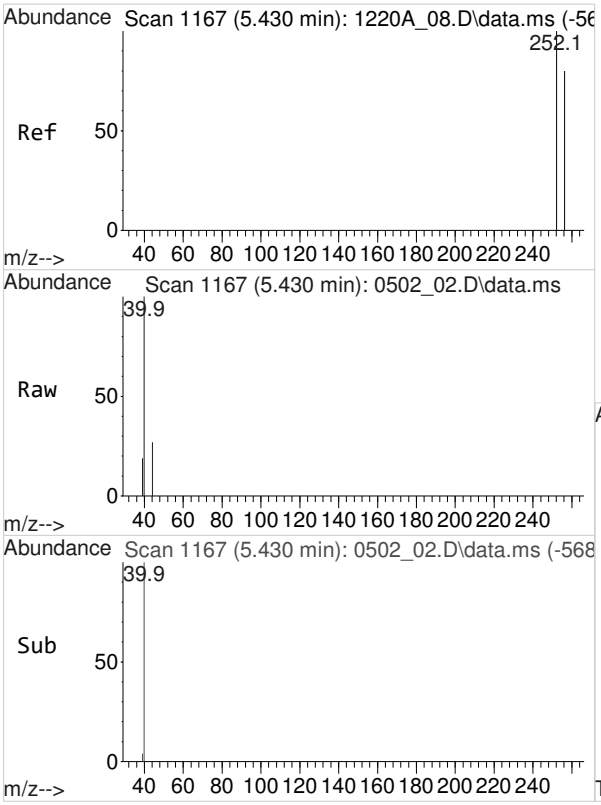
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_02.D
Acq On : 02 May 2024 08:47 am
Operator :
Sample : LCS 1x WG2278934
Misc : 24D25866
ALS Vial : 2 Sample Multiplier: 1

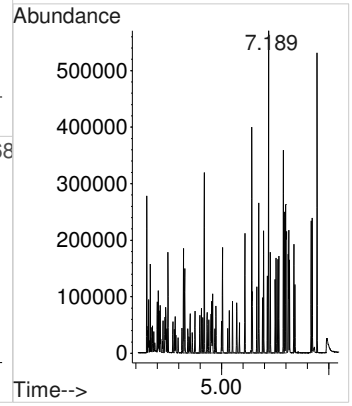
Quant Time: May 02 10:14:03 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

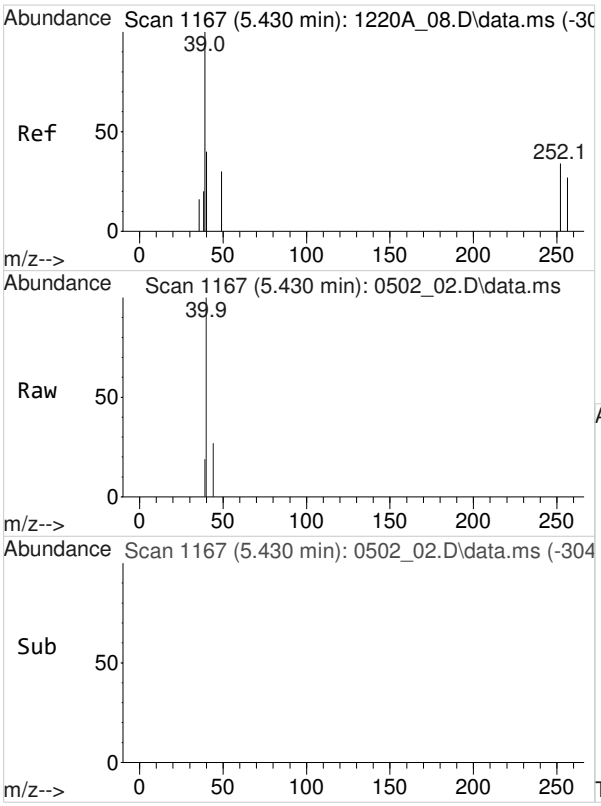




#2
TPH (GC/MS) Low Fraction
Concen: 163.1202873 ppbv m
RT: 5.430 min Scan# 1167
Delta R.T. 0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

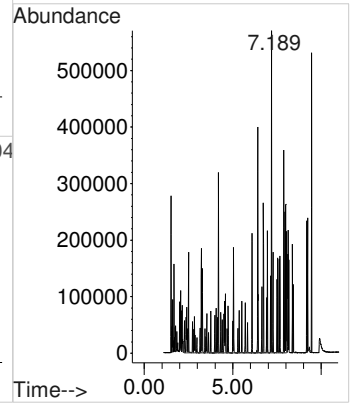
Tgt Ion:TIC Resp: 6324305

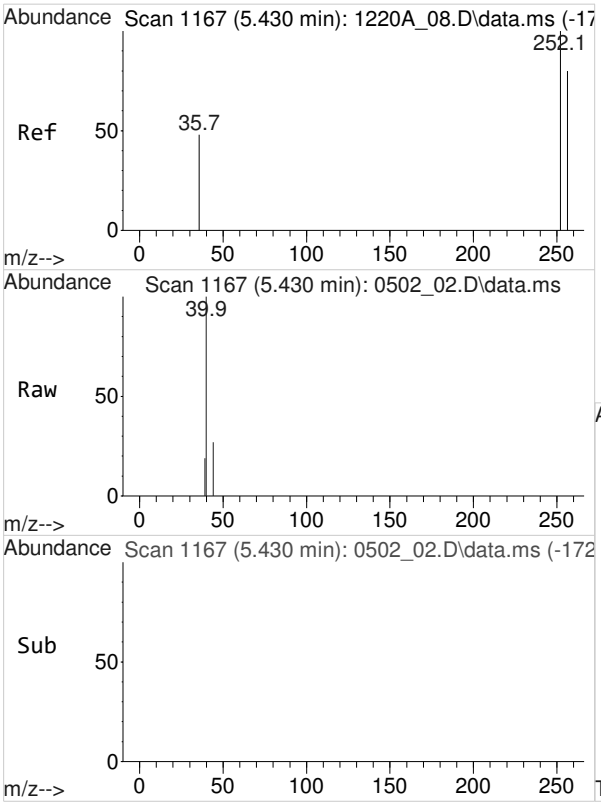




#3
TPH-GRO (C5-C10)
Concen: 263.5833677 ppbv m
RT: 5.430 min Scan# 1167
Delta R.T. 0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

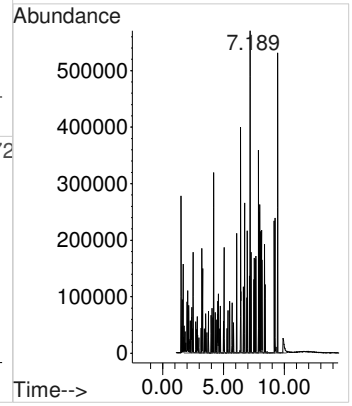
Tgt Ion:TIC Resp: 7423787

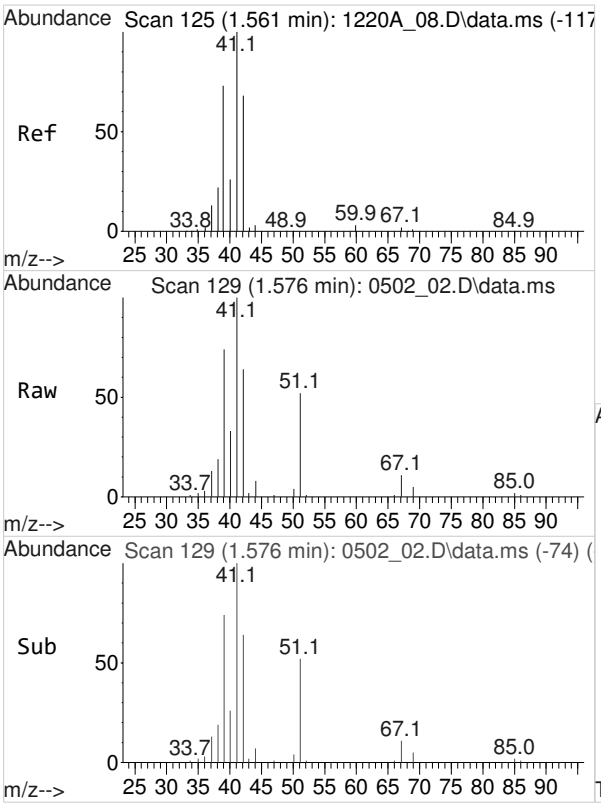




#4
THC as Gas (C4-C12)
Concen: 330.9263580 ppbv m
RT: 5.430 min Scan# 1167
Delta R.T. 0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:TIC Resp: 9849263

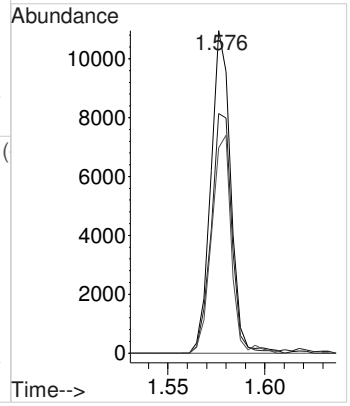


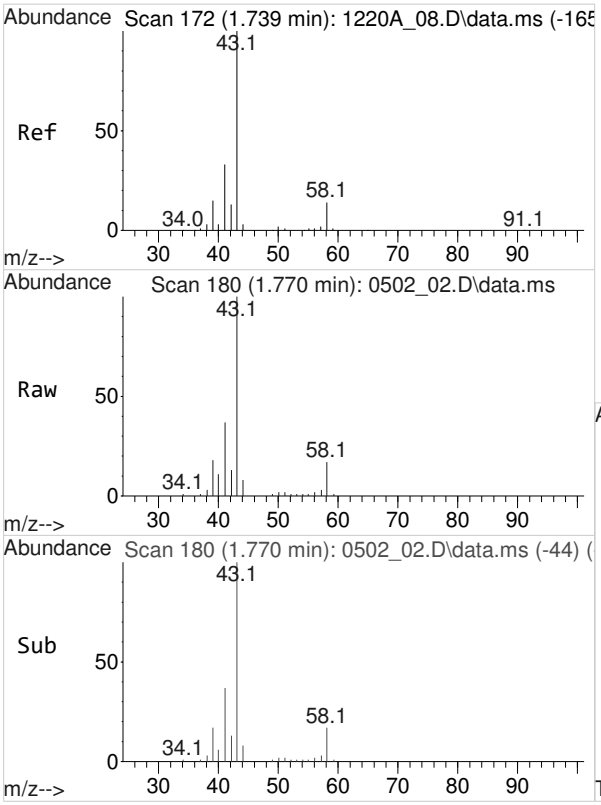


#5
Propene
Concen: 3.5769157 ppbv
RT: 1.576 min Scan# 129
Delta R.T. 0.008 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 41 Resp: 7862

Ion	Ratio	Lower	Upper
41	100		
39	77.0	60.2	90.4
42	67.3	49.1	73.7

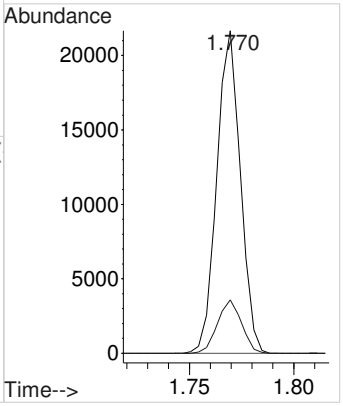


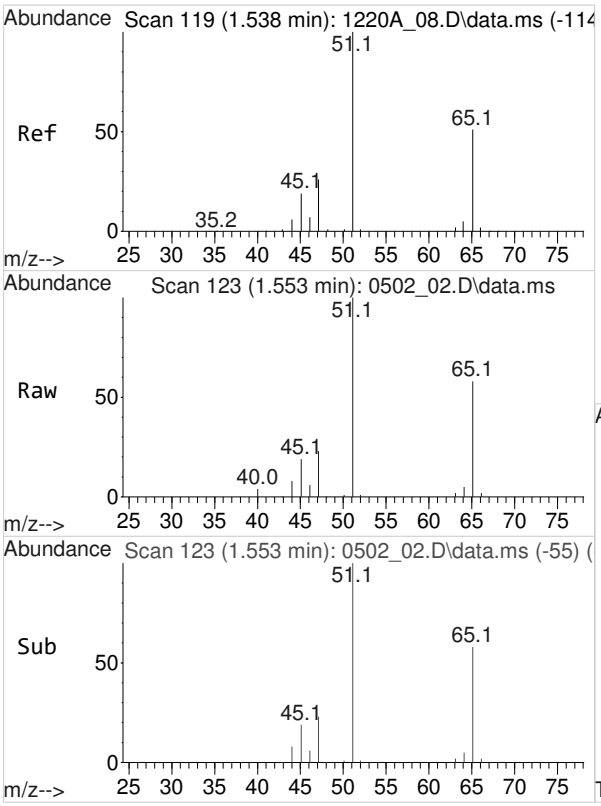


#6
BUTANE
Concen: 3.8050533 ppbv
RT: 1.770 min Scan# 180
Delta R.T. 0.016 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 43 Resp: 16960

Ion	Ratio	Lower	Upper
43	100		
58	16.8	12.6	19.0

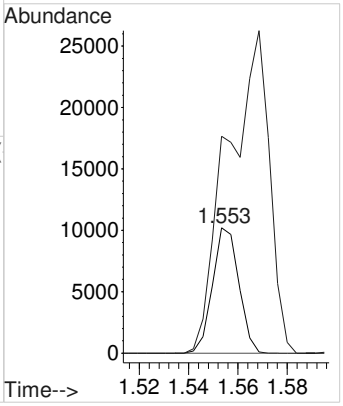


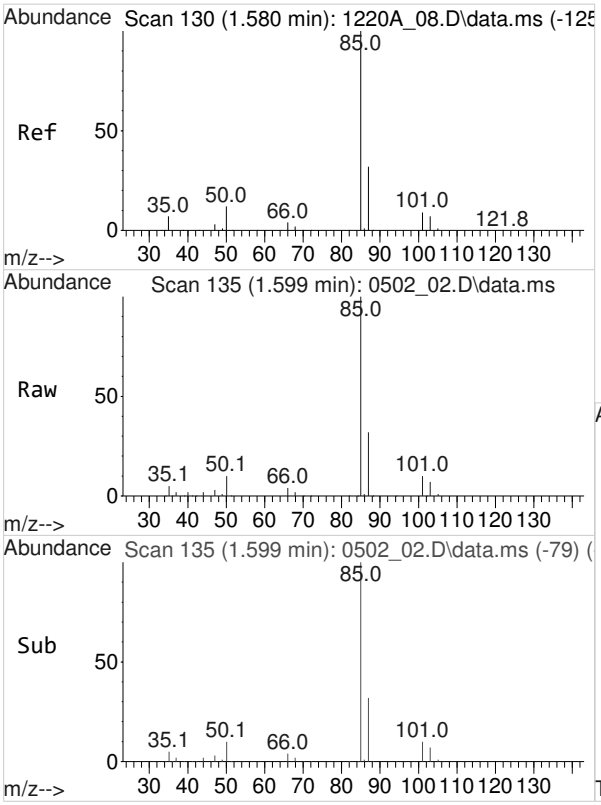


#7
1,1-DIFLUOROETHANE
Concen: 3.7426738 ppbv
RT: 1.553 min Scan# 123
Delta R.T. 0.007 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 65 Resp: 7580

Ion	Ratio	Lower	Upper
65	100		
51	407.8	324.4	486.6

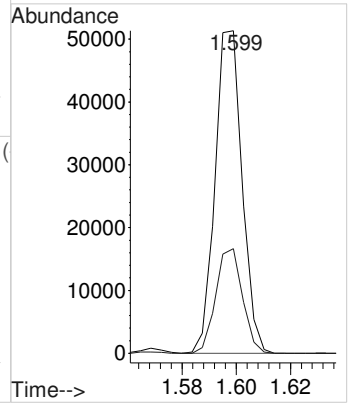


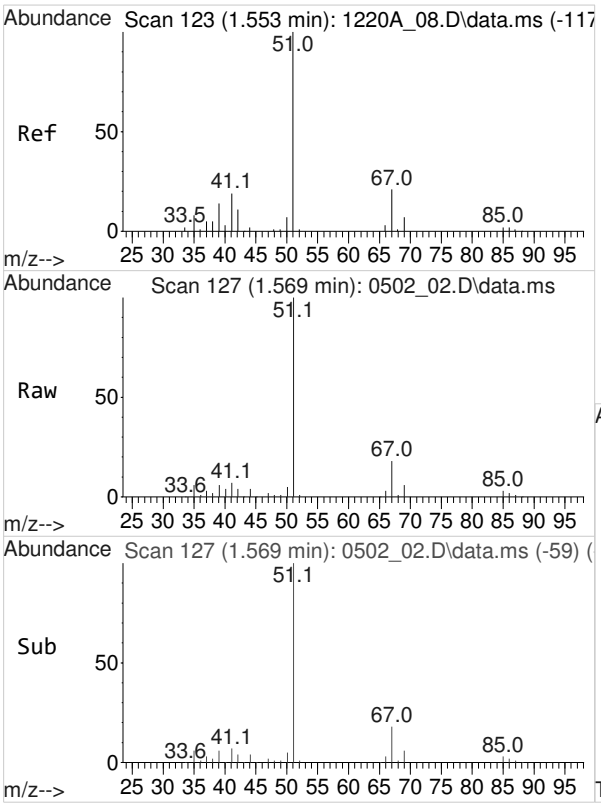


#8
Dichlorodifluoromethane
Concen: 3.7600625 ppbv
RT: 1.599 min Scan# 135
Delta R.T. 0.012 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 85 Resp: 35346

Ion	Ratio	Lower	Upper
85	100		
87	32.1	26.2	39.2

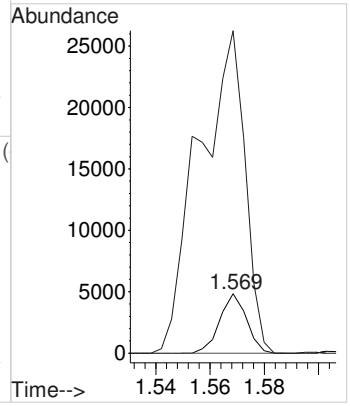


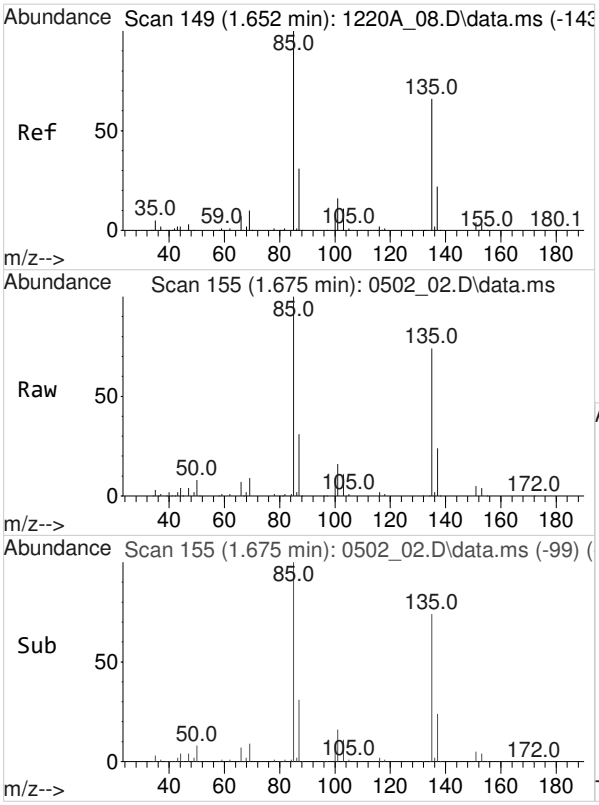


#9
CHLORODIFLUOROMETHANE
Concen: 3.7580599 ppbv
RT: 1.569 min Scan# 127
Delta R.T. 0.008 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 67 Resp: 3311

Ion	Ratio	Lower	Upper
67	100		
51	933.7	706.5	1059.7

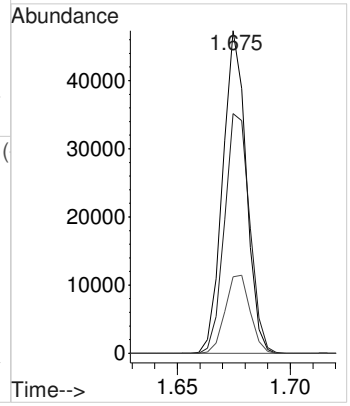


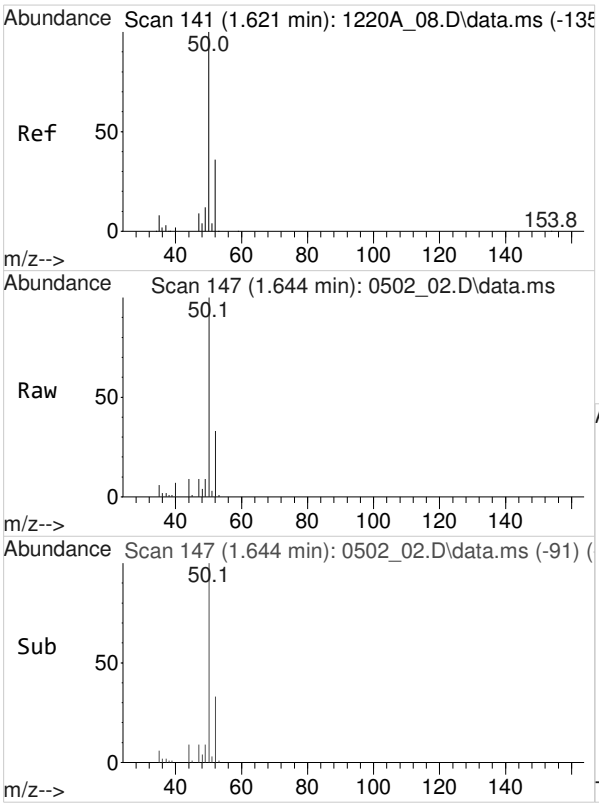


#10
1,2-Dichlorotetrafluoroethane
Concen: 3.8182180 ppbv
RT: 1.675 min Scan# 155
Delta R.T. 0.012 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 85 Resp: 34172

Ion	Ratio	Lower	Upper
85	100		
135	79.5	65.5	98.3
137	25.6	21.0	31.6

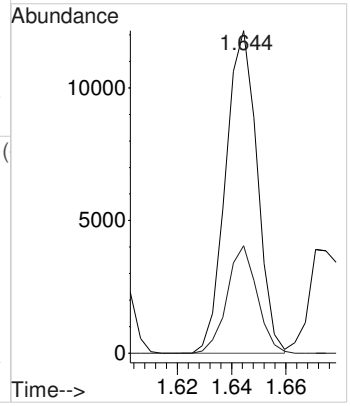


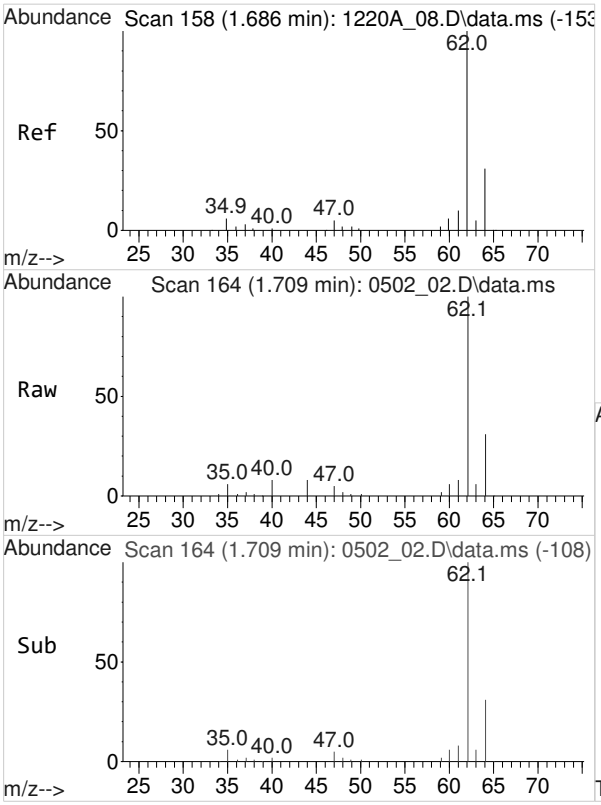


#11
Chloromethane
Concen: 3.8743111 ppbv
RT: 1.644 min Scan# 147
Delta R.T. 0.011 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 50 Resp: 9809

Ion	Ratio	Lower	Upper
50	100		
52	31.7	24.6	36.8

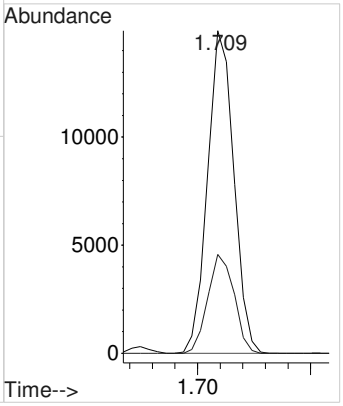


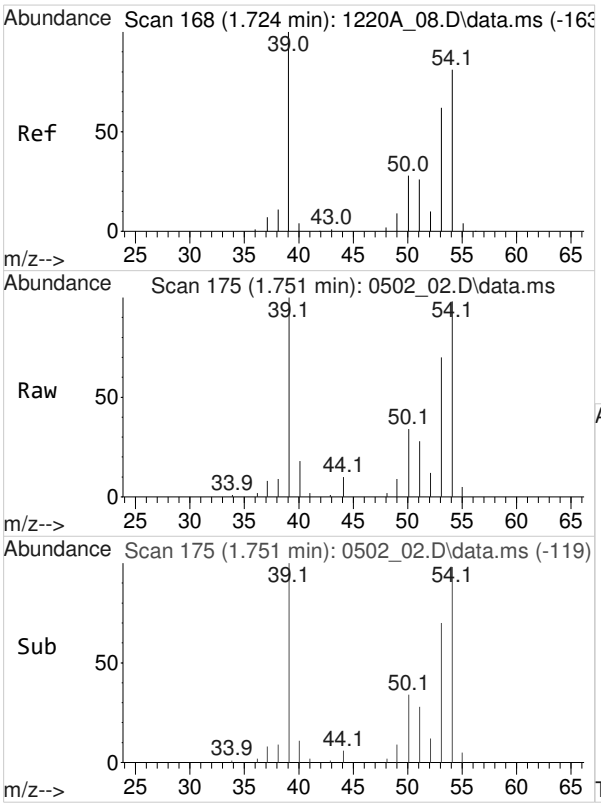


#12
Vinyl Chloride
Concen: 3.8817707 ppbv
RT: 1.709 min Scan# 164
Delta R.T. 0.012 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 62 Resp: 12055

Ion	Ratio	Lower	Upper
62	100		
64	30.6	26.4	39.6

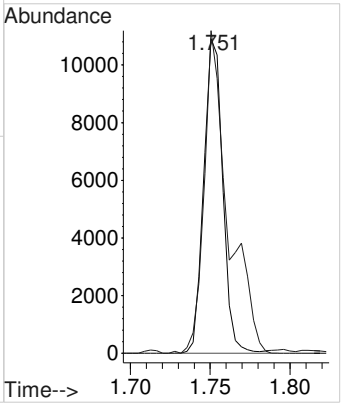


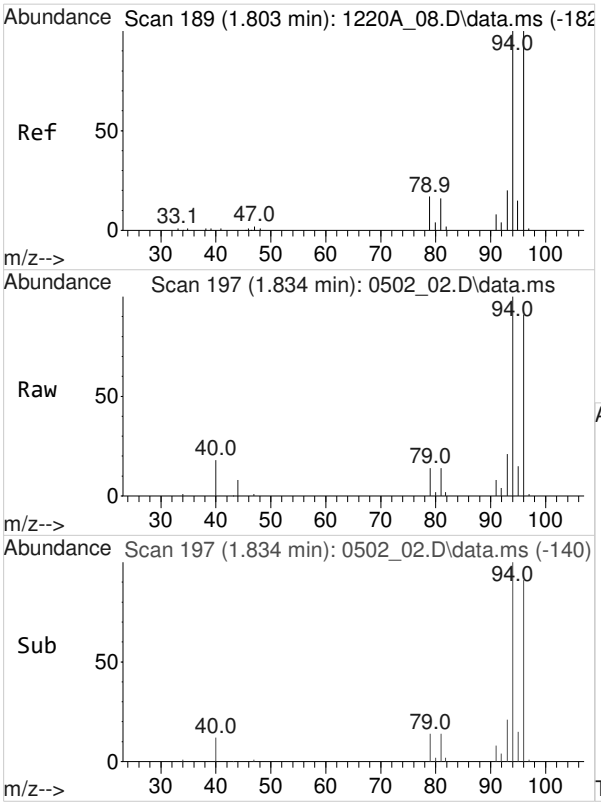


#13
1,3-Butadiene
Concen: 3.7877424 ppbv
RT: 1.751 min Scan# 175
Delta R.T. 0.012 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 54 Resp: 8998

Ion	Ratio	Lower	Upper
54	100		
39	129.9	108.8	163.2

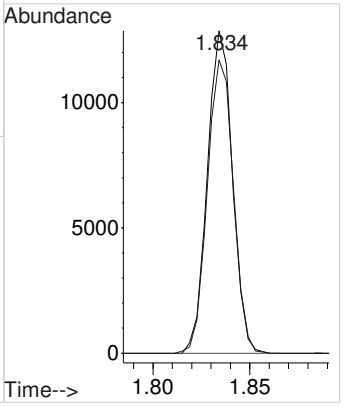


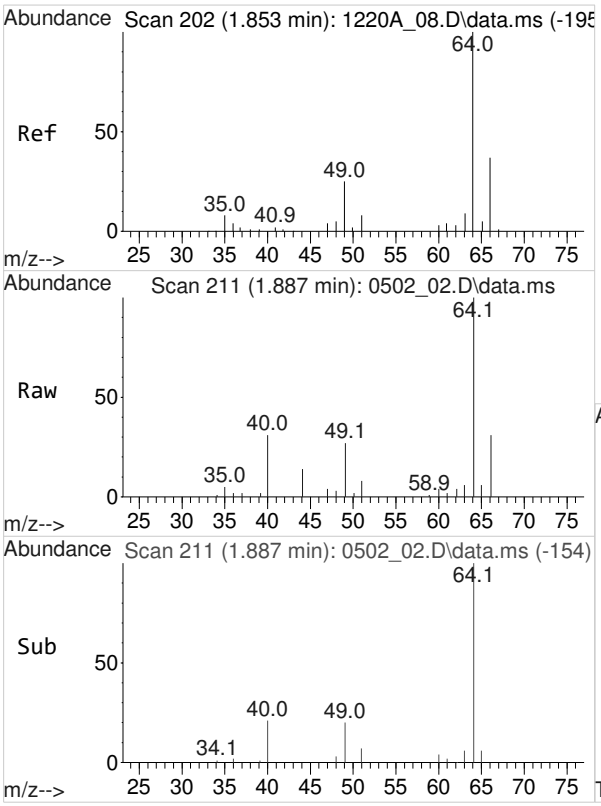


#14
Bromomethane
Concen: 3.7134863 ppbv
RT: 1.834 min Scan# 197
Delta R.T. 0.015 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 94 Resp: 11636

Ion	Ratio	Lower	Upper
94	100		
96	94.4	78.4	117.6

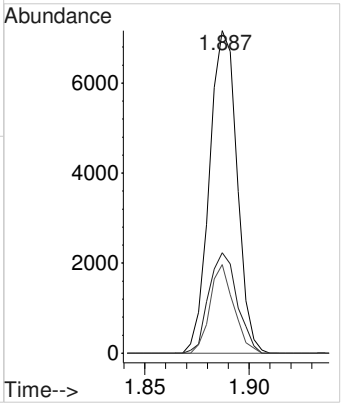


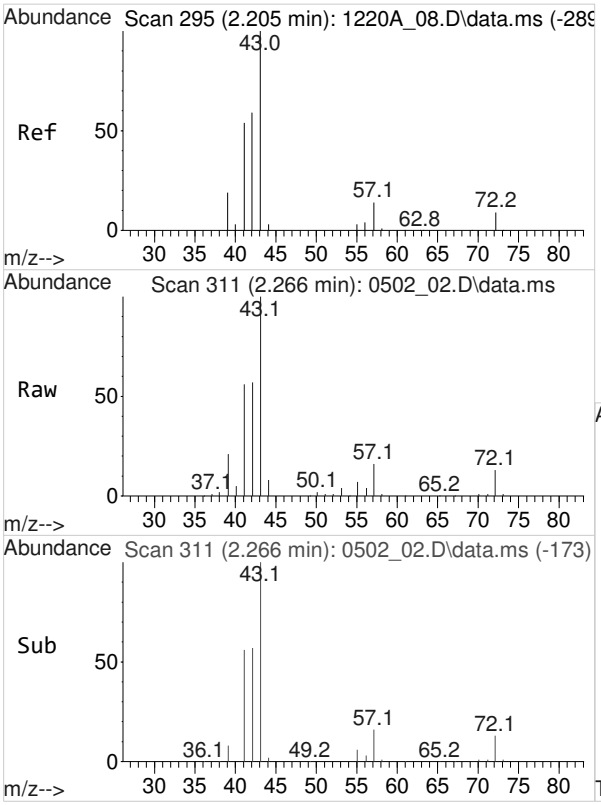


#15
Chloroethane
Concen: 3.9176678 ppbv
RT: 1.887 min Scan# 211
Delta R.T. 0.015 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 64 Resp: 6568

Ion	Ratio	Lower	Upper
64	100		
66	32.0	25.5	38.3
49	23.7	19.4	29.2

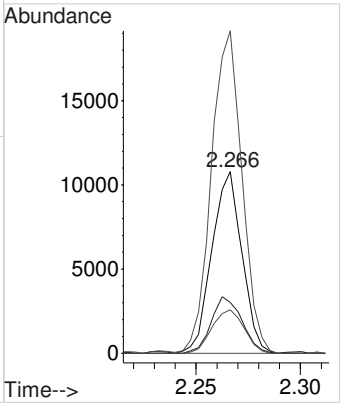


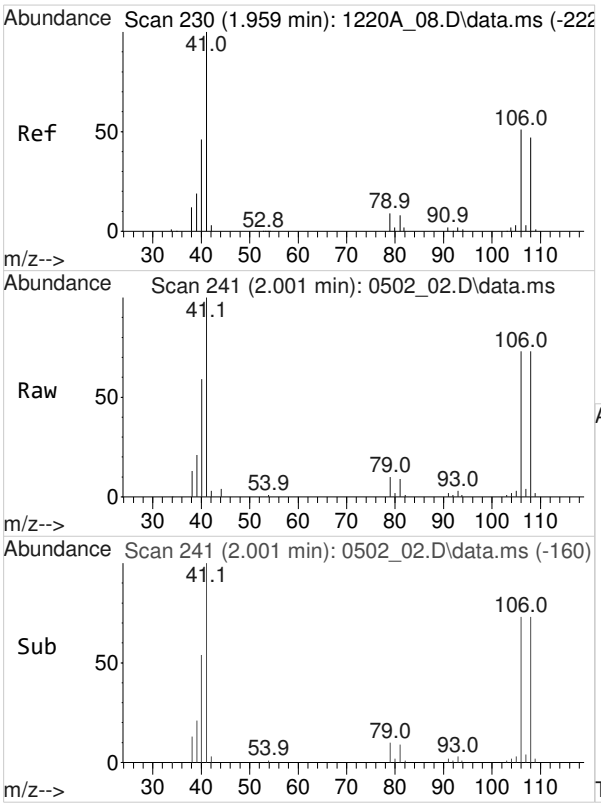


#16
ISOPENTANE
Concen: 3.7160532 ppbv
RT: 2.266 min Scan# 311
Delta R.T. 0.023 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 41 Resp: 10780

Ion	Ratio	Lower	Upper
41	100		
57	31.8	24.6	37.0
43	181.0	145.7	218.5
72	25.5	19.0	28.4

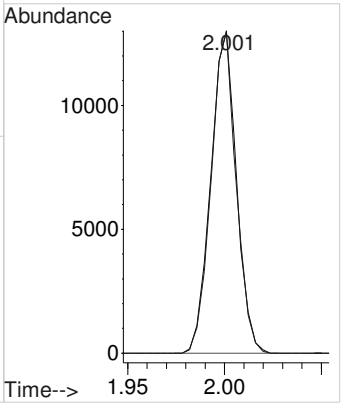


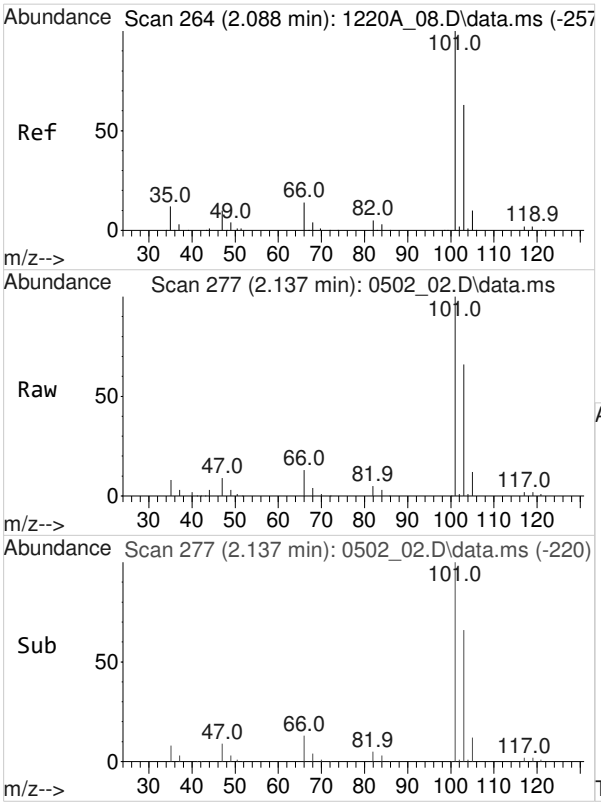


#17
Vinyl Bromide
Concen: 3.6626261 ppbv
RT: 2.001 min Scan# 241
Delta R.T. 0.019 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:106 Resp: 11966

Ion	Ratio	Lower	Upper
106	100		
108	97.4	74.2	111.2

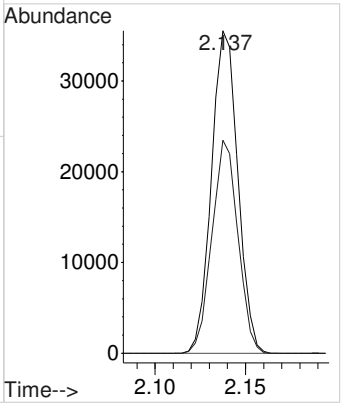


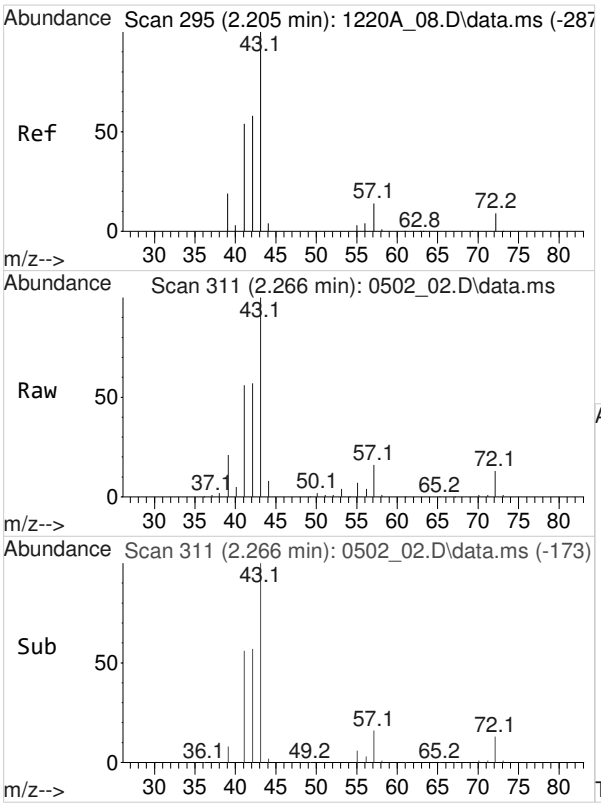


#18
Trichlorofluoromethane
Concen: 3.6843178 ppbv
RT: 2.137 min Scan# 277
Delta R.T. 0.015 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:101 Resp: 35911

Ion	Ratio	Lower	Upper
101	100		
103	65.1	50.6	76.0

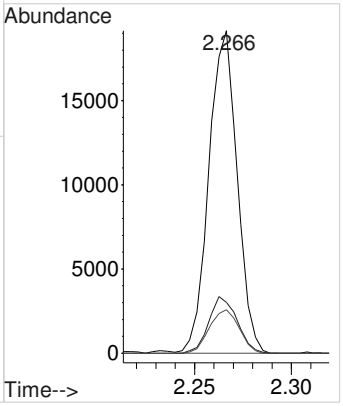


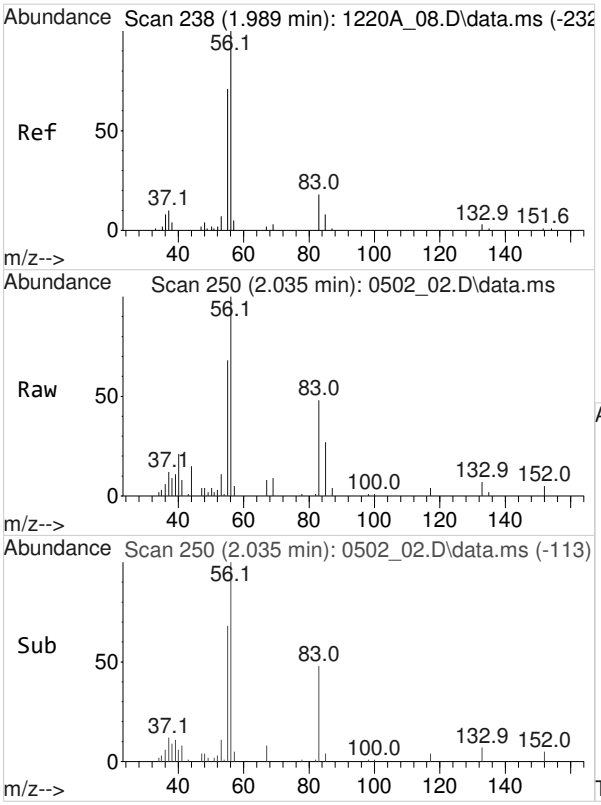


#19
PENTANE
Concen: 3.7078286 ppbv
RT: 2.266 min Scan# 311
Delta R.T. 0.023 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 43 Resp: 19517

Ion	Ratio	Lower	Upper
43	100		
57	17.5	13.5	20.3
72	14.1	10.4	15.6

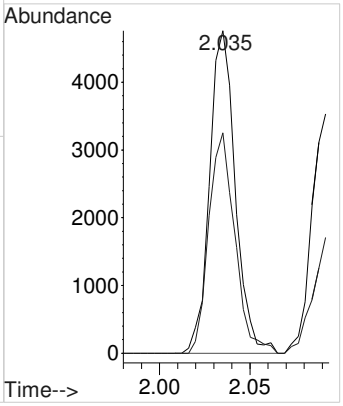


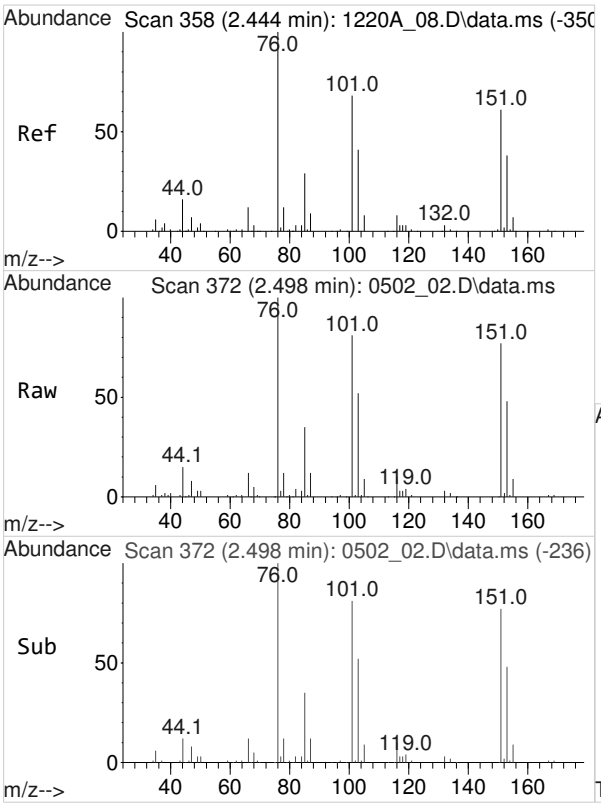


#21
ACROLEIN
Concen: 3.4466416 ppbv
RT: 2.035 min Scan# 250
Delta R.T. 0.019 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 56 Resp: 4704

Ion	Ratio	Lower	Upper
56	100		
55	69.4	55.3	82.9

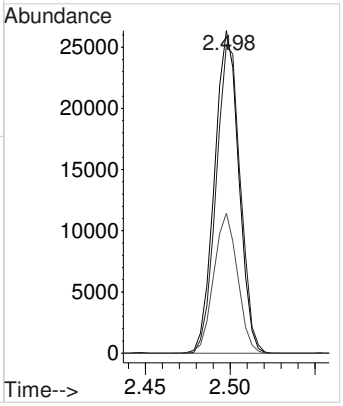


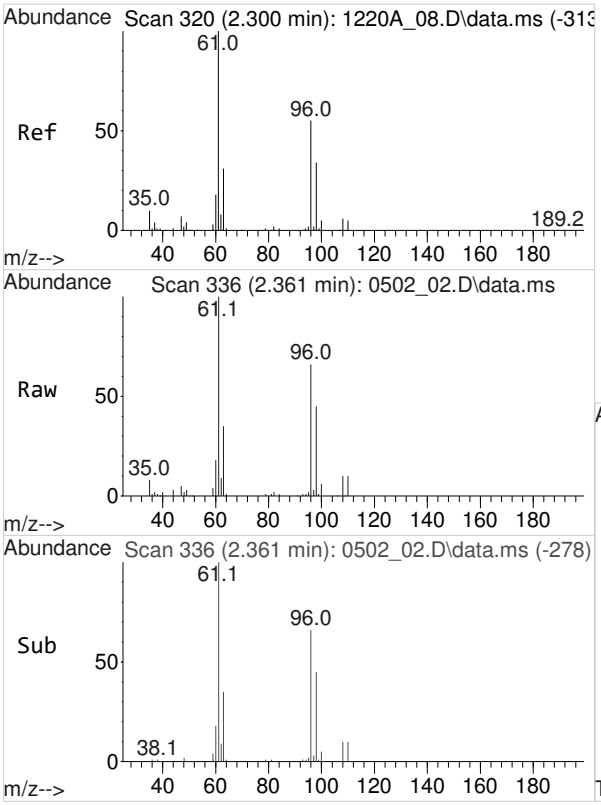


#22
1,1,2-Trichlorotrifluoroethane
Concen: 3.7049919 ppbv
RT: 2.498 min Scan# 372
Delta R.T. 0.016 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:101 Resp: 26052

Ion	Ratio	Lower	Upper
101	100		
151	95.7	77.3	115.9
85	42.5	33.8	50.6

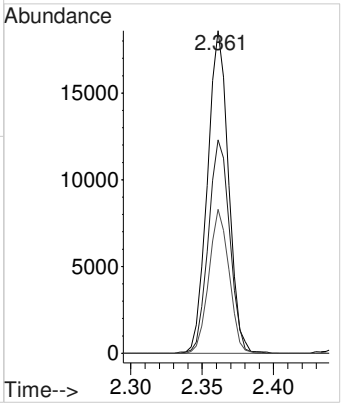


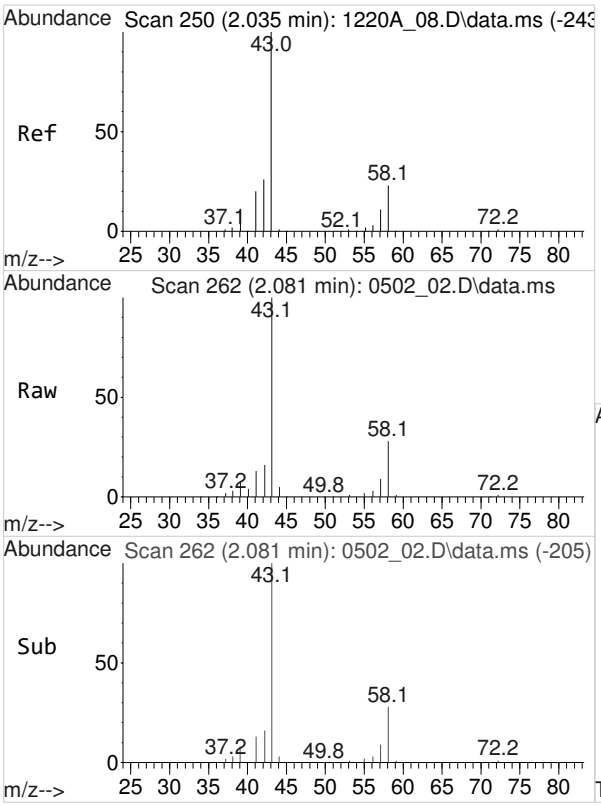


#23
1,1-Dichloroethene
Concen: 3.6314541 ppbv
RT: 2.361 min Scan# 336
Delta R.T. 0.019 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 61 Resp: 18969

Ion	Ratio	Lower	Upper
61	100		
96	67.2	49.9	74.9
98	42.7	34.2	51.4

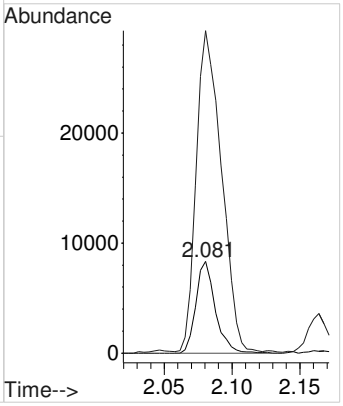


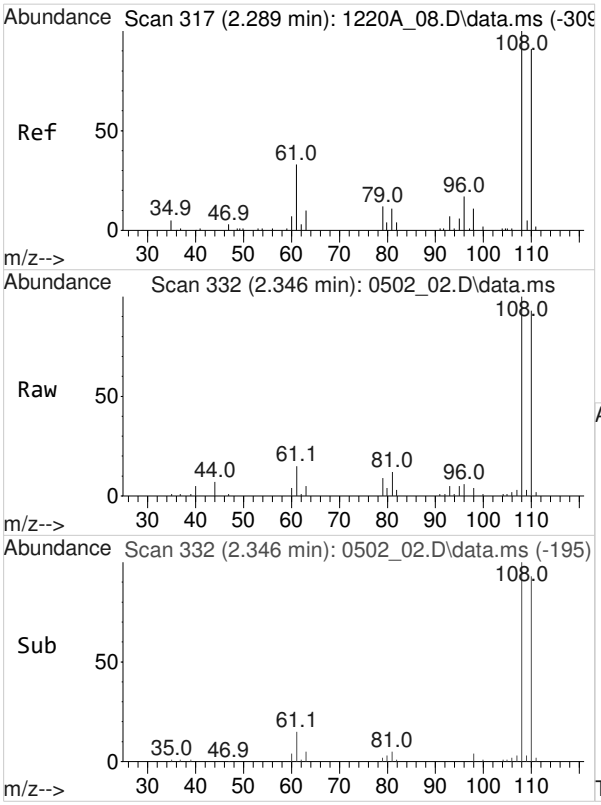


#24
Acetone
Concen: 4.0832620 ppbv
RT: 2.081 min Scan# 262
Delta R.T. 0.016 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 58 Resp: 8318

Ion	Ratio	Lower	Upper
58	100		
43	454.5	372.3	558.5

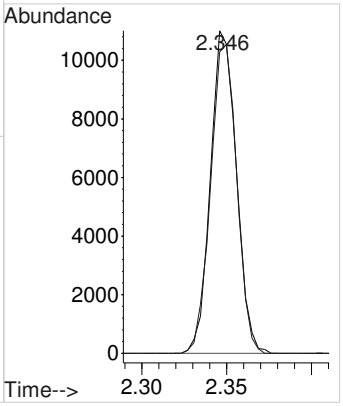


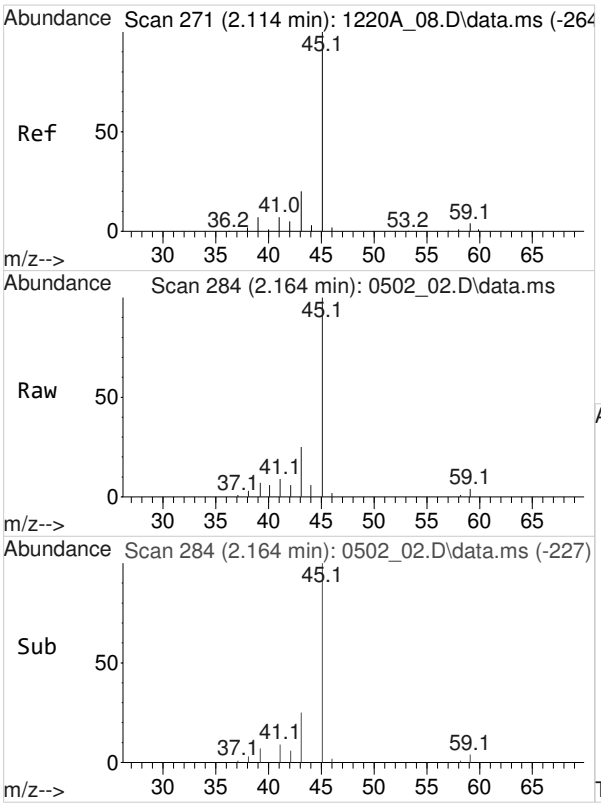


#25
BROMOETHANE
Concen: 3.7812397 ppbv
RT: 2.346 min Scan# 332
Delta R.T. 0.019 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:108 Resp: 11605

Ion	Ratio	Lower	Upper
108	100		
110	97.0	81.1	121.7

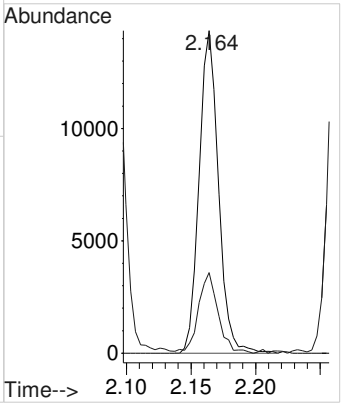


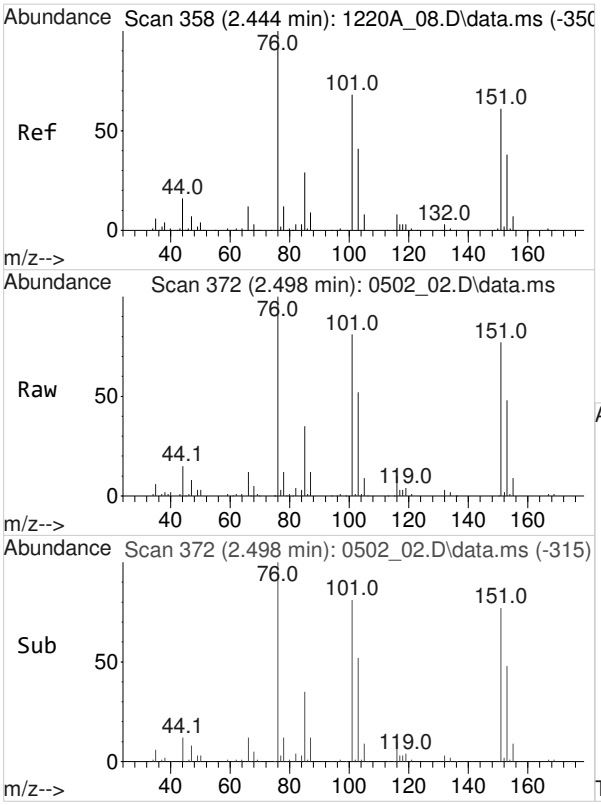


#26
2-Propanol
Concen: 3.0793803 ppbv
RT: 2.164 min Scan# 284
Delta R.T. 0.015 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 45 Resp: 14935

Ion	Ratio	Lower	Upper
45	100		
43	25.4	21.3	31.9

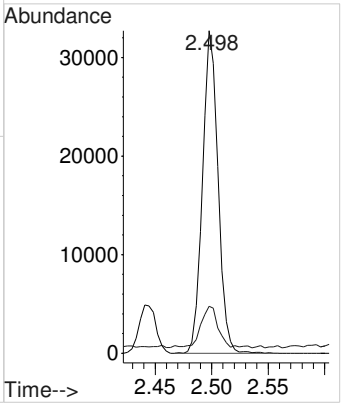


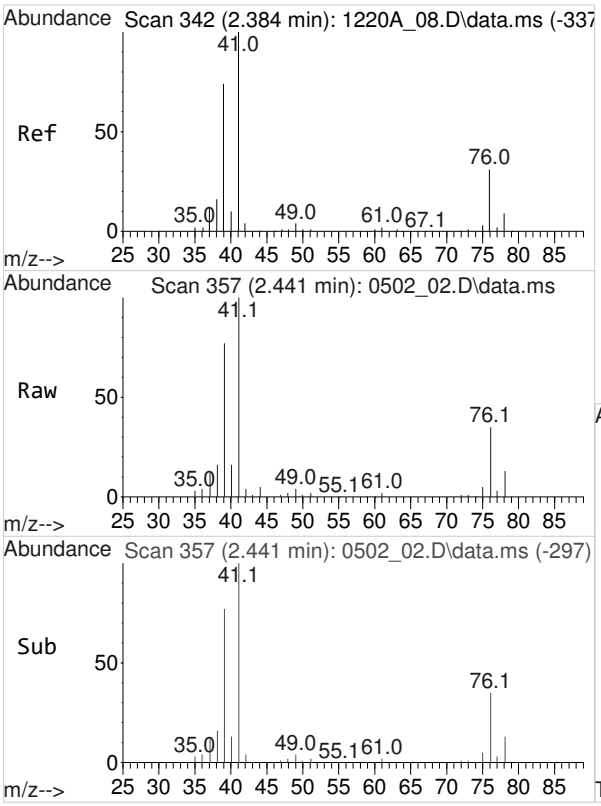


#27
Carbon Disulfide
Concen: 3.7061852 ppbv
RT: 2.498 min Scan# 372
Delta R.T. 0.016 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 76 Resp: 31326

Ion	Ratio	Lower	Upper
76	100		
44	14.7	11.1	16.7

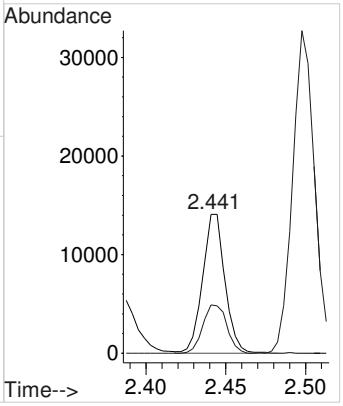


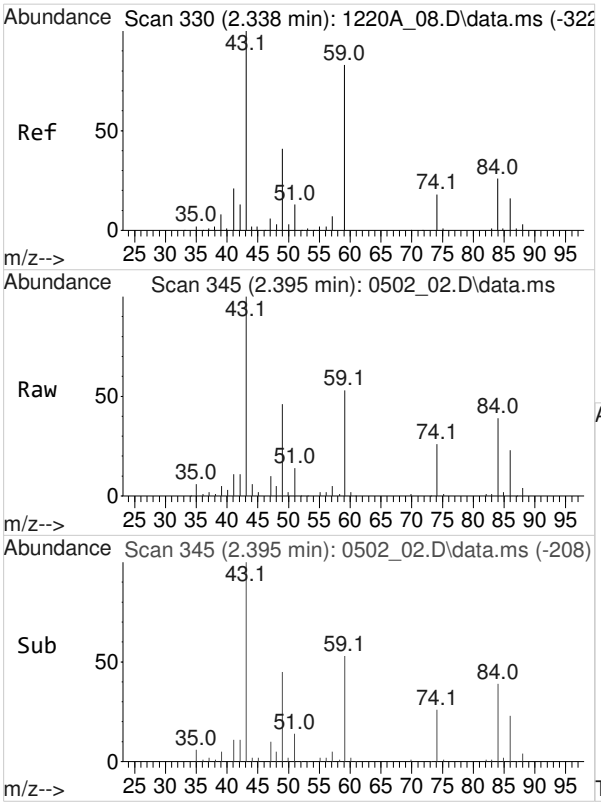


#28
Allyl Chloride
Concen: 3.7346818 ppbv
RT: 2.441 min Scan# 357
Delta R.T. 0.016 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 41 Resp: 13708

Ion	Ratio	Lower	Upper
41	100		
76	37.1	32.3	48.5

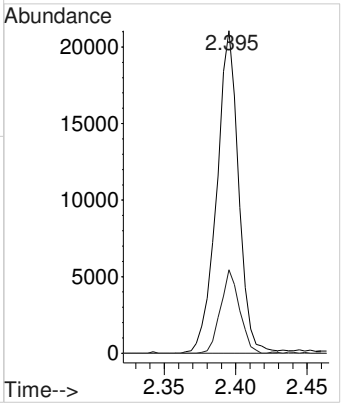


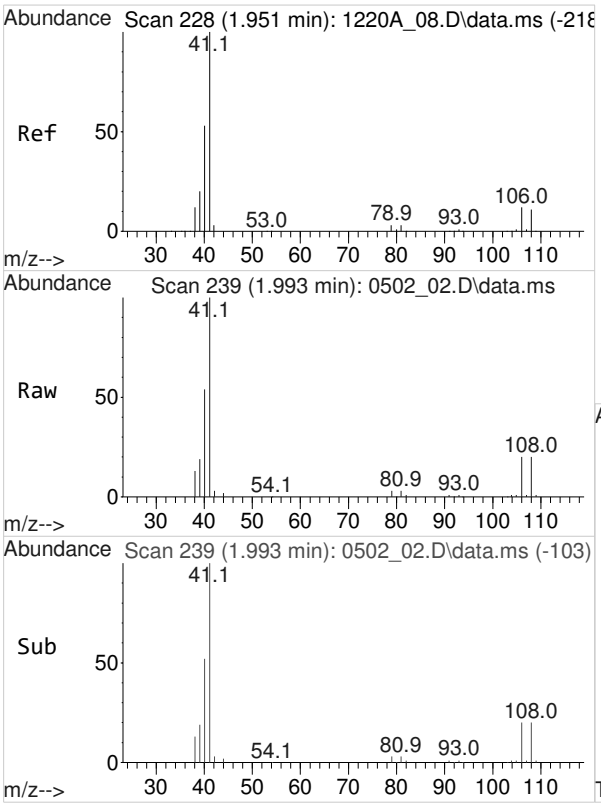


#29
METHYL ACETATE
Concen: 3.6023727 ppbv
RT: 2.395 min Scan# 345
Delta R.T. 0.019 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 43 Resp: 22395

Ion	Ratio	Lower	Upper
43	100		
74	22.3	18.2	27.4
29	0.0	0.0	0.0

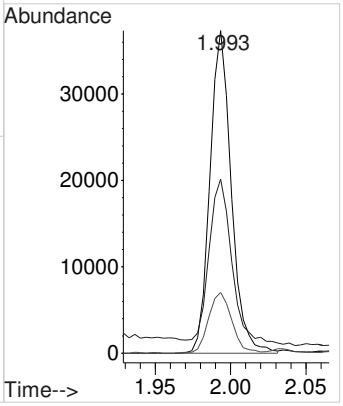


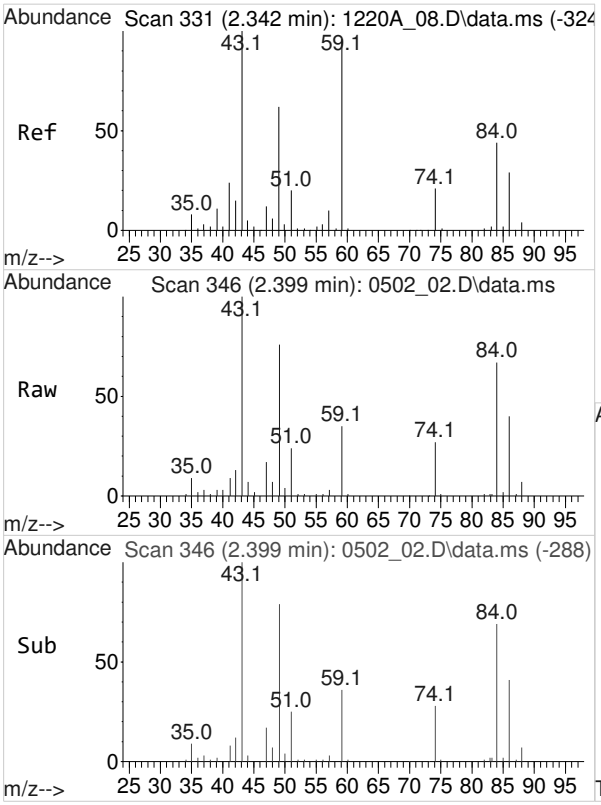


#30
ACETONITRILE
Concen: 15.9102799 ppbv
RT: 1.993 min Scan# 239
Delta R.T. 0.015 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 41 Resp: 36748

Ion	Ratio	Lower	Upper
41	100		
40	56.7	42.2	63.2
39	20.5	15.8	23.8

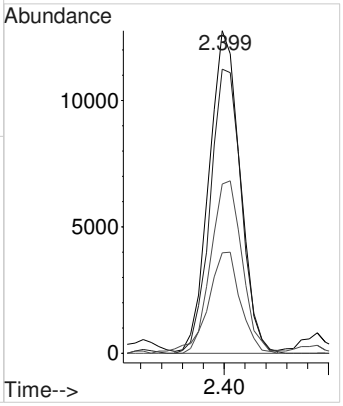


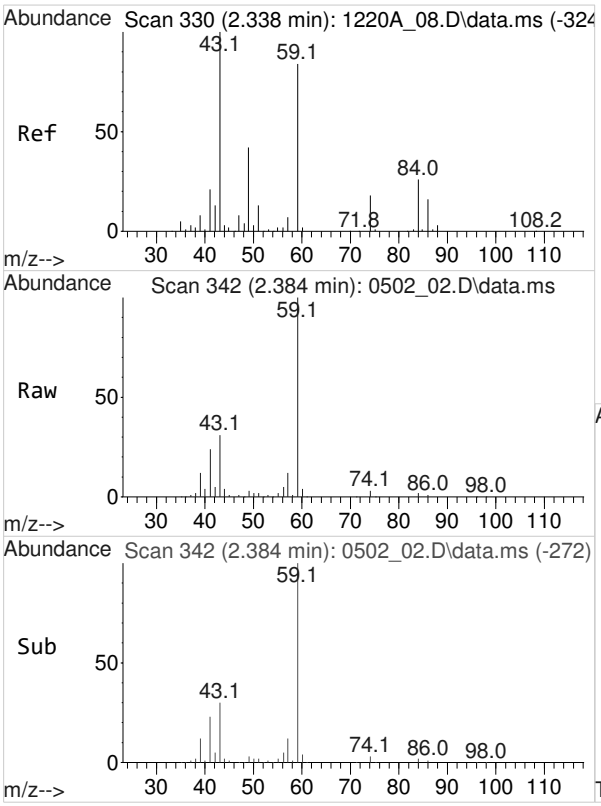


#31
Methylene Chloride
Concen: 3.9049773 ppbv
RT: 2.399 min Scan# 346
Delta R.T. 0.019 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 49 Resp: 13203

Ion	Ratio	Lower	Upper
49	100		
84	88.4	0.0	0.0#
86	53.4	0.0	0.0#
51	32.6	0.0	0.0#

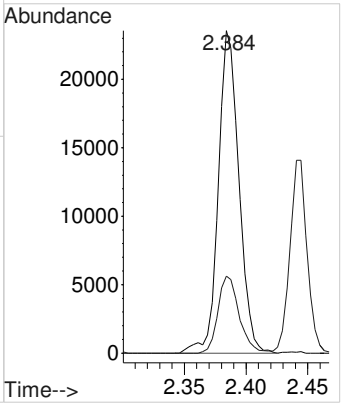


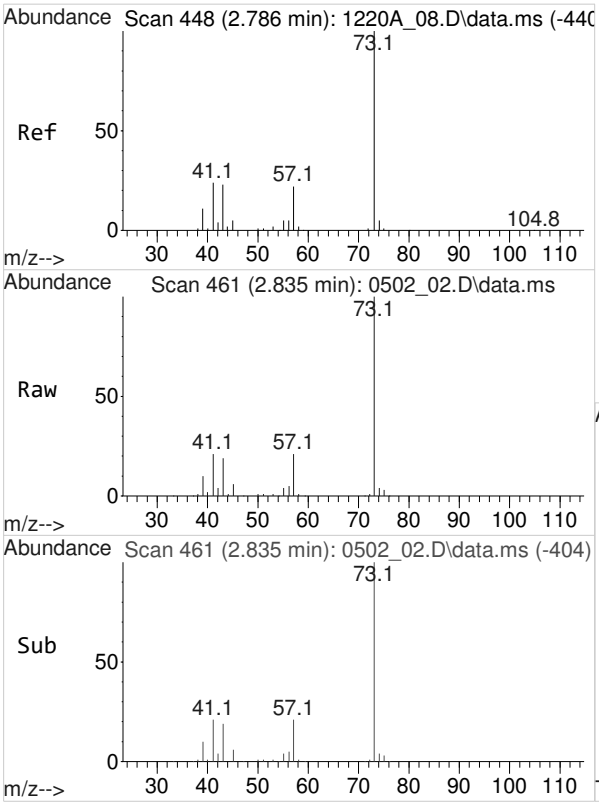


#32
TERT-BUTYL ALCOHOL
Concen: 3.6005037 ppbv
RT: 2.384 min Scan# 342
Delta R.T. 0.015 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 59 Resp: 27343

Ion	Ratio	Lower	Upper
59	100		
41	24.5	19.0	28.6

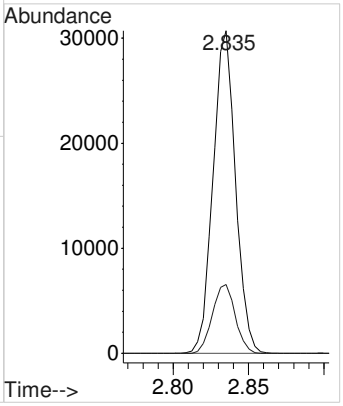


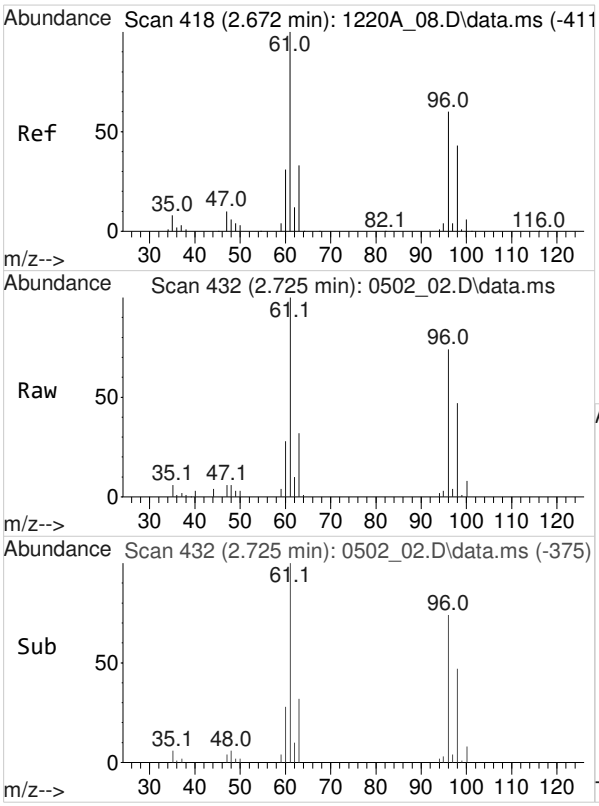


#33
Methyl Tert-Butyl Ether
Concen: 3.6829785 ppbv
RT: 2.835 min Scan# 461
Delta R.T. 0.015 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 73 Resp: 31860

Ion	Ratio	Lower	Upper
73	100		
57	21.6	16.9	25.3

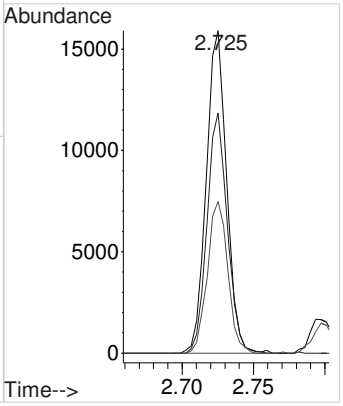


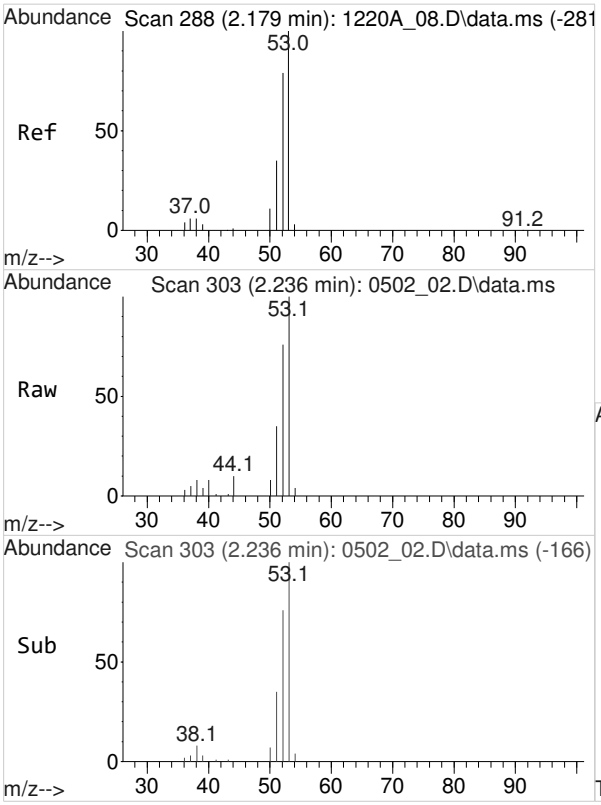


#34
Trans-1,2-Dichloroethene
Concen: 3.7202408 ppbv
RT: 2.725 min Scan# 432
Delta R.T. 0.015 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 61 Resp: 15670

Ion	Ratio	Lower	Upper
61	100		
96	74.7	61.5	92.3
98	47.4	41.2	61.8

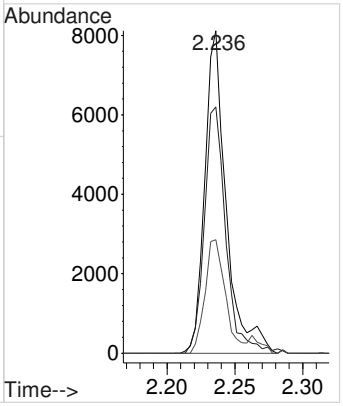


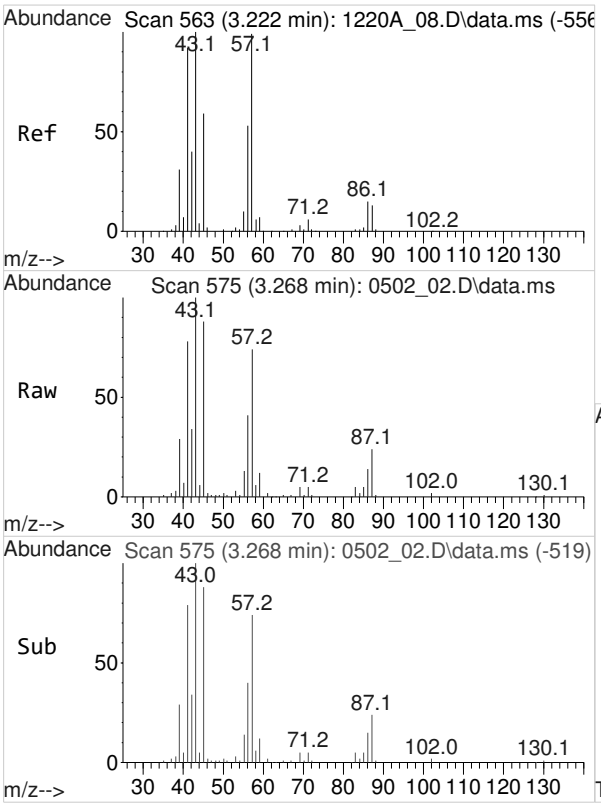


#35
ACRYLONITRILE
Concen: 3.5927490 ppbv
RT: 2.236 min Scan# 303
Delta R.T. 0.019 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 53 Resp: 8861

Ion	Ratio	Lower	Upper
53	100		
52	77.1	63.4	95.2
51	33.9	28.2	42.4

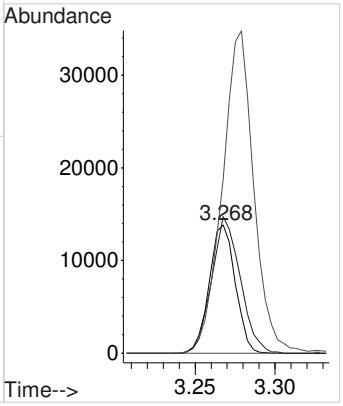


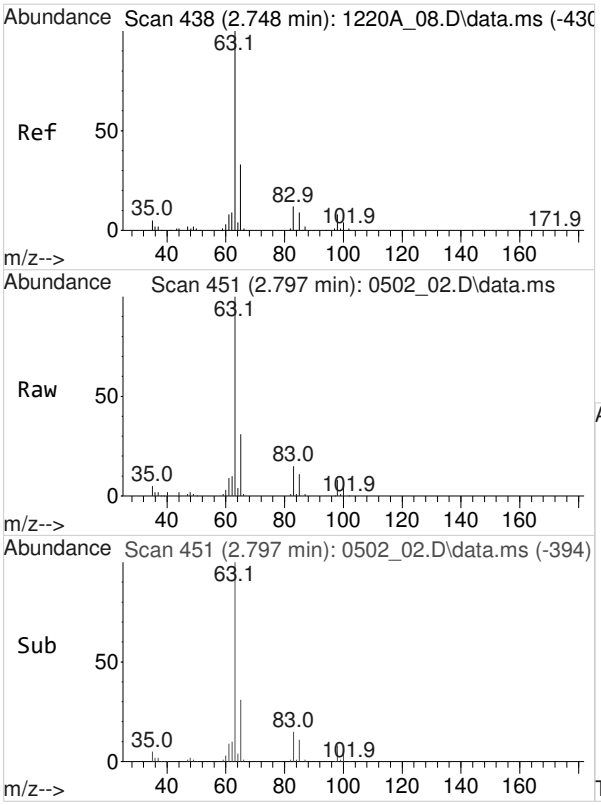


#36
n-Hexane
Concen: 3.8039915 ppbv
RT: 3.268 min Scan# 575
Delta R.T. 0.012 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 57 Resp: 15610

Ion	Ratio	Lower	Upper
57	100		
41	116.9	92.1	138.1
43	305.2	243.0	364.4

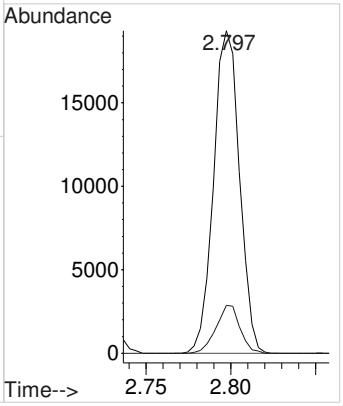


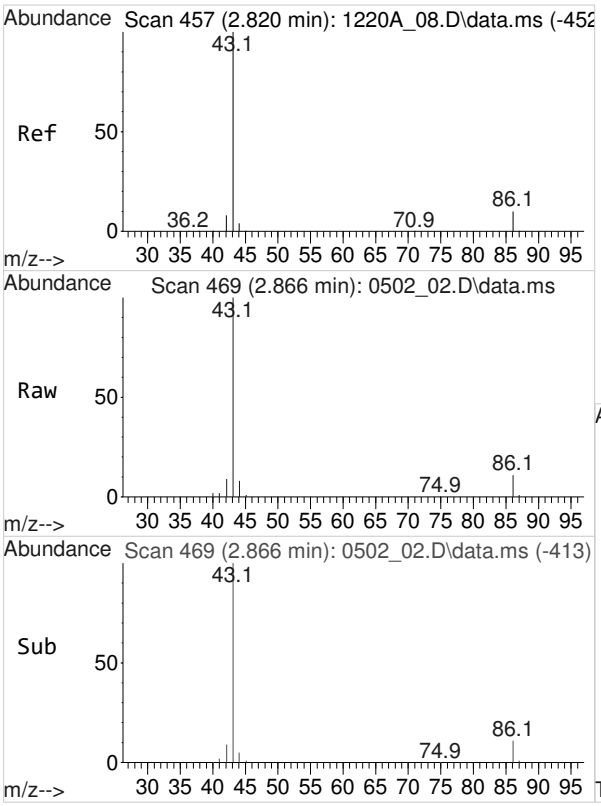


#37
1,1-Dichloroethane
Concen: 3.7776313 ppbv
RT: 2.797 min Scan# 451
Delta R.T. 0.015 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 63 Resp: 20410

Ion	Ratio	Lower	Upper
63	100		
83	13.8	11.1	16.7

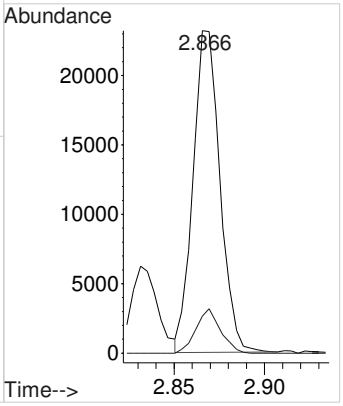


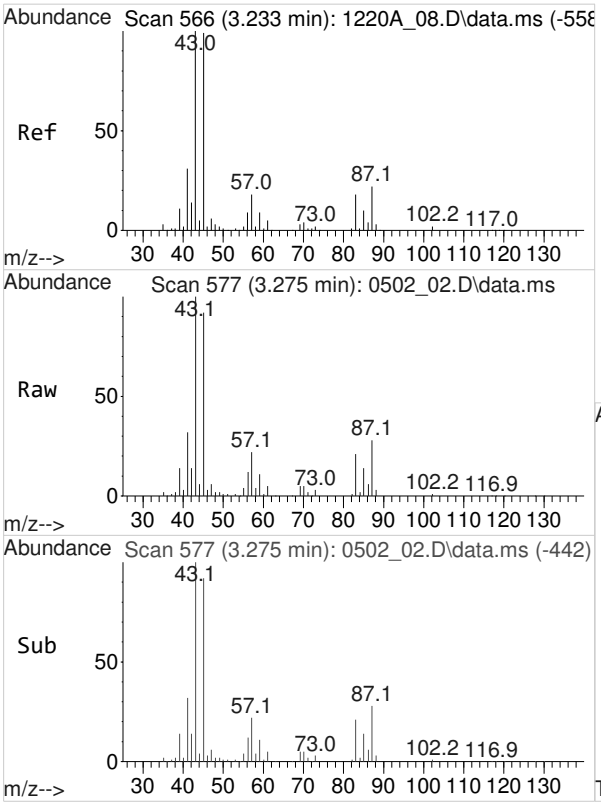


#38
Vinyl Acetate
Concen: 3.5034384 ppbv
RT: 2.866 min Scan# 469
Delta R.T. 0.012 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 43 Resp: 24014

Ion	Ratio	Lower	Upper
43	100		
86	12.5	0.0	0.0#

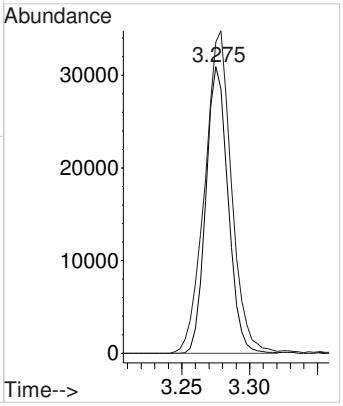


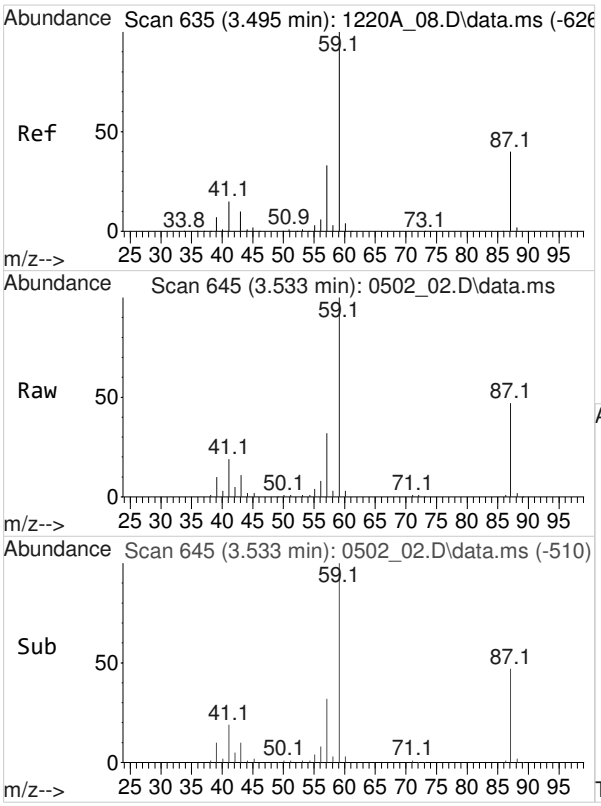


#39
DI-ISOPROPYL ETHER
Concen: 3.8215527 ppbv
RT: 3.275 min Scan# 577
Delta R.T. 0.011 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 45 Resp: 35149

Ion	Ratio	Lower	Upper
45	100		
43	135.6	106.2	159.2

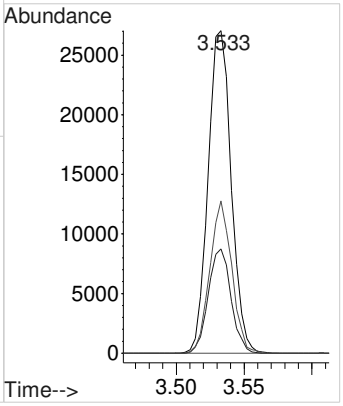


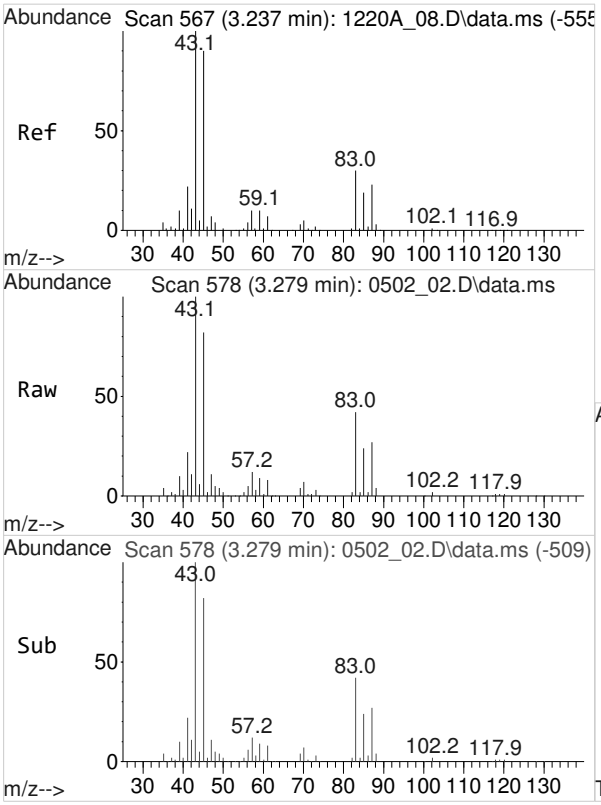


#40
ETHYL TERT-BUTYL ETHER
Concen: 3.8106063 ppbv
RT: 3.533 min Scan# 645
Delta R.T. 0.012 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 59 Resp: 31784

Ion	Ratio	Lower	Upper
59	100		
57	31.8	25.8	38.8
87	44.8	35.9	53.9

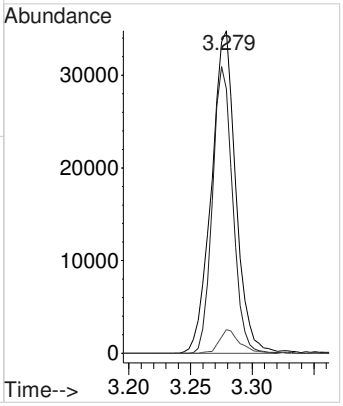


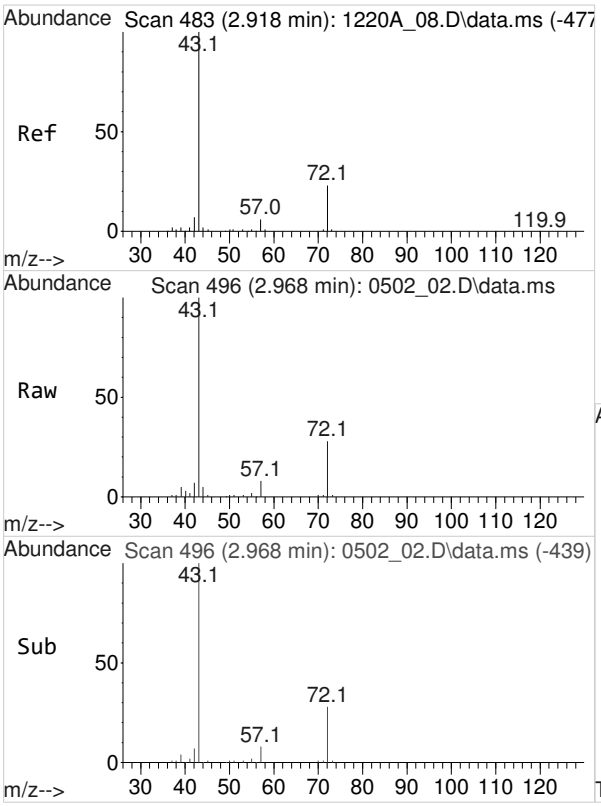


#41
ETHYL ACETATE
Concen: 3.7378807 ppbv
RT: 3.279 min Scan# 578
Delta R.T. 0.012 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 43 Resp: 47645

Ion	Ratio	Lower	Upper
43	100		
45	73.8	60.2	90.4
70	6.1	5.2	7.8

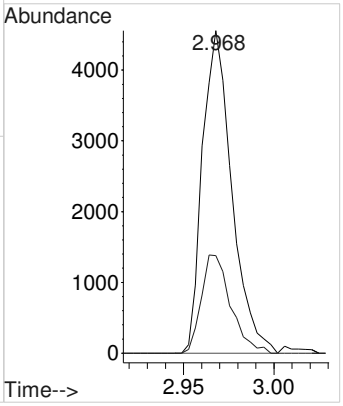


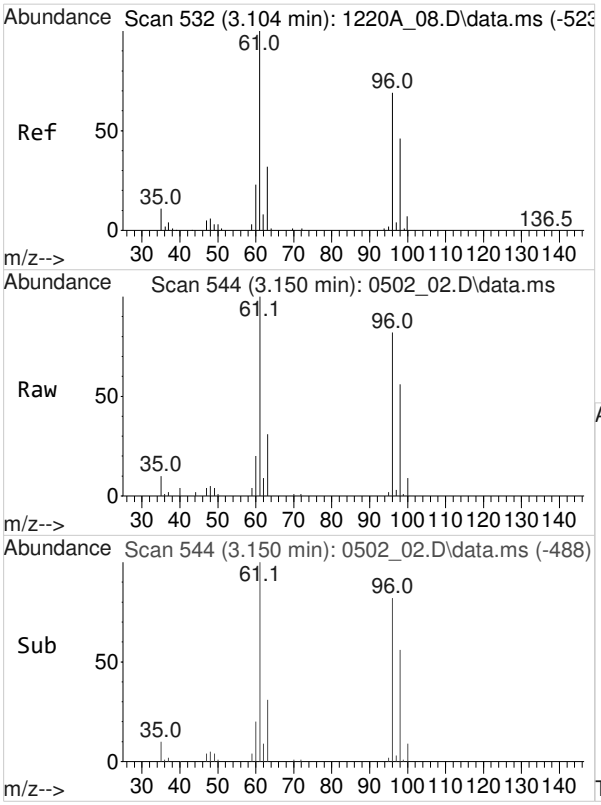


#42
2-Butanone (MEK)
Concen: 3.4729315 ppbv
RT: 2.968 min Scan# 496
Delta R.T. 0.015 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 72 Resp: 5140

Ion	Ratio	Lower	Upper
72	100		
57	30.4	23.0	34.6

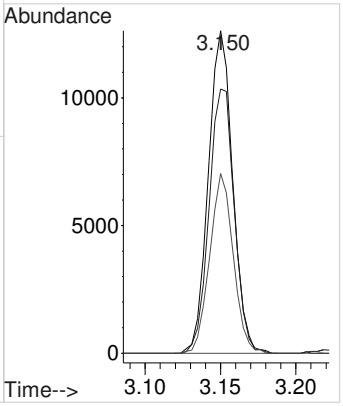


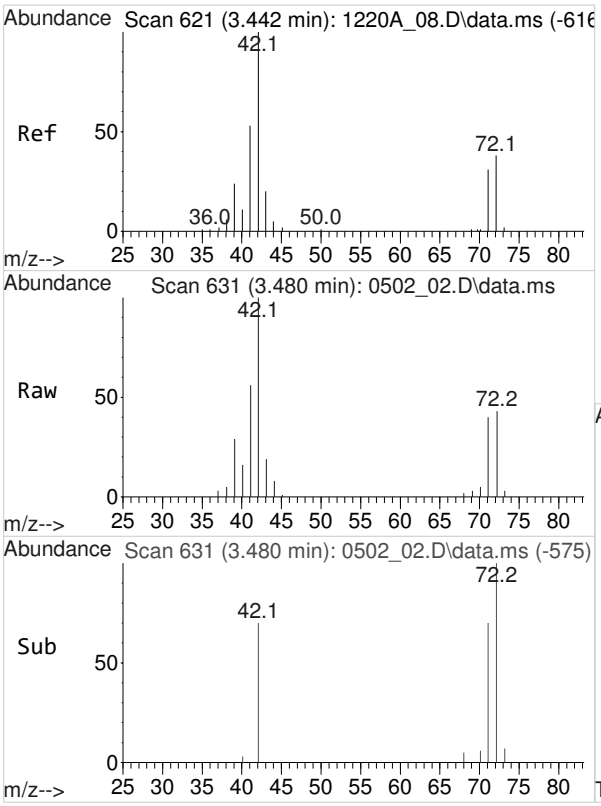


#43
cis-1,2-Dichloroethene
Concen: 3.7799197 ppbv
RT: 3.150 min Scan# 544
Delta R.T. 0.012 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 61 Resp: 14142

Ion	Ratio	Lower	Upper
61	100		
96	85.2	68.5	102.7
98	54.1	45.5	68.3

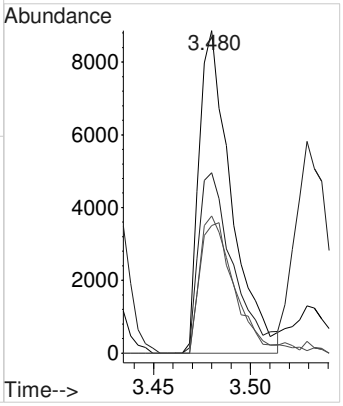


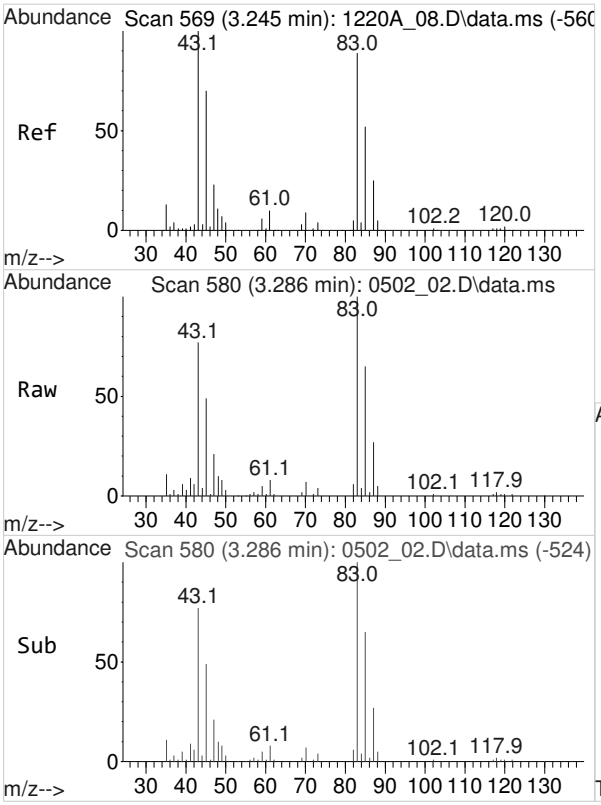


#44
Tetrahydrofuran
Concen: 3.9578740 ppbv
RT: 3.480 min Scan# 631
Delta R.T. 0.012 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 42 Resp: 10276

Ion	Ratio	Lower	Upper
42	100		
41	58.0	51.3	76.9
72	46.2	38.3	57.5
71	45.2	35.8	53.8

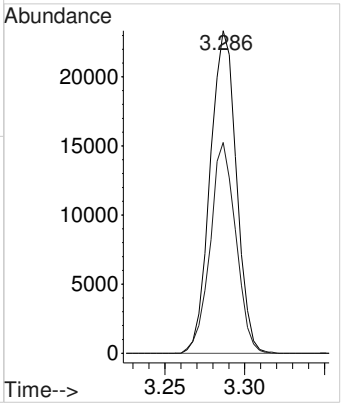


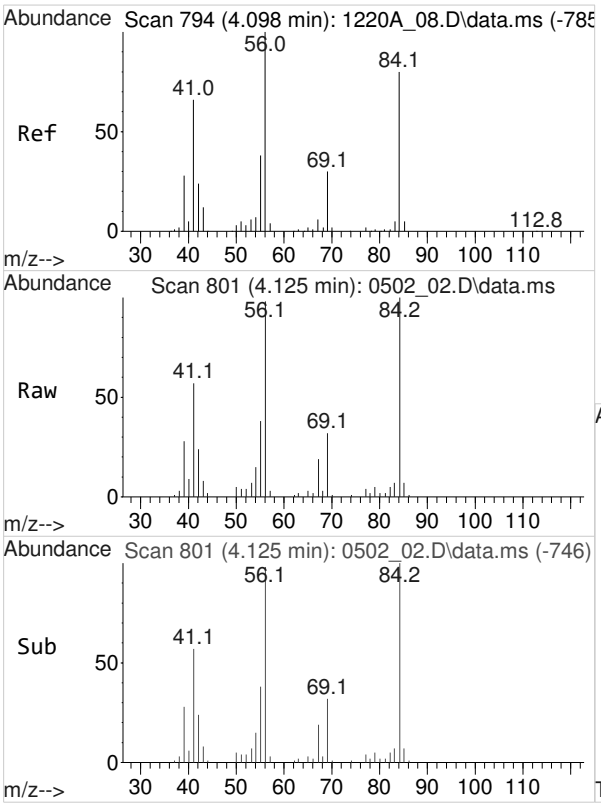


#45
Chloroform
Concen: 3.7566562 ppbv
RT: 3.286 min Scan# 580
Delta R.T. 0.011 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 83 Resp: 26497

Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.9	79.3

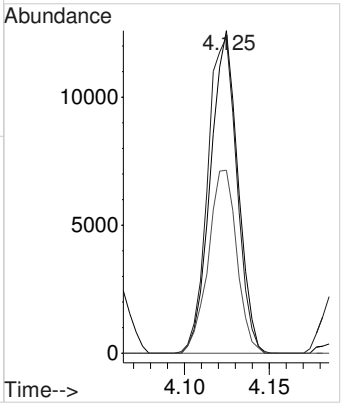


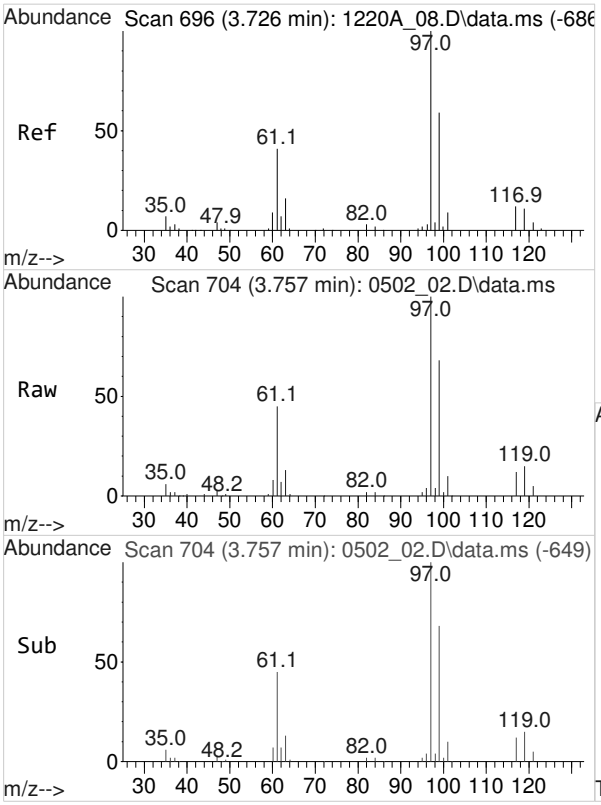


#46
Cyclohexane
Concen: 3.6324553 ppbv
RT: 4.125 min Scan# 801
Delta R.T. 0.008 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 84 Resp: 14094

Ion	Ratio	Lower	Upper
84	100		
56	104.0	81.2	121.8
41	58.9	48.6	72.8

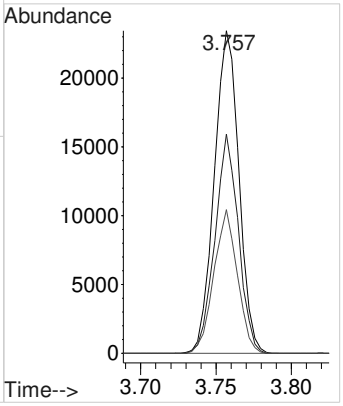


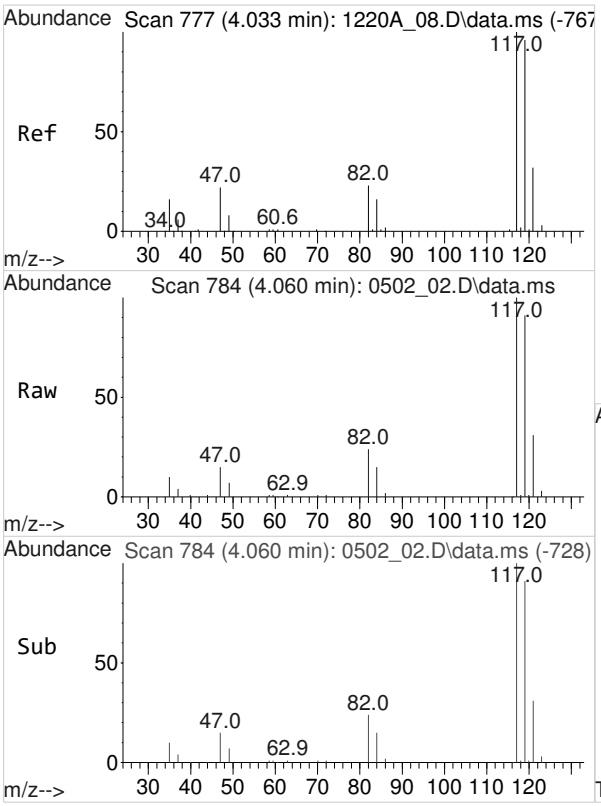


#47
1,1,1-Trichloroethane
Concen: 3.6630814 ppbv
RT: 3.757 min Scan# 704
Delta R.T. 0.008 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 97 Resp: 26591

Ion	Ratio	Lower	Upper
97	100		
99	64.8	50.7	76.1
61	42.6	33.0	49.4

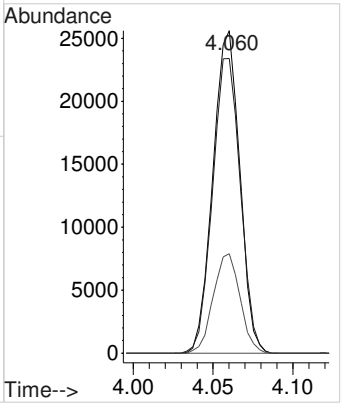


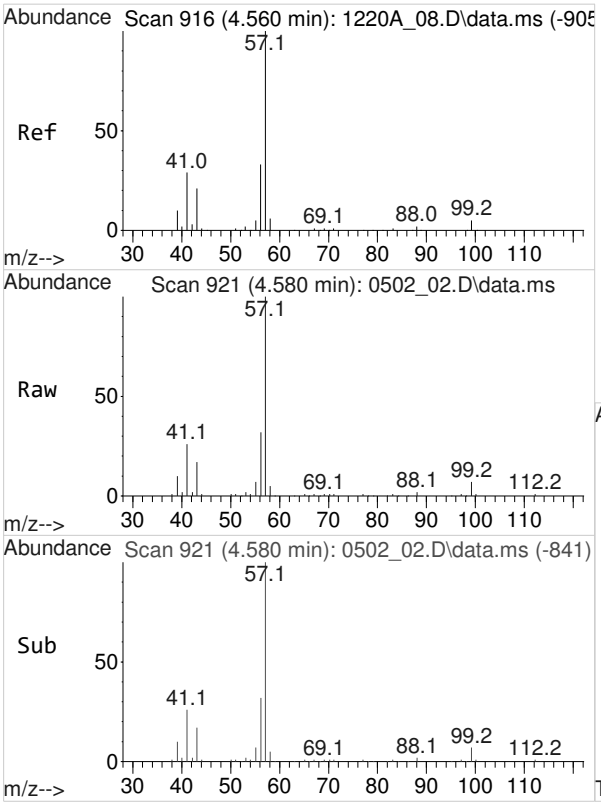


#48
Carbon Tetrachloride
Concen: 3.7271527 ppbv
RT: 4.060 min Scan# 784
Delta R.T. 0.011 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:117 Resp: 29780

Ion	Ratio	Lower	Upper
117	100		
119	94.7	79.2	118.8
121	30.8	25.2	37.8

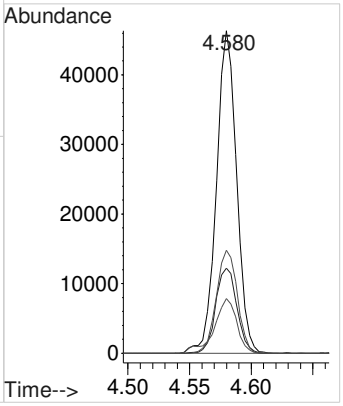


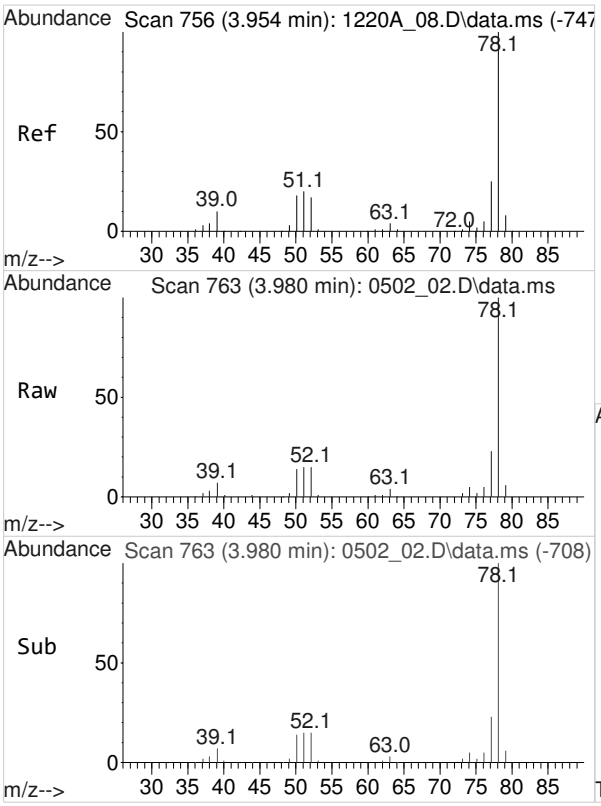


#49
2,2,4-Trimethylpentane
Concen: 3.8270670 ppbv
RT: 4.580 min Scan# 921
Delta R.T. 0.004 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 57 Resp: 52680

Ion	Ratio	Lower	Upper
57	100		
41	27.7	22.3	33.5
43	19.1	15.2	22.8
56	33.1	25.8	38.8

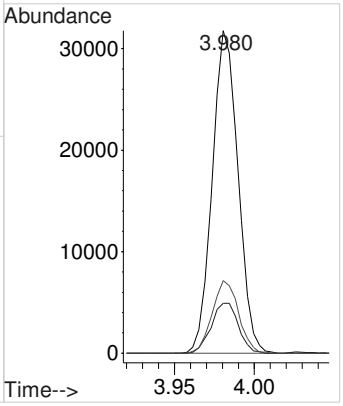


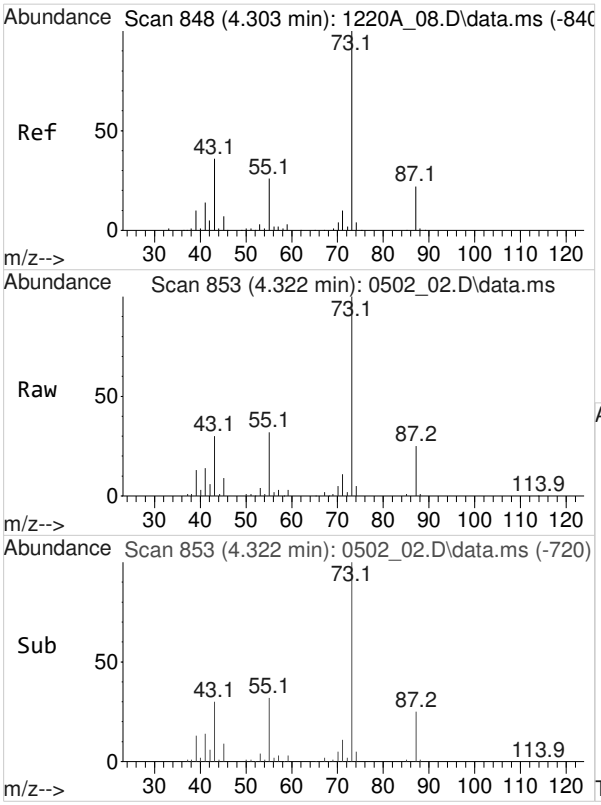


#51
Benzene
Concen: 3.6318267 ppbv
RT: 3.980 min Scan# 763
Delta R.T. 0.007 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 78 Resp: 35435

Ion	Ratio	Lower	Upper
78	100		
51	16.3	13.0	19.4
77	23.0	19.0	28.4

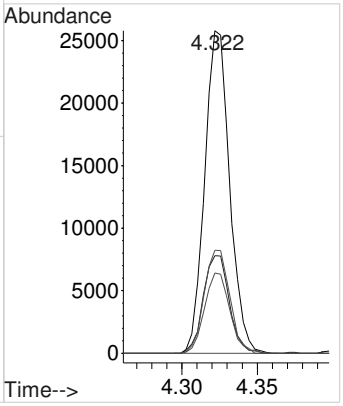


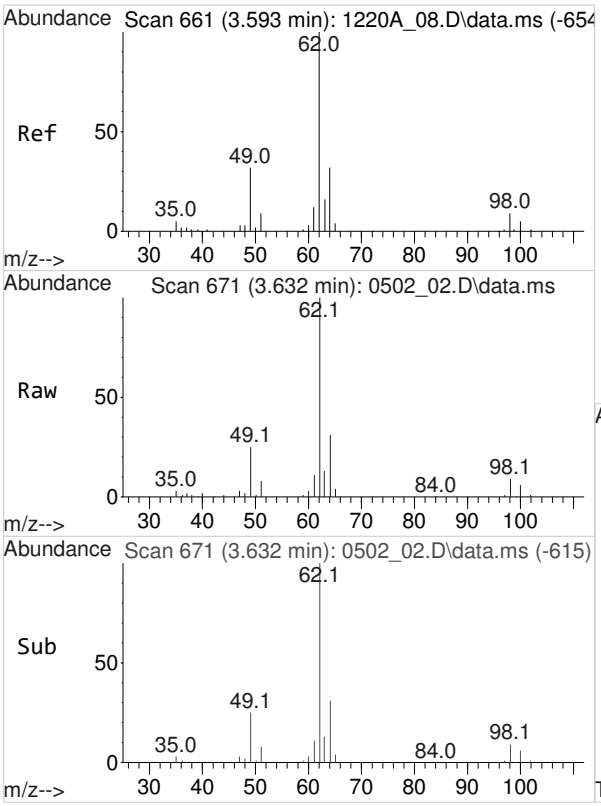


#52
TERT-AMYL METHYL ETHER
Concen: 3.4846455 ppbv
RT: 4.322 min Scan# 853
Delta R.T. 0.004 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 73 Resp: 29604

Ion	Ratio	Lower	Upper
73	100		
43	31.4	25.0	37.6
55	32.7	25.0	37.4
87	25.0	20.5	30.7

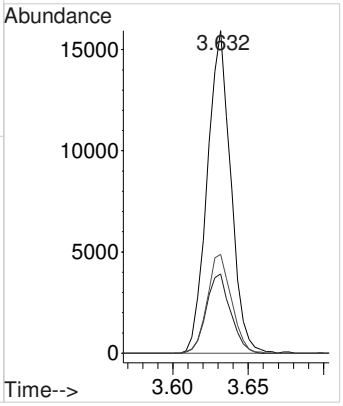


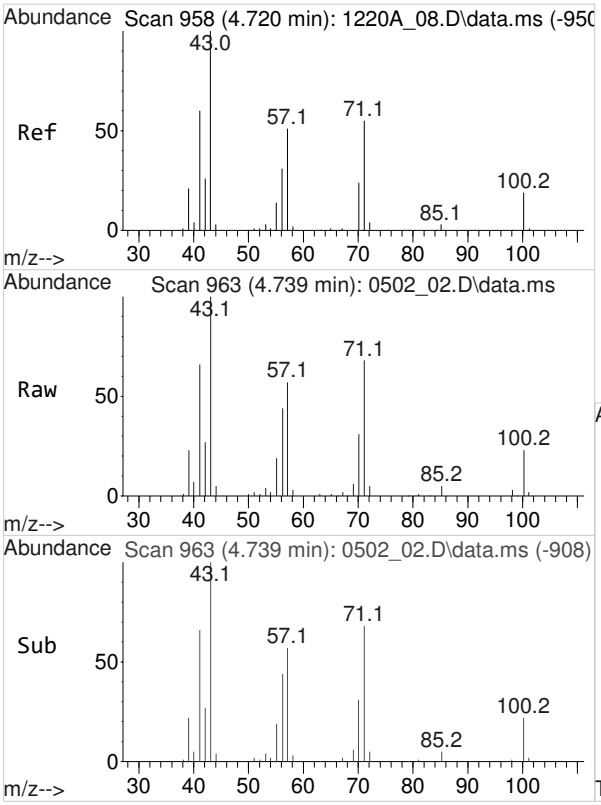


#53
1,2-Dichloroethane
Concen: 3.7385867 ppbv
RT: 3.632 min Scan# 671
Delta R.T. 0.012 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 62 Resp: 17235

Ion	Ratio	Lower	Upper
62	100		
49	25.3	20.1	30.1
64	31.5	24.0	36.0

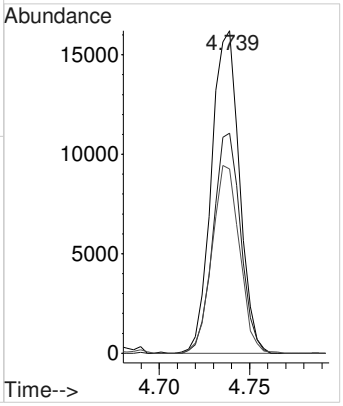


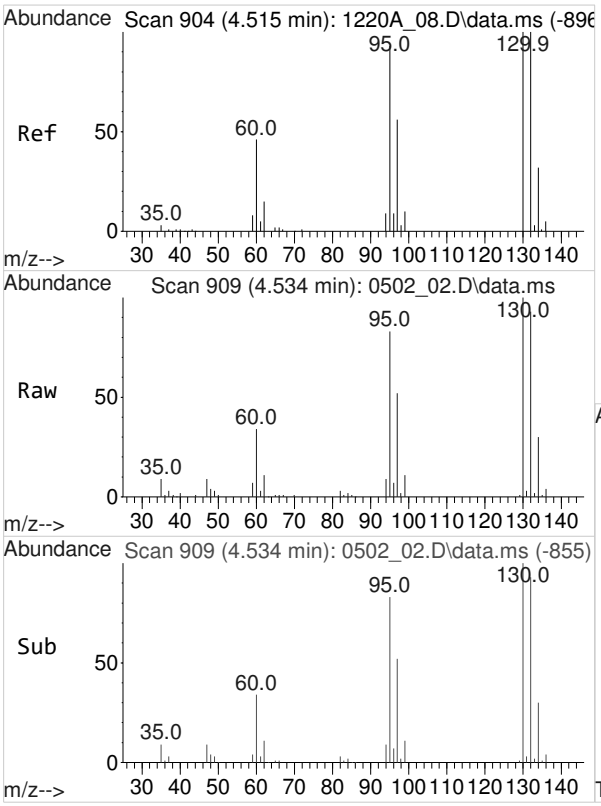


#54
Heptane
Concen: 3.8234002 ppbv
RT: 4.739 min Scan# 963
Delta R.T. 0.008 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 43 Resp: 17343

Ion	Ratio	Lower	Upper
43	100		
71	67.1	56.6	84.8
57	57.7	47.5	71.3

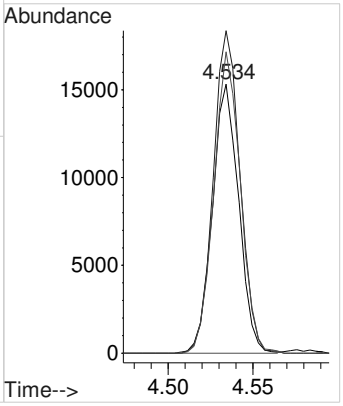


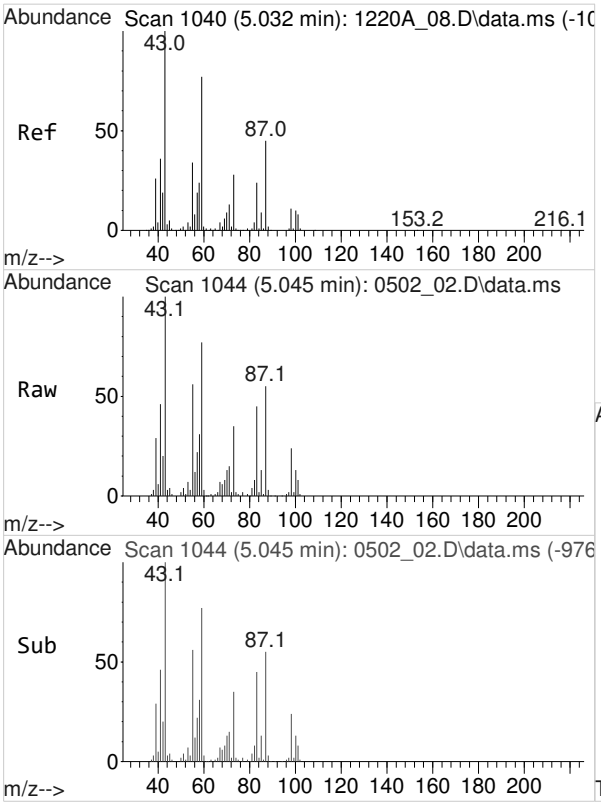


#55
Trichloroethene
Concen: 3.6472462 ppbv
RT: 4.534 min Scan# 909
Delta R.T. 0.004 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 95 Resp: 16442

Ion	Ratio	Lower	Upper
95	100		
130	121.7	94.1	141.1
132	113.1	91.5	137.3

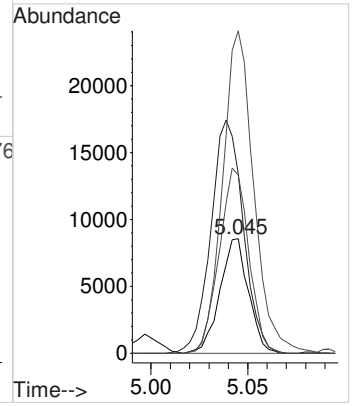


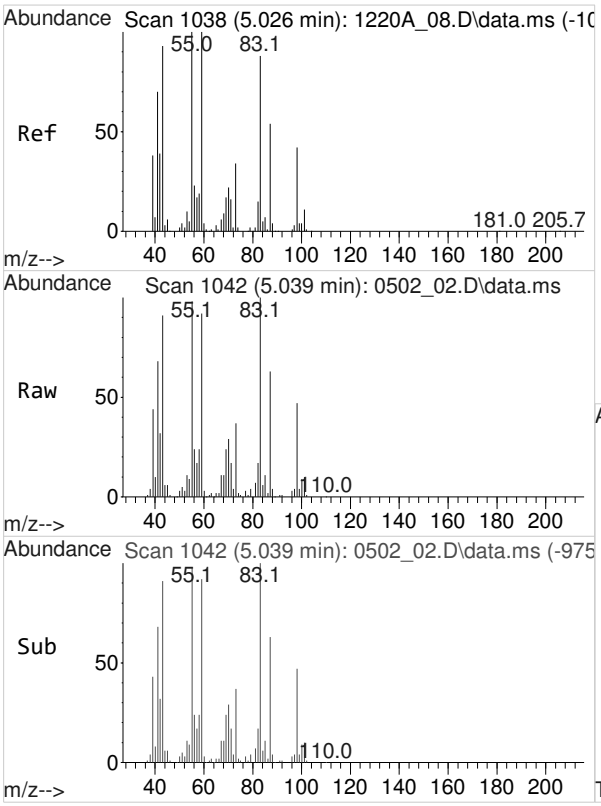


#56
TERT-AMYL ETHYL ETHER
Concen: 3.7446376 ppbv
RT: 5.045 min Scan# 1044
Delta R.T. 0.006 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 73 Resp: 8740

Ion	Ratio	Lower	Upper
73	100		
55	256.6	211.0	316.6
87	167.1	124.6	187.0
43	308.4	246.9	370.3

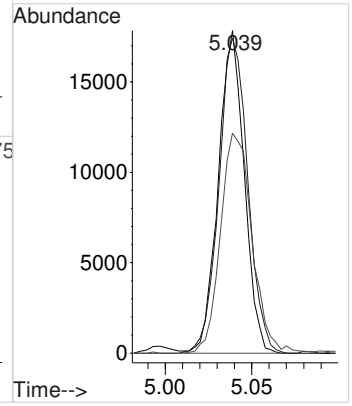


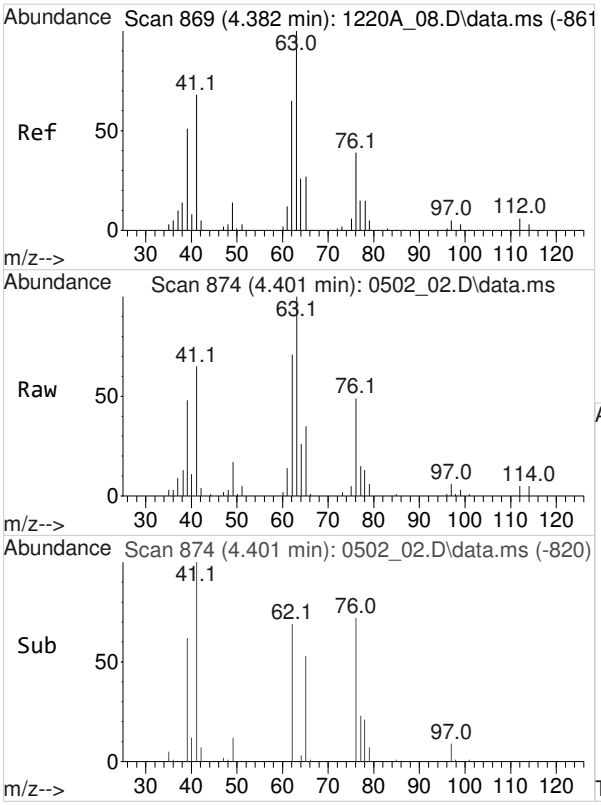


#57
METHYL CYCLOHEXANE
Concen: 3.8292005 ppbv
RT: 5.039 min Scan# 1042
Delta R.T. 0.004 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 83 Resp: 18466

Ion	Ratio	Lower	Upper
83	100		
55	121.4	100.2	150.2
41	83.1	71.8	107.6

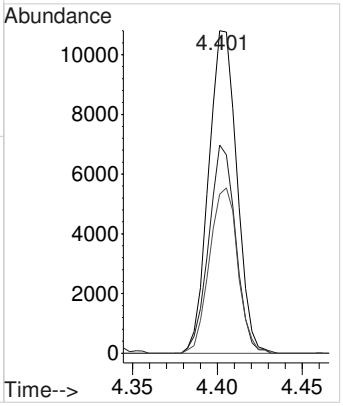


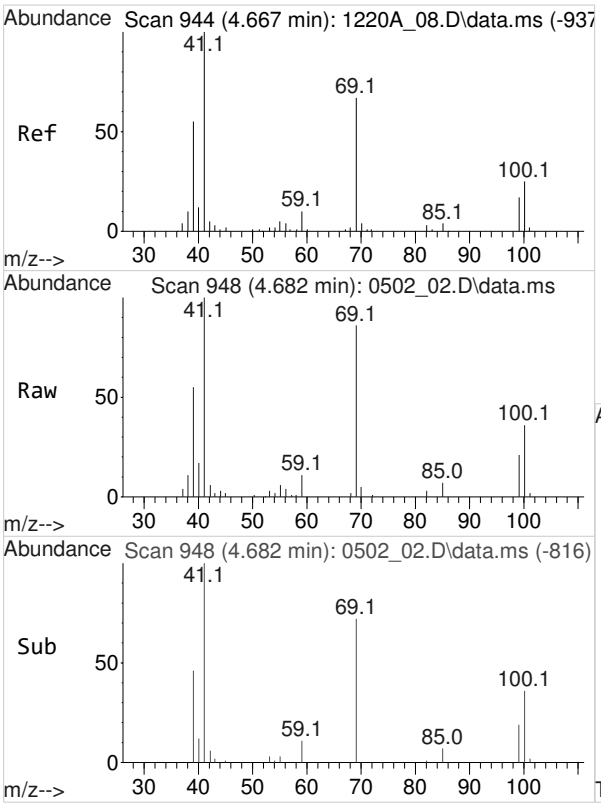


#58
1,2-Dichloropropane
Concen: 3.6996373 ppbv
RT: 4.401 min Scan# 874
Delta R.T. 0.004 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 63 Resp: 12425

Ion	Ratio	Lower	Upper
63	100		
41	61.7	48.3	72.5
76	51.4	38.2	57.4

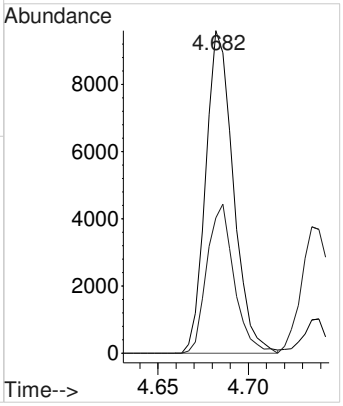


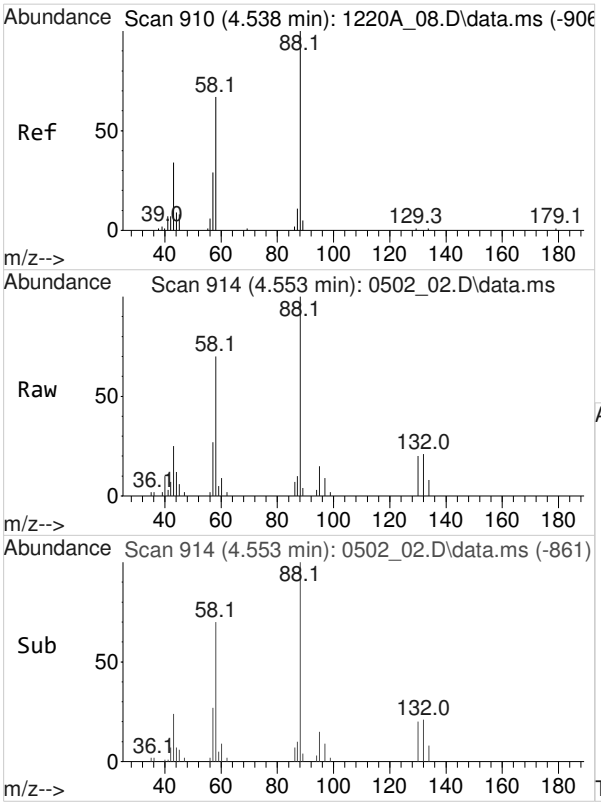


#59
Methyl Methacrylate
Concen: 3.4859100 ppbv
RT: 4.682 min Scan# 948
Delta R.T. 0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 69 Resp: 10215

Ion	Ratio	Lower	Upper
69	100		
100	45.2	33.9	50.9

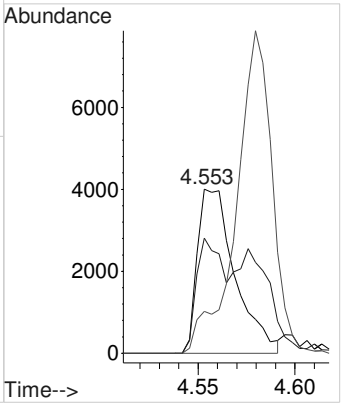


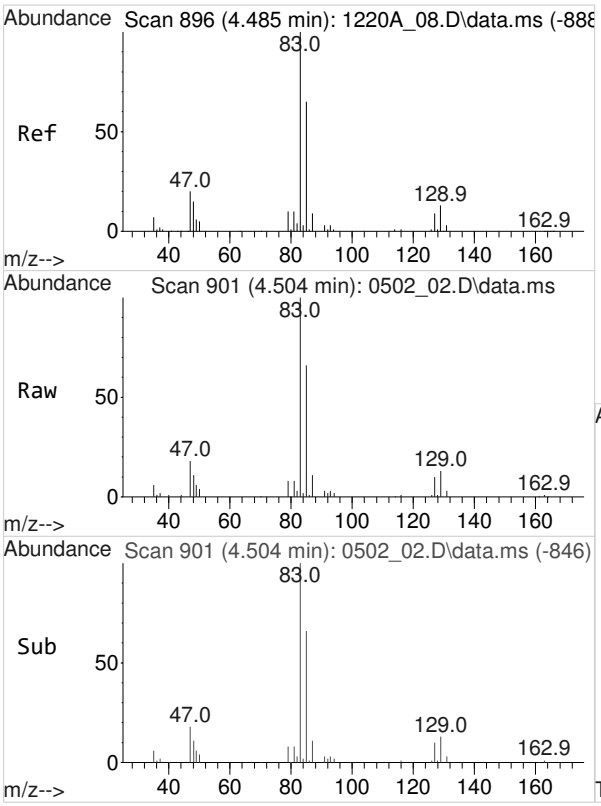


#60
1,4-Dioxane
Concen: 2.8335909 ppbv
RT: 4.553 min Scan# 914
Delta R.T. 0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 88 Resp: 5421

Ion	Ratio	Lower	Upper
88	100		
58	49.2	37.2	55.8
43	0.0	0.0	0.0

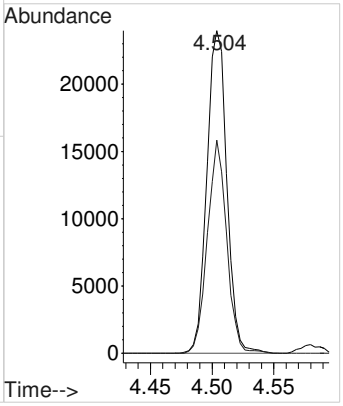


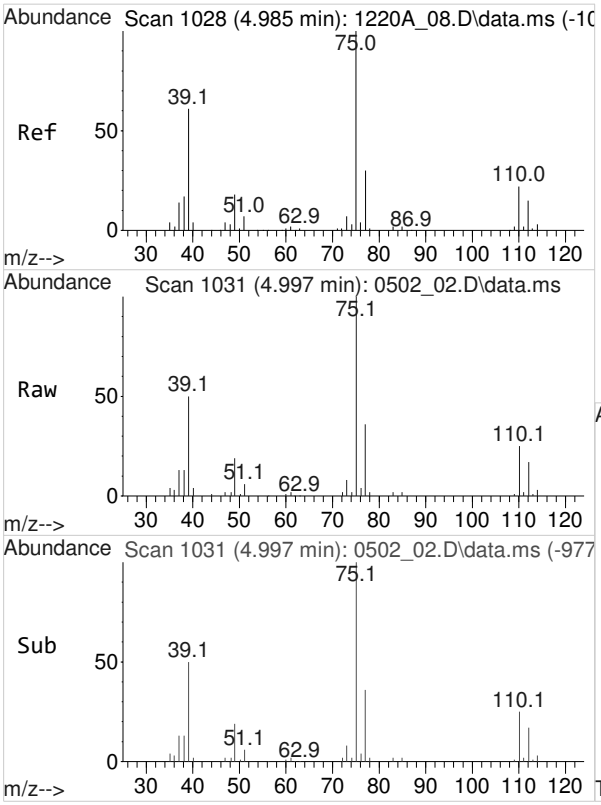


#61
Bromodichloromethane
Concen: 3.7031701 ppbv
RT: 4.504 min Scan# 901
Delta R.T. 0.008 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 83 Resp: 26913

Ion	Ratio	Lower	Upper
83	100		
85	63.6	49.6	74.4

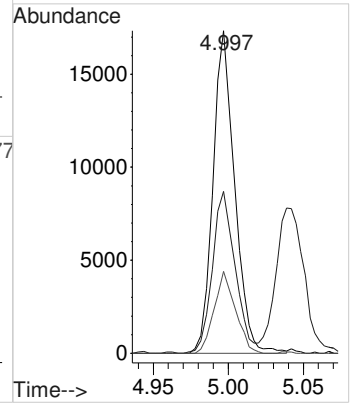


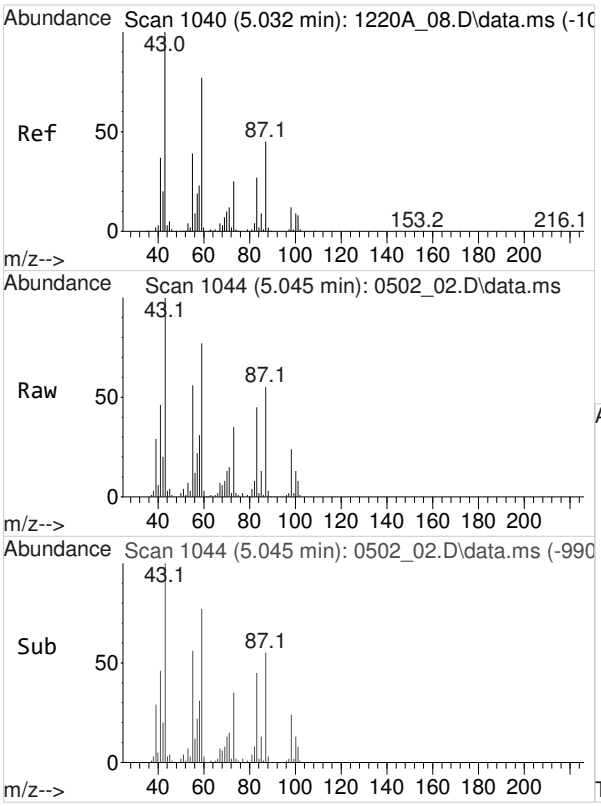


#62
cis-1,3-Dichloropropene
Concen: 2.9893609 ppbv
RT: 4.997 min Scan# 1031
Delta R.T. 0.004 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 75 Resp: 13162

Ion	Ratio	Lower	Upper
75	100		
39	58.2	43.5	65.3
110	25.6	20.3	30.5

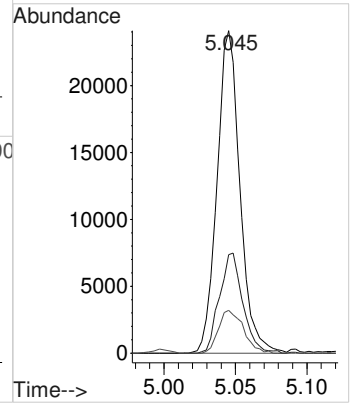


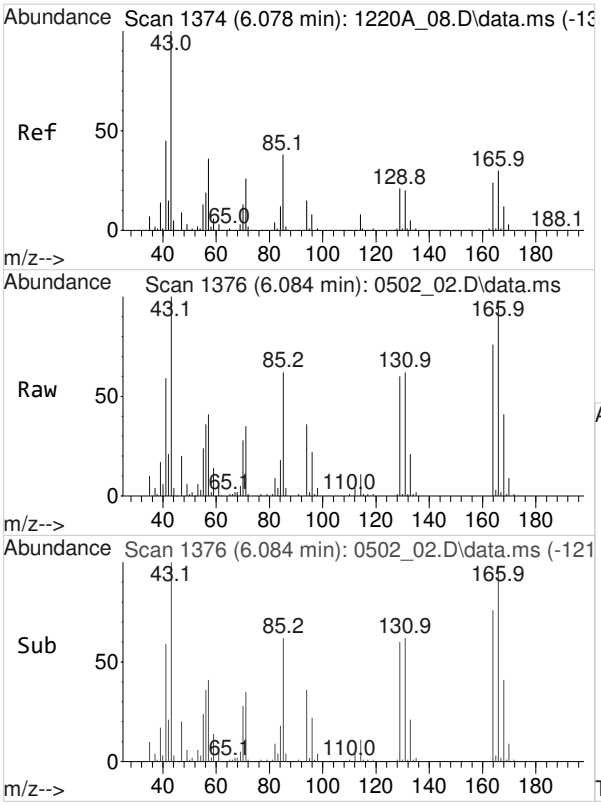


#63
4-Methyl-2-Pentanone (MIBK)
Concen: 3.4240582 ppbv
RT: 5.045 min Scan# 1044
Delta R.T. 0.003 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 43 Resp: 26951

Ion	Ratio	Lower	Upper
43	100		
58	31.7	23.6	35.4
85	14.5	11.8	17.6

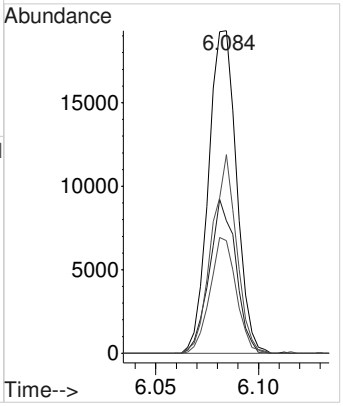


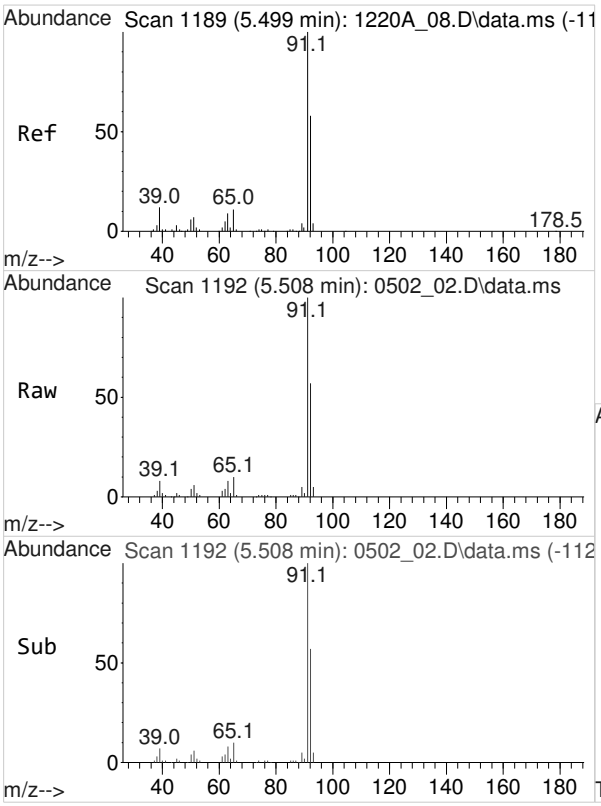


#64
n-OCTANE
Concen: 3.5831814 ppbv
RT: 6.084 min Scan# 1376
Delta R.T. 0.003 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 43 Resp: 18145

Ion	Ratio	Lower	Upper
43	100		
57	45.2	35.3	52.9
85	54.7	45.4	68.0
71	33.7	28.9	43.3

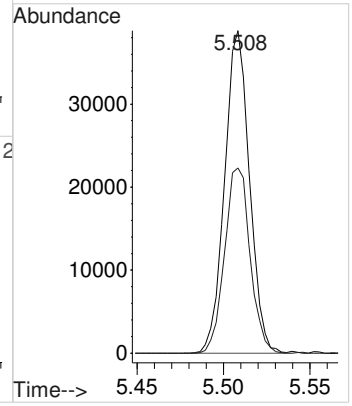


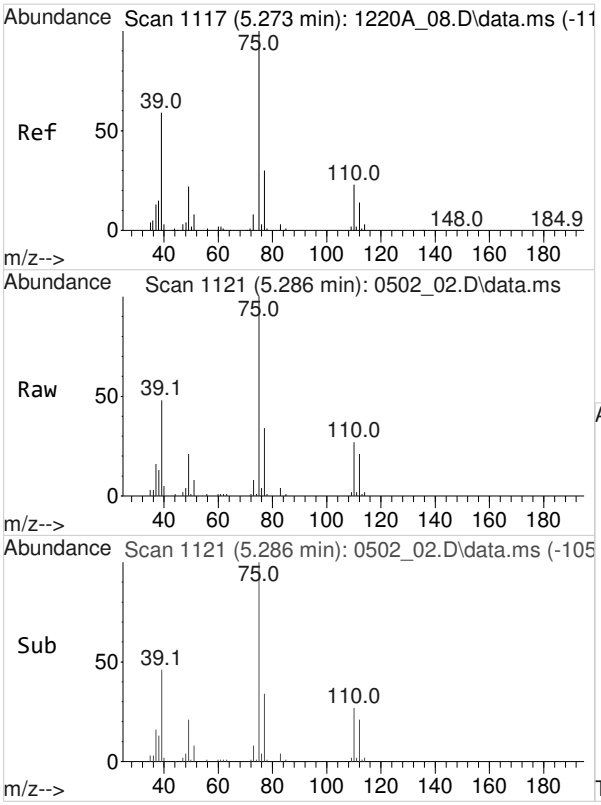


#65
Toluene
Concen: 3.6836116 ppbv
RT: 5.508 min Scan# 1192
Delta R.T. 0.003 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 91 Resp: 38557

Ion	Ratio	Lower	Upper
91	100		
92	59.0	47.0	70.4

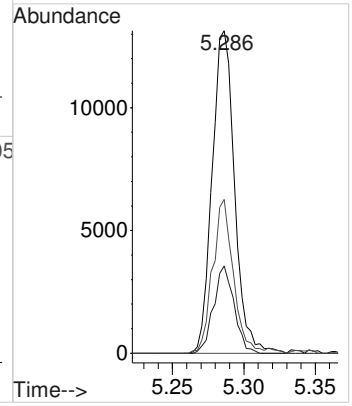


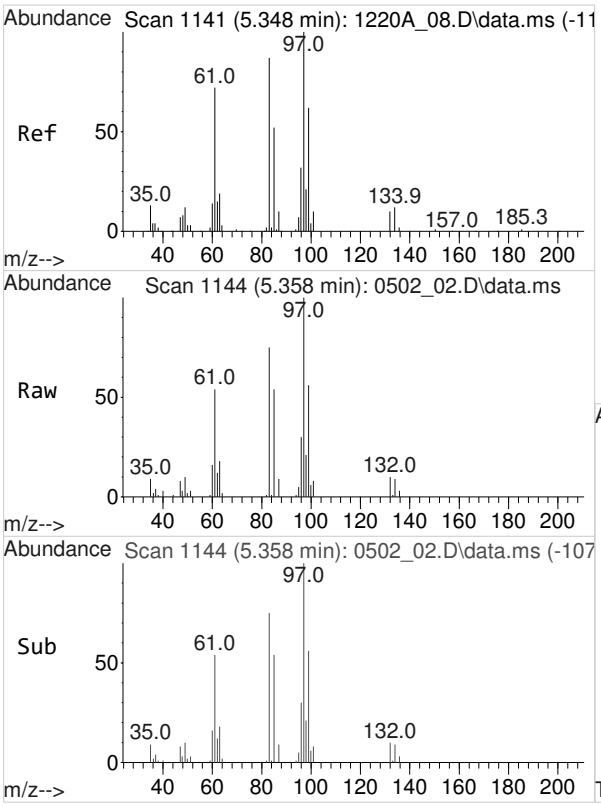


#66
trans-1,3-Dichloropropene
Concen: 3.7572688 ppbv
RT: 5.286 min Scan# 1121
Delta R.T. 0.003 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 75 Resp: 14317

Ion	Ratio	Lower	Upper
75	100		
110	24.8	19.4	29.0
39	44.0	36.7	55.1

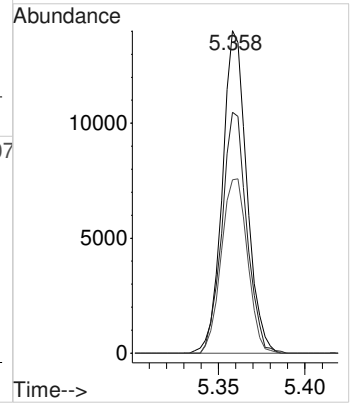


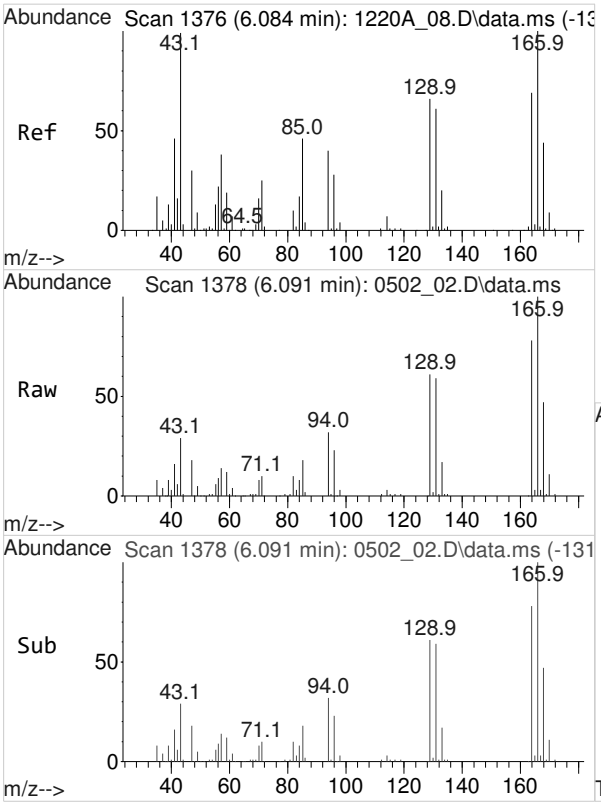


#67
1,1,2-Trichloroethane
Concen: 3.7314226 ppbv
RT: 5.358 min Scan# 1144
Delta R.T. 0.003 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 97 Resp: 13672

Ion	Ratio	Lower	Upper
97	100		
83	75.9	64.1	96.1
61	58.1	46.6	70.0

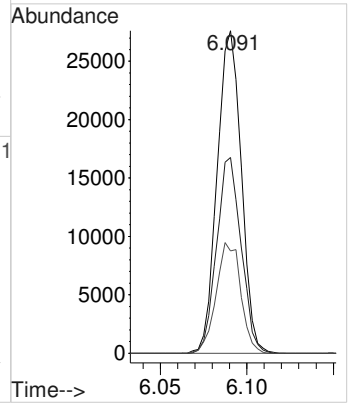


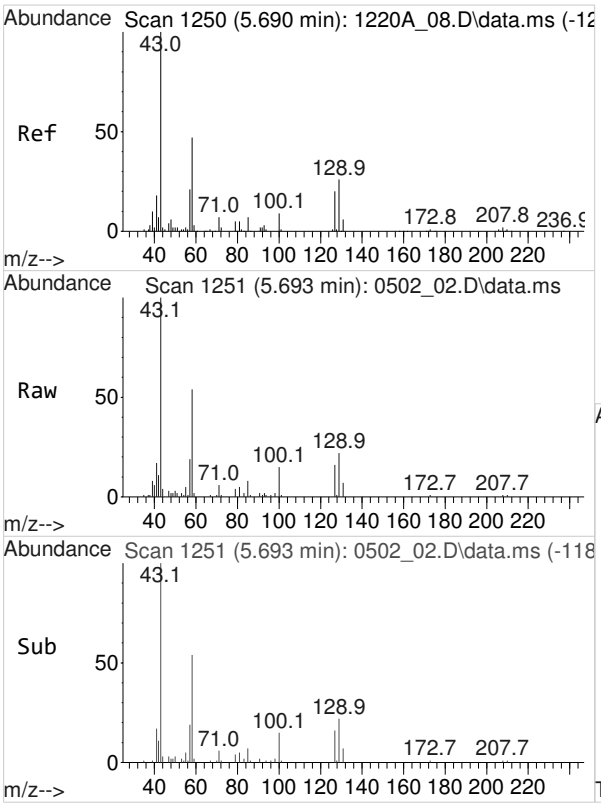


#68
Tetrachloroethene
Concen: 3.8002669 ppbv
RT: 6.091 min Scan# 1378
Delta R.T. 0.004 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:166 Resp: 26680

Ion	Ratio	Lower	Upper
166	100		
129	61.4	48.8	73.2
94	35.0	27.4	41.2

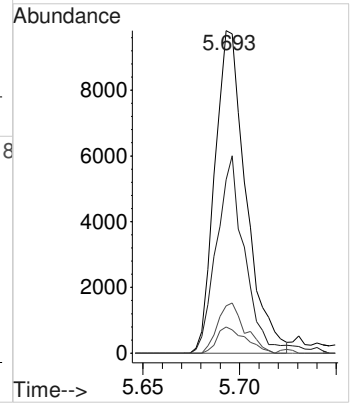


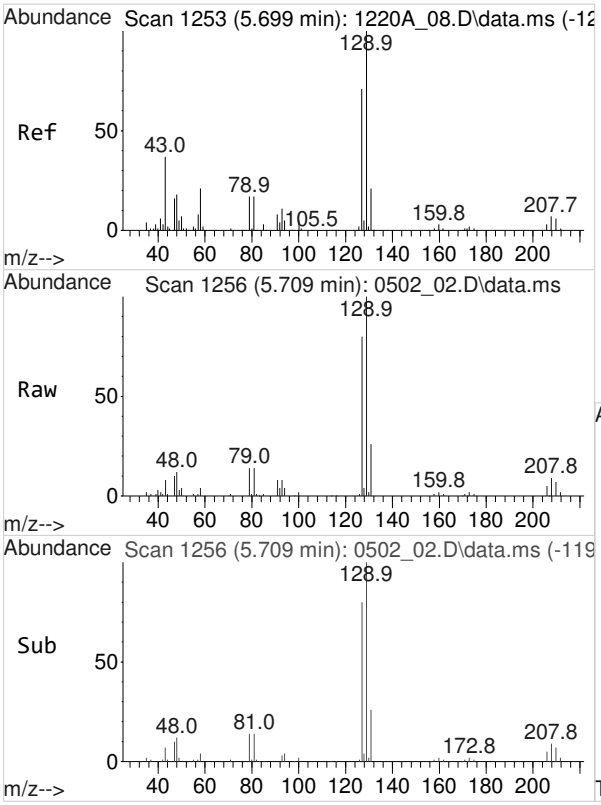


#69
Methyl Butyl Ketone
Concen: 2.6362613 ppbv
RT: 5.693 min Scan# 1251
Delta R.T. -0.003 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 43 Resp: 10912

Ion	Ratio	Lower	Upper
43	100		
58	56.4	45.0	67.4
85	7.5	6.8	10.2
100	13.7	11.0	16.4

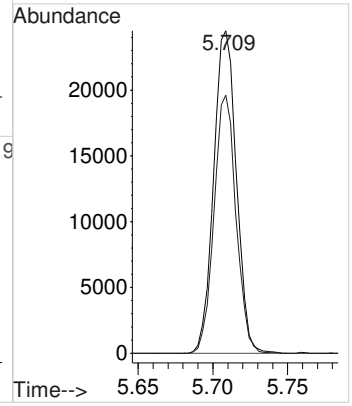


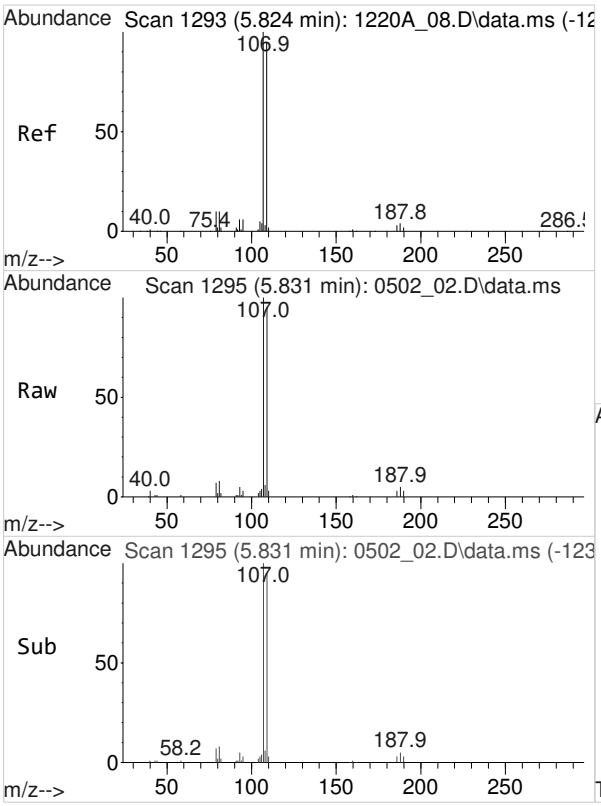


#70
Chlorodibromomethane
Concen: 3.6593515 ppbv
RT: 5.709 min Scan# 1256
Delta R.T. 0.004 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:129 Resp: 25819

Ion	Ratio	Lower	Upper
129	100		
127	77.5	61.3	91.9

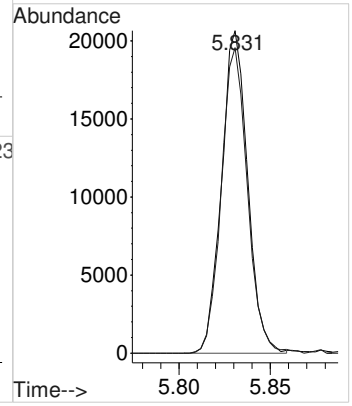


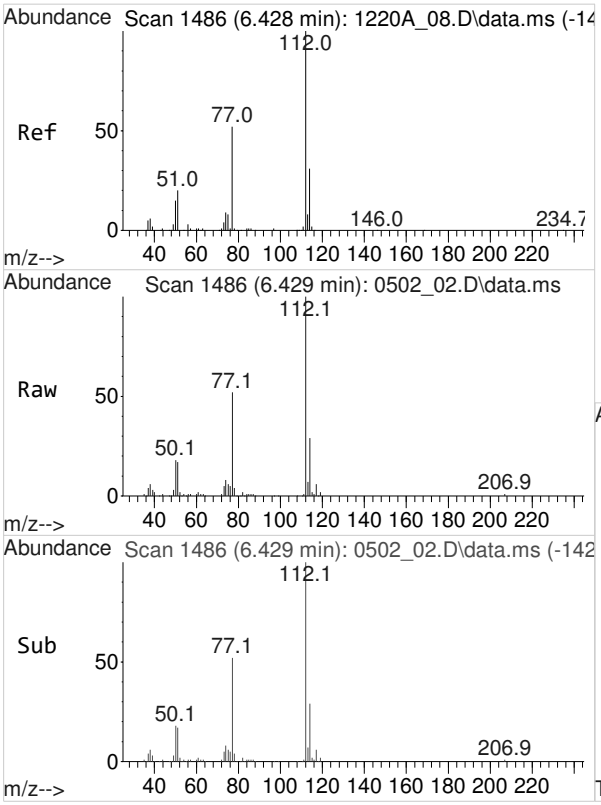


#71
1,2-Dibromoethane
Concen: 3.7239741 ppbv
RT: 5.831 min Scan# 1295
Delta R.T. 0.004 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:107 Resp: 20567

Ion	Ratio	Lower	Upper
107	100		
109	95.0	78.0	117.0

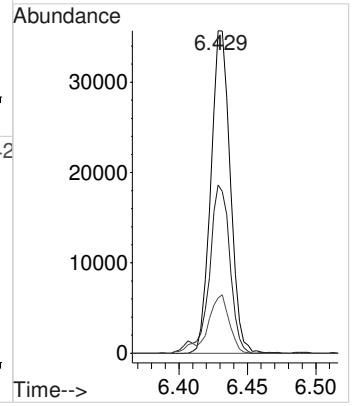


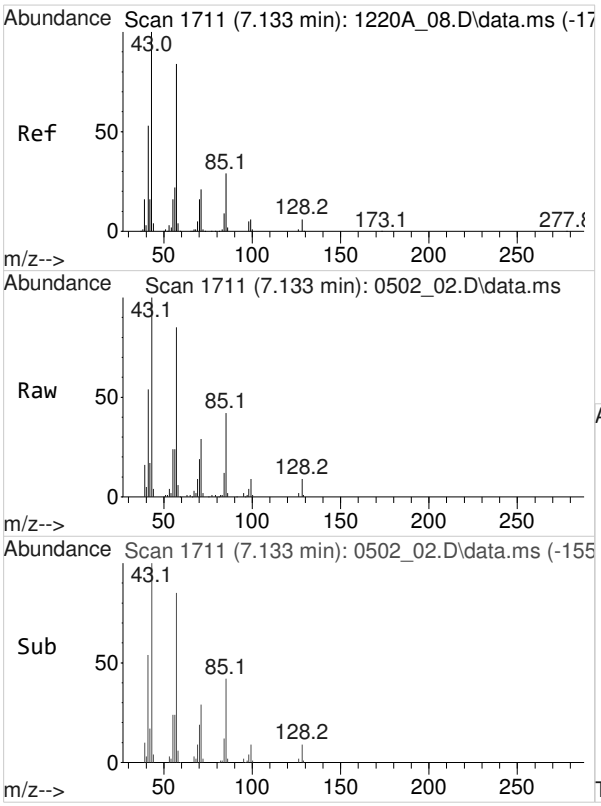


#72
Chlorobenzene
Concen: 3.7242760 ppbv
RT: 6.429 min Scan# 1486
Delta R.T. 0.001 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:112 Resp: 35169

Ion	Ratio	Lower	Upper
112	100		
77	55.3	43.7	65.5
51	20.3	15.7	23.5

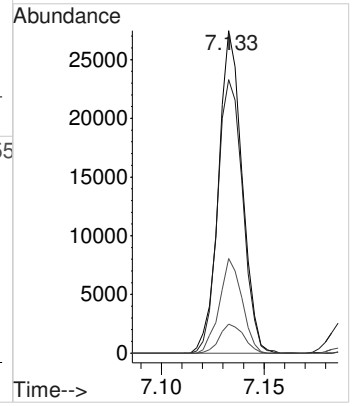


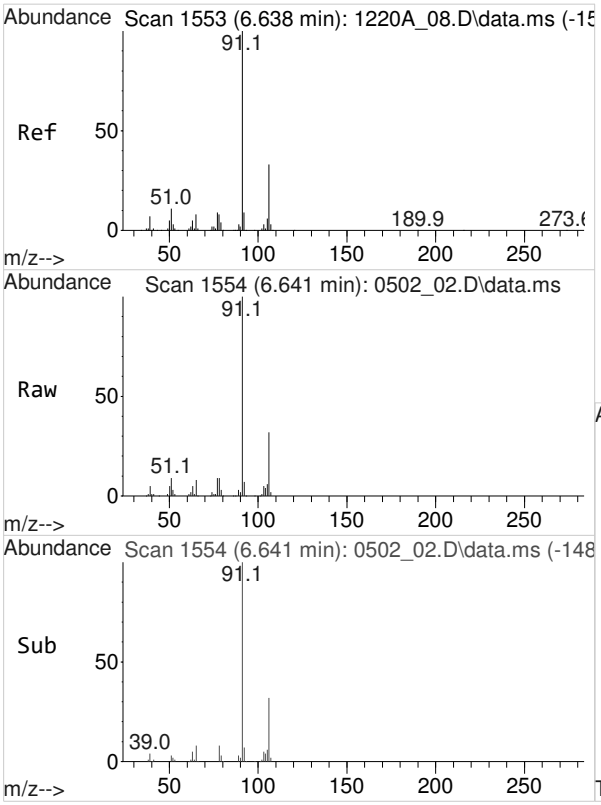


#73
NONANE
Concen: 4.0844642 ppbv
RT: 7.133 min Scan# 1711
Delta R.T. -0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 43 Resp: 21878

Ion	Ratio	Lower	Upper
43	100		
57	90.2	74.6	112.0
71	28.1	23.5	35.3
128	9.3	7.0	10.4

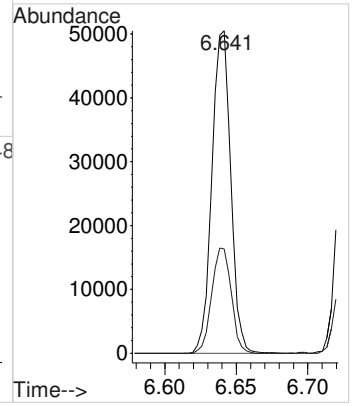


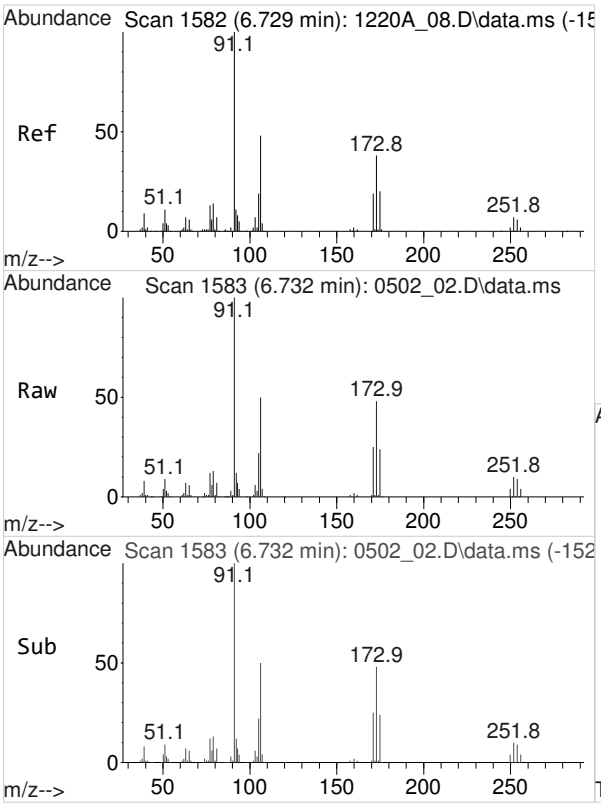


#75
Ethylbenzene
Concen: 3.5570468 ppbv
RT: 6.641 min Scan# 1554
Delta R.T. 0.003 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 91 Resp: 46324

Ion	Ratio	Lower	Upper
91	100		
106	33.7	25.8	38.6

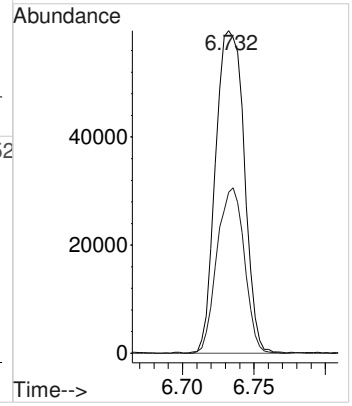


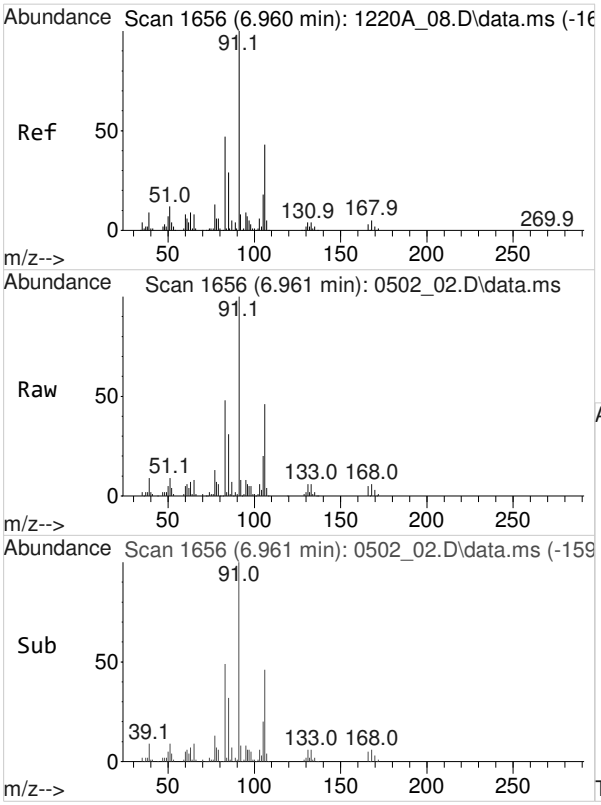


#76
M&P-Xylene
Concen: 7.6626950 ppbv
RT: 6.732 min Scan# 1583
Delta R.T. -0.003 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 91 Resp: 83501

Ion	Ratio	Lower	Upper
91	100		
106	49.0	38.8	58.2

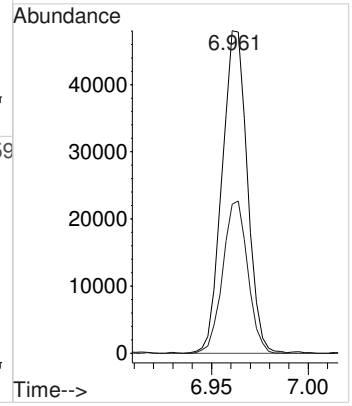


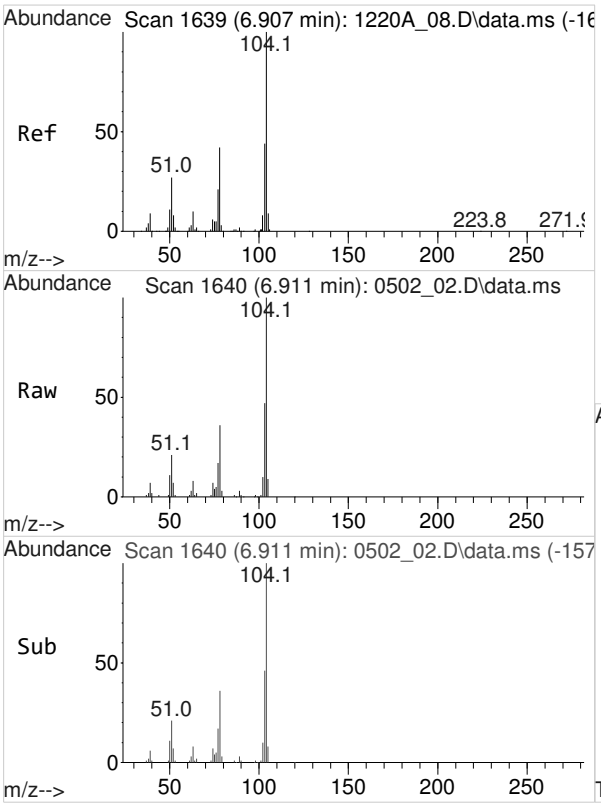


#77
O-Xylene
Concen: 4.0795132 ppbv
RT: 6.961 min Scan# 1656
Delta R.T. 0.001 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 91 Resp: 43436

Ion	Ratio	Lower	Upper
91	100		
106	46.7	38.8	58.2

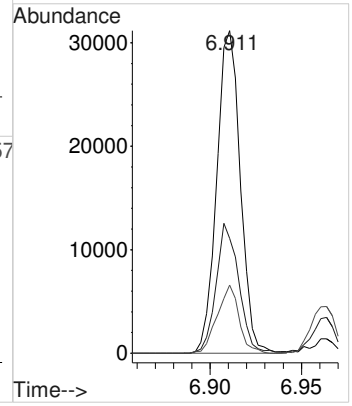


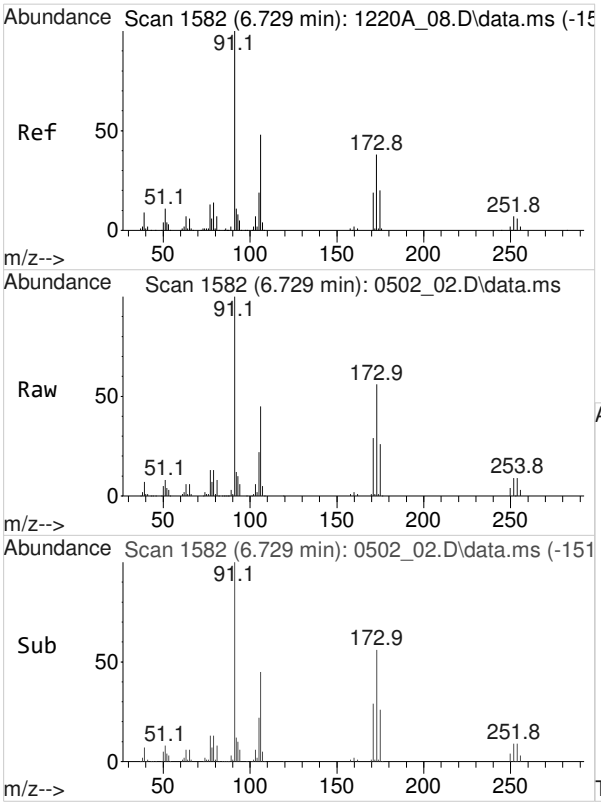


#80
Styrene
Concen: 3.8301896 ppbv
RT: 6.911 min Scan# 1640
Delta R.T. 0.001 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:104 Resp: 28003

Ion	Ratio	Lower	Upper
104	100		
78	38.5	32.2	48.2
51	19.5	16.0	24.0

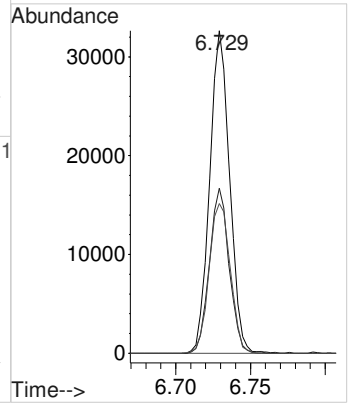


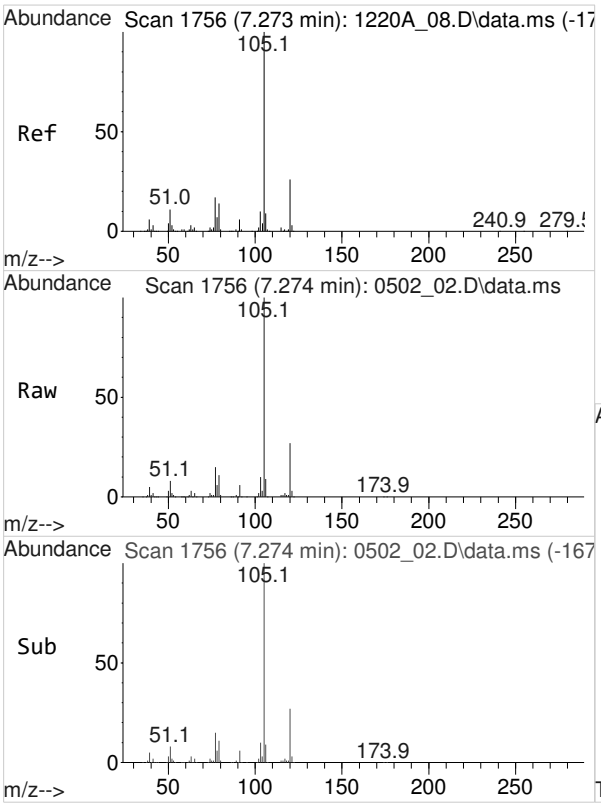


#81
Bromoform
Concen: 3.7916284 ppbv
RT: 6.729 min Scan# 1582
Delta R.T. 0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:173 Resp: 30143

Ion	Ratio	Lower	Upper
173	100		
171	50.6	40.9	61.3
175	49.4	39.5	59.3

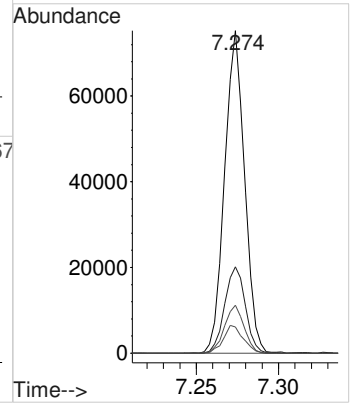


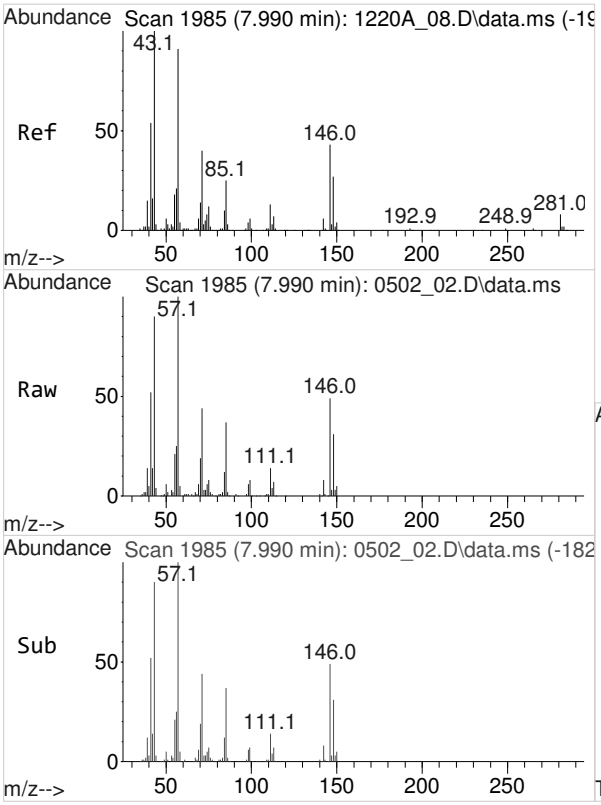


#82
Isopropylbenzene
Concen: 3.7054326 ppbv
RT: 7.274 min Scan# 1756
Delta R.T. 0.001 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:105 Resp: 63155

Ion	Ratio	Lower	Upper
105	100		
120	27.6	21.0	31.6
77	14.5	11.0	16.6
51	8.5	7.0	10.4

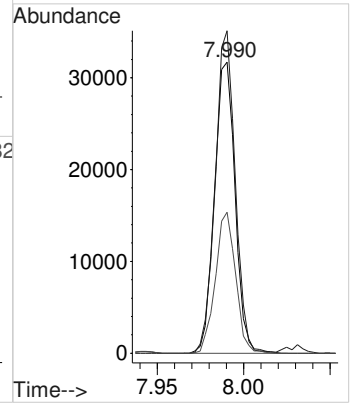


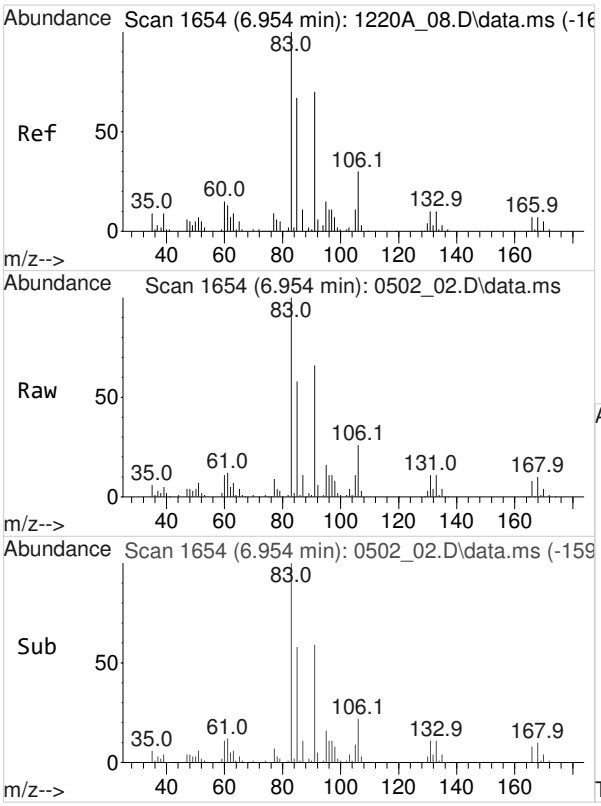


#83
n-DECANE
Concen: 3.6940578 ppbv
RT: 7.990 min Scan# 1985
Delta R.T. 0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 43 Resp: 26118

Ion	Ratio	Lower	Upper
43	100		
57	107.7	85.7	128.5
71	47.8	39.4	59.0

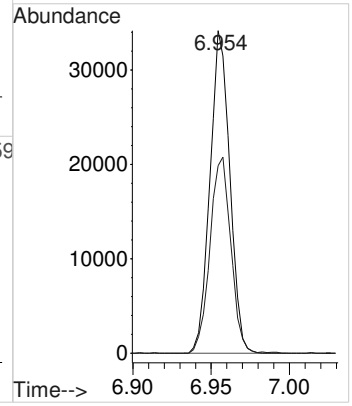


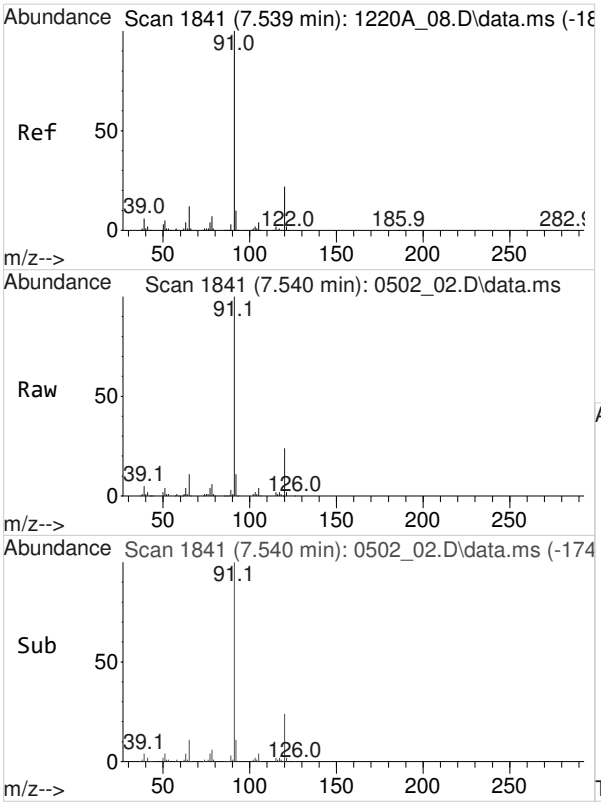


#84
1,1,2,2-Tetrachloroethane
Concen: 3.8230363 ppbv
RT: 6.954 min Scan# 1654
Delta R.T. 0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 83 Resp: 30026

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.0	76.4

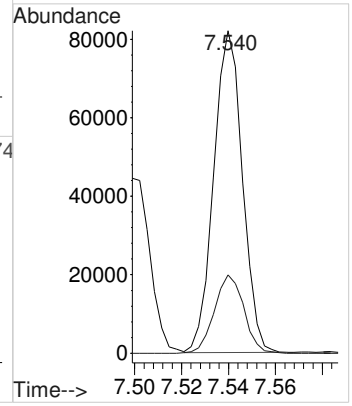


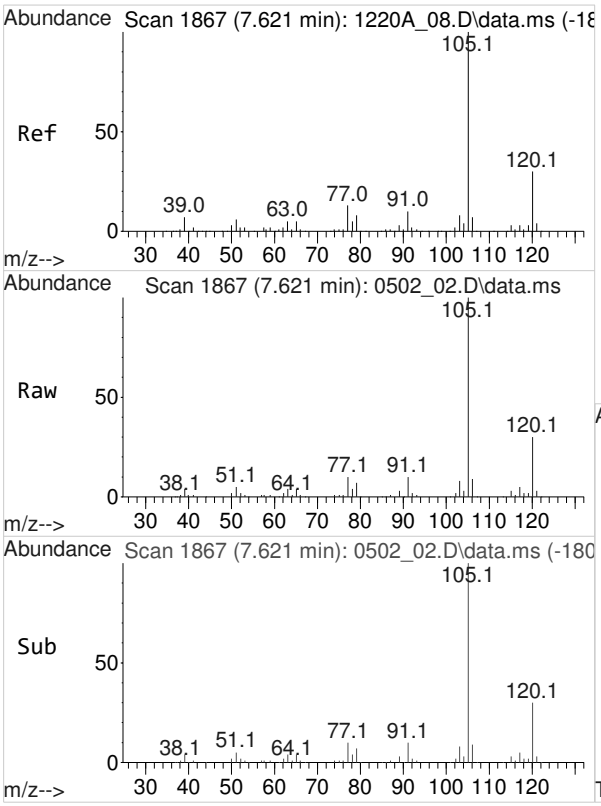


#85
n-Propylbenzene
Concen: 3.9184570 ppbv
RT: 7.540 min Scan# 1841
Delta R.T. 0.001 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 91 Resp: 69810

Ion	Ratio	Lower	Upper
91	100		
120	24.9	19.4	29.0

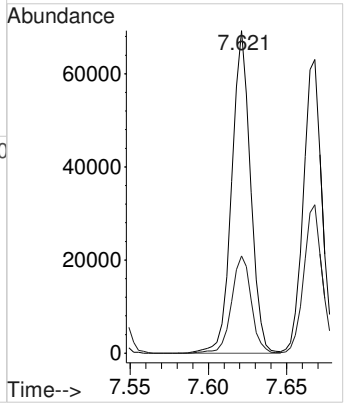


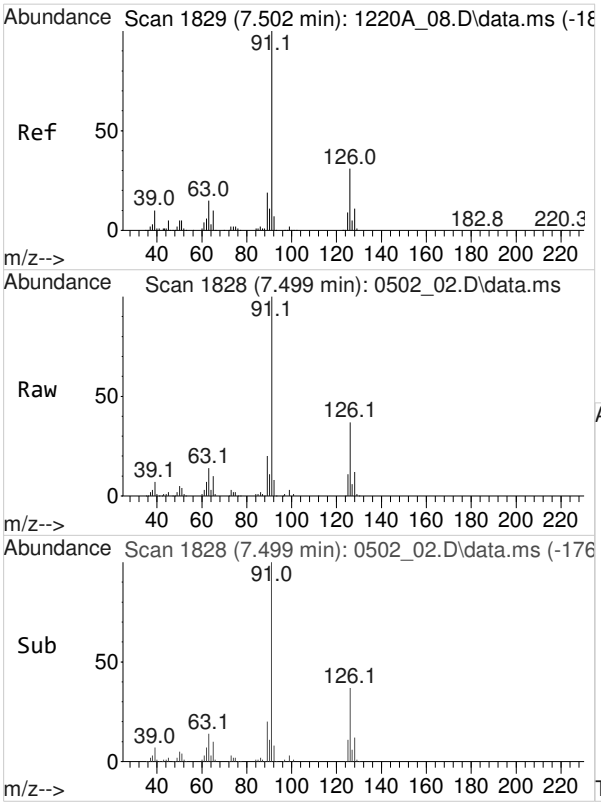


#86
4-Ethyltoluene
Concen: 3.9084920 ppbv
RT: 7.621 min Scan# 1867
Delta R.T. 0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:105 Resp: 57818

Ion	Ratio	Lower	Upper
105	100		
120	31.5	24.4	36.6

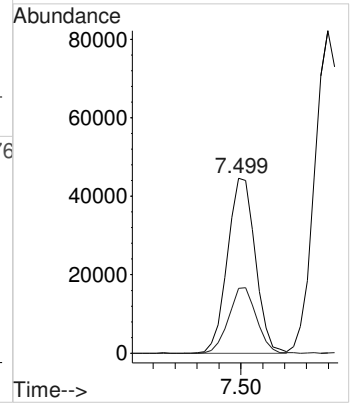


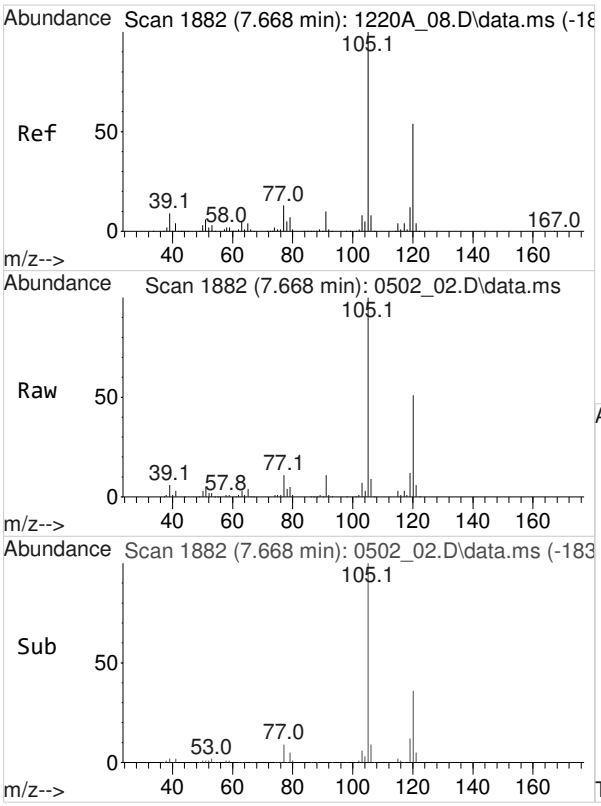


#87
2-Chlorotoluene
Concen: 3.6293879 ppbv
RT: 7.499 min Scan# 1828
Delta R.T. 0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 91 Resp: 39351

Ion	Ratio	Lower	Upper
91	100		
126	37.3	29.7	44.5

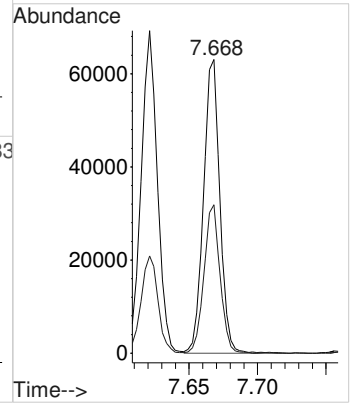


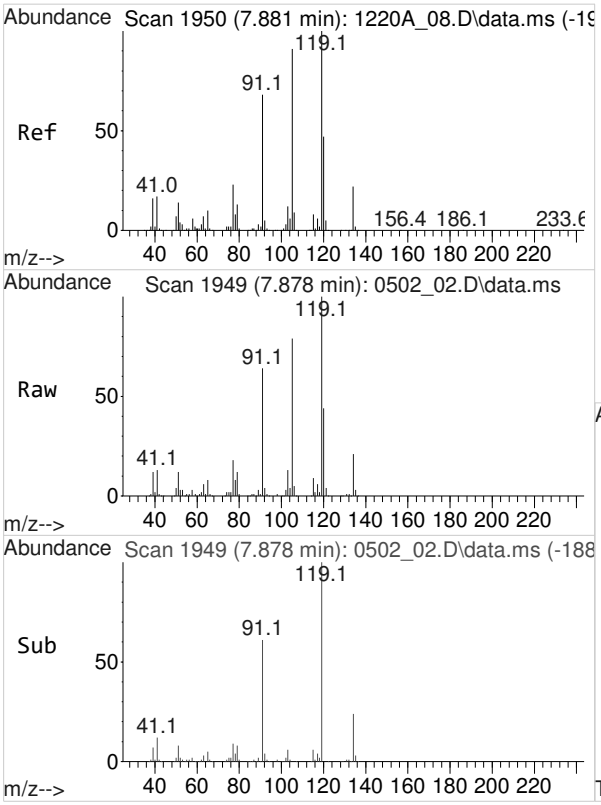


#89
1,3,5-Trimethylbenzene
Concen: 3.8838783 ppbv
RT: 7.668 min Scan# 1882
Delta R.T. 0.003 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:105 Resp: 52082

Ion	Ratio	Lower	Upper
105	100		
120	49.8	39.8	59.8

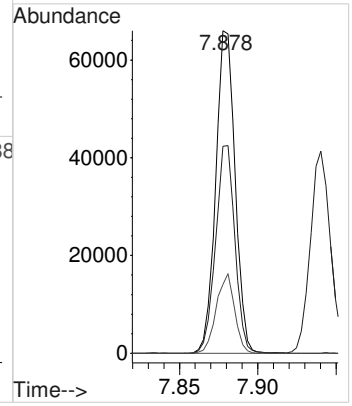


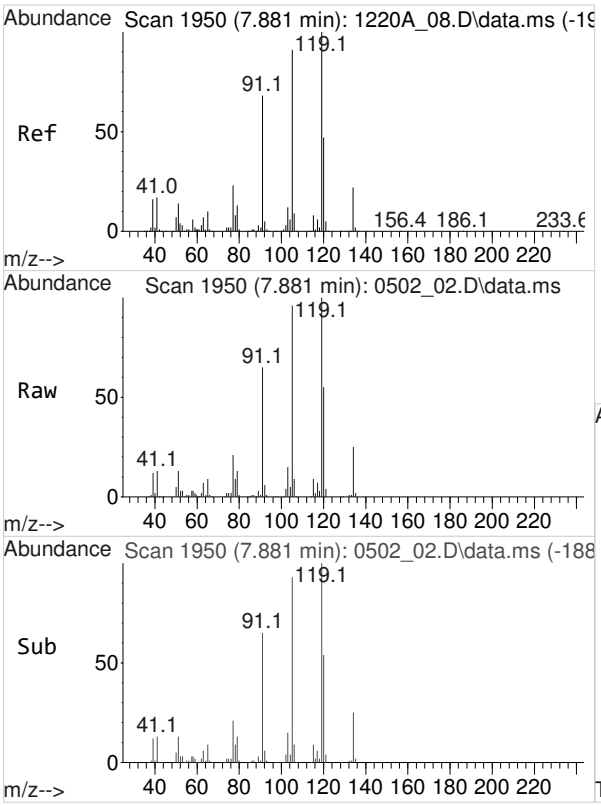


#90
tert-Butylbenzene
Concen: 3.7696193 ppbv
RT: 7.878 min Scan# 1949
Delta R.T. -0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:119 Resp: 56617

Ion	Ratio	Lower	Upper
119	100		
91	64.2	49.7	74.5
134	23.3	18.8	28.2

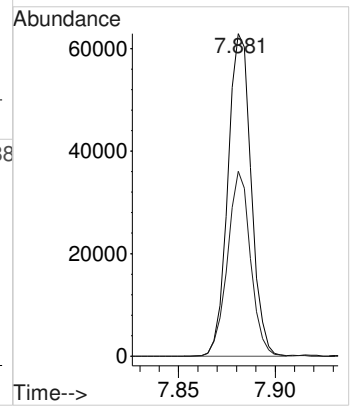


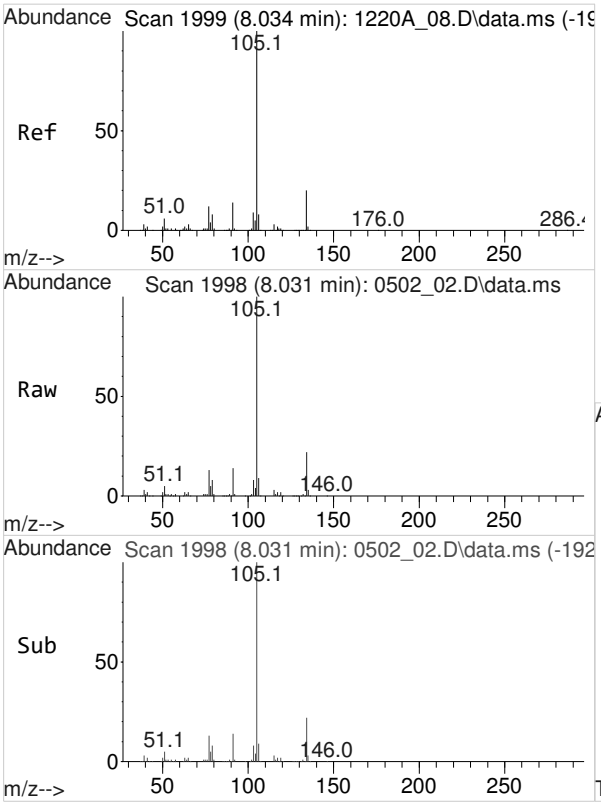


#91
1,2,4-Trimethylbenzene
Concen: 3.8131896 ppbv
RT: 7.881 min Scan# 1950
Delta R.T. -0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:105 Resp: 52245

Ion	Ratio	Lower	Upper
105	100		
120	56.9	45.0	67.4

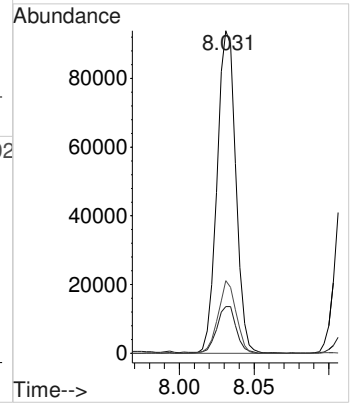


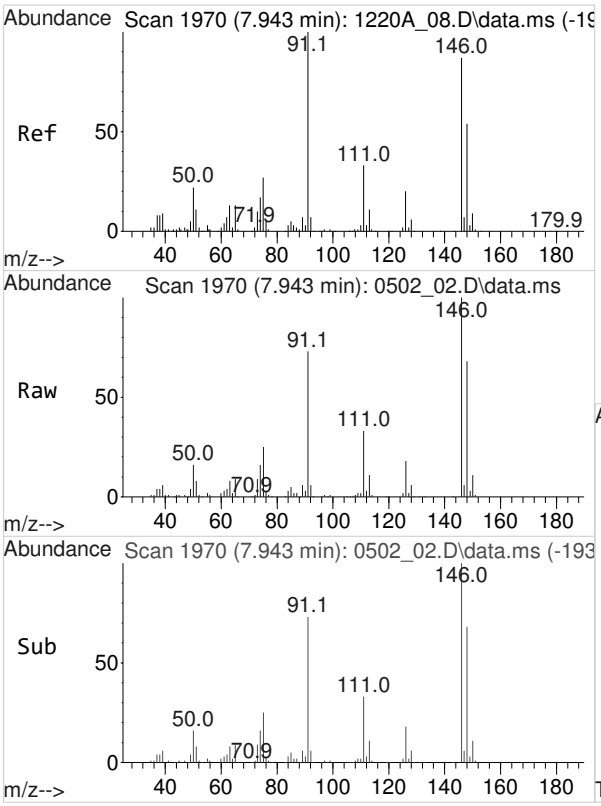


#92
sec-Butylbenzene
Concen: 3.8365237 ppbv
RT: 8.031 min Scan# 1998
Delta R.T. 0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:105 Resp: 81456

Ion	Ratio	Lower	Upper
105	100		
91	14.7	12.1	18.1
134	21.5	16.7	25.1

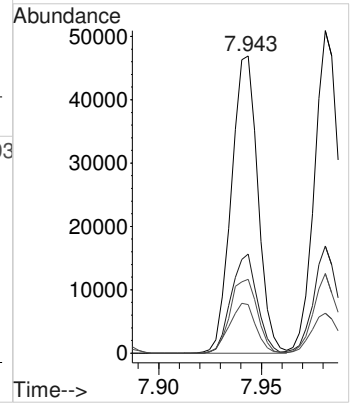


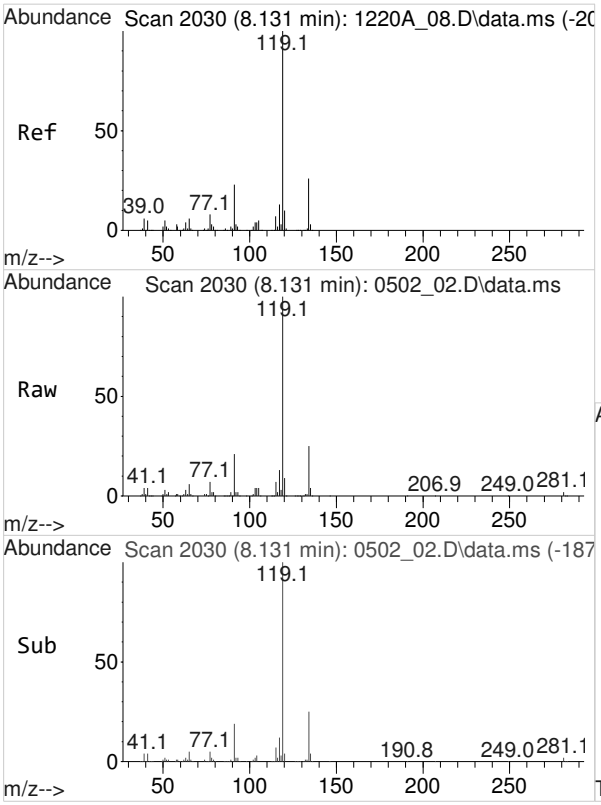


#93
1,3-Dichlorobenzene
Concen: 4.1415935 ppbv
RT: 7.943 min Scan# 1970
Delta R.T. 0.003 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:146 Resp: 41975

Ion	Ratio	Lower	Upper
146	100		
111	32.7	26.7	40.1
75	25.5	18.8	28.2
50	16.9	13.0	19.6

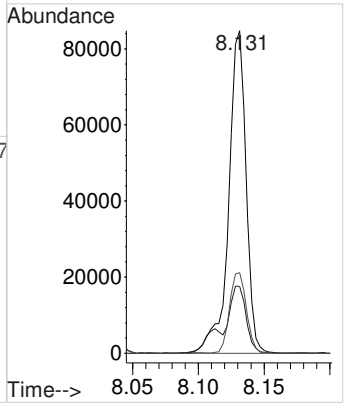


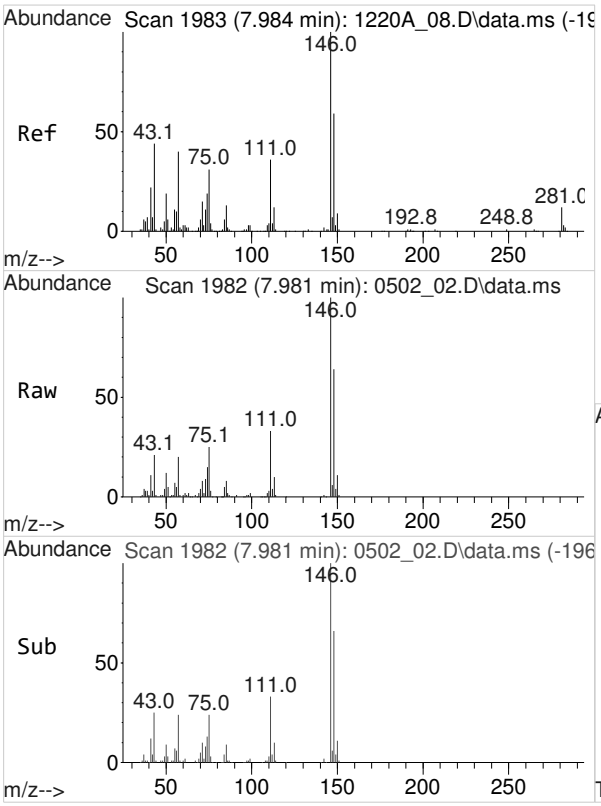


#94
P-ISOPROPYLTOLUENE
Concen: 3.4950538 ppbv
RT: 8.131 min Scan# 2030
Delta R.T. 0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:119 Resp: 78197

Ion	Ratio	Lower	Upper
119	100		
91	19.7	14.9	22.3
134	24.1	19.4	29.2

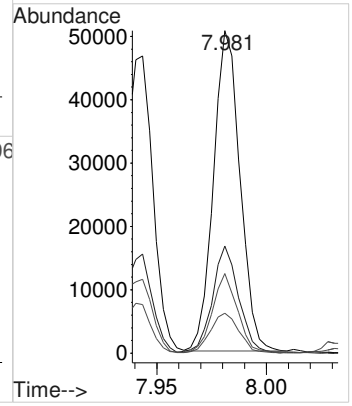


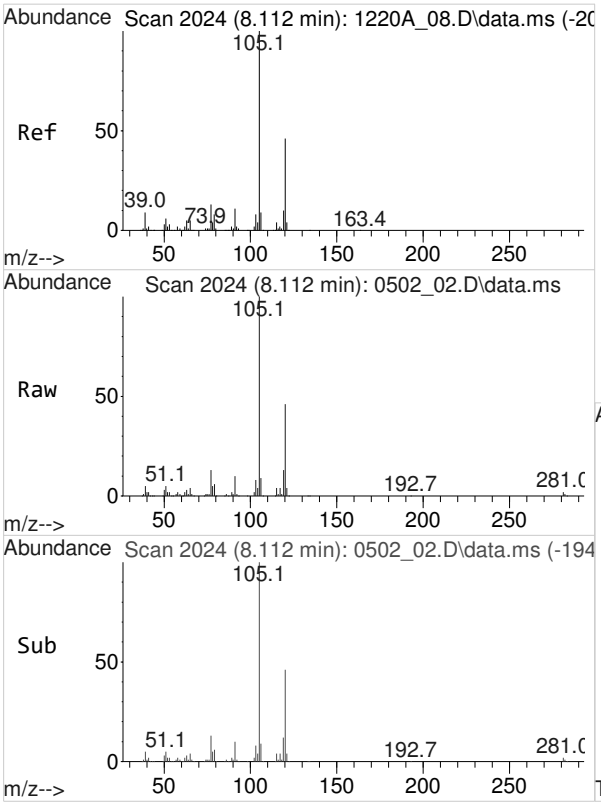


#95
1,4-Dichlorobenzene
Concen: 4.1824112 ppbv
RT: 7.981 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:146 Resp: 42601

Ion	Ratio	Lower	Upper
146	100		
111	33.5	25.0	37.6
75	23.7	19.2	28.8
50	13.3	11.1	16.7

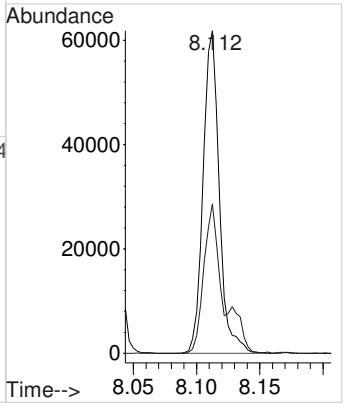


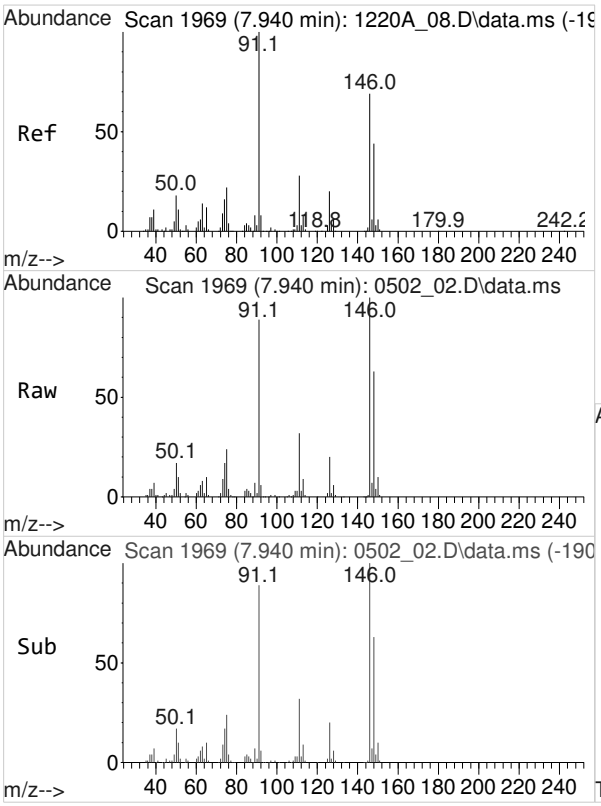


#96
1,2,3-TRIMETHYLBENZENE
Concen: 3.4125708 ppbv
RT: 8.112 min Scan# 2024
Delta R.T. 0.003 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:105 Resp: 55134

Ion	Ratio	Lower	Upper
105	100		
120	45.5	35.3	52.9

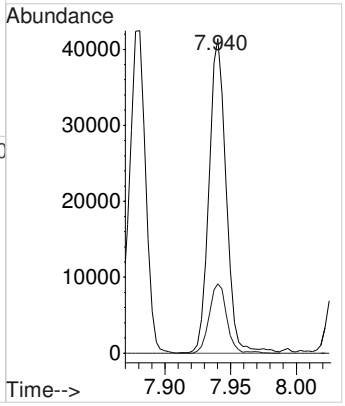


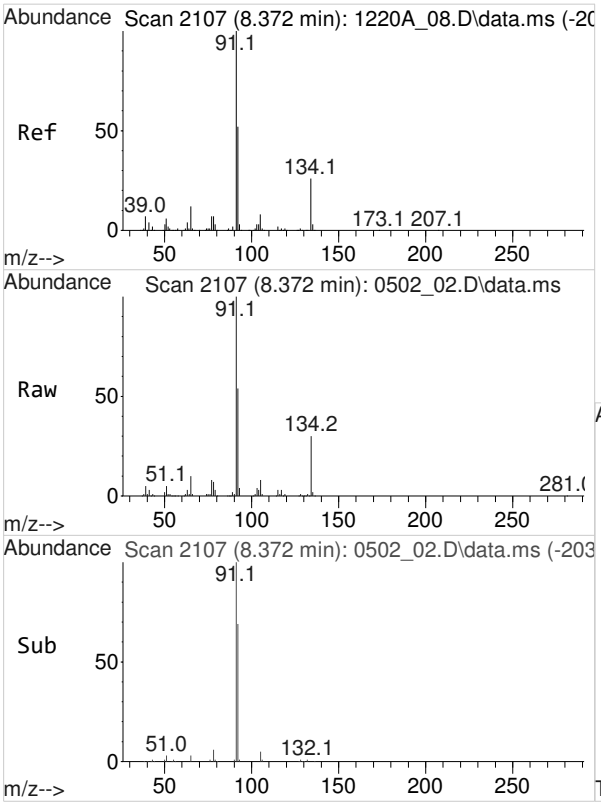


#97
Benzyl Chloride
Concen: 3.9092467 ppbv
RT: 7.940 min Scan# 1969
Delta R.T. 0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 91 Resp: 37686

Ion	Ratio	Lower	Upper
91	100		
126	22.2	16.8	25.2

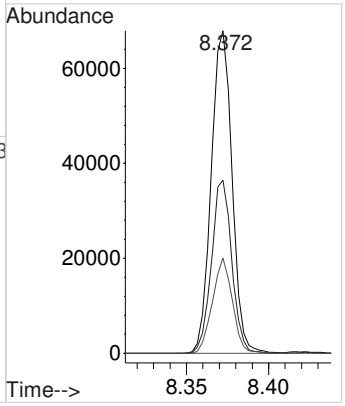


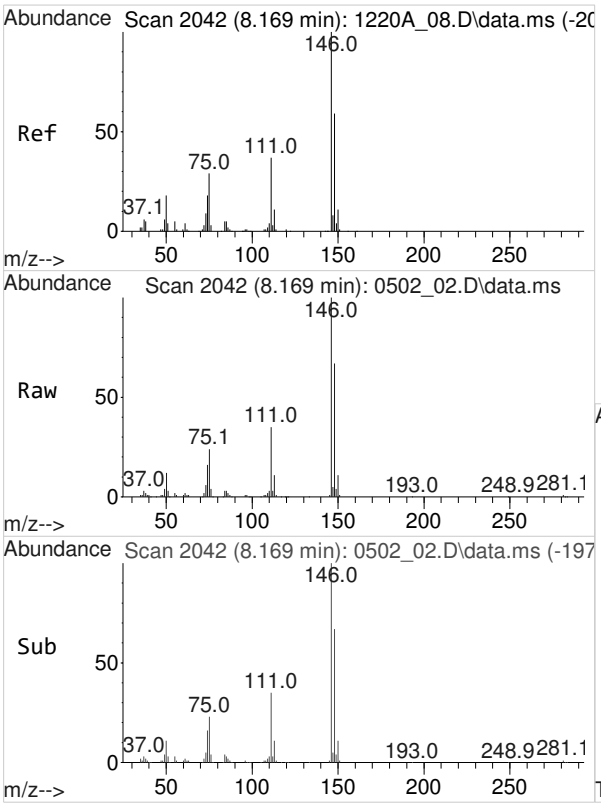


#98
n-Butylbenzene
Concen: 3.4423633 ppbv
RT: 8.372 min Scan# 2107
Delta R.T. 0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion: 91 Resp: 59299

Ion	Ratio	Lower	Upper
91	100		
92	52.4	41.0	61.4
134	28.2	22.7	34.1

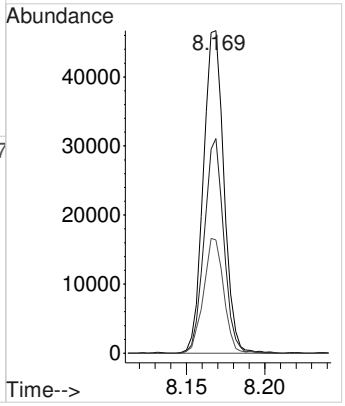


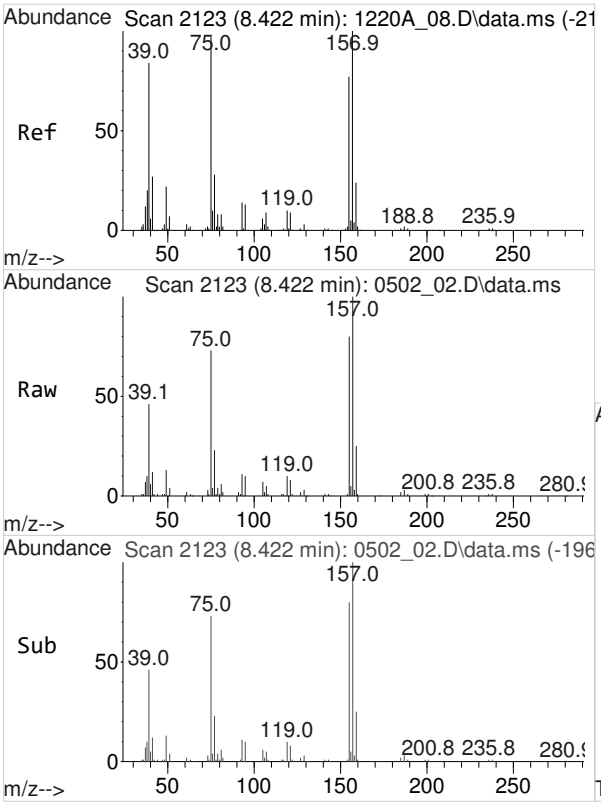


#99
1,2-Dichlorobenzene
Concen: 3.9553225 ppbv
RT: 8.169 min Scan# 2042
Delta R.T. -0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:146 Resp: 42495

Ion	Ratio	Lower	Upper
146	100		
148	63.3	53.1	79.7
111	35.0	27.3	40.9

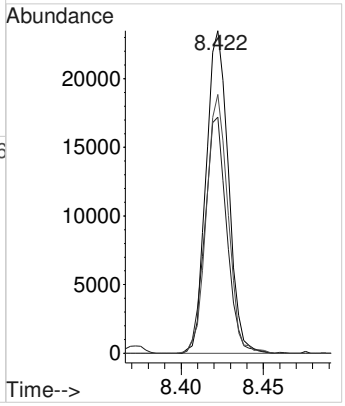


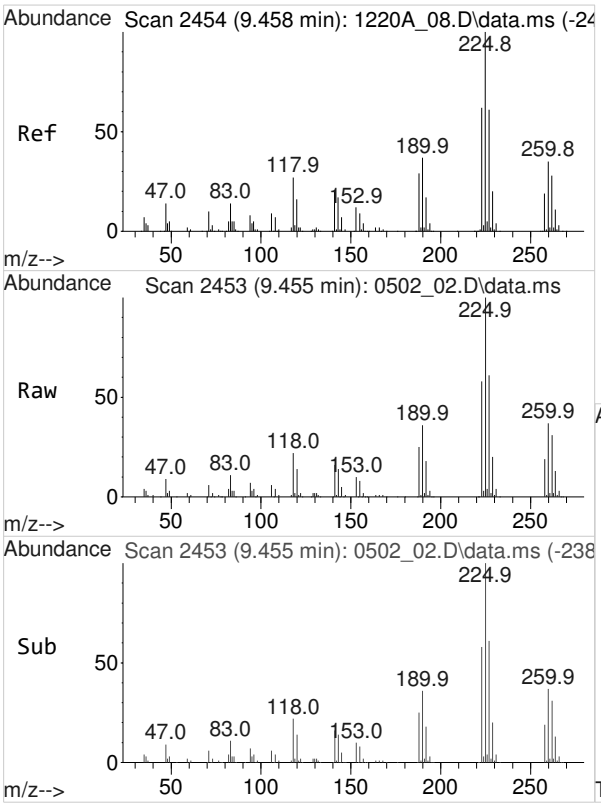


#100
1,2-DIBROMO-3-CHLOROPROPANE
Concen: 3.1651367 ppbv
RT: 8.422 min Scan# 2123
Delta R.T. 0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:157 Resp: 21963

Ion	Ratio	Lower	Upper
157	100		
75	72.0	55.8	83.8
155	78.1	60.1	90.1

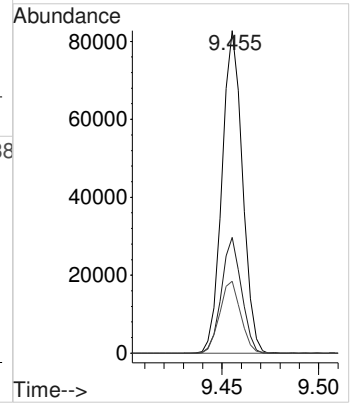




#102
Hexachloro-1,3-Butadiene
Concen: 3.2977087 ppbv
RT: 9.455 min Scan# 2453
Delta R.T. 0.000 min
Lab File: 0502_02.D
Acq: 02 May 2024 08:47 am

Tgt Ion:225 Resp: 60599

Ion	Ratio	Lower	Upper
225	100		
190	35.0	27.5	41.3
118	22.9	17.0	25.6



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4065813-1	**SDG:**	L1731355
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	0503_02	**Received Date/Time:**	
Instrument ID:	AIRMS16	**Preparation Date/Time:**	05/03/24 09:48
Analytical Batch:	WG2279821	**Analysis Date/Time:**	05/03/24 09:48
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
Acetone	67-64-1	5.93	4.11		0.584	1.25
Benzene	71-43-2	8.25	4.39		0.0715	0.200
Benzyl Chloride	100-44-7	14.07	4.28		0.0598	0.200
Bromodichloromethane	75-27-4	9.32	4.35		0.0702	0.200
Bromoform	75-25-2	12.62	4.42		0.0732	0.600
Bromomethane	74-83-9	5.02	4.50		0.0982	0.200
1,3-Butadiene	106-99-0	4.62	4.38		0.104	2.00
Carbon disulfide	75-15-0	6.17	4.36		0.102	0.200
Carbon tetrachloride	56-23-5	8.04	4.32		0.0732	0.200
Chlorobenzene	108-90-7	11.68	4.46		0.0832	0.200
Chloroethane	75-00-3	5.11	4.30		0.0996	0.200
Chloroform	67-66-3	7.71	4.32		0.0717	0.200
Chloromethane	74-87-3	4.45	4.43		0.103	0.200
Cyclohexane	110-82-7	7.93	4.26		0.0753	0.200
Dibromochloromethane	124-48-1	11.01	4.36		0.0727	0.200
1,2-Dibromoethane	106-93-4	11.20	4.45		0.0721	0.200
1,2-Dichlorobenzene	95-50-1	14.32	4.47		0.128	0.200
1,3-Dichlorobenzene	541-73-1	13.88	4.48		0.182	0.200
1,4-Dichlorobenzene	106-46-7	13.96	4.43		0.0557	0.200
1,2-Dichloroethane	107-06-2	8.31	4.26		0.0700	0.200
1,1-Dichloroethane	75-34-3	6.95	4.33		0.0723	0.200
1,1-Dichloroethene	75-35-4	5.88	4.25		0.0762	0.200
cis-1,2-Dichloroethene	156-59-2	7.47	4.31		0.0784	0.200
trans-1,2-Dichloroethene	156-60-5	6.55	4.23		0.0673	0.200
1,2-Dichloropropane	78-87-5	9.10	4.35		0.0760	0.200
cis-1,3-Dichloropropene	10061-01-5	9.76	4.32		0.0689	0.200
trans-1,3-Dichloropropene	10061-02-6	10.33	4.29		0.0728	0.200
Ethanol	64-17-5	5.48	3.75		0.265	2.50
Ethylbenzene	100-41-4	11.70	4.38		0.0835	0.200
4-Ethyltoluene	622-96-8	13.15	4.47		0.0783	0.200
Ethyl acetate	141-78-6	7.38	4.19		0.100	0.630
Trichlorofluoromethane	75-69-4	5.34	4.35		0.0819	0.200
Dichlorodifluoromethane	75-71-8	4.16	4.53		0.137	0.200
1,1,2-Trichlorotrifluoroethane	76-13-1	5.79	4.35		0.0793	0.200
1,2-Dichlorotetrafluoroethane	76-14-2	4.33	4.48		0.0891	0.200
Heptane	142-82-5	8.26	4.25		0.104	0.200
Hexachloro-1,3-butadiene	87-68-3	15.96	4.43		0.105	0.630
n-Hexane	110-54-3	6.66	4.23		0.206	0.630
Isopropylbenzene	98-82-8	12.66	4.44		0.0777	0.200
Methylene Chloride	75-09-2	6.34	4.21		0.0979	0.200
Methyl Butyl Ketone	591-78-6	10.71	4.14		0.133	1.25
2-Butanone (MEK)	78-93-3	7.43	4.28		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	108-10-1	9.84	4.29		0.0765	1.25

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R4065813-1

Lab Sample ID:	R4065813-1	**SDG:**	L1731355
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	0503_02	**Received Date/Time:**	
Instrument ID:	AIRMS16	**Preparation Date/Time:**	05/03/24 09:48
Analytical Batch:	WG2279821	**Analysis Date/Time:**	05/03/24 09:48
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
Methyl methacrylate	80-62-6	9.02	4.23		0.0876	0.200
MTBE	1634-04-4	6.48	4.30		0.0647	0.200
Naphthalene	91-20-3	16.21	4.21		0.350	0.630
2-Propanol	67-63-0	5.96	4.32		0.264	1.25
Propene	115-07-1	4.11	4.12		0.0932	1.25
Styrene	100-42-5	12.32	4.35		0.0788	0.200
1,1,2,2-Tetrachloroethane	79-34-5	13	4.44		0.0743	0.200
Tetrachloroethylene	127-18-4	10.67	4.47		0.0814	0.200
Tetrahydrofuran	109-99-9	7.71	4.26		0.0734	0.200
Toluene	108-88-3	10.09	4.37		0.0870	0.500
1,2,4-Trichlorobenzene	120-82-1	15.88	4.12		0.148	0.630
1,1,1-Trichloroethane	71-55-6	7.91	4.28		0.0736	0.200
1,1,2-Trichloroethane	79-00-5	10.55	4.42		0.0775	0.200
Trichloroethylene	79-01-6	8.82	4.37		0.0680	0.200
1,2,4-Trimethylbenzene	95-63-6	13.55	4.42		0.0764	0.200
1,3,5-Trimethylbenzene	108-67-8	13.20	4.50		0.0779	0.200
2,2,4-Trimethylpentane	540-84-1	8.15	4.30		0.133	0.200
Vinyl chloride	75-01-4	4.59	4.63		0.0949	0.200
Vinyl Bromide	593-60-2	5.32	4.36		0.0852	0.200
Vinyl acetate	108-05-4	6.88	4.05		0.116	0.630
Xylenes, Total	1330-20-7	12.30	13.1		0.200	0.600
m&p-Xylene	179601-23-1	11.82	8.79		0.135	0.400
o-Xylene	95-47-6	12.30	4.35		0.0828	0.200

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_02.D
Acq On : 3 May 2024 9:48 am
Operator :
Sample : LCS 1x WG2279821
Misc : 24D22236
ALS Vial : 2 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 03 10:19:36 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.708	130	219726	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	8.541	114	925173	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	11.642	117	835018	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	12.895	95	573453	3.8530766	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 96.33%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	29863555m	191.0371767	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	35855167m	276.1179160	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	60646474m	374.0468361	ppbv	
5) Propene	4.113	41	67081	4.1220913	ppbv	99
6) BUTANE	4.555	43	110435	4.3038207	ppbv	99
7) 1,1-DIFLUOROETHANE	4.119	65	45640	4.4253691	ppbv	98
8) Dichlorodifluoromethane	4.164	85	173061	4.5273591	ppbv	99
9) CHLORODIFLUOROMETHANE	4.181	67	16668	4.1059733	ppbv	98
10) 1,2-Dichlorotetrafluor...	4.329	85	187162	4.4836689	ppbv	99
11) Chloromethane	4.453	50	69984	4.4344574	ppbv	100
12) Vinyl Chloride	4.589	62	70154	4.6256959	ppbv	99
13) 1,3-Butadiene	4.618	39	55913	4.3789924	ppbv	100
14) Bromomethane	5.020	94	60396	4.5039798	ppbv	99
15) Chloroethane	5.111	64	35059	4.2991412	ppbv	99
16) ISOPENTANE	5.122	43	81413	4.4784837	ppbv	99
17) Vinyl Bromide	5.315	106	63395	4.3546400	ppbv	99
18) Trichlorofluoromethane	5.338	101	161807	4.3449859	ppbv	100
19) PENTANE	5.377	43	147158	4.2301223	ppbv	99
20) Ethanol	5.479	45	32012	3.7490705	ppbv	99
21) ACROLEIN	5.808	56	34040	3.8727912	ppbv	97
22) 1,1,2-Trichlorotrifluo...	5.786	101	145106	4.3505514	ppbv	99
23) 1,1-Dichloroethene	5.876	61	119218	4.2502373	ppbv	97
24) Acetone	5.927	58	40712	4.1082750	ppbv	97
25) BROMOETHANE	6.075	108	60594	4.3699861	ppbv	99
26) 2-Propanol	5.956	45	172543	4.3220485	ppbv	99
27) Carbon Disulfide	6.171	76	252399	4.3550861	ppbv	99
28) Allyl Chloride	6.205	41	105176	3.9159788	ppbv	86
29) METHYL ACETATE	6.165	43	163210	4.2177127	ppbv #	99
30) ACETONITRILE	6.251	41	403903	21.9248277	ppbv	99
31) Methylene Chloride	6.336	49	93026	4.2081305	ppbv	98
32) TERT-BUTYL ALCOHOL	6.319	59	189041	4.3195226	ppbv	99
33) Methyl Tert-Butyl Ether	6.483	73	227848	4.3019532	ppbv	99
34) Trans-1,2-Dichloroethene	6.545	61	112422	4.2328412	ppbv	97
35) ACRYLONITRILE	6.585	53	68578	4.2644164	ppbv	98
36) n-Hexane	6.664	57	135521	4.2337521	ppbv	100
37) 1,1-Dichloroethane	6.954	63	144542	4.3263869	ppbv	99
38) Vinyl Acetate	6.880	43	242930	4.0541427	ppbv	100
39) DI-ISOPROPYL ETHER	6.829	45	304319	4.3478509	ppbv	98
40) ETHYL TERT-BUTYL ETHER	7.152	59	273102	4.3379613	ppbv	99
41) ETHYL ACETATE	7.385	70	21337	4.1906573	ppbv	99

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_02.D
Acq On : 3 May 2024 9:48 am
Operator :
Sample : LCS 1x WG2279821
Misc : 24D22236
ALS Vial : 2 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 03 10:19:36 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone (MEK)	7.430	72	42733	4.2792971	ppbv	98
43) cis-1,2-Dichloroethene	7.470	61	109950	4.3089643	ppbv	99
44) Tetrahydrofuran	7.713	42	107268	4.2585188	ppbv	98
45) Chloroform	7.708	83	159842	4.3178109	ppbv	100
46) Cyclohexane	7.929	84	107597	4.2604129	ppbv	98
47) 1,1,1-Trichloroethane	7.912	97	144479	4.2836302	ppbv	100
48) Carbon Tetrachloride	8.042	117	146422	4.3166802	ppbv	99
49) 2,2,4-Trimethylpentane	8.150	57	445439	4.2963343	ppbv	100
51) Benzene	8.252	78	267105	4.3853350	ppbv	99
52) TERT-AMYL METHYL ETHER	8.218	73	252011	4.3366443	ppbv	100
53) 1,2-Dichloroethane	8.309	62	104164	4.2563626	ppbv	99
54) Heptane	8.263	57	90113	4.2544135	ppbv	99
55) Trichloroethene	8.825	95	110622	4.3656559	ppbv	99
56) TERT-AMYL ETHYL ETHER	8.881	73	79562	4.2201065	ppbv	99
57) METHYL CYCLOHEXANE	8.978	83	153331	4.3295144	ppbv	99
58) 1,2-Dichloropropane	9.102	63	103870	4.3462942	ppbv	99
59) Methyl Methacrylate	9.023	69	96027	4.2302728	ppbv	100
60) 1,4-Dioxane	9.170	88	59455	4.2278086	ppbv	98
61) Bromodichloromethane	9.324	83	160839	4.3531895	ppbv	100
62) cis-1,3-Dichloropropene	9.760	75	157250	4.3165311	ppbv	99
63) 4-Methyl-2-Pentanone (...	9.839	43	226519	4.2883125	ppbv	100
64) n-OCTANE	9.970	43	245030	4.3106071	ppbv	100
65) Toluene	10.095	91	334209	4.3705642	ppbv	100
66) trans-1,3-Dichloropropene	10.333	75	123260	4.2885373	ppbv	99
67) 1,1,2-Trichloroethane	10.554	97	98351	4.4215763	ppbv	99
68) Tetrachloroethene	10.673	166	143873	4.4661358	ppbv	99
69) Methyl Butyl Ketone	10.713	43	207927	4.1442469	ppbv	100
70) Chlorodibromomethane	11.007	129	155552	4.3577995	ppbv	100
71) 1,2-Dibromoethane	11.200	107	149816	4.4459411	ppbv	100
72) Chlorobenzene	11.676	112	245446	4.4638384	ppbv	98
73) NONANE	11.620	43	256699	4.3244948	ppbv	100
75) Ethylbenzene	11.699	91	424640	4.3762050	ppbv	100
76) M&P-Xylene	11.824	91	655222	8.7921816	ppbv	100
77) O-Xylene	12.300	91	333019	4.3480422	ppbv	99
80) Styrene	12.317	104	243911	4.3522082	ppbv	99
81) Bromoform	12.623	173	155138	4.4160604	ppbv	99
82) Isopropylbenzene	12.657	105	453652	4.4363275	ppbv	100
83) n-DECANE	13.043	43	250796	4.5642271	ppbv	100
84) 1,1,2,2-Tetrachloroethane	13.003	83	224960	4.4373247	ppbv	99
85) n-Propylbenzene	13.054	91	533345	4.5775182	ppbv	100
86) 4-Ethyltoluene	13.151	105	433870	4.4712726	ppbv	100
87) 2-Chlorotoluene	13.213	91	348824	4.4835651	ppbv	99
89) 1,3,5-Trimethylbenzene	13.196	105	358259	4.5011306	ppbv	100
90) tert-Butylbenzene	13.502	119	338644	4.4314543	ppbv	100
91) 1,2,4-Trimethylbenzene	13.553	105	362709	4.4241545	ppbv	98
92) sec-Butylbenzene	13.689	105	531104	4.5081116	ppbv	100
93) 1,3-Dichlorobenzene	13.882	146	235527	4.4771028	ppbv	99
94) P-ISOPROPYLTOLUENE	13.791	119	439822	4.4618553	ppbv	99
95) 1,4-Dichlorobenzene	13.961	146	232583	4.4259359	ppbv	98
96) 1,2,3-TRIMETHYLBENZENE	13.944	105	369929	4.4874160	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_02.D
Acq On : 3 May 2024 9:48 am
Operator :
Sample : LCS 1x WG2279821
Misc : 24D22236
ALS Vial : 2 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 03 10:19:36 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

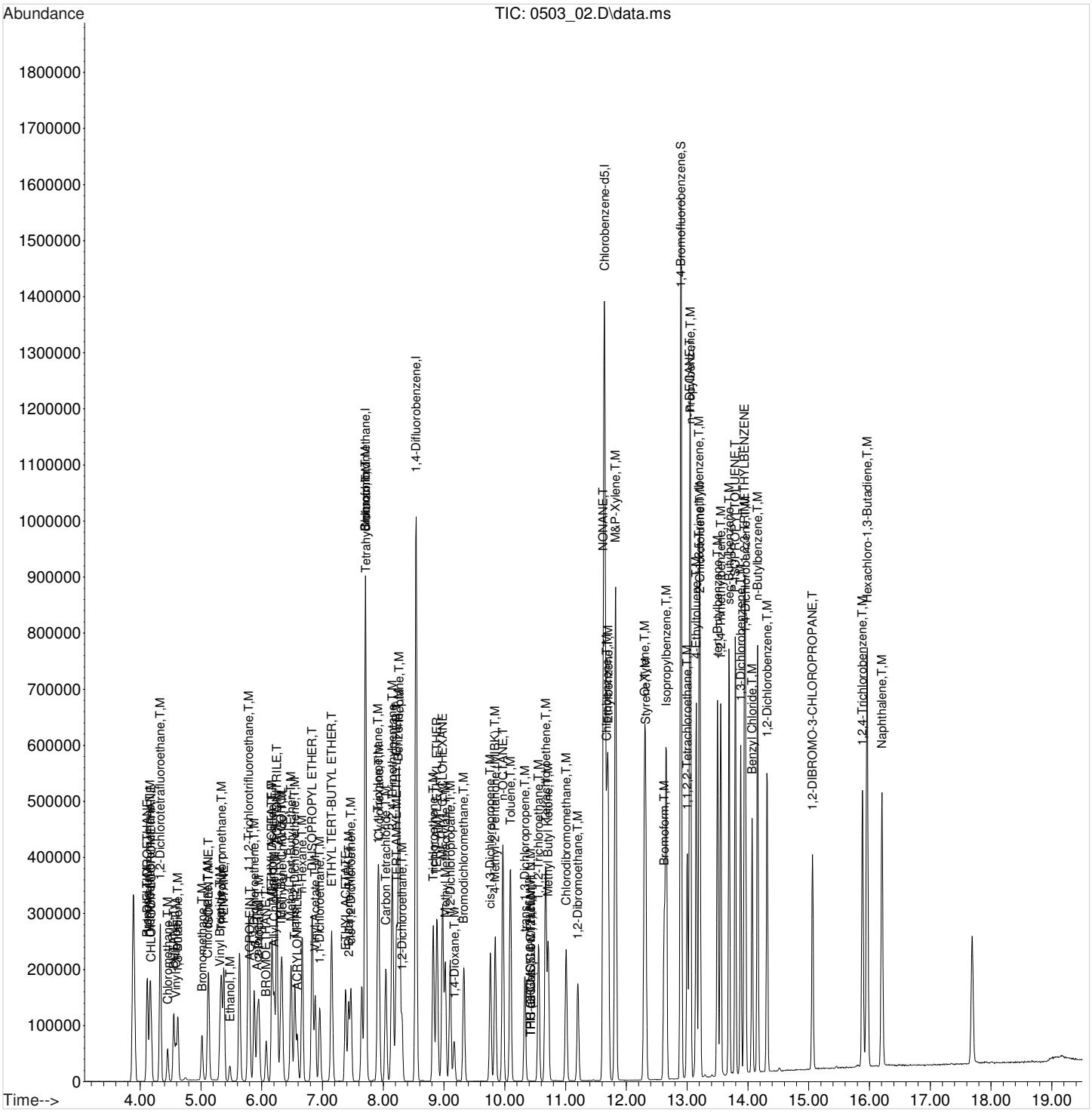
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	Benzyl Chloride	14.069	91	316900	4.2799473	ppbv	100
98)	n-Butylbenzene	14.160	91	434362	4.4643028	ppbv	100
99)	1,2-Dichlorobenzene	14.319	146	231938	4.4693882	ppbv	99
100)	1,2-DIBROMO-3-CHLOROPR...	15.061	157	117631	4.1511798	ppbv	97
101)	1,2,4-Trichlorobenzene	15.883	180	195369	4.1202183	ppbv	99
102)	Hexachloro-1,3-Butadiene	15.963	225	199212	4.4336058	ppbv	100
103)	Naphthalene	16.207	128	481169	4.2135501	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_02.D
Acq On : 3 May 2024 9:48 am
Operator :
Sample : LCS 1x WG2279821
Misc : 24D22236
ALS Vial : 2 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 03 10:19:36 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4064812-2	**SDG:**	L1731355
Client Sample ID:	LCSD	**Collected Date/Time:**	
Lab File ID:	0501_03	**Received Date/Time:**	
Instrument ID:	AIRMS13	**Preparation Date/Time:**	05/01/24 09:44
Analytical Batch:	WG2278229	**Analysis Date/Time:**	05/01/24 09:44
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
Acetone	67-64-1	7.15	3.81		0.584	1.25
Benzene	71-43-2	10.07	3.64		0.0715	0.200
Benzyl Chloride	100-44-7	16.02	3.76		0.0598	0.200
Bromodichloromethane	75-27-4	11.30	3.66		0.0702	0.200
Bromoform	75-25-2	14.46	3.48		0.0732	0.600
Bromomethane	74-83-9	5.68	3.47		0.0982	0.200
1,3-Butadiene	106-99-0	5.07	3.84		0.104	2.00
Carbon disulfide	75-15-0	7.34	3.52		0.102	0.200
Carbon tetrachloride	56-23-5	9.82	3.58		0.0732	0.200
Chlorobenzene	108-90-7	13.62	3.48		0.0832	0.200
Chloroethane	75-00-3	5.85	3.53		0.0996	0.200
Chloroform	67-66-3	9.46	3.62		0.0717	0.200
Chloromethane	74-87-3	4.79	3.66		0.103	0.200
Cyclohexane	110-82-7	9.67	3.94		0.0753	0.200
Dibromochloromethane	124-48-1	13.04	3.49		0.0727	0.200
1,2-Dibromoethane	106-93-4	13.20	3.59		0.0721	0.200
1,2-Dichlorobenzene	95-50-1	16.28	3.63		0.128	0.200
1,3-Dichlorobenzene	541-73-1	15.82	3.55		0.182	0.200
1,4-Dichlorobenzene	106-46-7	15.91	3.67		0.0557	0.200
1,2-Dichloroethane	107-06-2	10.15	3.48		0.0700	0.200
1,1-Dichloroethane	75-34-3	8.50	3.71		0.0723	0.200
1,1-Dichloroethene	75-35-4	7	3.52		0.0762	0.200
cis-1,2-Dichloroethene	156-59-2	9.15	3.80		0.0784	0.200
trans-1,2-Dichloroethene	156-60-5	7.96	3.75		0.0673	0.200
1,2-Dichloropropane	78-87-5	11.04	3.65		0.0760	0.200
cis-1,3-Dichloropropene	10061-01-5	11.79	3.92		0.0689	0.200
trans-1,3-Dichloropropene	10061-02-6	12.40	3.61		0.0728	0.200
Ethanol	64-17-5	6.57	3.53		0.265	2.50
Ethylbenzene	100-41-4	13.65	3.74		0.0835	0.200
4-Ethyltoluene	622-96-8	15.02	3.86		0.0783	0.200
Ethyl acetate	141-78-6	9.12	3.67		0.100	0.630
Trichlorofluoromethane	75-69-4	6.21	3.54		0.0819	0.200
Dichlorodifluoromethane	75-71-8	4.33	3.83		0.137	0.200
1,1,2-Trichlorotrifluoroethane	76-13-1	6.92	3.40		0.0793	0.200
1,2-Dichlorotetrafluoroethane	76-14-2	4.62	3.61		0.0891	0.200
Heptane	142-82-5	10.13	3.78		0.104	0.200
Hexachloro-1,3-butadiene	87-68-3	17.99	3.56		0.105	0.630
Isopropylbenzene	98-82-8	14.50	3.82		0.0777	0.200
Methylene Chloride	75-09-2	7.68	3.63		0.0979	0.200
Methyl Butyl Ketone	591-78-6	12.80	3.72		0.133	1.25
2-Butanone (MEK)	78-93-3	9.15	3.80		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	108-10-1	11.90	4.01		0.0765	1.25
Methyl methacrylate	80-62-6	11.01	3.75		0.0876	0.200

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4064812-2	**SDG:**	L1731355
Client Sample ID:	LCSD	**Collected Date/Time:**	
Lab File ID:	0501_03	**Received Date/Time:**	
Instrument ID:	AIRMS13	**Preparation Date/Time:**	05/01/24 09:44
Analytical Batch:	WG2278229	**Analysis Date/Time:**	05/01/24 09:44
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
MTBE	1634-04-4	7.92	3.82		0.0647	0.200
Naphthalene	91-20-3	18.23	3.91		0.350	0.630
2-Propanol	67-63-0	7.28	3.76		0.264	1.25
Propene	115-07-1	4.25	3.86		0.0932	1.25
Styrene	100-42-5	14.19	3.74		0.0788	0.200
1,1,2,2-Tetrachloroethane	79-34-5	14.86	3.64		0.0743	0.200
Tetrahydrofuran	109-99-9	9.45	3.81		0.0734	0.200
1,2,4-Trichlorobenzene	120-82-1	17.91	3.75		0.148	0.630
1,1,1-Trichloroethane	71-55-6	9.66	3.59		0.0736	0.200
1,1,2-Trichloroethane	79-00-5	12.63	3.47		0.0775	0.200
Trichloroethylene	79-01-6	10.74	3.70		0.0680	0.200
1,2,4-Trimethylbenzene	95-63-6	15.46	3.95		0.0764	0.200
1,3,5-Trimethylbenzene	108-67-8	15.08	3.88		0.0779	0.200
2,2,4-Trimethylpentane	540-84-1	9.98	3.91		0.133	0.200
Vinyl chloride	75-01-4	5.01	3.62		0.0949	0.200
Vinyl Bromide	593-60-2	6.16	3.66		0.0852	0.200
Vinyl acetate	108-05-4	8.47	4.03		0.116	0.630
Xylenes, Total	1330-20-7	14.17	11.6		0.200	0.600
m&p-Xylene	179601-23-1	13.76	7.80		0.135	0.400
o-Xylene	95-47-6	14.17	3.81		0.0828	0.200

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_03.D
Acq On : 1 May 2024 9:44 am
Operator :
Sample : LCSD 1x WG2278229
Misc : 24D29341
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 10:32:51 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	9.433	130	138502	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	10.439	114	539815	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	13.591	117	421073	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	14.743	95	332696	3.8900624	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 97.25%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	15583508m	165.6408263	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	19611064m	246.4629494	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	29867480m	345.9699158	ppbv	
5) Propene	4.251	41	40027	3.8567843	ppbv	96
6) BUTANE	4.958	43	78804	3.4682804	ppbv	100
7) 1,1-DIFLUOROETHANE	4.270	65	26137	3.6641213	ppbv	99
8) Dichlorodifluoromethane	4.331	85	100943	3.8255286	ppbv	99
9) CHLORODIFLUOROMETHANE	4.385	67	11073	3.7634315	ppbv	88
10) 1,2-Dichlorotetrafluor...	4.623	85	102578	3.6082686	ppbv	99
11) Chloromethane	4.788	50	45746	3.6601624	ppbv	99
12) Vinyl Chloride	5.007	62	47872	3.6219320	ppbv	99
13) 1,3-Butadiene	5.074	54	36705	3.8404254	ppbv	99
14) Bromomethane	5.684	94	38865	3.4646660	ppbv	99
15) Chloroethane	5.855	64	21939	3.5306507	ppbv	99
16) ISOPENTANE	5.885	43	58545	3.6028953	ppbv	96
17) Vinyl Bromide	6.159	106	36183	3.6637312	ppbv	99
18) Trichlorofluoromethane	6.208	101	107793	3.5393733	ppbv	100
19) PENTANE	6.287	43	86999	3.6389697	ppbv	99
20) Ethanol	6.574	45	20766	3.5272479	ppbv	97
21) ACROLEIN	6.946	56	20198	3.4970604	ppbv	99
22) 1,1,2-Trichlorotrifluo...	6.915	101	79534	3.3947626	ppbv	99
23) 1,1-Dichloroethene	7.001	61	73140	3.5148171	ppbv	100
24) Acetone	7.147	58	22545	3.8066111	ppbv	95
25) BROMOETHANE	7.275	108	28285	3.5165931	ppbv	99
26) 2-Propanol	7.275	45	94795	3.7626532	ppbv #	90
27) Carbon Disulfide	7.342	76	124443	3.5206005	ppbv	99
28) Allyl Chloride	7.495	76	17973	3.7442541	ppbv	99
29) METHYL ACETATE	7.507	43	103050	3.6250064	ppbv #	100
30) ACETONITRILE	7.592	41	254211	18.0332469	ppbv	99
31) Methylene Chloride	7.684	49	64299	3.6280469	ppbv	99
32) TERT-BUTYL ALCOHOL	7.775	59	96331	3.8199998	ppbv	93
33) Methyl Tert-Butyl Ether	7.921	73	106452	3.8236440	ppbv	100
34) Trans-1,2-Dichloroethene	7.958	61	67273	3.7536625	ppbv	99
35) ACRYLONITRILE	8.049	53	39951	3.7041538	ppbv	97
36) n-Hexane	8.147	57	66433	3.8676453	ppbv	93
37) 1,1-Dichloroethane	8.500	63	85634	3.7110257	ppbv	98
38) Vinyl Acetate	8.470	43	134652	4.0246750	ppbv	99
39) DI-ISOPROPYL ETHER	8.415	45	162755	3.8508397	ppbv	92
40) ETHYL TERT-BUTYL ETHER	8.818	59	129009	3.8064534	ppbv	98
41) ETHYL ACETATE	9.116	70	11026	3.6698832	ppbv	94

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_03.D
Acq On : 1 May 2024 9:44 am
Operator :
Sample : LCSD 1x WG2278229
Misc : 24D29341
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 10:32:51 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone (MEK)	9.147	72	20122	3.7974510	ppbv	100
43) cis-1,2-Dichloroethene	9.147	61	80295	3.8000472	ppbv	98
44) Tetrahydrofuran	9.452	42	60621	3.8061702	ppbv	98
45) Chloroform	9.458	83	95131	3.6198223	ppbv	98
46) Cyclohexane	9.671	84	46547	3.9365414	ppbv	97
47) 1,1,1-Trichloroethane	9.665	97	81856	3.5845953	ppbv	99
48) Carbon Tetrachloride	9.817	117	82501	3.5806191	ppbv	99
49) 2,2,4-Trimethylpentane	9.976	57	215242	3.9125438	ppbv	96
51) Benzene	10.073	78	131236	3.6383478	ppbv	98
52) TERT-AMYL METHYL ETHER	10.079	73	112453	3.7247980	ppbv	97
53) 1,2-Dichloroethane	10.147	62	67312	3.4841398	ppbv	98
54) Heptane	10.134	71	41622	3.7810633	ppbv	97
55) Trichloroethene	10.738	95	54245	3.6954815	ppbv	97
56) TERT-AMYL ETHYL ETHER	10.848	73	35549	3.8598221	ppbv	92
57) METHYL CYCLOHEXANE	10.896	83	67704	3.8710594	ppbv	92
58) 1,2-Dichloropropane	11.043	63	56926	3.6497734	ppbv	98
59) Methyl Methacrylate	11.006	69	42750	3.7515301	ppbv	99
60) 1,4-Dioxane	11.140	88	24697	3.8564063	ppbv	98
61) Bromodichloromethane	11.305	83	94226	3.6554551	ppbv	99
62) cis-1,3-Dichloropropene	11.786	75	78369	3.9174411	ppbv	98
63) 4-Methyl-2-Pentanone (...	11.896	43	136776	4.0143040	ppbv	97
64) n-OCTANE	12.030	43	131103	3.9903776	ppbv	99
65) Toluene	12.134	91	143767	3.7227959	ppbv	100
66) trans-1,3-Dichloropropene	12.402	75	58566	3.6080146	ppbv	96
67) 1,1,2-Trichloroethane	12.628	97	43937	3.4672450	ppbv	97
68) Tetrachloroethene	12.725	166	50725	3.6047304	ppbv	99
69) Methyl Butyl Ketone	12.798	43	106415	3.7239714	ppbv	98
70) Chlorodibromomethane	13.042	129	71869	3.4934214	ppbv	100
71) 1,2-Dibromoethane	13.201	107	63603	3.5874025	ppbv	100
72) Chlorobenzene	13.621	112	93238	3.4832587	ppbv	98
73) NONANE	13.597	43	111410	3.6310045	ppbv	99
75) Ethylbenzene	13.652	91	157314	3.7425721	ppbv	99
76) M&P-Xylene	13.756	91	246236	7.8009249	ppbv	100
77) O-Xylene	14.170	91	114567	3.8116728	ppbv	98
80) Styrene	14.188	104	80864	3.7345739	ppbv	98
81) Bromoform	14.457	173	62001	3.4822575	ppbv	100
82) Isopropylbenzene	14.499	105	147590	3.8234001	ppbv	99
83) n-DECANE	14.914	43	118659	3.9134097	ppbv	99
84) 1,1,2,2-Tetrachloroethane	14.859	83	105446	3.6399194	ppbv	99
85) n-Propylbenzene	14.914	91	209601	3.6895061	ppbv	100
86) 4-Ethyltoluene	15.024	105	158038	3.8585499	ppbv	98
87) 2-Chlorotoluene	15.078	91	147523	3.7127588	ppbv	100
89) 1,3,5-Trimethylbenzene	15.078	105	134863	3.8751578	ppbv	97
90) tert-Butylbenzene	15.408	119	116593	3.9466677	ppbv	98
91) 1,2,4-Trimethylbenzene	15.463	105	137741	3.9539294	ppbv	100
92) sec-Butylbenzene	15.615	105	188454	3.7433029	ppbv	99
93) 1,3-Dichlorobenzene	15.822	146	86312	3.5457853	ppbv	92
94) P-ISOPROPYLTOLUENE	15.737	119	157668	3.9213098	ppbv	98
95) 1,4-Dichlorobenzene	15.908	146	90641	3.6733421	ppbv	99
96) 1,2,3-TRIMETHYLBENZENE	15.895	105	140127	3.9356830	ppbv	100

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_03.D
Acq On : 1 May 2024 9:44 am
Operator :
Sample : LCSD 1x WG2278229
Misc : 24D29341
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 10:32:51 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration

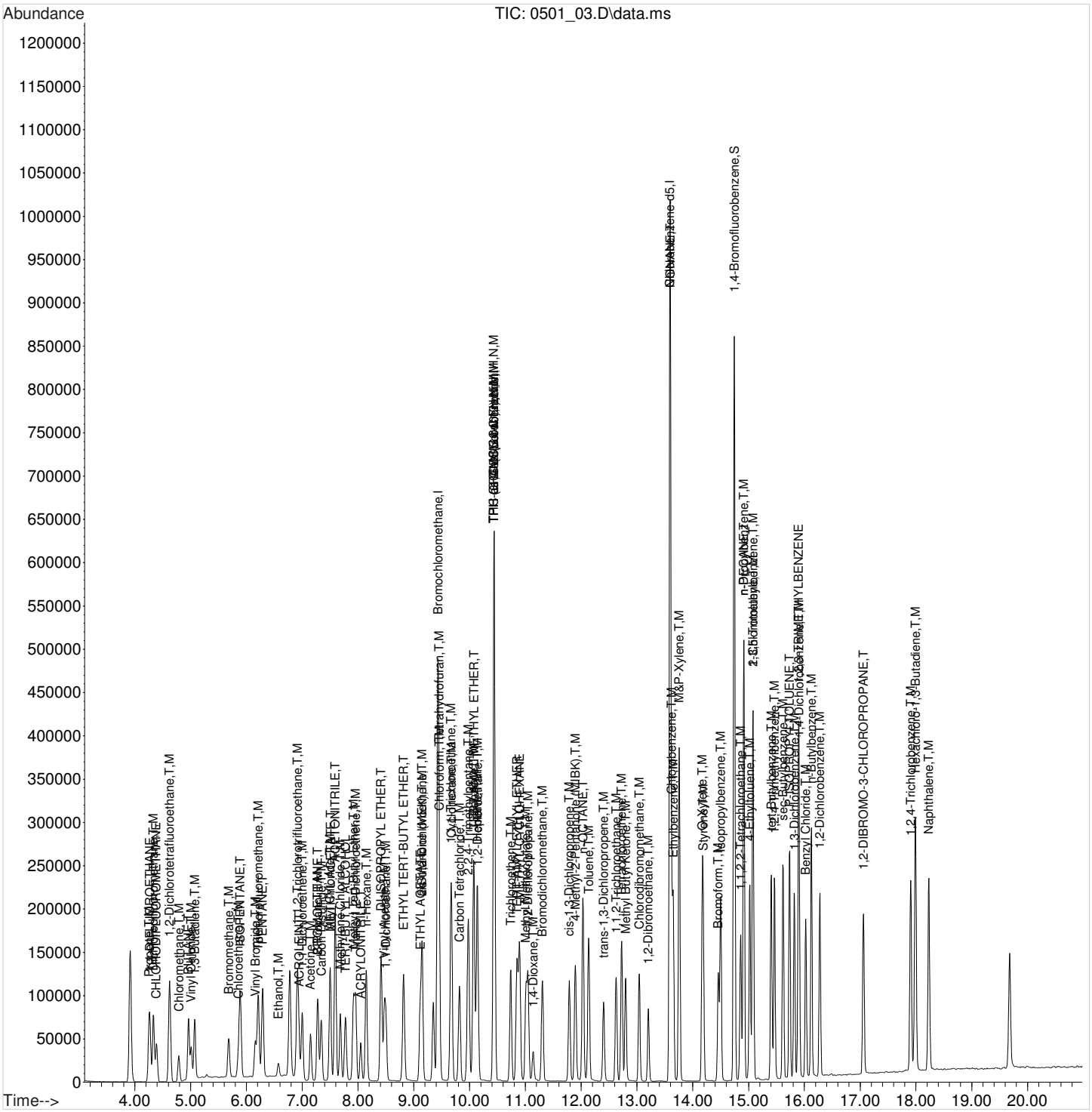
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	Benzyl Chloride	16.023	91	136604	3.7567218	ppbv	99
98)	n-Butylbenzene	16.127	91	181738	3.9604170	ppbv	98
99)	1,2-Dichlorobenzene	16.279	146	85854	3.6252436	ppbv	99
100)	1,2-DIBROMO-3-CHLOROPR...	17.060	157	45974	3.6066553	ppbv	98
101)	1,2,4-Trichlorobenzene	17.907	180	78750	3.7460096	ppbv	99
102)	Hexachloro-1,3-Butadiene	17.993	225	71050	3.5582826	ppbv	99
103)	Naphthalene	18.230	128	203272	3.9074850	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050124\
Data File : 0501_03.D
Acq On : 1 May 2024 9:44 am
Operator :
Sample : LCSD 1x WG2278229
Misc : 24D29341
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS13

Quant Time: May 01 10:32:51 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS13D30X.M
Quant Title :
QLast Update : Wed May 01 08:16:57 2024
Response via : Initial Calibration



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4065178-2	**SDG:**	L1731355
Client Sample ID:	LCSD	**Collected Date/Time:**	
Lab File ID:	0502_03	**Received Date/Time:**	
Instrument ID:	AIRMS8	**Preparation Date/Time:**	05/02/24 09:19
Analytical Batch:	WG2278934	**Analysis Date/Time:**	05/02/24 09:19
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
n-Hexane	110-54-3	3.27	3.76		0.206	0.630
Tetrachloroethylene	127-18-4	6.09	3.69		0.0814	0.200
Toluene	108-88-3	5.51	3.65		0.0870	0.500

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_03.D
Acq On : 02 May 2024 09:19 am
Operator :
Sample : LCSD 1x WG2278934
Misc : 24D25866
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 10:14:23 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	3.222	130	44575	4.0000000	ppbv	0.01
50) 1,4-Difluorobenzene	4.193	114	163100	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	6.410	117	128774	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	7.189	95	87570	4.0279555	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 100.70%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	5.430	TIC	6220937m	162.4015653	ppbv	
3) TPH-GRO (C5-C10)	5.430	TIC	7197535m	258.6518096	ppbv	
4) THC as Gas (C4-C12)	5.430	TIC	9716944m	330.4430038	ppbv	
5) Propene	1.572	41	8027	3.6963081	ppbv	98
6) BUTANE	1.766	43	16572	3.7631285	ppbv	98
7) 1,1-DIFLUOROETHANE	1.550	65	7163	3.5797027	ppbv	96
8) Dichlorodifluoromethane	1.591	85	34492	3.7137477	ppbv	99
9) CHLORODIFLUOROMETHANE	1.565	67	3168	3.6393928	ppbv	87
10) 1,2-Dichlorotetrafluor...	1.671	85	33349	3.7714849	ppbv	98
11) Chloromethane	1.641	50	9165	3.6638819	ppbv	94
12) Vinyl Chloride	1.705	62	11723	3.8206800	ppbv	97
13) 1,3-Butadiene	1.747	54	8806	3.7519096	ppbv	94
14) Bromomethane	1.830	94	11480	3.7081666	ppbv	97
15) Chloroethane	1.883	64	6409	3.8692249	ppbv	99
16) ISOPENTANE	2.263	41	10451	3.6463659	ppbv	97
17) Vinyl Bromide	1.997	106	11722	3.6314874	ppbv	95
18) Trichlorofluoromethane	2.134	101	35874	3.7251917	ppbv	99
19) PENTANE	2.263	43	18583	3.5732356	ppbv	97
21) ACROLEIN	2.031	56	4488	3.3282880	ppbv	96
22) 1,1,2-Trichlorotrifluo...	2.498	101	25608	3.6860488	ppbv	99
23) 1,1-Dichloroethene	2.357	61	18948	3.6714594	ppbv	97
24) Acetone	2.077	58	8482	4.2143038	ppbv	95
25) BROMOETHANE	2.346	108	11285	3.7216015	ppbv	96
26) 2-Propanol	2.160	45	14661	3.0595738	ppbv	99
27) Carbon Disulfide	2.498	76	31526	3.7751158	ppbv	99
28) Allyl Chloride	2.441	41	13344	3.6796353	ppbv	98
29) METHYL ACETATE	2.391	43	22536	3.6690501	ppbv #	98
30) ACETONITRILE	1.989	41	36119	15.8277458	ppbv	99
31) Methylene Chloride	2.399	49	13054	3.9077676	ppbv #	100
32) TERT-BUTYL ALCOHOL	2.384	59	26738	3.5635697	ppbv	100
33) Methyl Tert-Butyl Ether	2.835	73	31607	3.6980768	ppbv	99
34) Trans-1,2-Dichloroethene	2.725	61	15553	3.7372785	ppbv	96
35) ACRYLONITRILE	2.232	53	8665	3.5559197	ppbv	98
36) n-Hexane	3.267	57	15249	3.7611204	ppbv	99
37) 1,1-Dichloroethane	2.797	63	19487	3.6505709	ppbv	99
38) Vinyl Acetate	2.869	43	24208	3.5746056	ppbv #	100
39) DI-ISOPROPYL ETHER	3.275	45	33874	3.7276283	ppbv	96
40) ETHYL TERT-BUTYL ETHER	3.533	59	31873	3.8676548	ppbv	98
41) ETHYL ACETATE	3.279	43	46617	3.7016185	ppbv	97
42) 2-Butanone (MEK)	2.968	72	5167	3.5335464	ppbv	100

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_03.D
Acq On : 02 May 2024 09:19 am
Operator :
Sample : LCSD 1x WG2278934
Misc : 24D25866
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 02 10:14:23 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) cis-1,2-Dichloroethene	3.150	61	13861	3.7497779 ppbv	98
44) Tetrahydrofuran	3.480	42	9322	3.6340107 ppbv	97
45) Chloroform	3.286	83	25491	3.6578918 ppbv	100
46) Cyclohexane	4.125	84	13445	3.5072446 ppbv	94
47) 1,1,1-Trichloroethane	3.757	97	26309	3.6682208 ppbv	100
48) Carbon Tetrachloride	4.060	117	28627	3.6263320 ppbv	98
49) 2,2,4-Trimethylpentane	4.580	57	51845	3.8121187 ppbv	99
51) Benzene	3.984	78	34514	3.5728486 ppbv	99
52) TERT-AMYL METHYL ETHER	4.322	73	29480	3.5047927 ppbv	99
53) 1,2-Dichloroethane	3.632	62	17015	3.7278185 ppbv	99
54) Heptane	4.739	43	16592	3.6944596 ppbv	98
55) Trichloroethene	4.534	95	16036	3.5928007 ppbv	99
56) TERT-AMYL ETHYL ETHER	5.042	73	8815	3.8145853 ppbv	91
57) METHYL CYCLOHEXANE	5.039	83	18217	3.8153886 ppbv	89
58) 1,2-Dichloropropane	4.405	63	12240	3.6810424 ppbv	98
59) Methyl Methacrylate	4.686	69	10385	3.5794058 ppbv	99
60) 1,4-Dioxane	4.557	88	5104	2.6946047 ppbv #	87
61) Bromodichloromethane	4.504	83	25569	3.5534641 ppbv	96
62) cis-1,3-Dichloropropene	4.997	75	13483	3.0929268 ppbv	99
63) 4-Methyl-2-Pentanone (...	5.045	43	26676	3.4230529 ppbv	96
64) n-OCTANE	6.081	43	17865	3.5632106 ppbv	99
65) Toluene	5.508	91	37838	3.6511142 ppbv	99
66) trans-1,3-Dichloropropene	5.283	75	14113	3.7408149 ppbv	96
67) 1,1,2-Trichloroethane	5.361	97	13718	3.7814628 ppbv	99
68) Tetrachloroethene	6.090	166	25663	3.6920055 ppbv	99
69) Methyl Butyl Ketone	5.693	43	11000	2.6841293 ppbv	96
70) Chlorodibromomethane	5.709	129	25186	3.6053759 ppbv	97
71) 1,2-Dibromoethane	5.831	107	20926	3.8269128 ppbv	95
72) Chlorobenzene	6.429	112	34185	3.6563189 ppbv	97
73) NONANE	7.133	43	20511	3.8675947 ppbv	99
75) Ethylbenzene	6.638	91	47450	3.7205239 ppbv	99
76) M&P-Xylene	6.735	91	86139	8.0718679 ppbv	99
77) O-Xylene	6.964	91	41837	4.0123925 ppbv	100
80) Styrene	6.911	104	27805	3.8834970 ppbv	98
81) Bromoform	6.729	173	29302	3.7637512 ppbv	100
82) Isopropylbenzene	7.274	105	59874	3.5871852 ppbv	97
83) n-DECANE	7.990	43	26273	3.7945282 ppbv	97
84) 1,1,2,2-Tetrachloroethane	6.954	83	28805	3.7450979 ppbv	97
85) n-Propylbenzene	7.540	91	70540	4.0431258 ppbv	99
86) 4-Ethyltoluene	7.621	105	59009	4.0733223 ppbv	100
87) 2-Chlorotoluene	7.502	91	38807	3.6548709 ppbv	98
89) 1,3,5-Trimethylbenzene	7.668	105	50012	3.8083472 ppbv	97
90) tert-Butylbenzene	7.881	119	55458	3.7705022 ppbv	98
91) 1,2,4-Trimethylbenzene	7.881	105	51618	3.8470621 ppbv	99
92) sec-Butylbenzene	8.031	105	80311	3.8625507 ppbv	99
93) 1,3-Dichlorobenzene	7.943	146	41472	4.1784586 ppbv	99
94) P-ISOPROPYLTOLUENE	8.131	119	76947	3.5118812 ppbv #	90
95) 1,4-Dichlorobenzene	7.981	146	43100	4.3208438 ppbv	98
96) 1,2,3-TRIMETHYLBENZENE	8.112	105	55603	3.5143479 ppbv	100
97) Benzyl Chloride	7.940	91	35662	3.7774879 ppbv	98

Quantitation Report (QT Reviewed)

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_03.D
Acq On : 02 May 2024 09:19 am
Operator :
Sample : LCSD 1x WG2278934
Misc : 24D25866
ALS Vial : 3 Sample Multiplier: 1

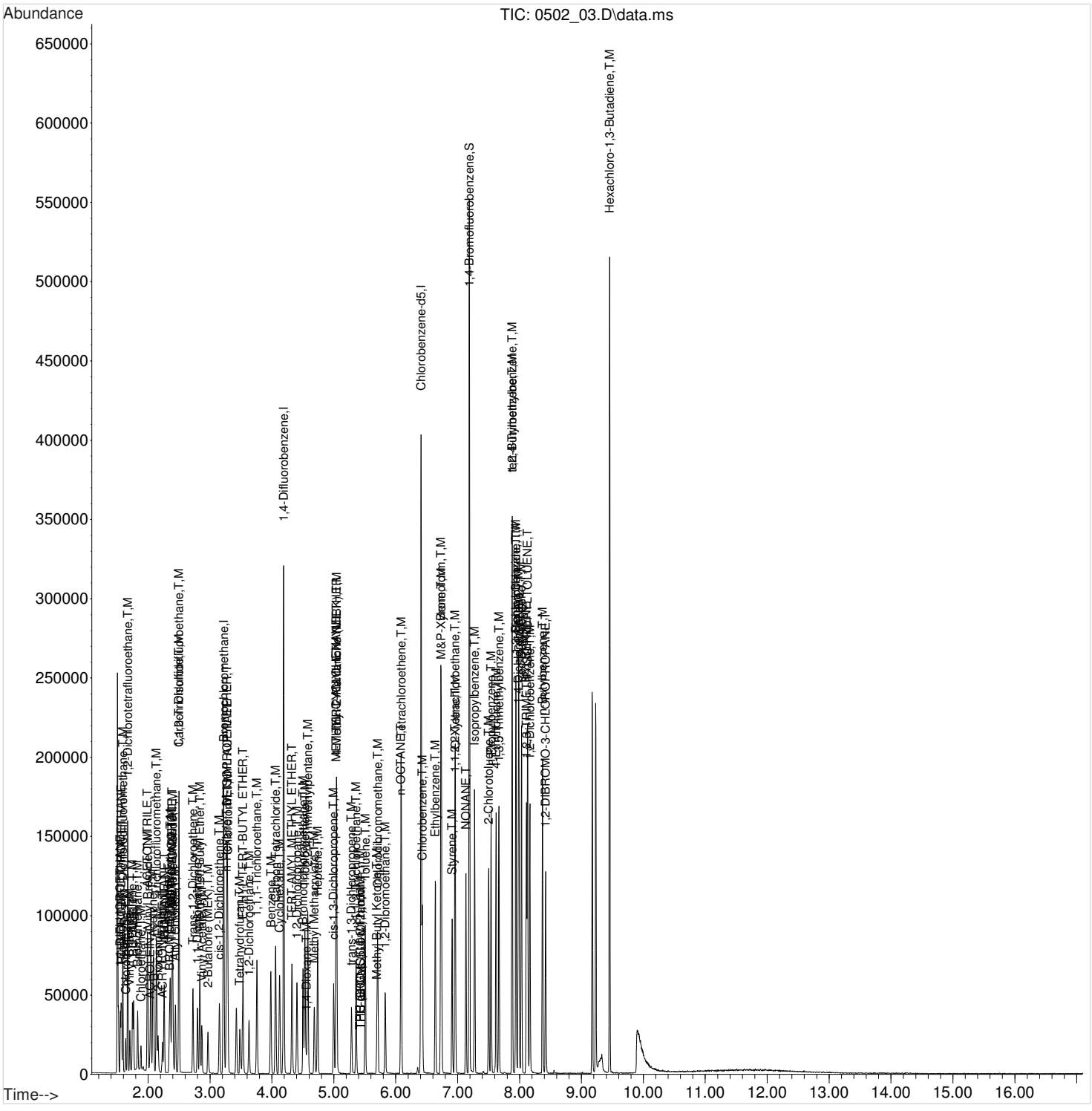
Quant Time: May 02 10:14:23 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

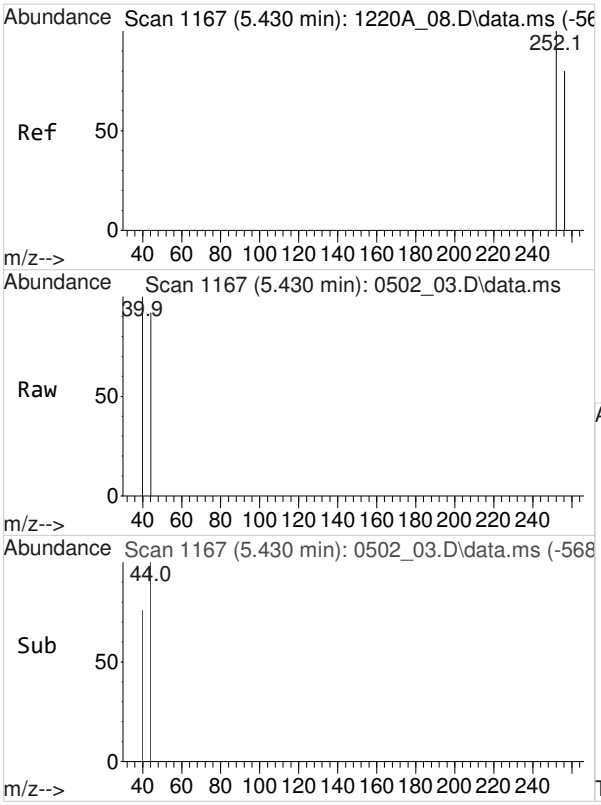
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
98)	n-Butylbenzene	8.372	91	59737	3.5410911 ppbv	99
99)	1,2-Dichlorobenzene	8.169	146	42011	3.9929276 ppbv	97
100)	1,2-DIBROMO-3-CHLOROPR...	8.422	157	22352	3.2892853 ppbv	99
102)	Hexachloro-1,3-Butadiene	9.455	225	60646	3.3700268 ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\GCMS\1\data\050224\
Data File : 0502_03.D
Acq On : 02 May 2024 09:19 am
Operator :
Sample : LCSD 1x WG2278934
Misc : 24D25866
ALS Vial : 3 Sample Multiplier: 1

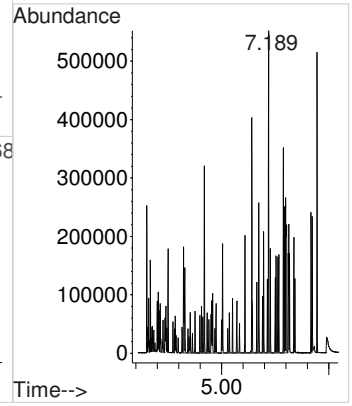
Quant Time: May 02 10:14:23 2024
Quant Method : C:\GCMS\1\methods\TOAIRMS8D26X.M
Quant Title :
QLast Update : Sat Apr 27 10:43:03 2024
Response via : Initial Calibration

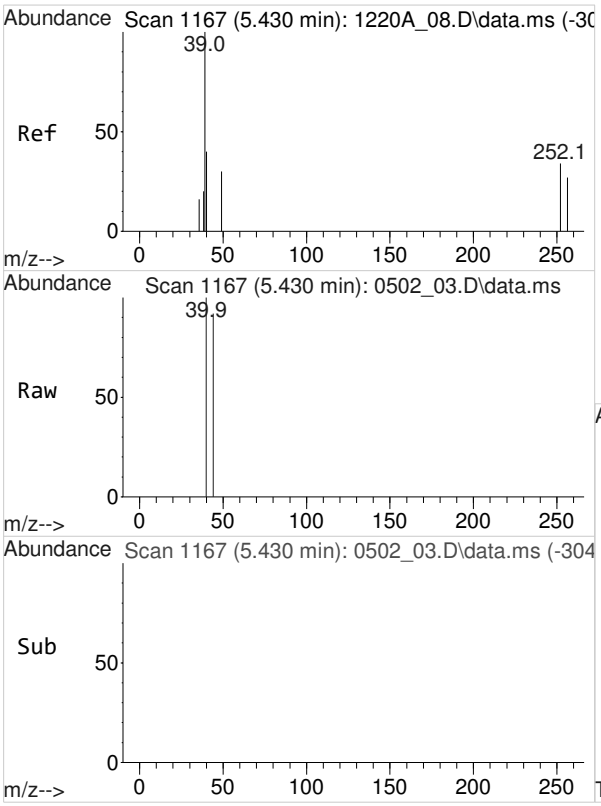




#2
TPH (GC/MS) Low Fraction
Concen: 162.4015653 ppbv m
RT: 5.430 min Scan# 1167
Delta R.T. 0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

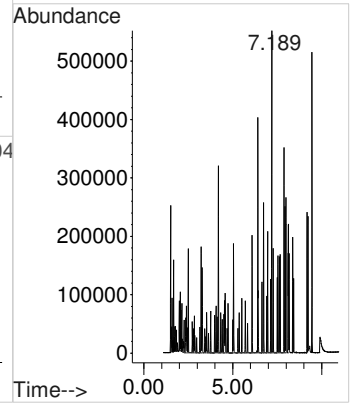
Tgt Ion:TIC Resp: 6220937

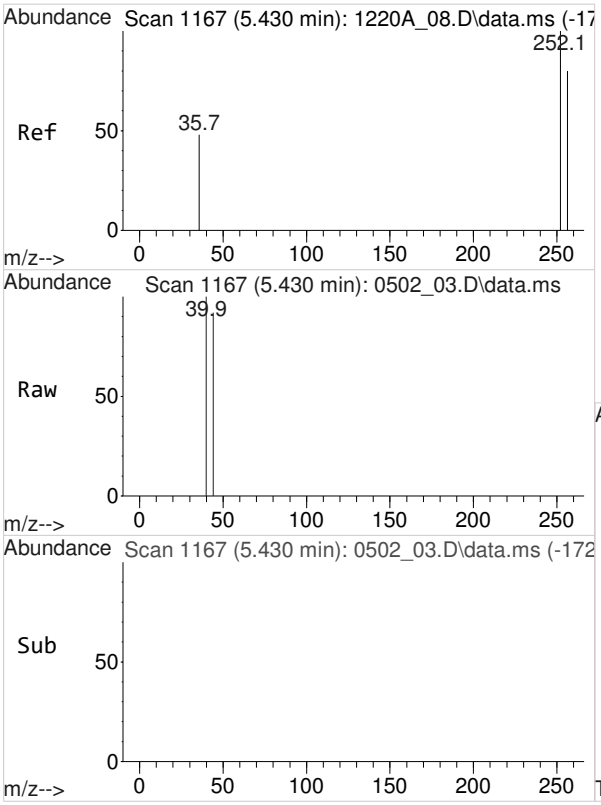




#3
TPH-GRO (C5-C10)
Concen: 258.6518096 ppbv m
RT: 5.430 min Scan# 1167
Delta R.T. 0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

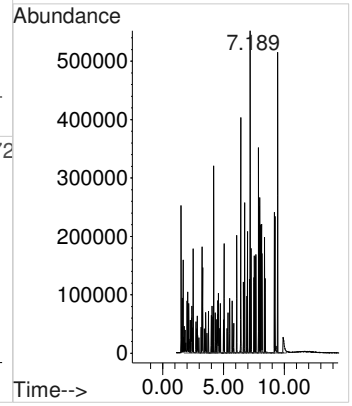
Tgt Ion:TIC Resp: 7197535

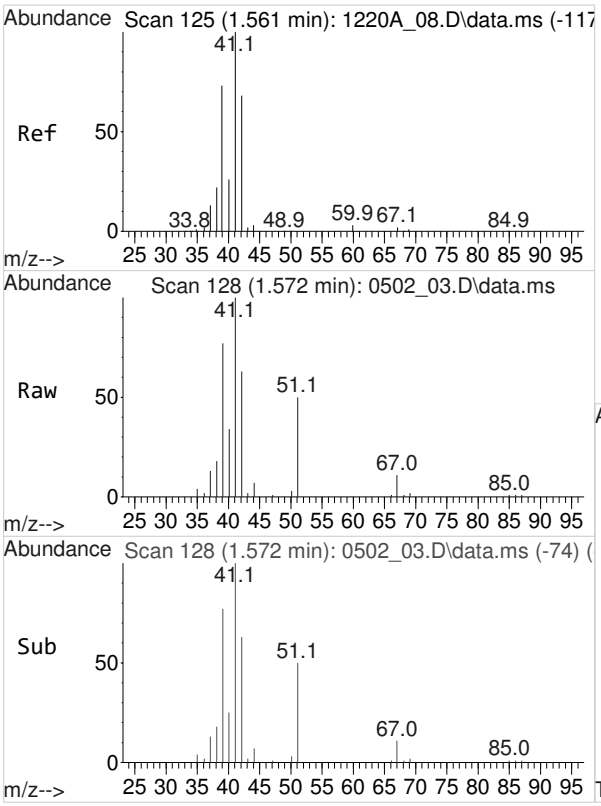




#4
THC as Gas (C4-C12)
Concen: 330.4430038 ppbv m
RT: 5.430 min Scan# 1167
Delta R.T. 0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:TIC Resp: 9716944

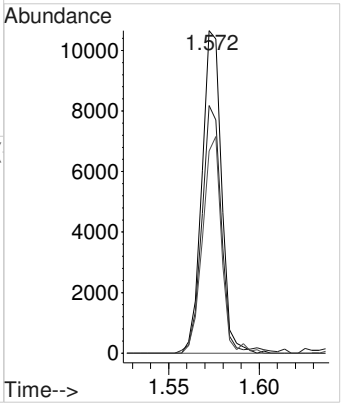


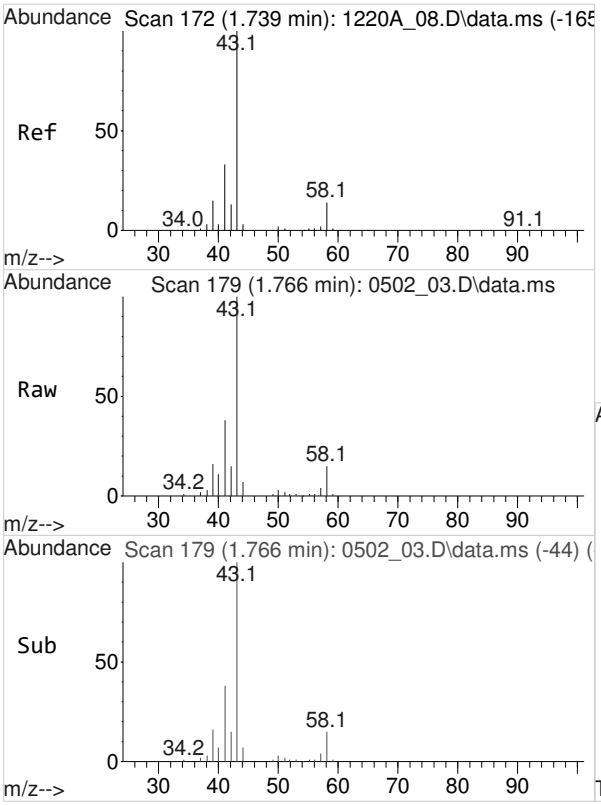


#5
Propene
Concen: 3.6963081 ppbv
RT: 1.572 min Scan# 128
Delta R.T. 0.004 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 41 Resp: 8027

Ion	Ratio	Lower	Upper
41	100		
39	75.2	60.2	90.4
42	65.1	49.1	73.7

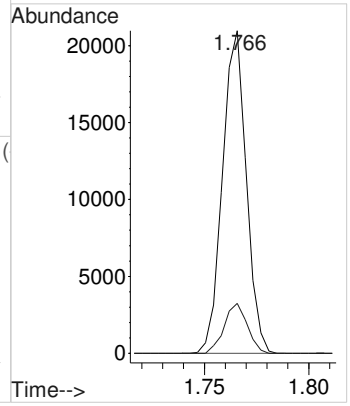


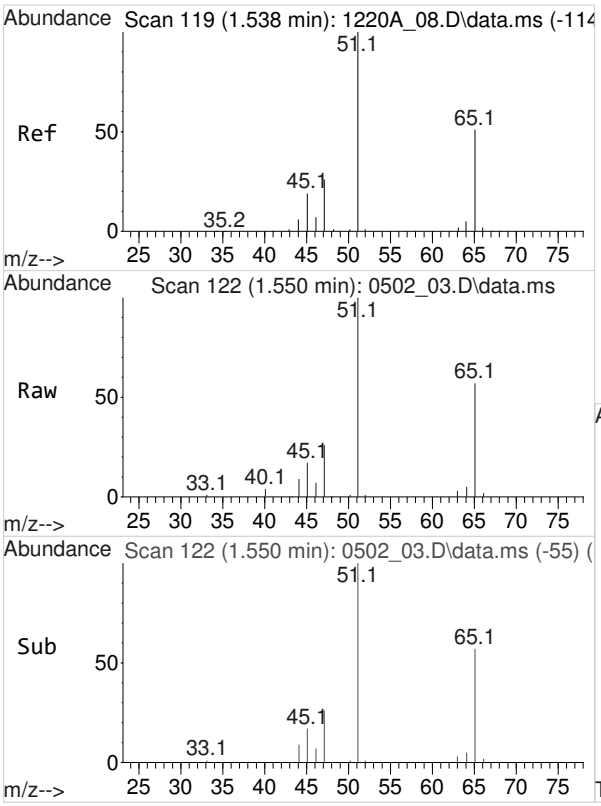


#6
BUTANE
Concen: 3.7631285 ppbv
RT: 1.766 min Scan# 179
Delta R.T. 0.012 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 43 Resp: 16572

Ion	Ratio	Lower	Upper
43	100		
58	15.0	12.6	19.0

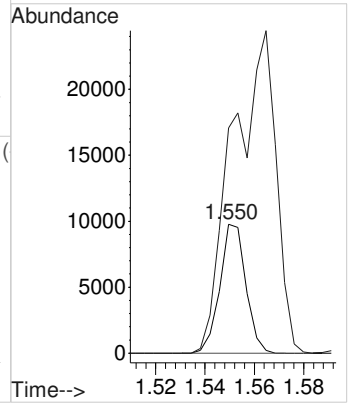


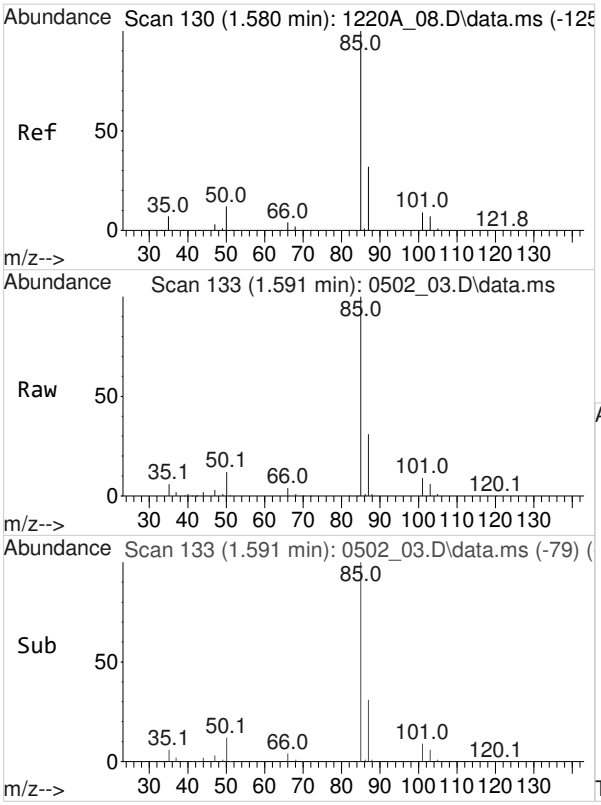


#7
1,1-DIFLUOROETHANE
Concen: 3.5797027 ppbv
RT: 1.550 min Scan# 122
Delta R.T. 0.004 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 65 Resp: 7163

Ion	Ratio	Lower	Upper
65	100		
51	414.6	324.4	486.6

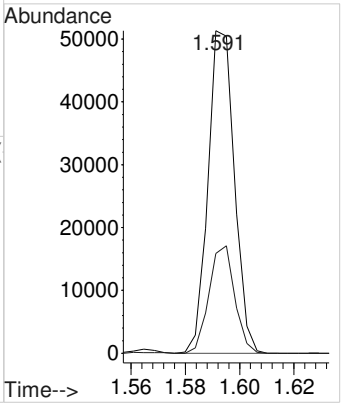


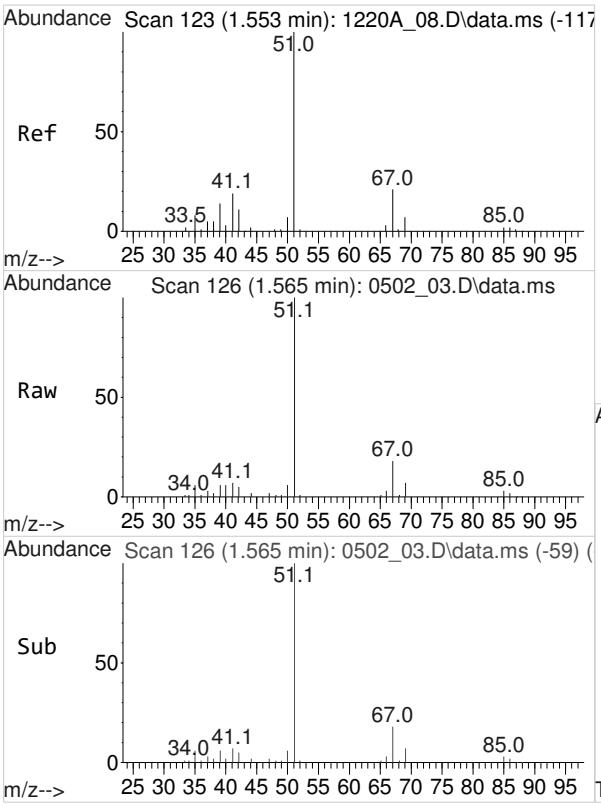


#8
Dichlorodifluoromethane
Concen: 3.7137477 ppbv
RT: 1.591 min Scan# 133
Delta R.T. 0.004 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 85 Resp: 34492

Ion	Ratio	Lower	Upper
85	100		
87	32.4	26.2	39.2

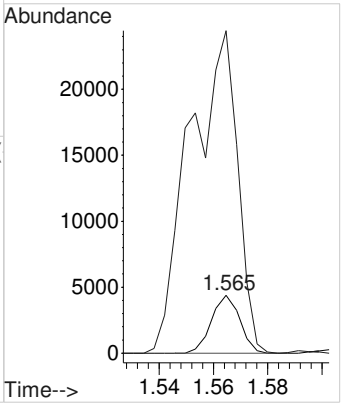


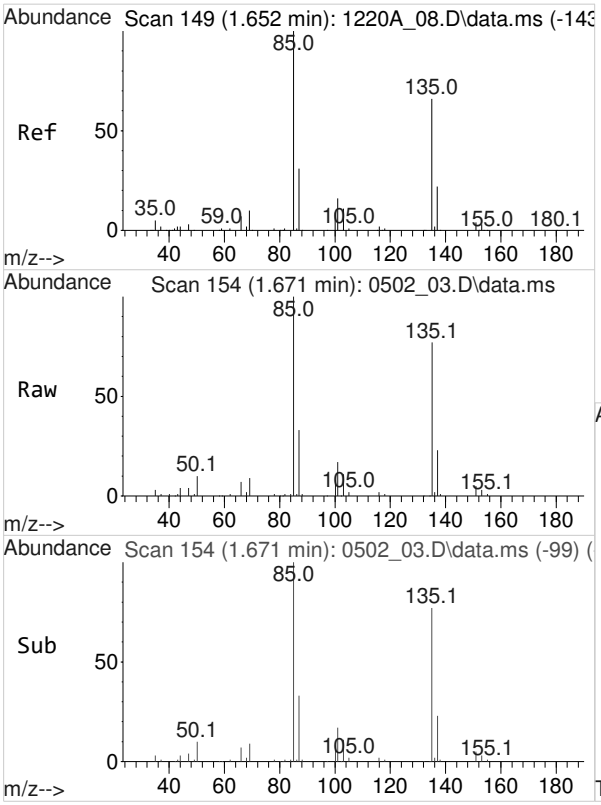


#9
CHLORODIFLUOROMETHANE
Concen: 3.6393928 ppbv
RT: 1.565 min Scan# 126
Delta R.T. 0.004 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 67 Resp: 3168

Ion	Ratio	Lower	Upper
67	100		
51	937.5	706.5	1059.7

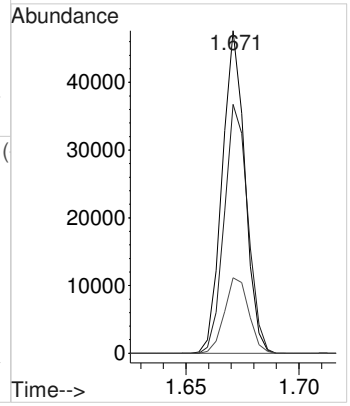


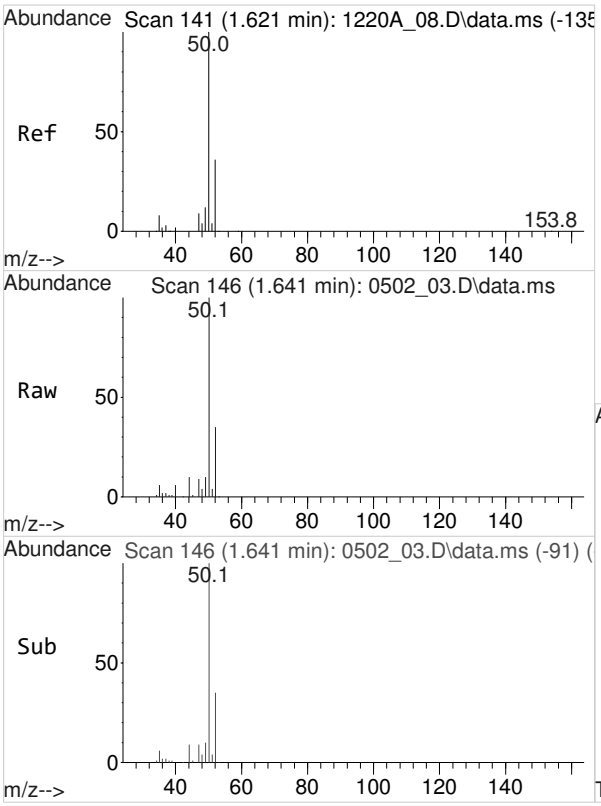


#10
1,2-Dichlorotetrafluoroethane
Concen: 3.7714849 ppbv
RT: 1.671 min Scan# 154
Delta R.T. 0.008 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 85 Resp: 33349

Ion	Ratio	Lower	Upper
85	100		
135	80.2	65.5	98.3
137	25.0	21.0	31.6

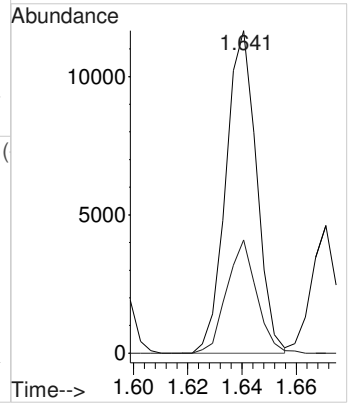


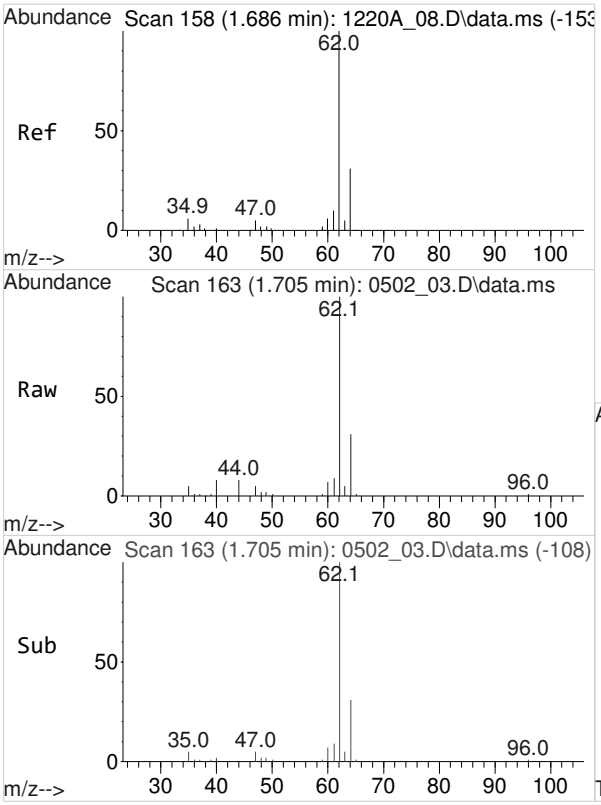


#11
Chloromethane
Concen: 3.6638819 ppbv
RT: 1.641 min Scan# 146
Delta R.T. 0.008 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 50 Resp: 9165

Ion	Ratio	Lower	Upper
50	100		
52	34.1	24.6	36.8

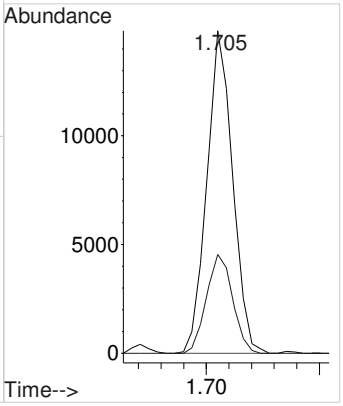


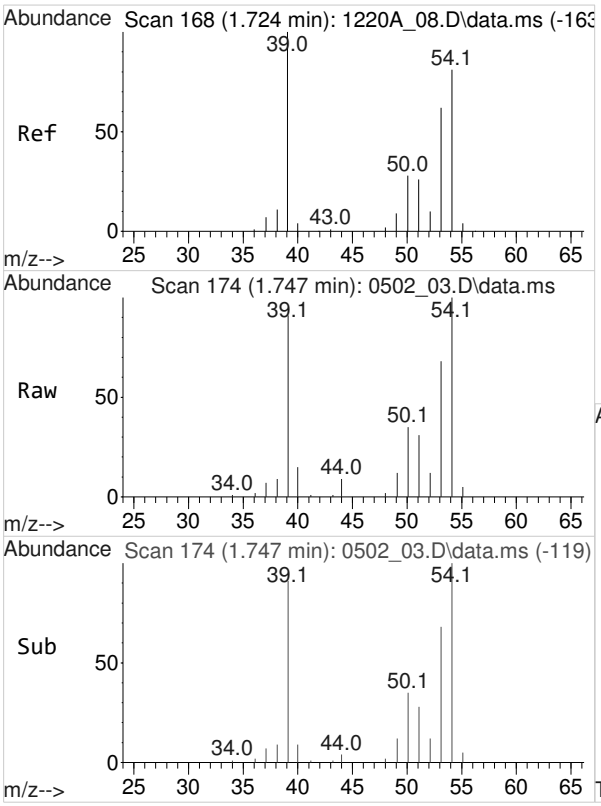


#12
Vinyl Chloride
Concen: 3.8206800 ppbv
RT: 1.705 min Scan# 163
Delta R.T. 0.008 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 62 Resp: 11723

Ion	Ratio	Lower	Upper
62	100		
64	31.1	26.4	39.6

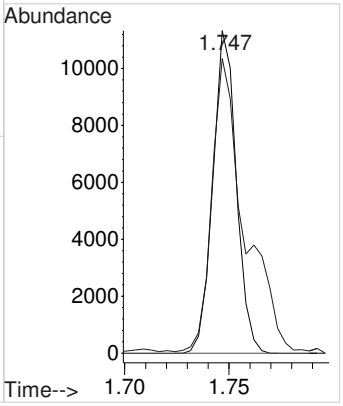


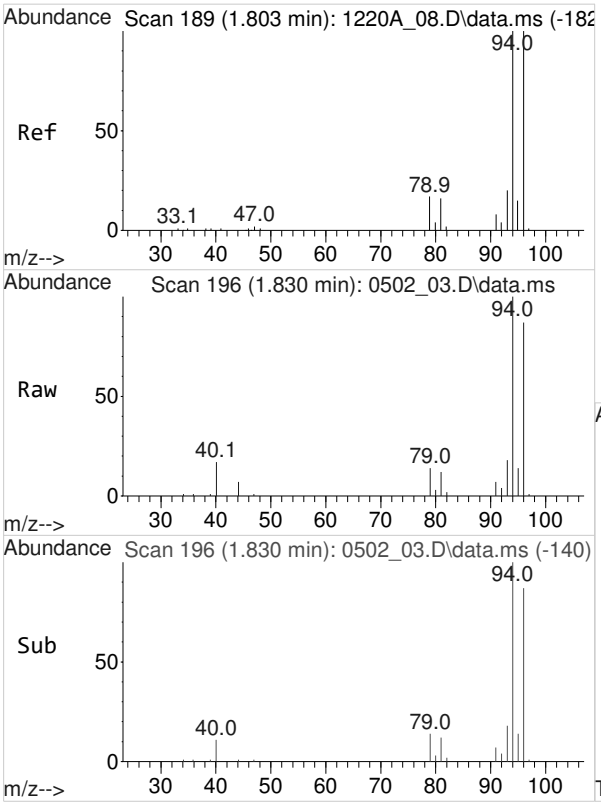


#13
1,3-Butadiene
Concen: 3.7519096 ppbv
RT: 1.747 min Scan# 174
Delta R.T. 0.008 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 54 Resp: 8806

Ion	Ratio	Lower	Upper
54	100		
39	129.3	108.8	163.2

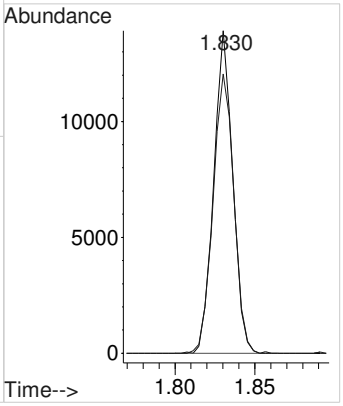


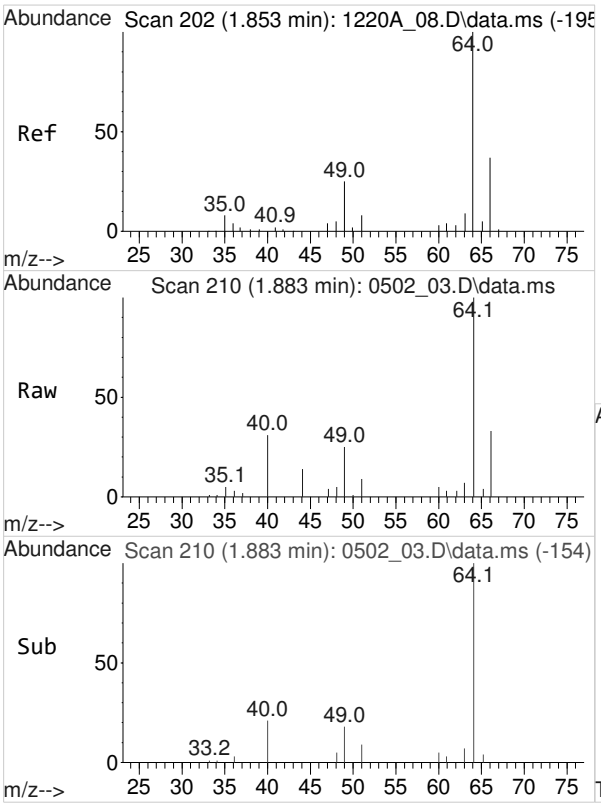


#14
Bromomethane
Concen: 3.7081666 ppbv
RT: 1.830 min Scan# 196
Delta R.T. 0.011 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 94 Resp: 11480

Ion	Ratio	Lower	Upper
94	100		
96	94.6	78.4	117.6

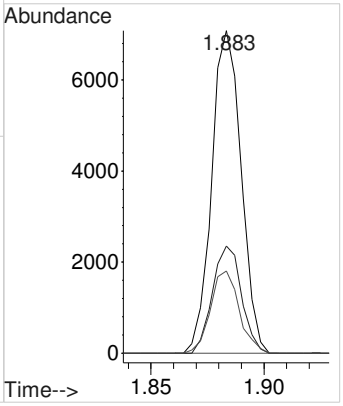


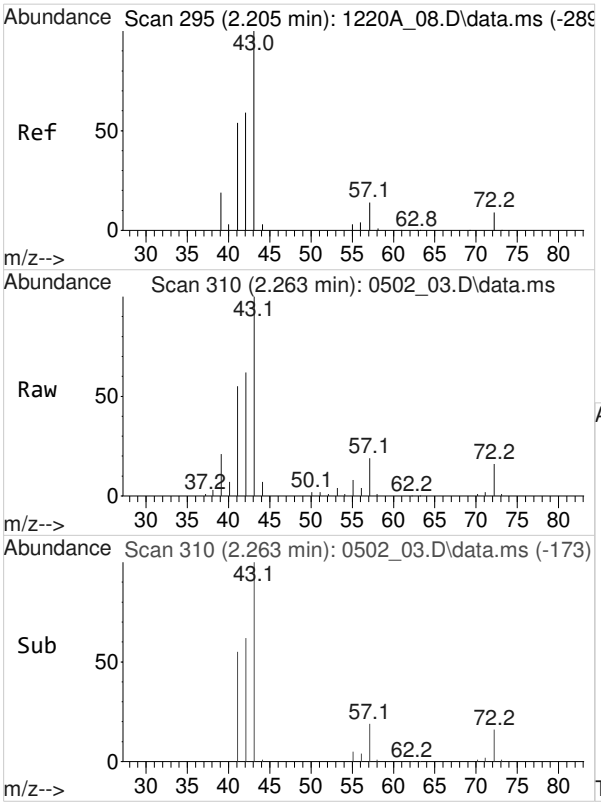


#15
Chloroethane
Concen: 3.8692249 ppbv
RT: 1.883 min Scan# 210
Delta R.T. 0.011 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 64 Resp: 6409

Ion	Ratio	Lower	Upper
64	100		
66	32.8	25.5	38.3
49	24.9	19.4	29.2

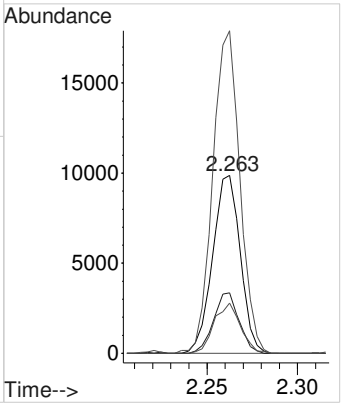


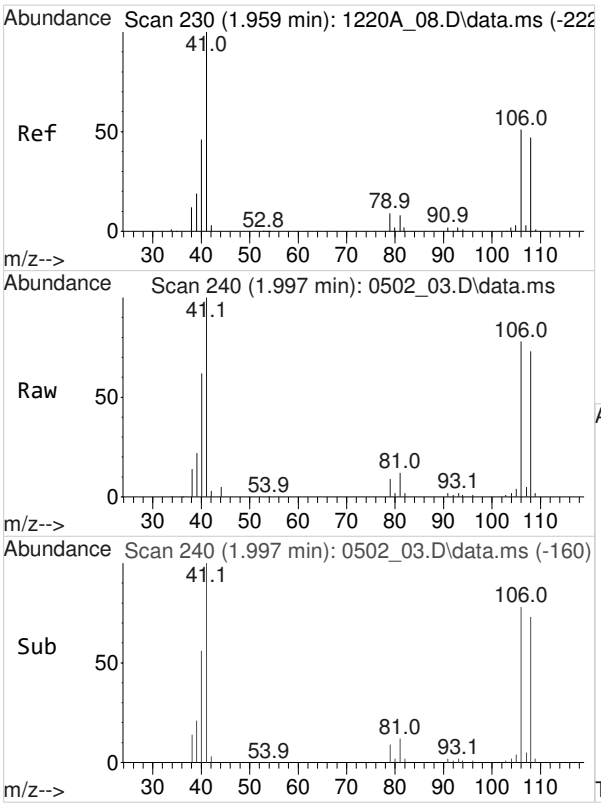


#16
ISOPENTANE
Concen: 3.6463659 ppbv
RT: 2.263 min Scan# 310
Delta R.T. 0.020 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 41 Resp: 10451

Ion	Ratio	Lower	Upper
41	100		
57	31.3	24.6	37.0
43	177.8	145.7	218.5
72	26.8	19.0	28.4

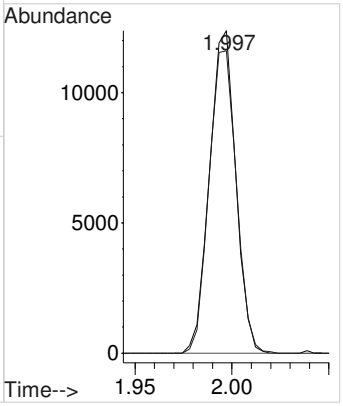


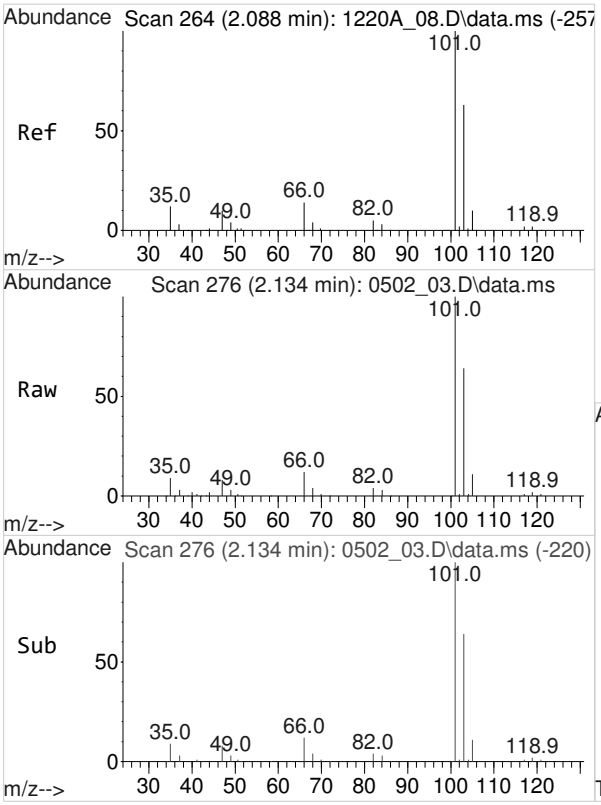


#17
Vinyl Bromide
Concen: 3.6314874 ppbv
RT: 1.997 min Scan# 240
Delta R.T. 0.015 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:106 Resp: 11722

Ion	Ratio	Lower	Upper
106	100		
108	97.5	74.2	111.2

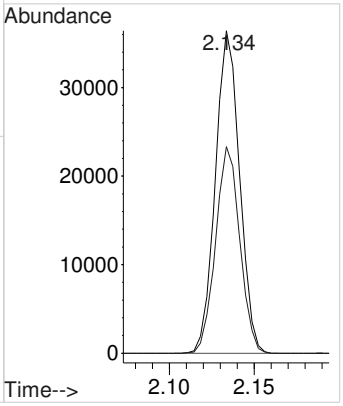


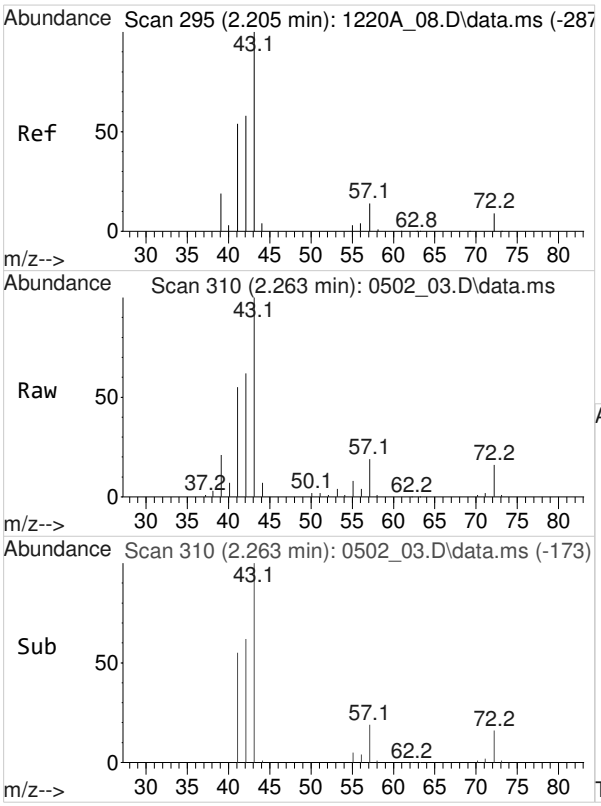


#18
Trichlorofluoromethane
Concen: 3.7251917 ppbv
RT: 2.134 min Scan# 276
Delta R.T. 0.012 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:101 Resp: 35874

Ion	Ratio	Lower	Upper
101	100		
103	64.0	50.6	76.0

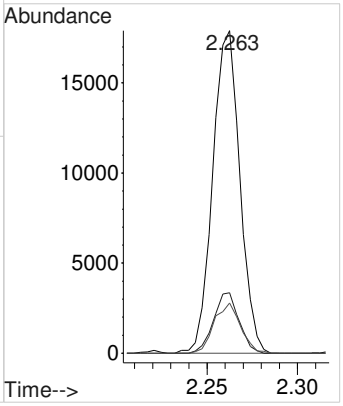


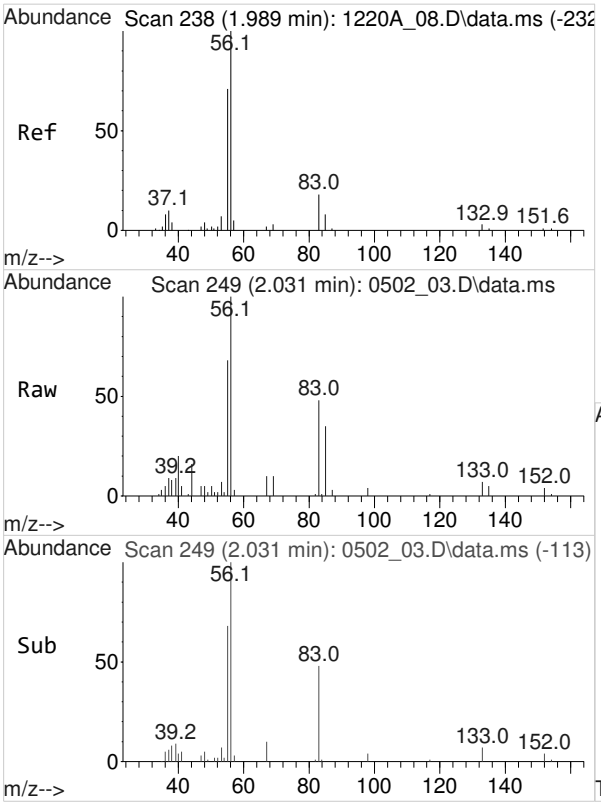


#19
PENTANE
Concen: 3.5732356 ppbv
RT: 2.263 min Scan# 310
Delta R.T. 0.020 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 43 Resp: 18583

Ion	Ratio	Lower	Upper
43	100		
57	17.6	13.5	20.3
72	15.1	10.4	15.6

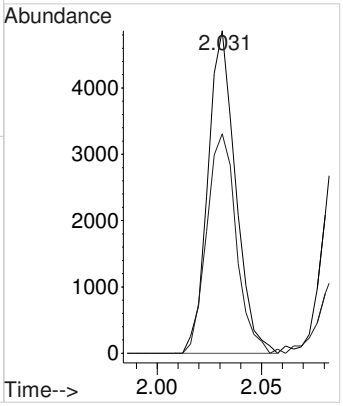


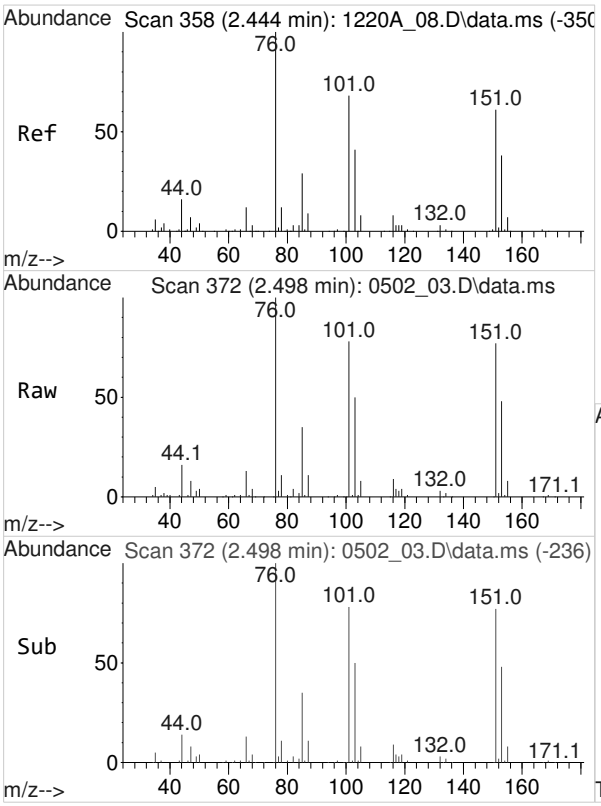


#21
ACROLEIN
Concen: 3.3282880 ppbv
RT: 2.031 min Scan# 249
Delta R.T. 0.015 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 56 Resp: 4488

Ion	Ratio	Lower	Upper
56	100		
55	72.7	55.3	82.9

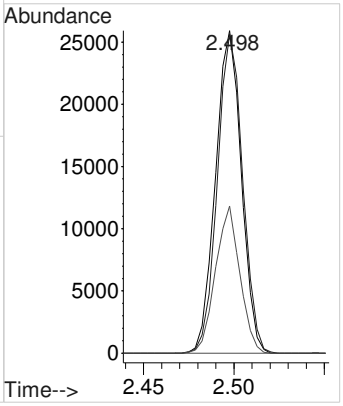


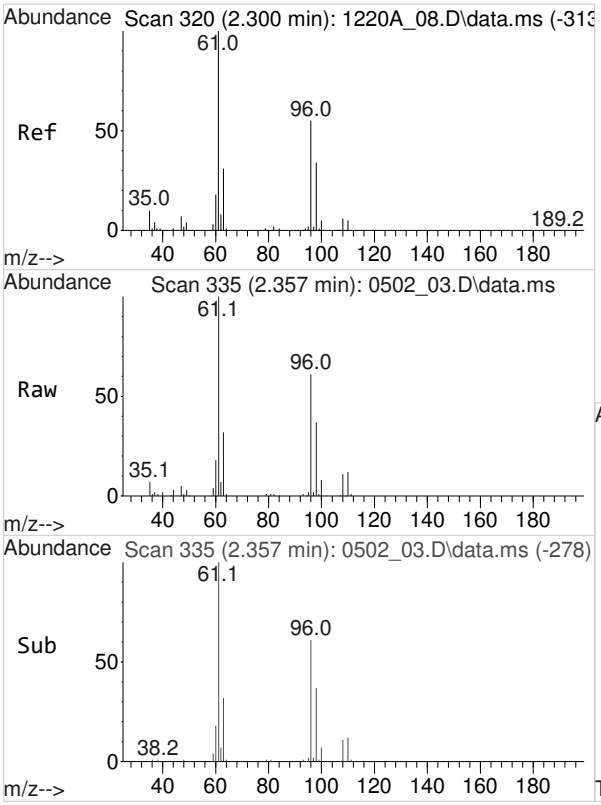


#22
1,1,2-Trichlorotrifluoroethane
Concen: 3.6860488 ppbv
RT: 2.498 min Scan# 372
Delta R.T. 0.016 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:101 Resp: 25608

Ion	Ratio	Lower	Upper
101	100		
151	97.0	77.3	115.9
85	43.1	33.8	50.6

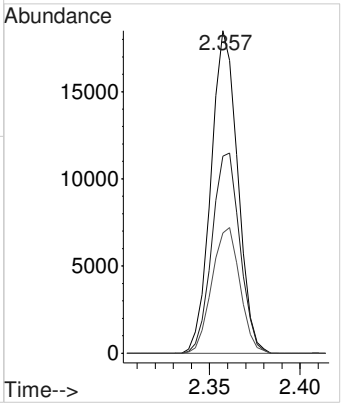


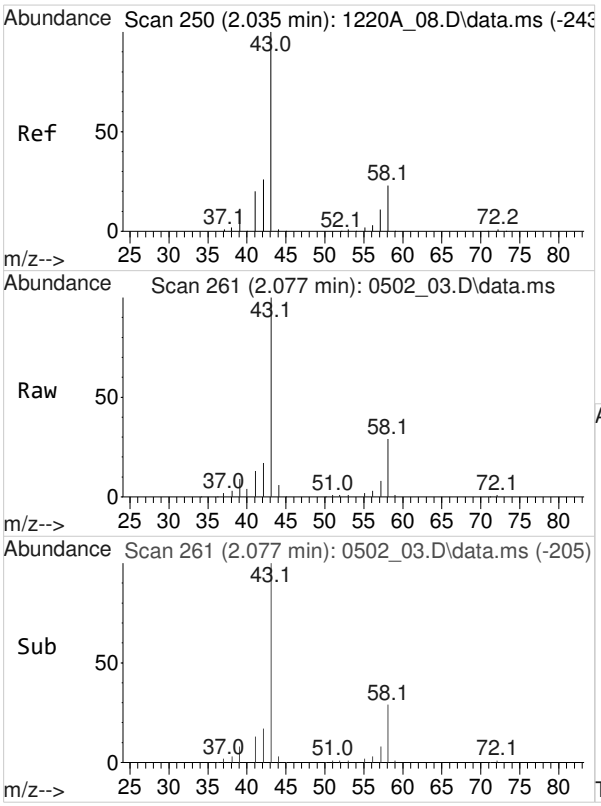


#23
1,1-Dichloroethene
Concen: 3.6714594 ppbv
RT: 2.357 min Scan# 335
Delta R.T. 0.015 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 61 Resp: 18948

Ion	Ratio	Lower	Upper
61	100		
96	64.8	49.9	74.9
98	40.9	34.2	51.4

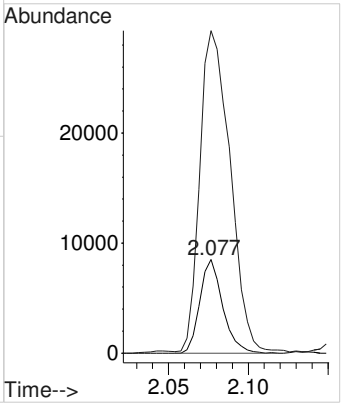


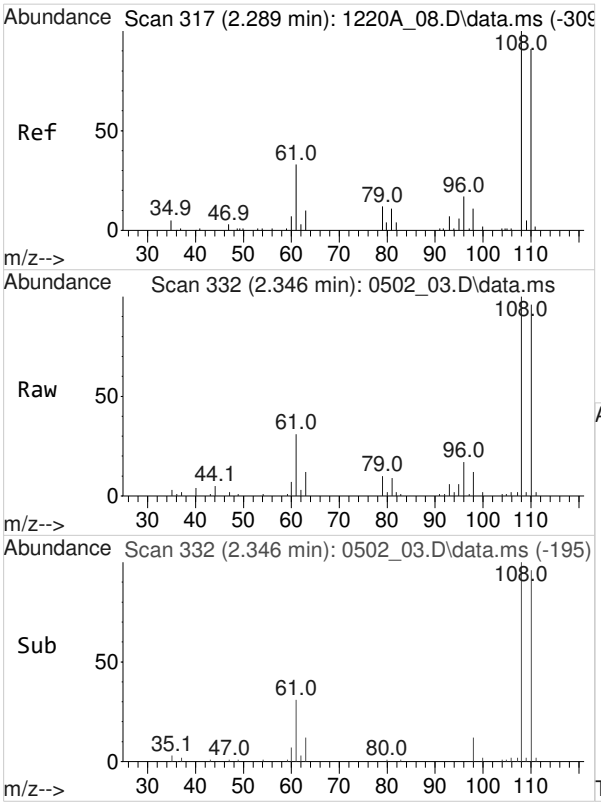


#24
Acetone
Concen: 4.2143038 ppbv
RT: 2.077 min Scan# 261
Delta R.T. 0.012 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 58 Resp: 8482

Ion	Ratio	Lower	Upper
58	100		
43	453.4	372.3	558.5

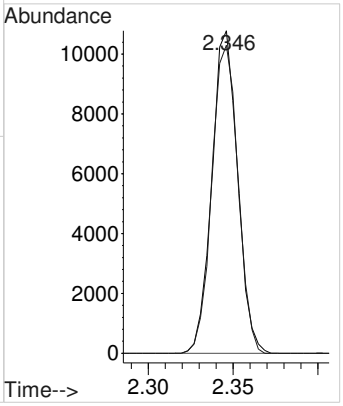


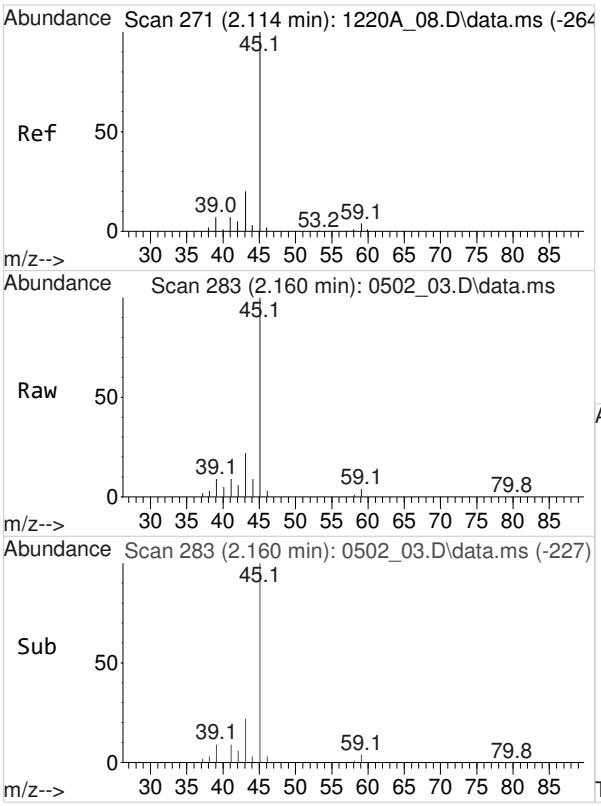


#25
BROMOETHANE
Concen: 3.7216015 ppbv
RT: 2.346 min Scan# 332
Delta R.T. 0.019 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:108 Resp: 11285

Ion	Ratio	Lower	Upper
108	100		
110	97.5	81.1	121.7

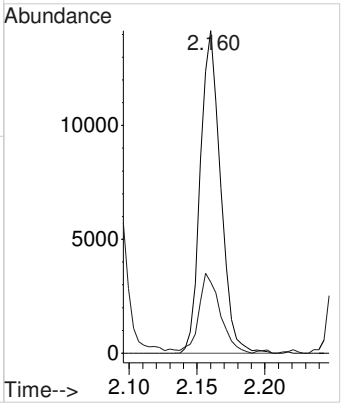


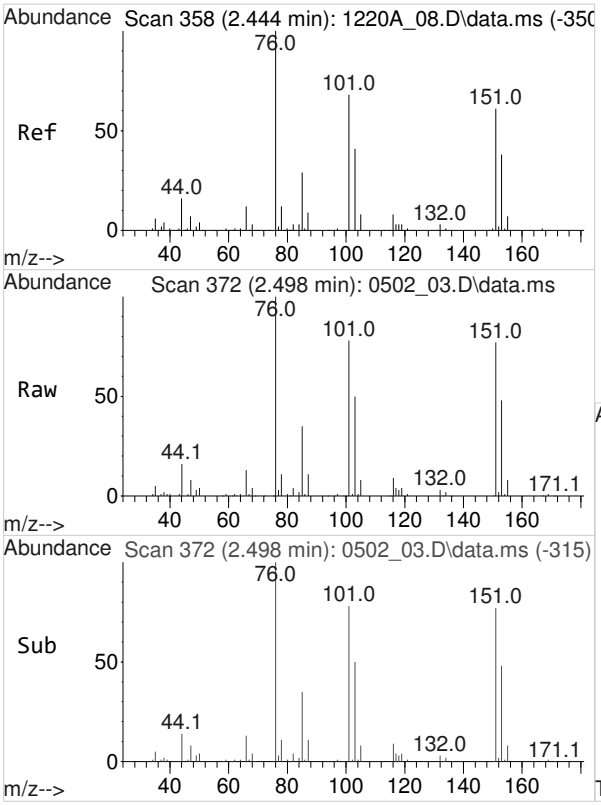


#26
2-Propanol
Concen: 3.0595738 ppbv
RT: 2.160 min Scan# 283
Delta R.T. 0.011 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 45 Resp: 14661

Ion	Ratio	Lower	Upper
45	100		
43	26.2	21.3	31.9

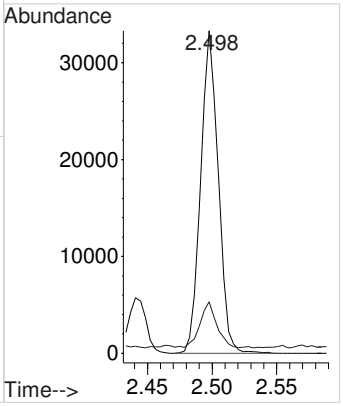


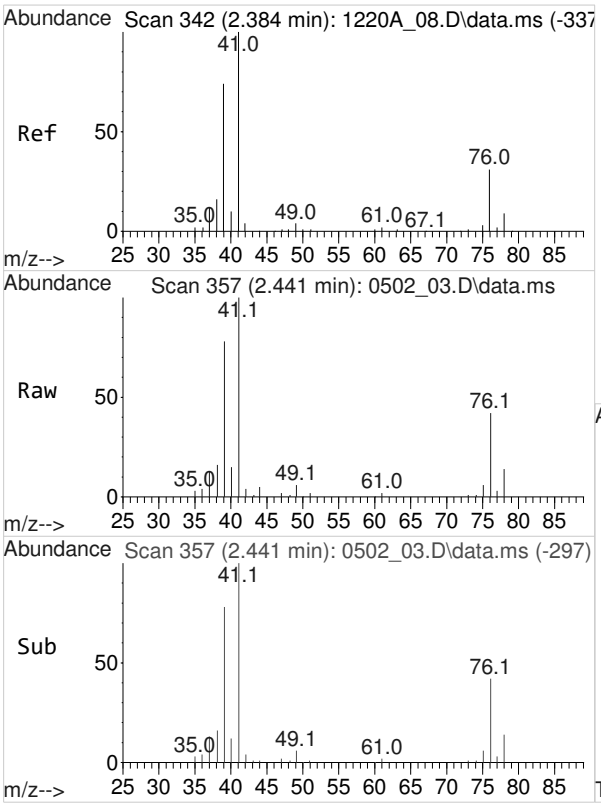


#27
Carbon Disulfide
Concen: 3.7751158 ppbv
RT: 2.498 min Scan# 372
Delta R.T. 0.016 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 76 Resp: 31526

Ion	Ratio	Lower	Upper
76	100		
44	13.3	11.1	16.7

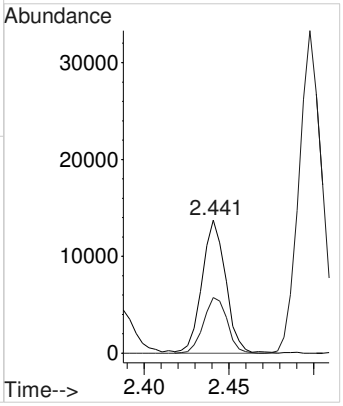


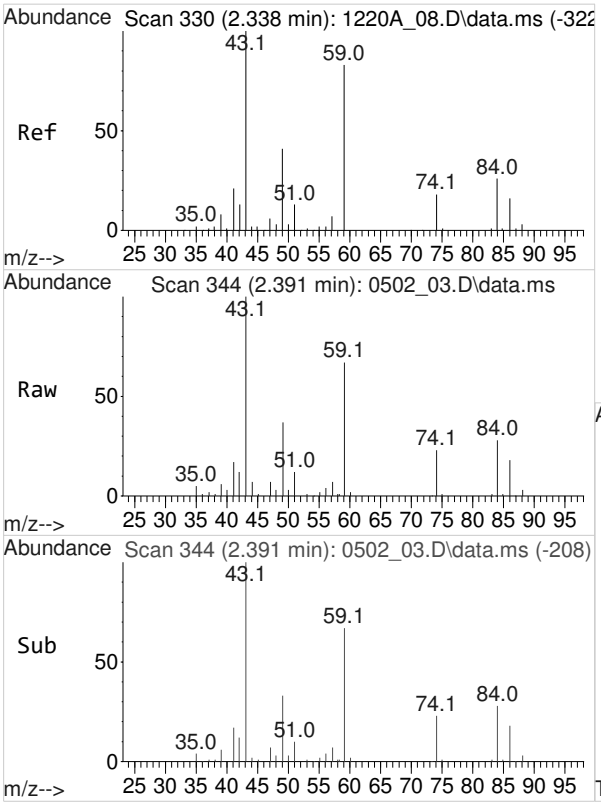


#28
Allyl Chloride
Concen: 3.6796353 ppbv
RT: 2.441 min Scan# 357
Delta R.T. 0.016 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 41 Resp: 13344

Ion	Ratio	Lower	Upper
41	100		
76	41.4	32.3	48.5

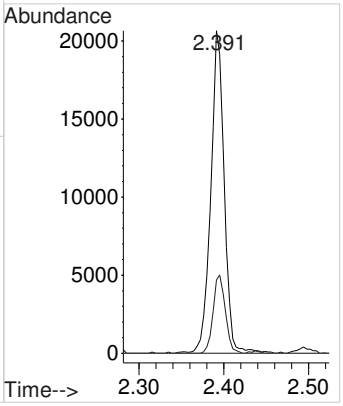


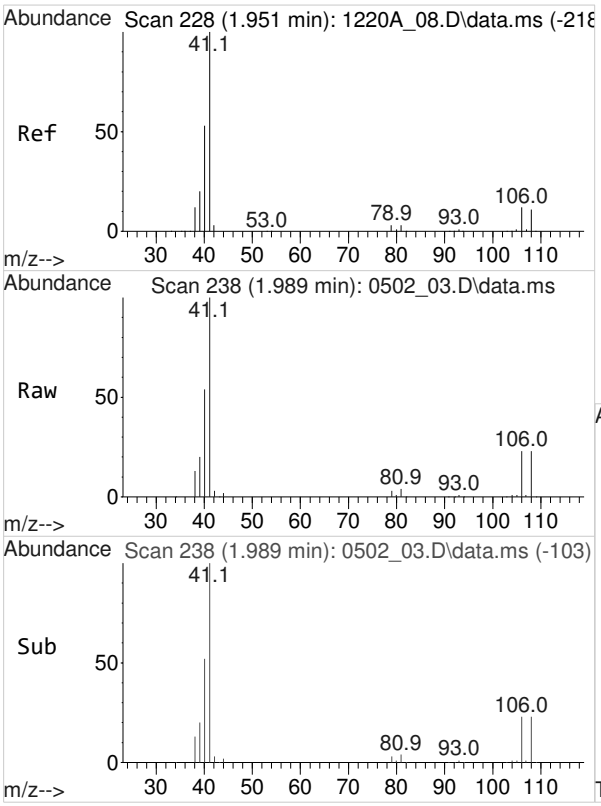


#29
METHYL ACETATE
Concen: 3.6690501 ppbv
RT: 2.391 min Scan# 344
Delta R.T. 0.015 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 43 Resp: 22536

Ion	Ratio	Lower	Upper
43	100		
74	21.8	18.2	27.4
29	0.0	0.0	0.0

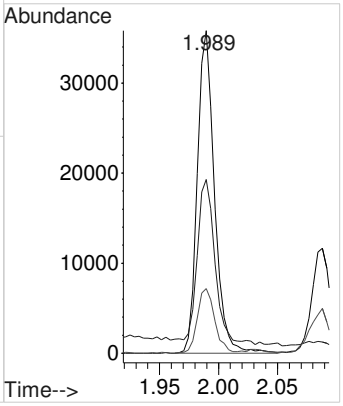


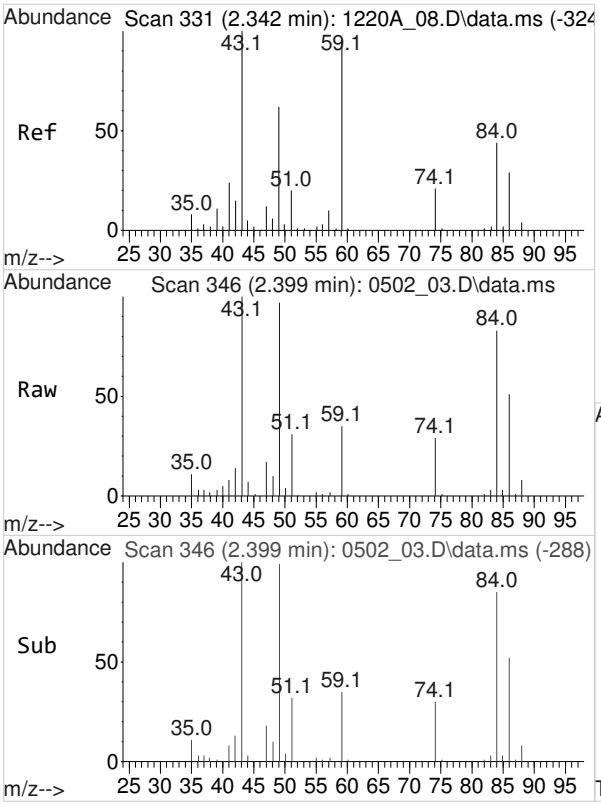


#30
ACETONITRILE
Concen: 15.8277458 ppbv
RT: 1.989 min Scan# 238
Delta R.T. 0.011 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 41 Resp: 36119

Ion	Ratio	Lower	Upper
41	100		
40	53.4	42.2	63.2
39	20.4	15.8	23.8

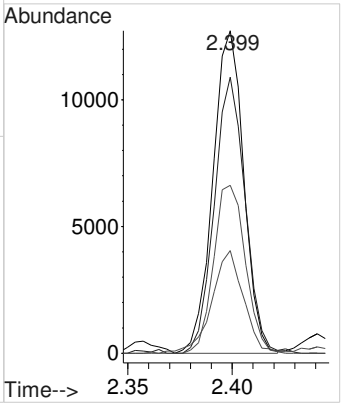


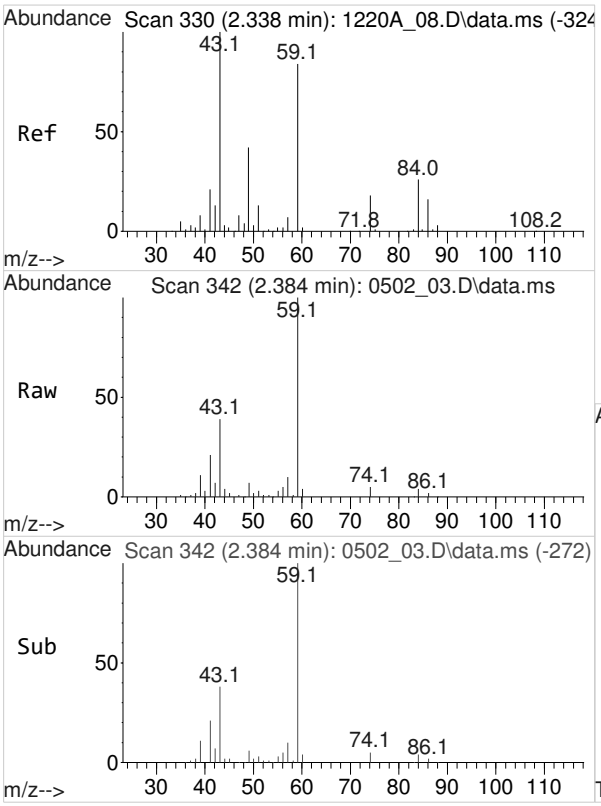


#31
Methylene Chloride
Concen: 3.9077676 ppbv
RT: 2.399 min Scan# 346
Delta R.T. 0.019 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 49 Resp: 13054

Ion	Ratio	Lower	Upper
49	100		
84	85.5	0.0	0.0#
86	53.6	0.0	0.0#
51	32.8	0.0	0.0#

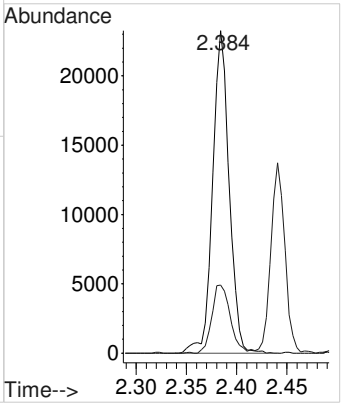


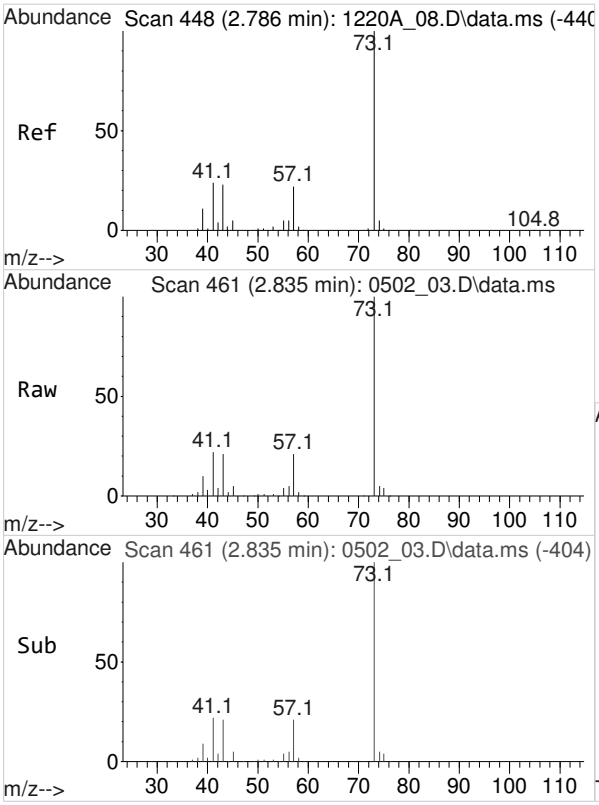


#32
TERT-BUTYL ALCOHOL
Concen: 3.5635697 ppbv
RT: 2.384 min Scan# 342
Delta R.T. 0.015 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 59 Resp: 26738

Ion	Ratio	Lower	Upper
59	100		
41	23.7	19.0	28.6

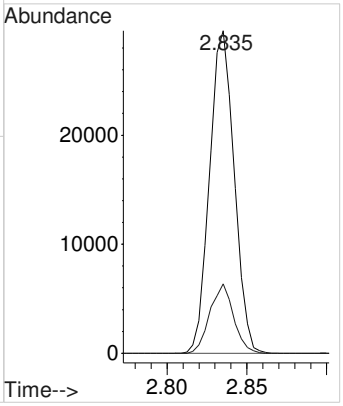


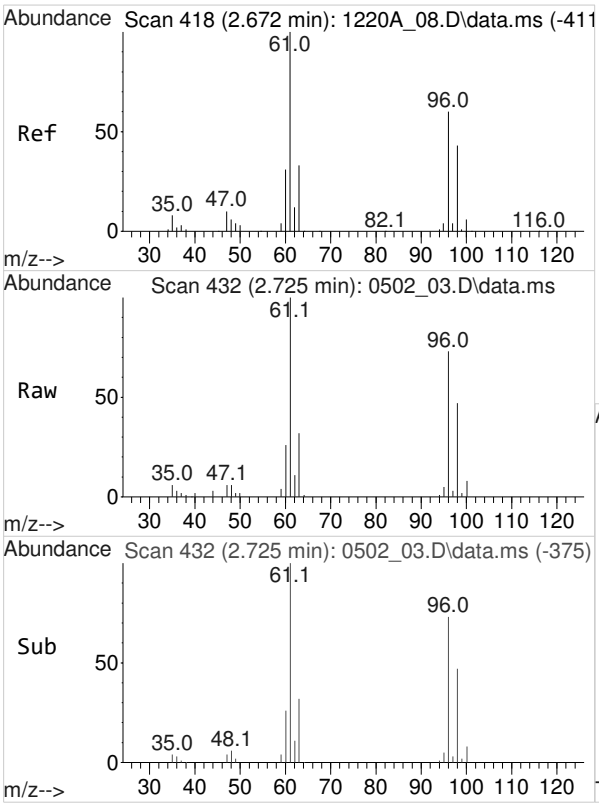


#33
Methyl Tert-Butyl Ether
Concen: 3.6980768 ppbv
RT: 2.835 min Scan# 461
Delta R.T. 0.015 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 73 Resp: 31607

Ion	Ratio	Lower	Upper
73	100		
57	20.6	16.9	25.3

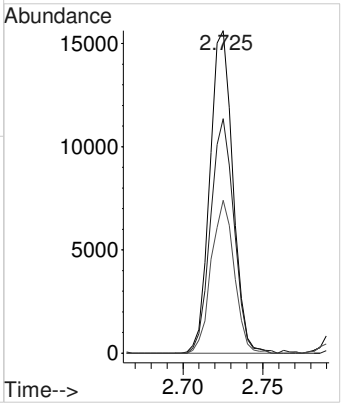


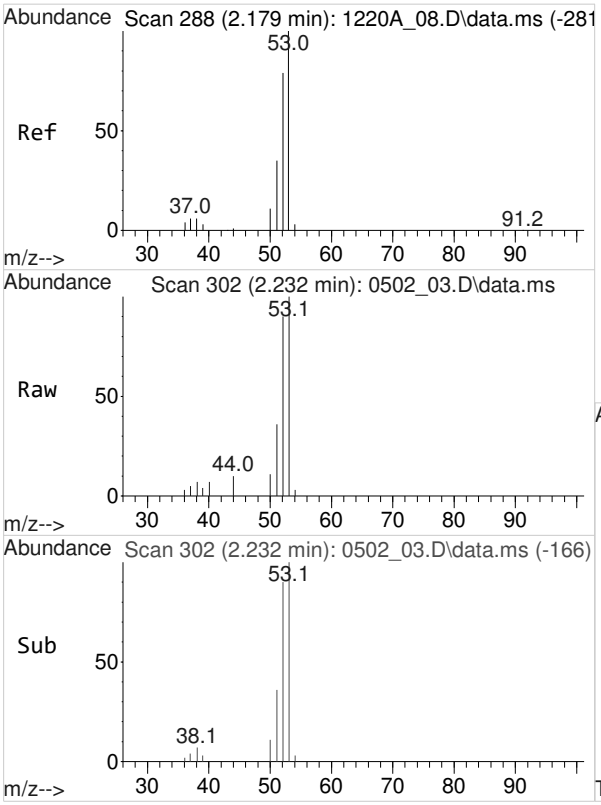


#34
Trans-1,2-Dichloroethene
Concen: 3.7372785 ppbv
RT: 2.725 min Scan# 432
Delta R.T. 0.015 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 61 Resp: 15553

Ion	Ratio	Lower	Upper
61	100		
96	74.5	61.5	92.3
98	47.6	41.2	61.8

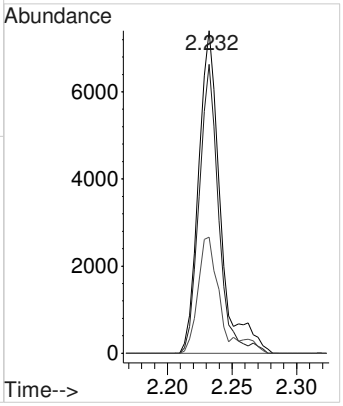


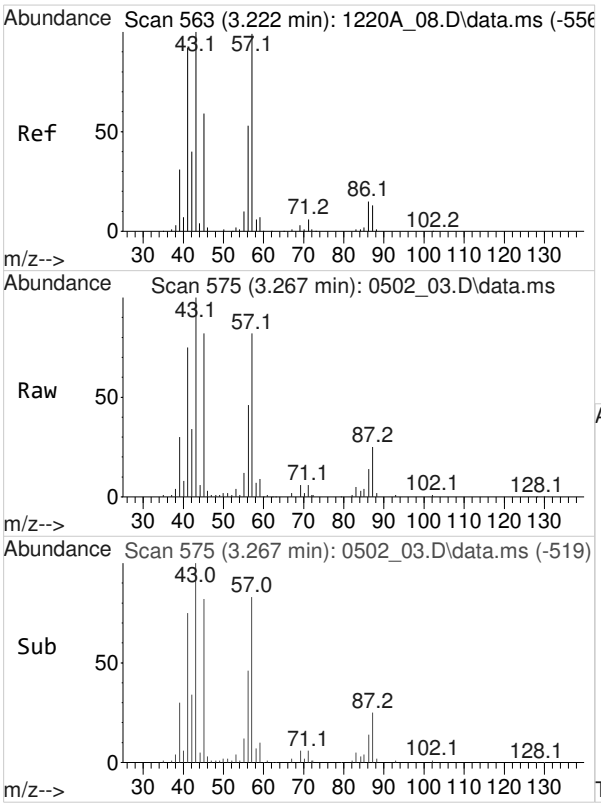


#35
ACRYLONITRILE
Concen: 3.5559197 ppbv
RT: 2.232 min Scan# 302
Delta R.T. 0.015 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 53 Resp: 8665

Ion	Ratio	Lower	Upper
53	100		
52	80.2	63.4	95.2
51	37.1	28.2	42.4

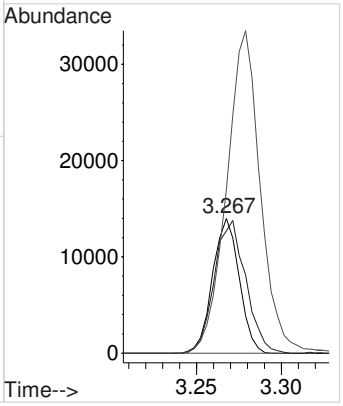


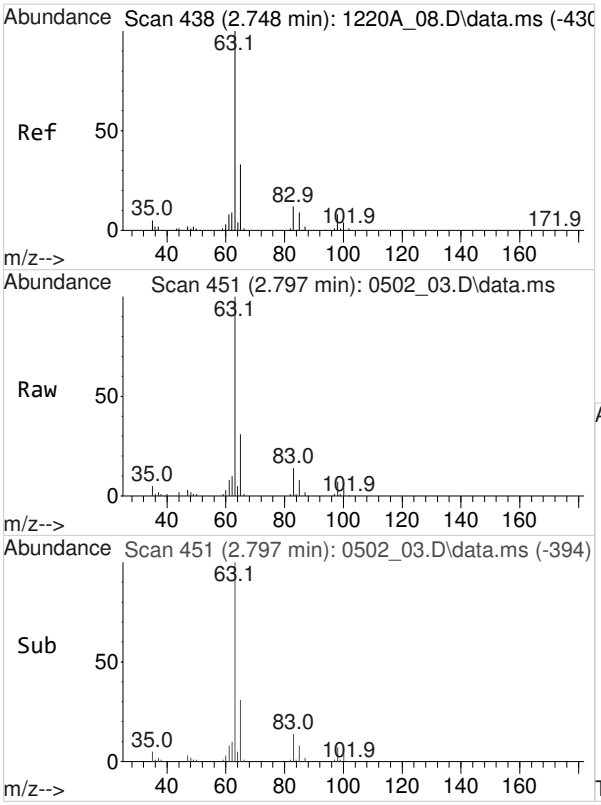


#36
n-Hexane
Concen: 3.7611204 ppbv
RT: 3.267 min Scan# 575
Delta R.T. 0.011 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 57 Resp: 15249

Ion	Ratio	Lower	Upper
57	100		
41	116.1	92.1	138.1
43	305.7	243.0	364.4

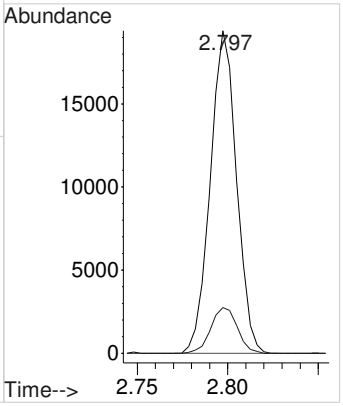


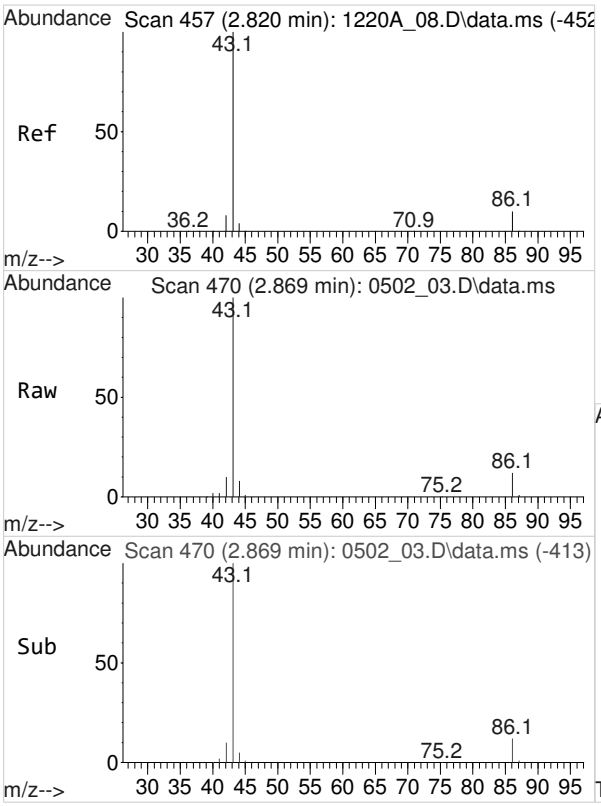


#37
1,1-Dichloroethane
Concen: 3.6505709 ppbv
RT: 2.797 min Scan# 451
Delta R.T. 0.015 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 63 Resp: 19487

Ion	Ratio	Lower	Upper
63	100		
83	14.3	11.1	16.7

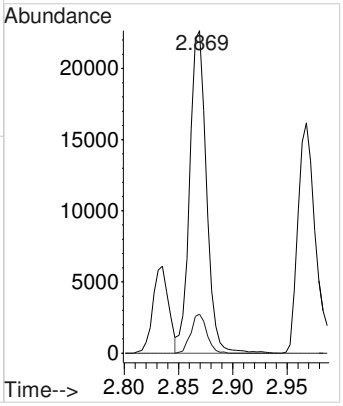


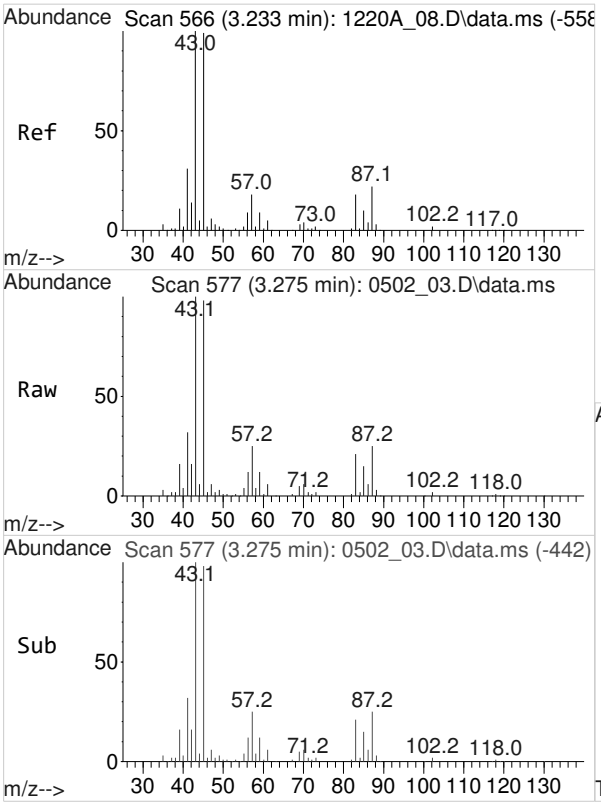


#38
Vinyl Acetate
Concen: 3.5746056 ppbv
RT: 2.869 min Scan# 470
Delta R.T. 0.015 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 43 Resp: 24208

Ion	Ratio	Lower	Upper
43	100		
86	11.3	0.0	0.0#

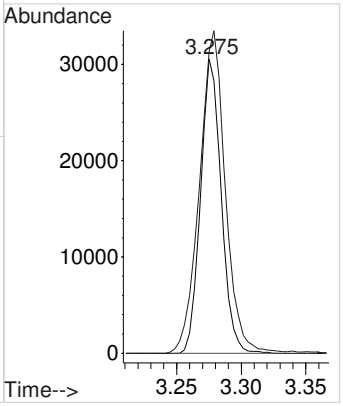


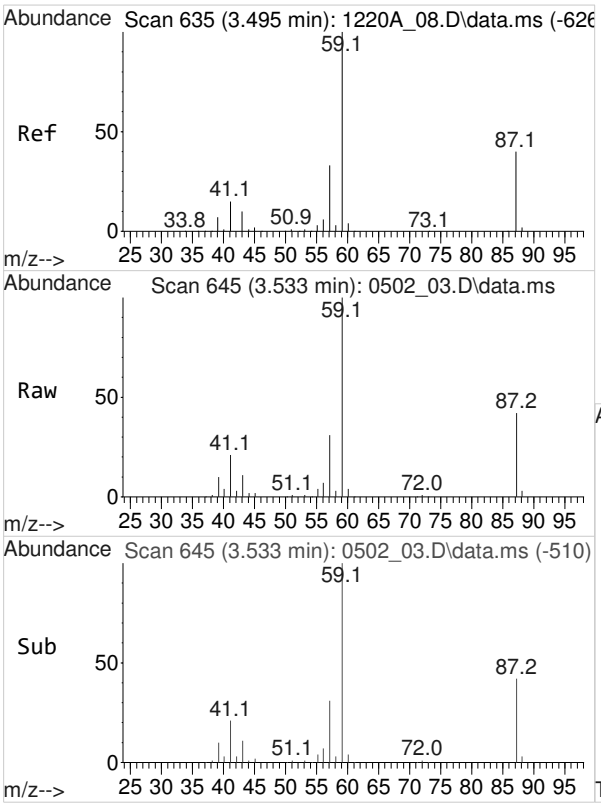


#39
DI-ISOPROPYL ETHER
Concen: 3.7276283 ppbv
RT: 3.275 min Scan# 577
Delta R.T. 0.011 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 45 Resp: 33874

Ion	Ratio	Lower	Upper
45	100		
43	137.6	106.2	159.2

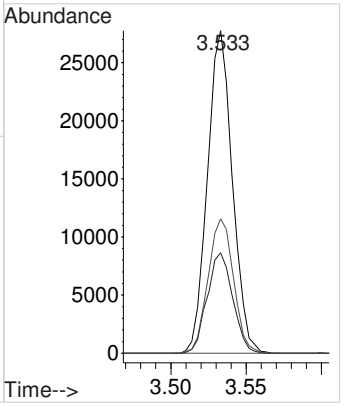


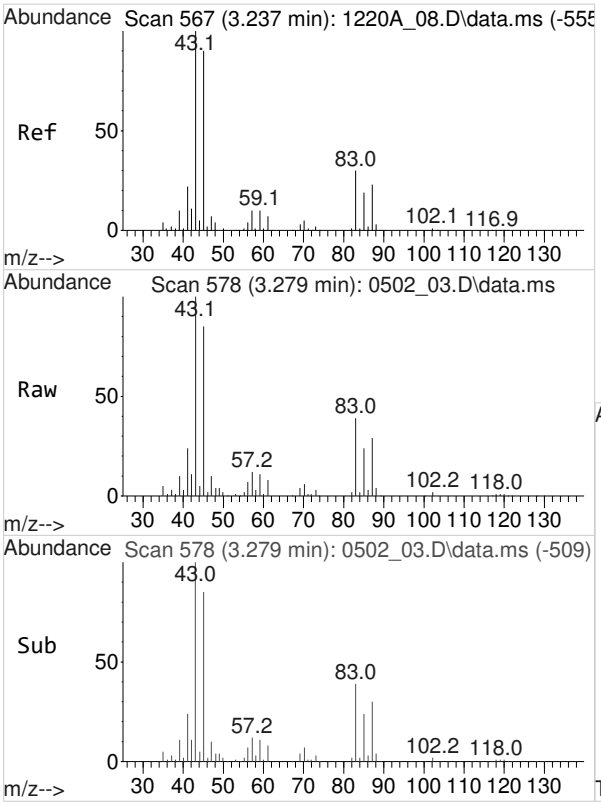


#40
ETHYL TERT-BUTYL ETHER
Concen: 3.8676548 ppbv
RT: 3.533 min Scan# 645
Delta R.T. 0.012 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 59 Resp: 31873

Ion	Ratio	Lower	Upper
59	100		
57	31.9	25.8	38.8
87	42.6	35.9	53.9

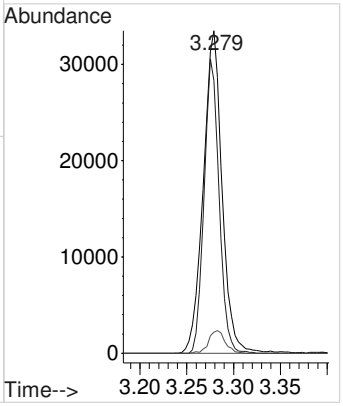


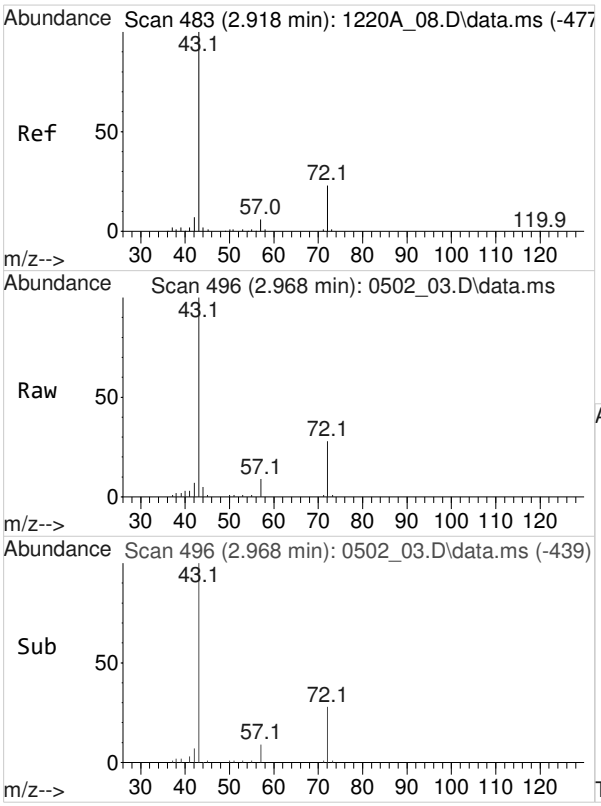


#41
ETHYL ACETATE
Concen: 3.7016185 ppbv
RT: 3.279 min Scan# 578
Delta R.T. 0.012 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 43 Resp: 46617

Ion	Ratio	Lower	Upper
43	100		
45	72.7	60.2	90.4
70	6.2	5.2	7.8

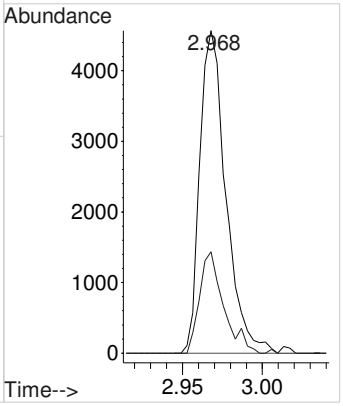


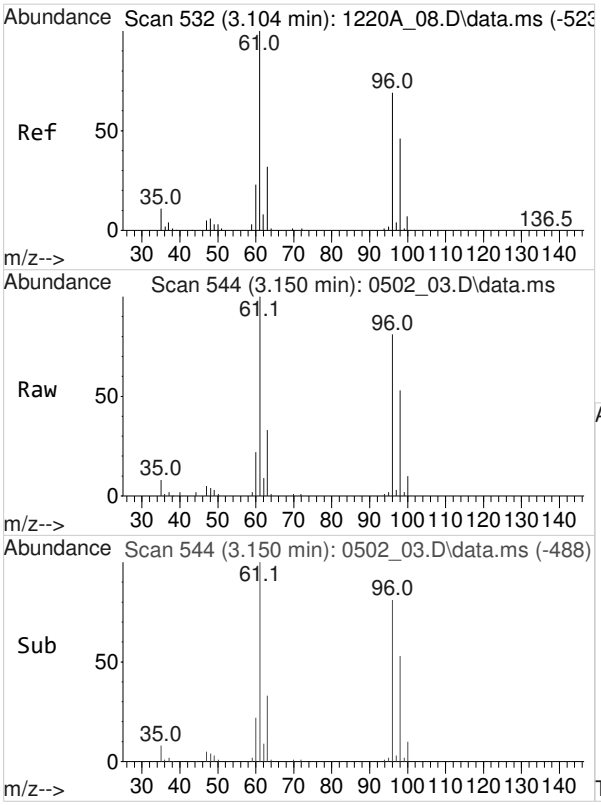


#42
2-Butanone (MEK)
Concen: 3.5335464 ppbv
RT: 2.968 min Scan# 496
Delta R.T. 0.015 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 72 Resp: 5167

Ion	Ratio	Lower	Upper
72	100		
57	29.0	23.0	34.6

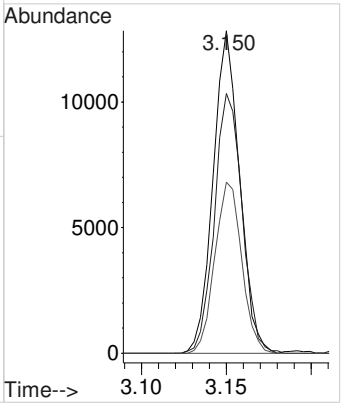


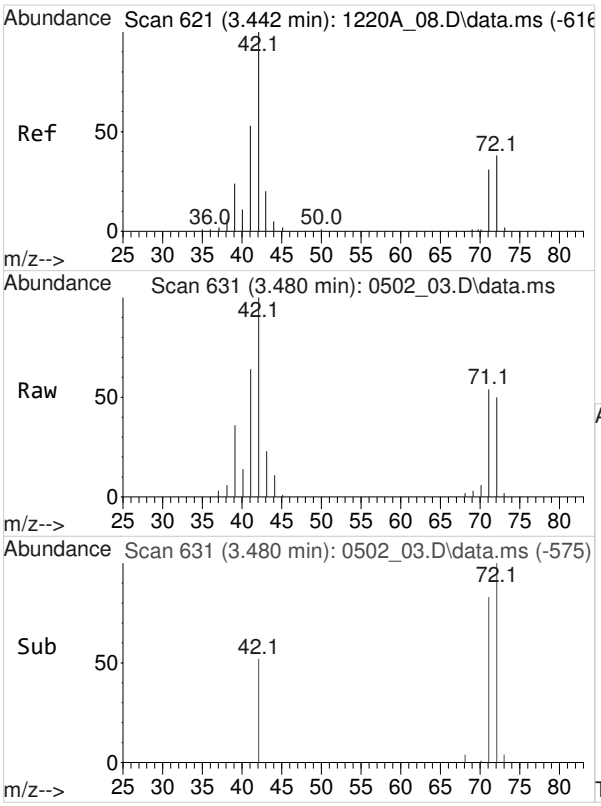


#43
cis-1,2-Dichloroethene
Concen: 3.7497779 ppbv
RT: 3.150 min Scan# 544
Delta R.T. 0.012 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 61 Resp: 13861

Ion	Ratio	Lower	Upper
61	100		
96	84.2	68.5	102.7
98	54.0	45.5	68.3

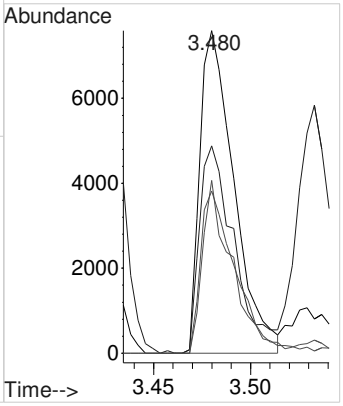


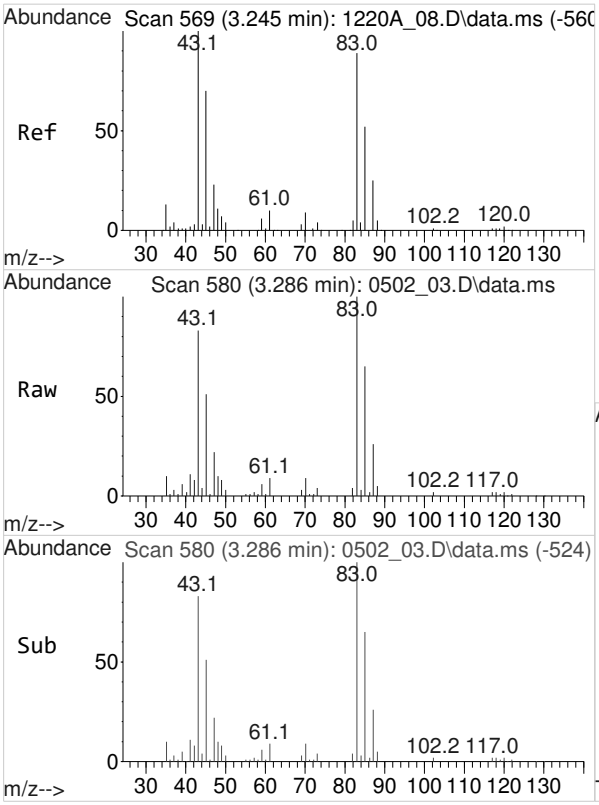


#44
Tetrahydrofuran
Concen: 3.6340107 ppbv
RT: 3.480 min Scan# 631
Delta R.T. 0.012 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 42 Resp: 9322

Ion	Ratio	Lower	Upper
42	100		
41	64.4	51.3	76.9
72	50.9	38.3	57.5
71	47.4	35.8	53.8

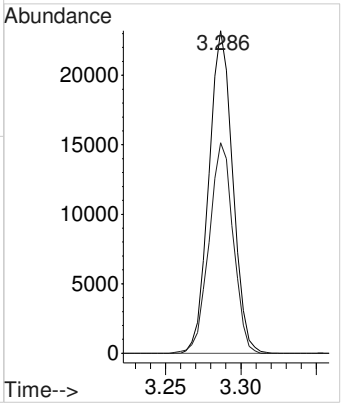


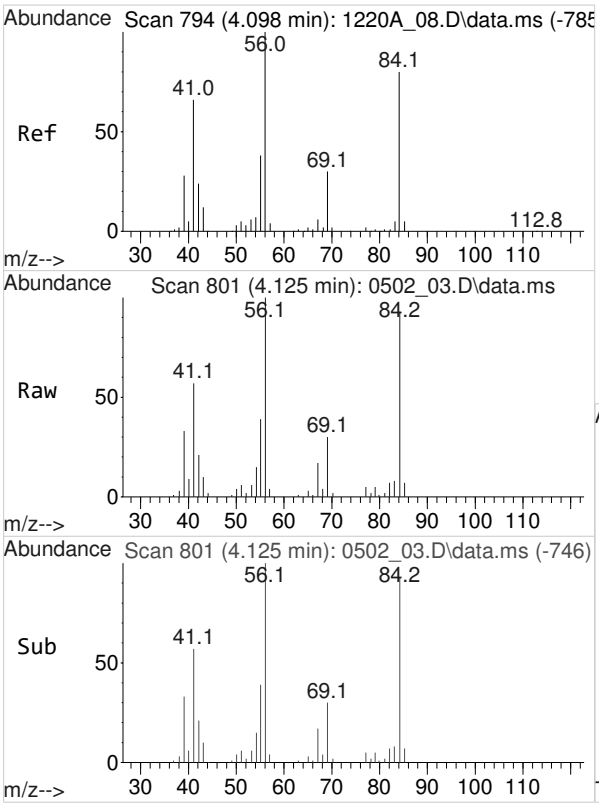


#45
Chloroform
Concen: 3.6578918 ppbv
RT: 3.286 min Scan# 580
Delta R.T. 0.011 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 83 Resp: 25491

Ion	Ratio	Lower	Upper
83	100		
85	66.2	52.9	79.3

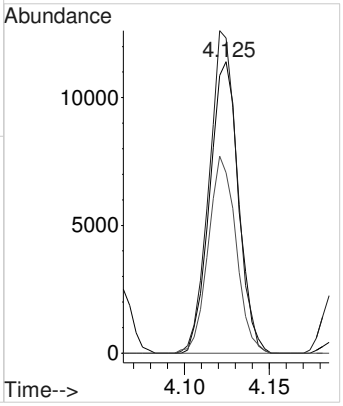


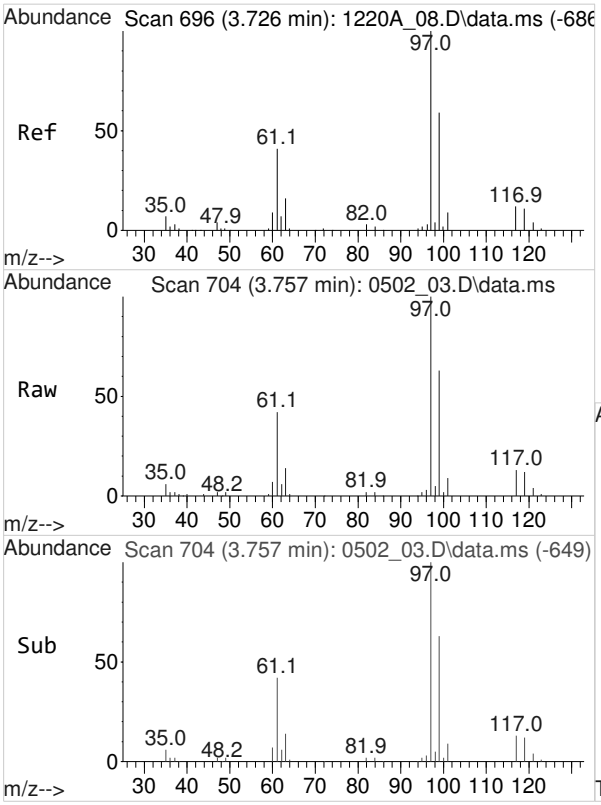


#46
Cyclohexane
Concen: 3.5072446 ppbv
RT: 4.125 min Scan# 801
Delta R.T. 0.008 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 84 Resp: 13445

Ion	Ratio	Lower	Upper
84	100		
56	108.0	81.2	121.8
41	65.1	48.6	72.8

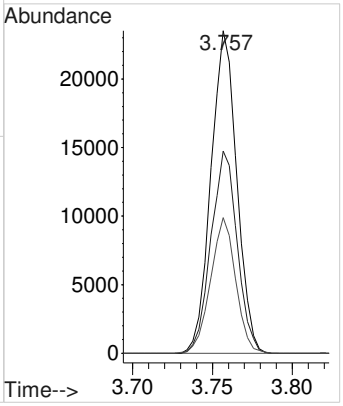


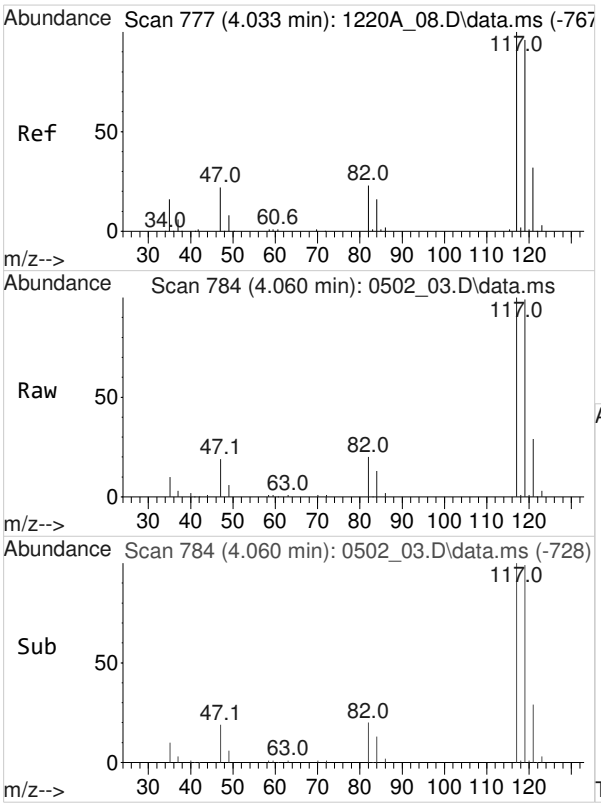


#47
1,1,1-Trichloroethane
Concen: 3.6682208 ppbv
RT: 3.757 min Scan# 704
Delta R.T. 0.008 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 97 Resp: 26309

Ion	Ratio	Lower	Upper
97	100		
99	63.7	50.7	76.1
61	40.9	33.0	49.4

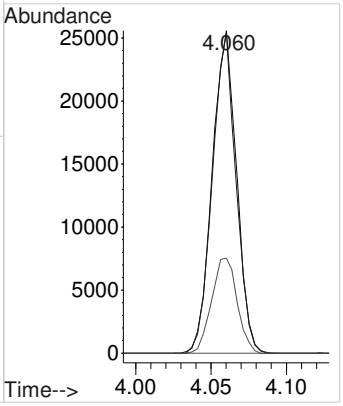


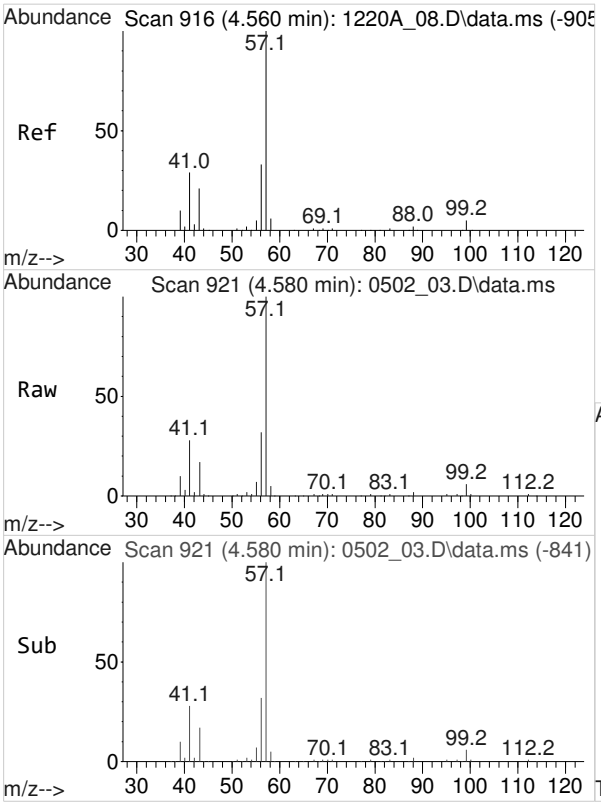


#48
Carbon Tetrachloride
Concen: 3.6263320 ppbv
RT: 4.060 min Scan# 784
Delta R.T. 0.011 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:117 Resp: 28627

Ion	Ratio	Lower	Upper
117	100		
119	96.6	79.2	118.8
121	31.0	25.2	37.8

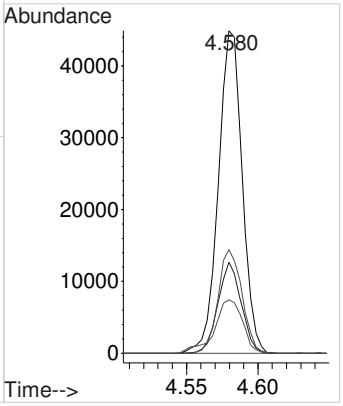


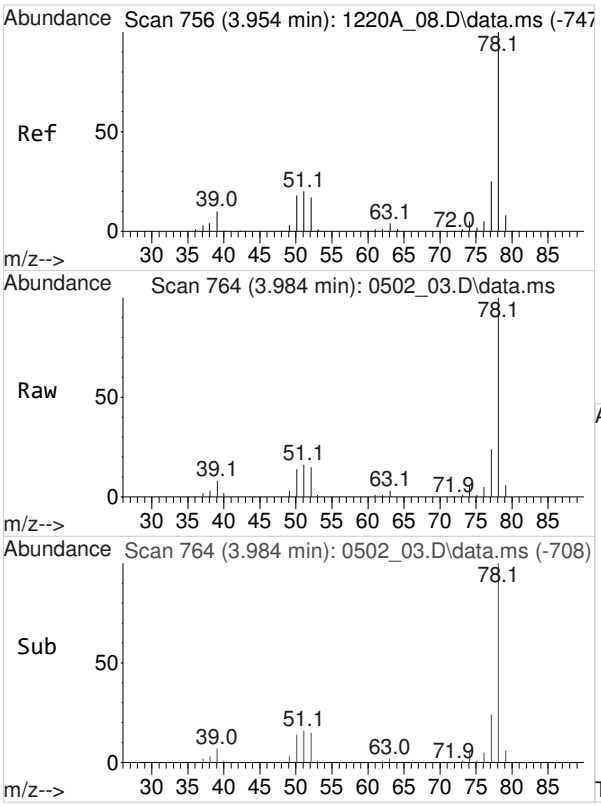


#49
2,2,4-Trimethylpentane
Concen: 3.8121187 ppbv
RT: 4.580 min Scan# 921
Delta R.T. 0.004 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 57 Resp: 51845

Ion	Ratio	Lower	Upper
57	100		
41	27.4	22.3	33.5
43	19.6	15.2	22.8
56	32.3	25.8	38.8

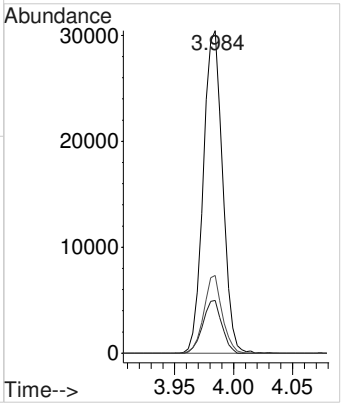


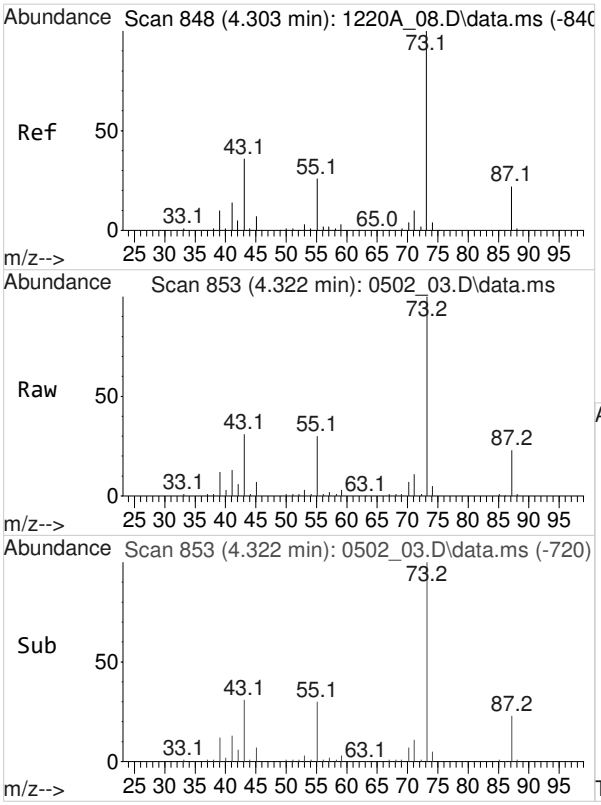


#51
Benzene
Concen: 3.5728486 ppbv
RT: 3.984 min Scan# 764
Delta R.T. 0.011 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 78 Resp: 34514

Ion	Ratio	Lower	Upper
78	100		
51	16.1	13.0	19.4
77	22.9	19.0	28.4

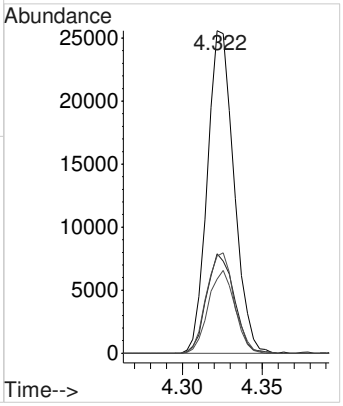


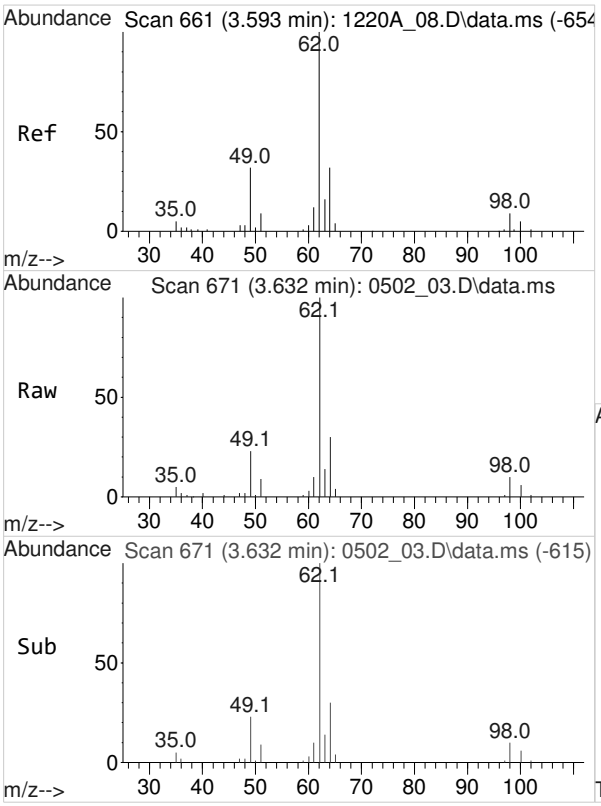


#52
TERT-AMYL METHYL ETHER
Concen: 3.5047927 ppbv
RT: 4.322 min Scan# 853
Delta R.T. 0.004 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 73 Resp: 29480

Ion	Ratio	Lower	Upper
73	100		
43	32.0	25.0	37.6
55	32.5	25.0	37.4
87	25.7	20.5	30.7

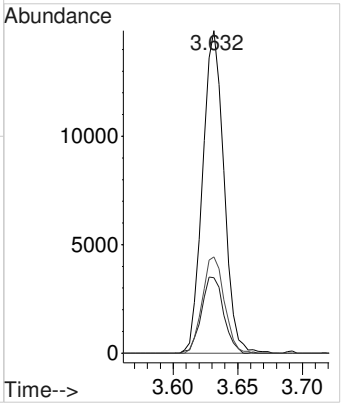


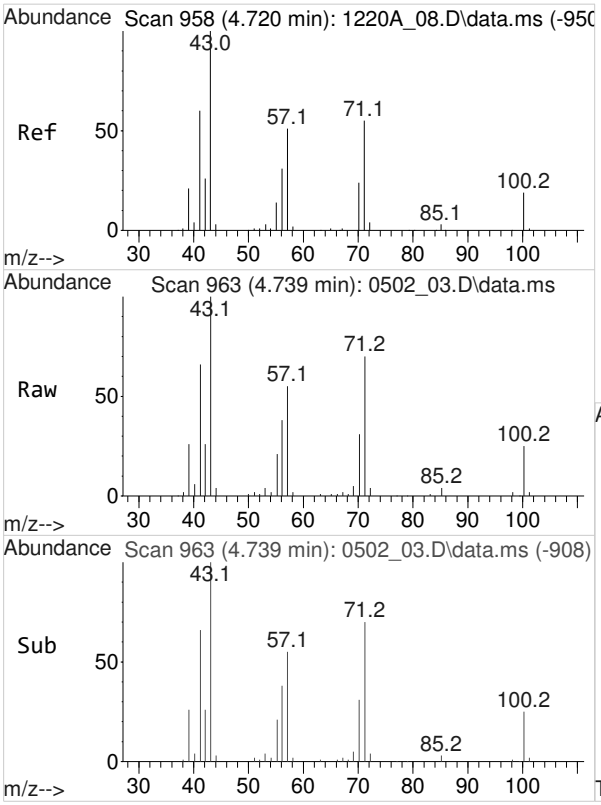


#53
1,2-Dichloroethane
Concen: 3.7278185 ppbv
RT: 3.632 min Scan# 671
Delta R.T. 0.012 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 62 Resp: 17015

Ion	Ratio	Lower	Upper
62	100		
49	24.5	20.1	30.1
64	30.9	24.0	36.0

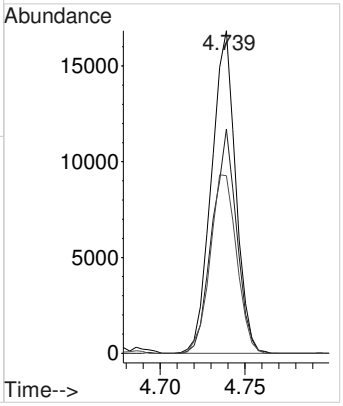


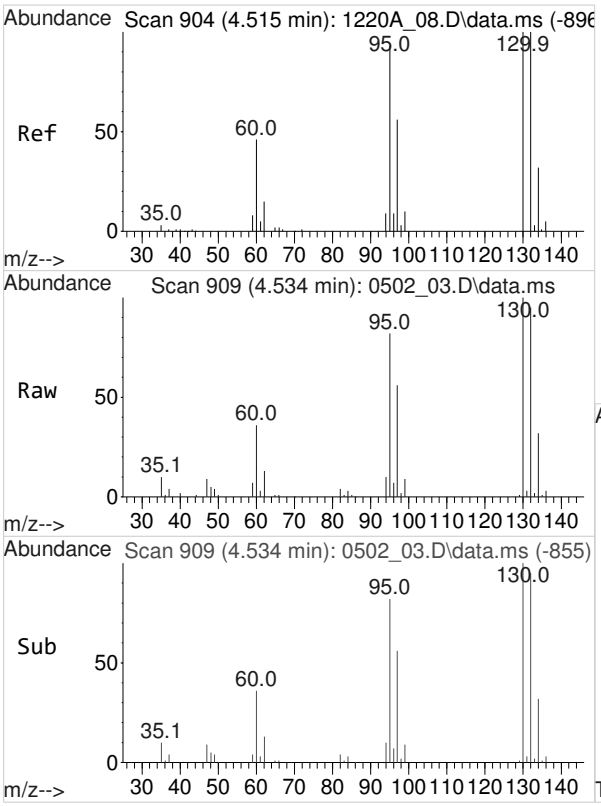


#54
Heptane
Concen: 3.6944596 ppbv
RT: 4.739 min Scan# 963
Delta R.T. 0.008 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 43 Resp: 16592

Ion	Ratio	Lower	Upper
43	100		
71	69.3	56.6	84.8
57	60.8	47.5	71.3

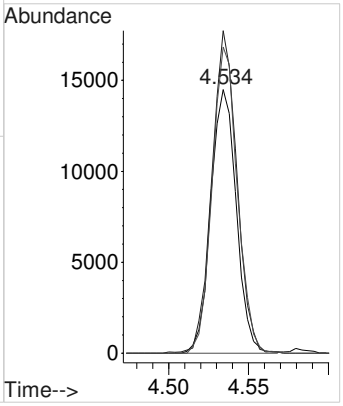


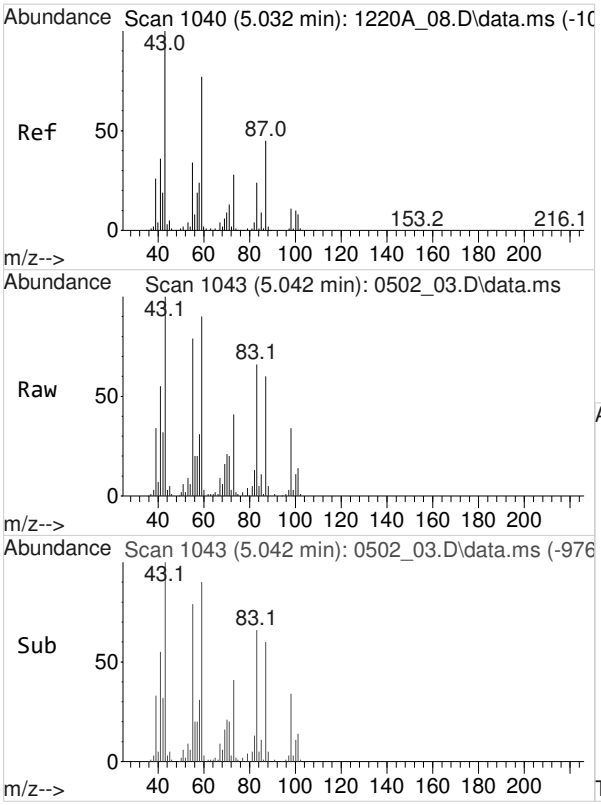


#55
Trichloroethene
Concen: 3.5928007 ppbv
RT: 4.534 min Scan# 909
Delta R.T. 0.004 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 95 Resp: 16036

Ion	Ratio	Lower	Upper
95	100		
130	120.0	94.1	141.1
132	114.7	91.5	137.3

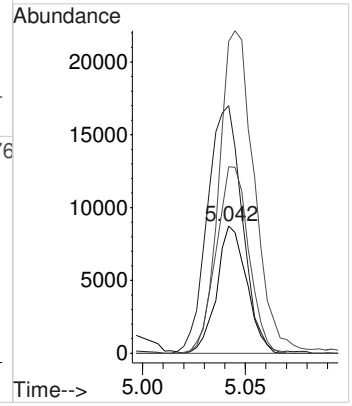


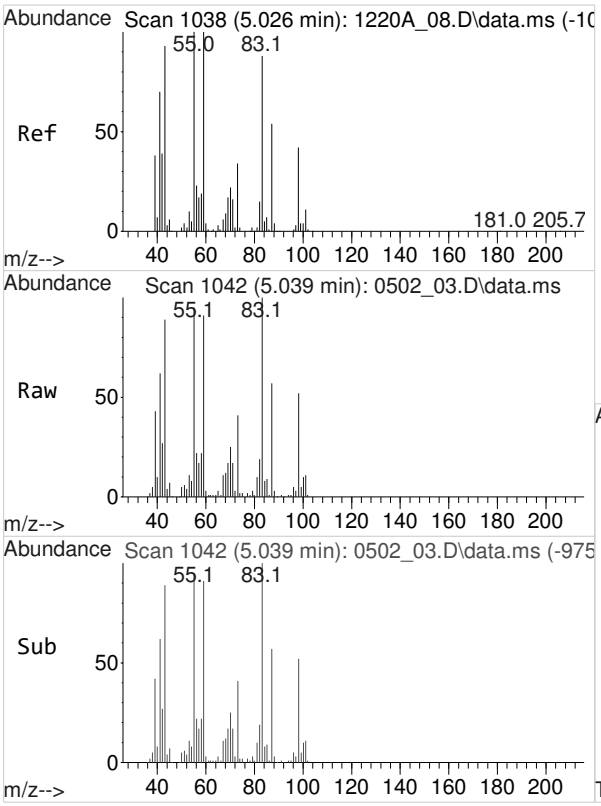


#56
TERT-AMYL ETHYL ETHER
Concen: 3.8145853 ppbv
RT: 5.042 min Scan# 1043
Delta R.T. 0.003 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 73 Resp: 8815

Ion	Ratio	Lower	Upper
73	100		
55	227.7	211.0	316.6
87	159.6	124.6	187.0
43	302.6	246.9	370.3

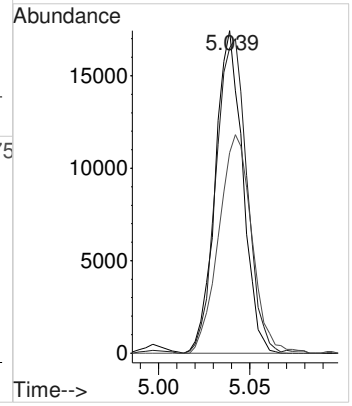


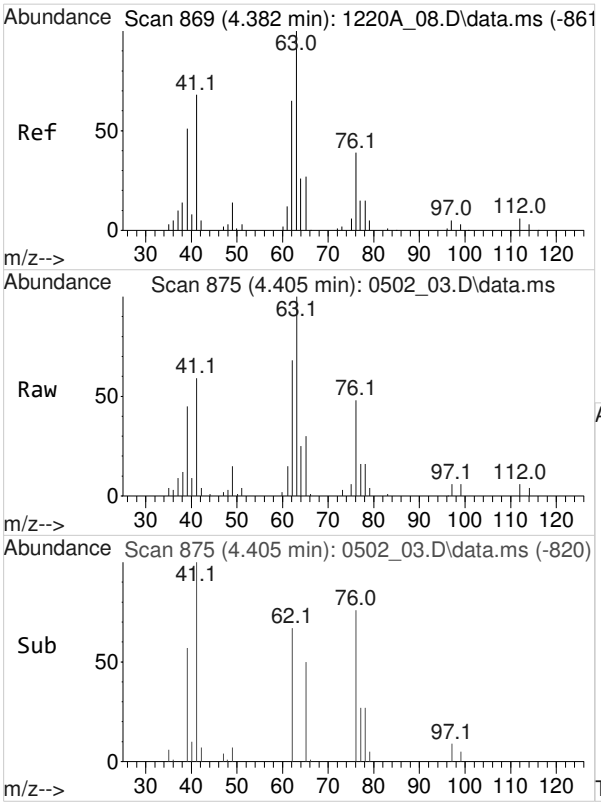


#57
METHYL CYCLOHEXANE
Concen: 3.8153886 ppbv
RT: 5.039 min Scan# 1042
Delta R.T. 0.004 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 83 Resp: 18217

Ion	Ratio	Lower	Upper
83	100		
55	110.2	100.2	150.2
41	81.6	71.8	107.6

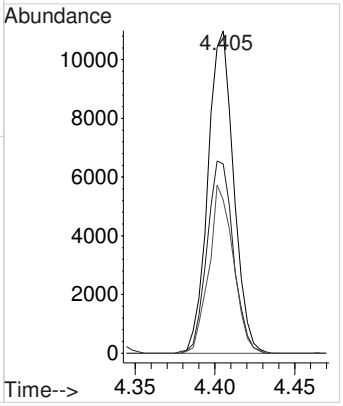


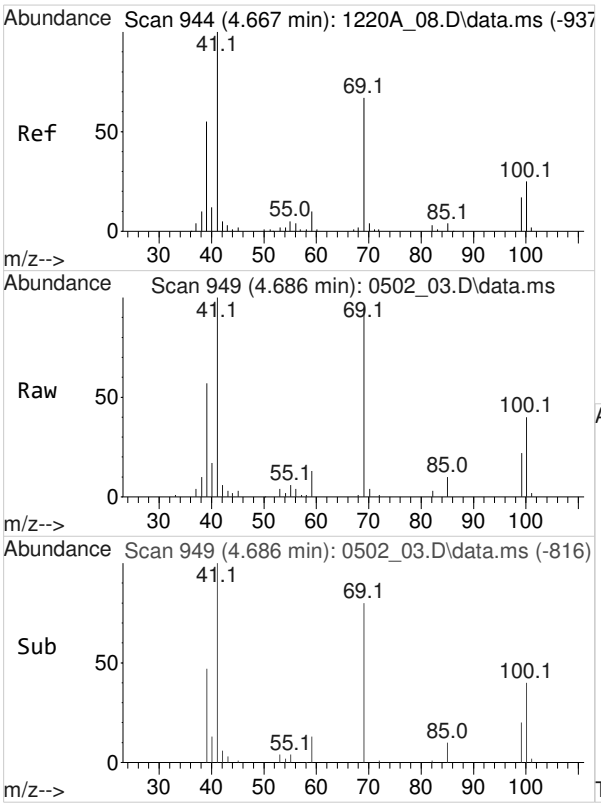


#58
1,2-Dichloropropane
Concen: 3.6810424 ppbv
RT: 4.405 min Scan# 875
Delta R.T. 0.008 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 63 Resp: 12240

Ion	Ratio	Lower	Upper
63	100		
41	61.0	48.3	72.5
76	49.5	38.2	57.4

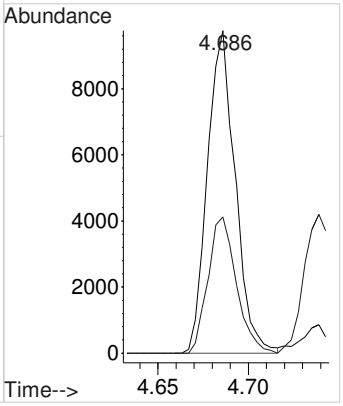


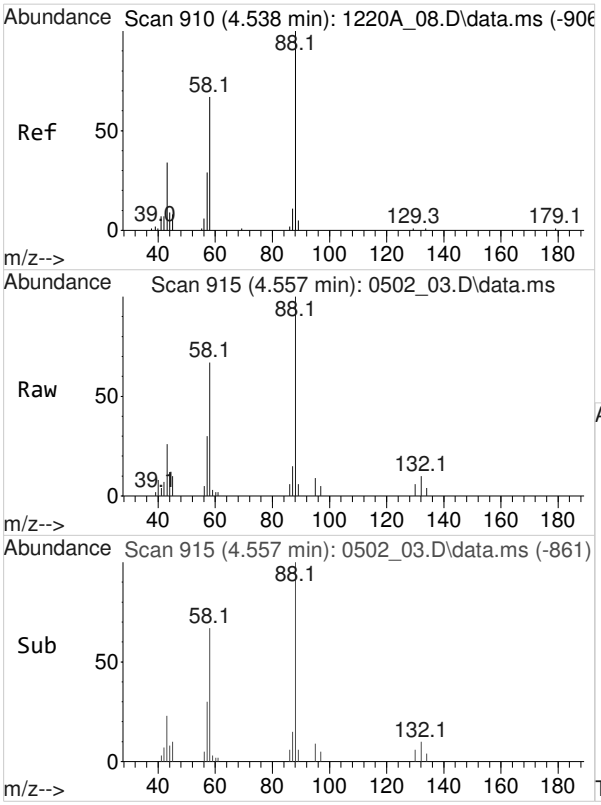


#59
Methyl Methacrylate
Concen: 3.5794058 ppbv
RT: 4.686 min Scan# 949
Delta R.T. 0.004 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 69 Resp: 10385

Ion	Ratio	Lower	Upper
69	100		
100	43.1	33.9	50.9

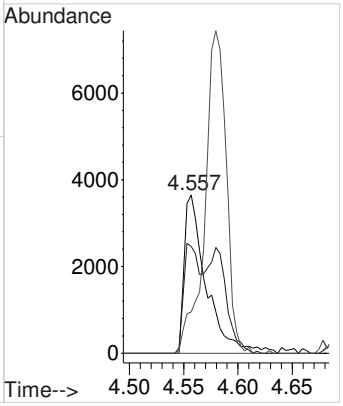


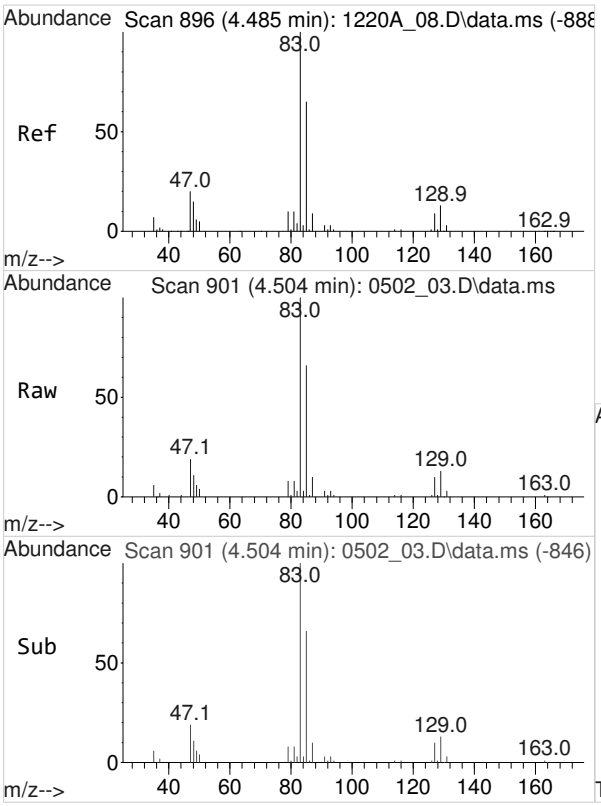


#60
1,4-Dioxane
Concen: 2.6946047 ppbv
RT: 4.557 min Scan# 915
Delta R.T. 0.004 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 88 Resp: 5104

Ion	Ratio	Lower	Upper
88	100		
58	55.0	37.2	55.8
43	0.0	0.0	0.0

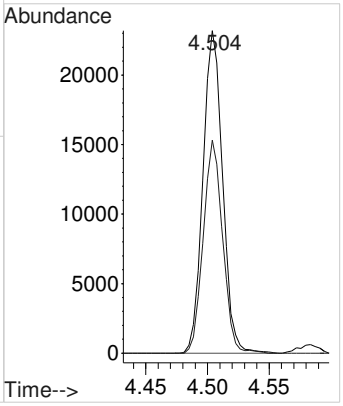


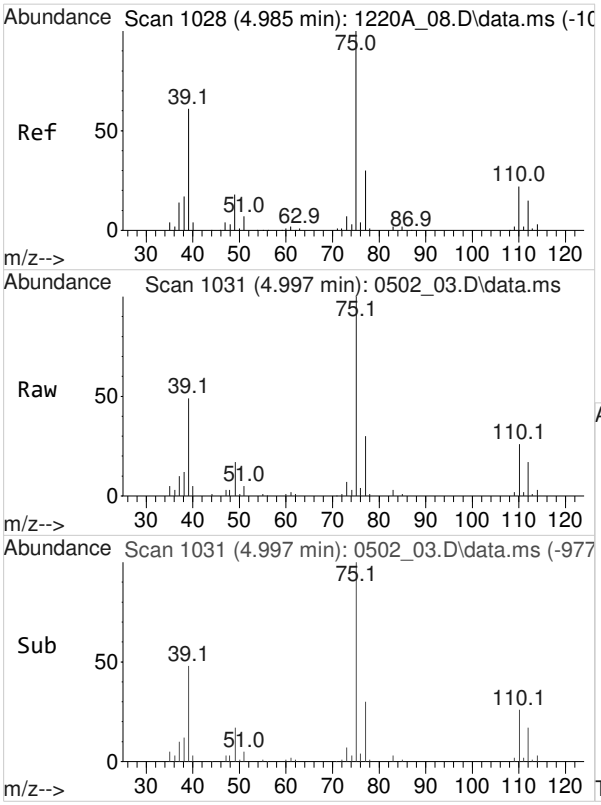


#61
Bromodichloromethane
Concen: 3.5534641 ppbv
RT: 4.504 min Scan# 901
Delta R.T. 0.008 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 83 Resp: 25569

Ion	Ratio	Lower	Upper
83	100		
85	65.2	49.6	74.4

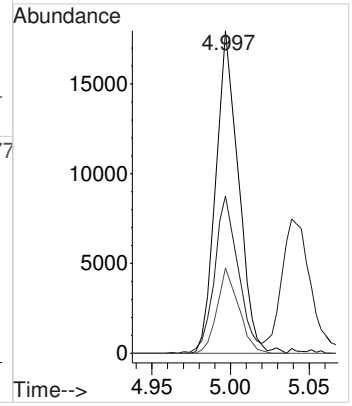


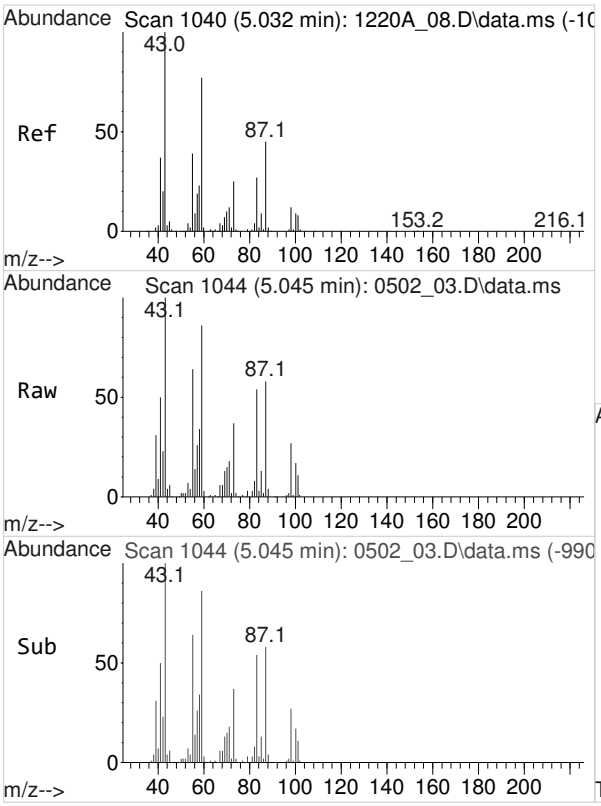


#62
cis-1,3-Dichloropropene
Concen: 3.0929268 ppbv
RT: 4.997 min Scan# 1031
Delta R.T. 0.004 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 75 Resp: 13483

Ion	Ratio	Lower	Upper
75	100		
39	55.2	43.5	65.3
110	25.2	20.3	30.5

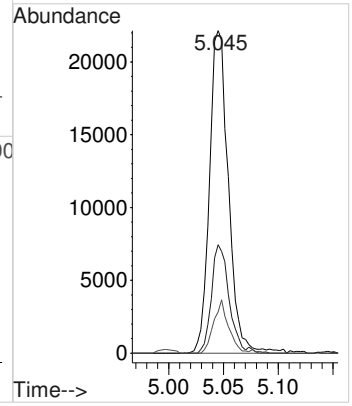


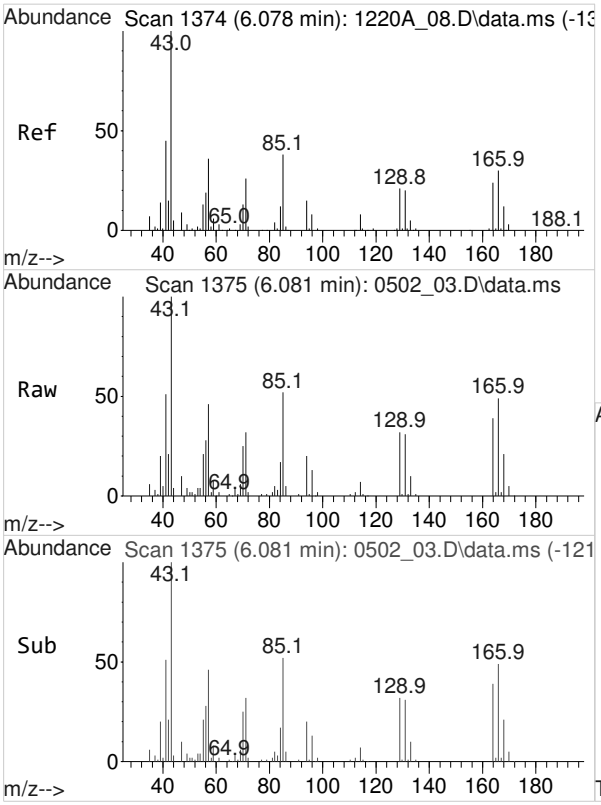


#63
4-Methyl-2-Pentanone (MIBK)
Concen: 3.4230529 ppbv
RT: 5.045 min Scan# 1044
Delta R.T. 0.003 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 43 Resp: 26676

Ion	Ratio	Lower	Upper
43	100		
58	31.5	23.6	35.4
85	13.1	11.8	17.6

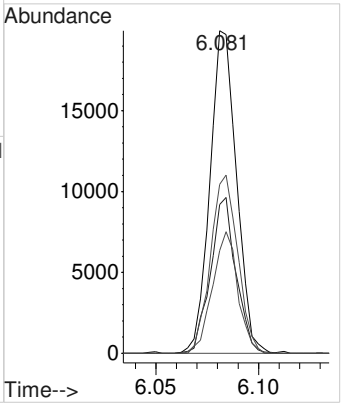


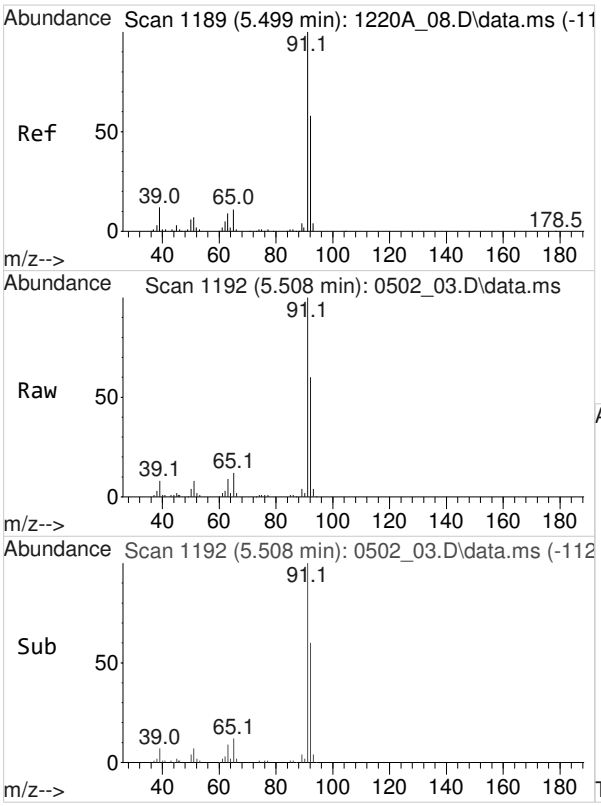


#64
n-OCTANE
Concen: 3.5632106 ppbv
RT: 6.081 min Scan# 1375
Delta R.T. 0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 43 Resp: 17865

Ion	Ratio	Lower	Upper
43	100		
57	46.3	35.3	52.9
85	56.3	45.4	68.0
71	35.9	28.9	43.3

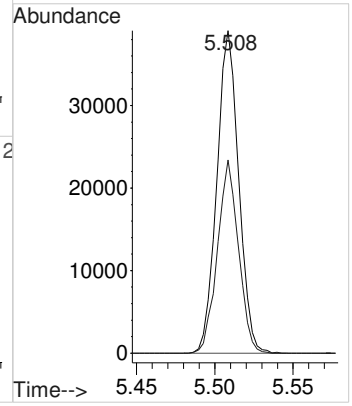


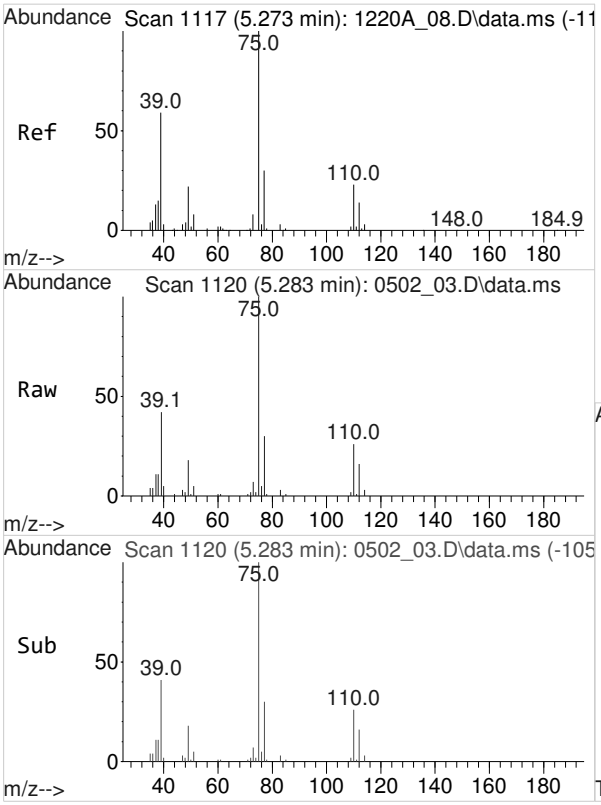


#65
Toluene
Concen: 3.6511142 ppbv
RT: 5.508 min Scan# 1192
Delta R.T. 0.003 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 91 Resp: 37838

Ion	Ratio	Lower	Upper
91	100		
92	57.7	47.0	70.4

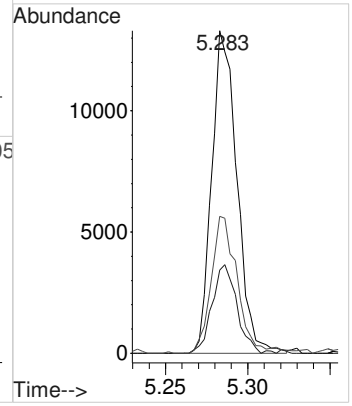


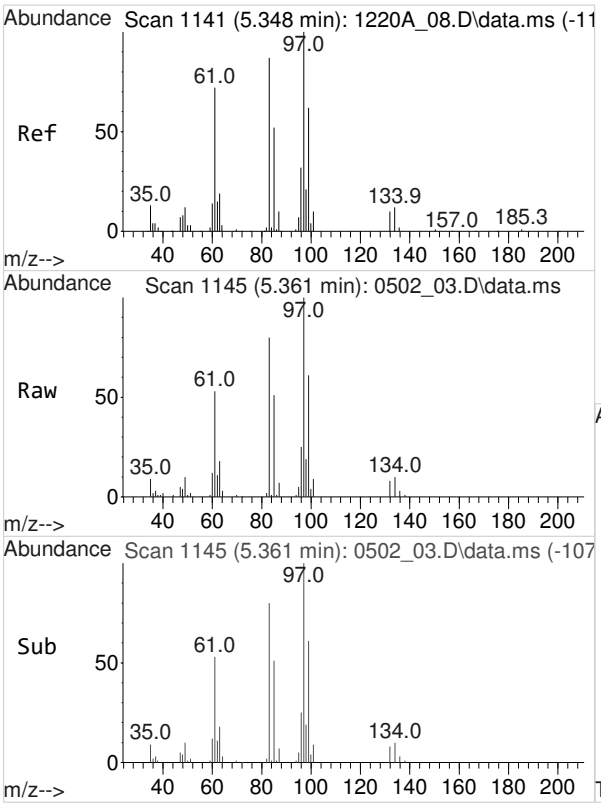


#66
trans-1,3-Dichloropropene
Concen: 3.7408149 ppbv
RT: 5.283 min Scan# 1120
Delta R.T. -0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 75 Resp: 14113

Ion	Ratio	Lower	Upper
75	100		
110	27.1	19.4	29.0
39	44.1	36.7	55.1

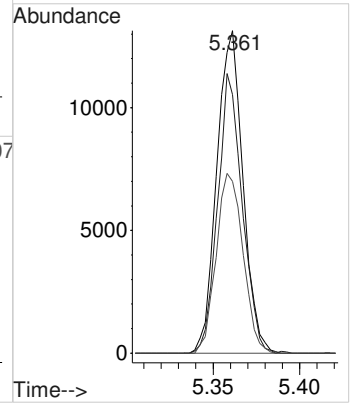


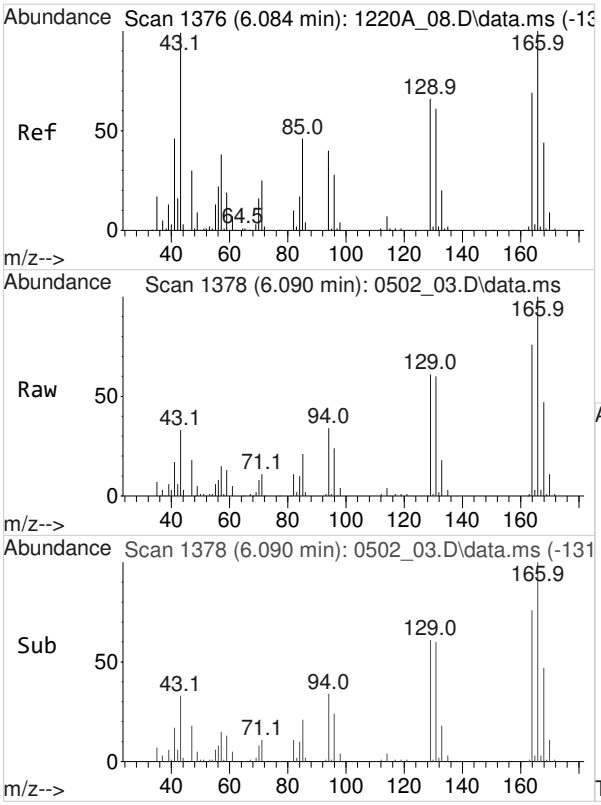


#67
1,1,2-Trichloroethane
Concen: 3.7814628 ppbv
RT: 5.361 min Scan# 1145
Delta R.T. 0.006 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 97 Resp: 13718

Ion	Ratio	Lower	Upper
97	100		
83	81.3	64.1	96.1
61	57.3	46.6	70.0

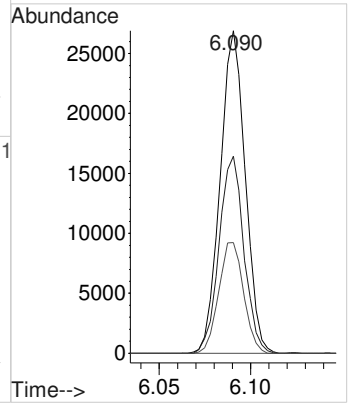


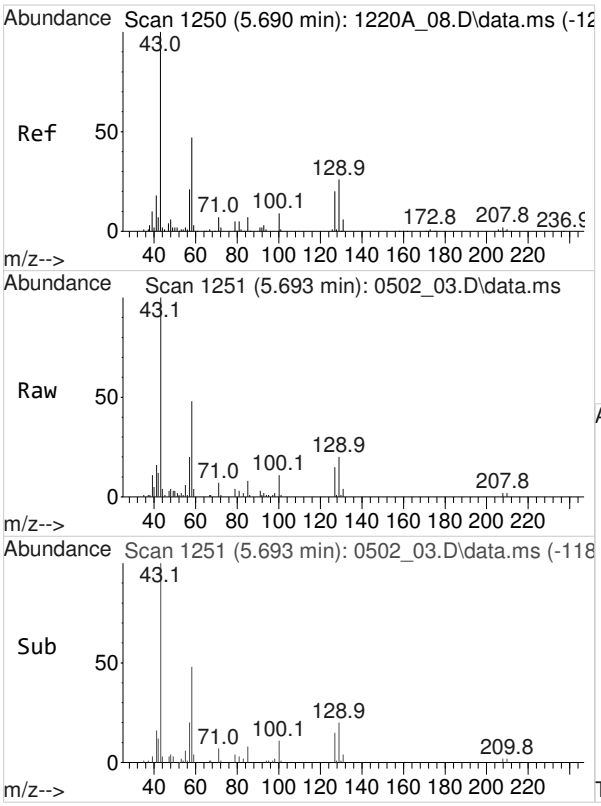


#68
Tetrachloroethene
Concen: 3.6920055 ppbv
RT: 6.090 min Scan# 1378
Delta R.T. 0.003 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:166 Resp: 25663

Ion	Ratio	Lower	Upper
166	100		
129	60.5	48.8	73.2
94	34.1	27.4	41.2

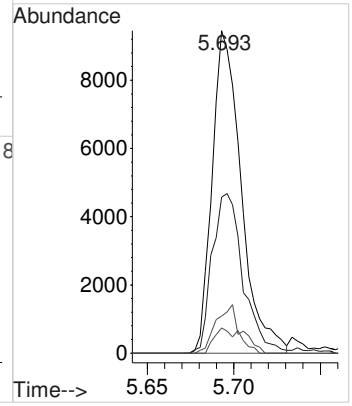


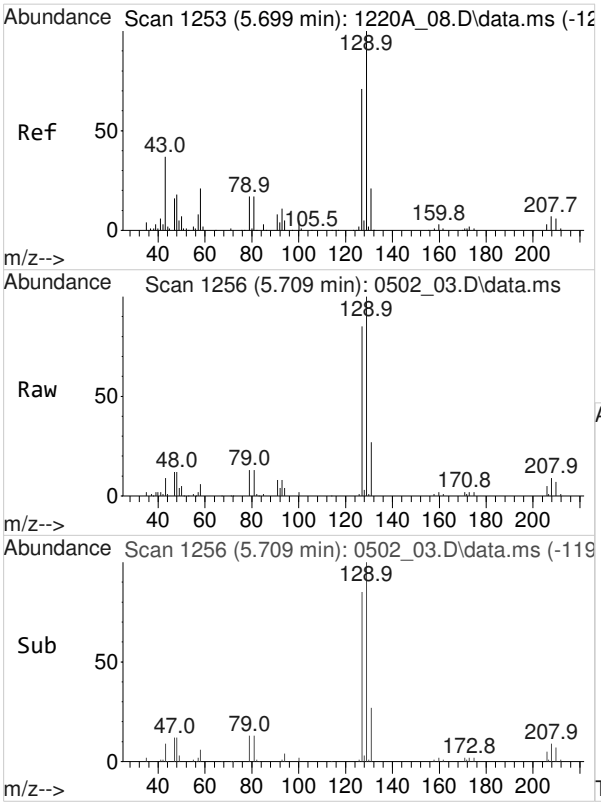


#69
Methyl Butyl Ketone
Concen: 2.6841293 ppbv
RT: 5.693 min Scan# 1251
Delta R.T. -0.003 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 43 Resp: 11000

Ion	Ratio	Lower	Upper
43	100		
58	52.5	45.0	67.4
85	7.0	6.8	10.2
100	13.0	11.0	16.4

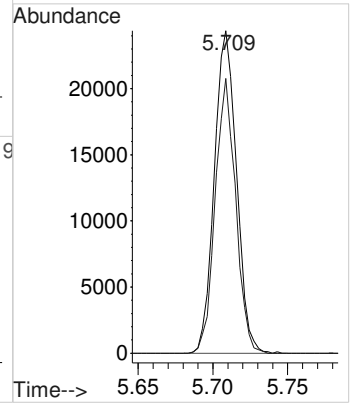


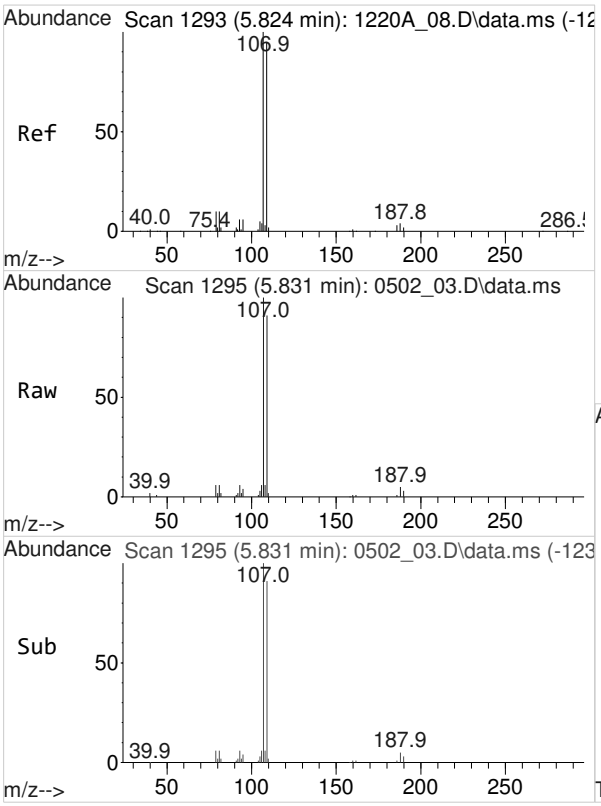


#70
Chlorodibromomethane
Concen: 3.6053759 ppbv
RT: 5.709 min Scan# 1256
Delta R.T. 0.004 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:129 Resp: 25186

Ion	Ratio	Lower	Upper
129	100		
127	78.8	61.3	91.9

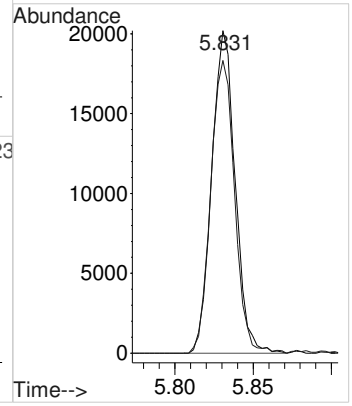


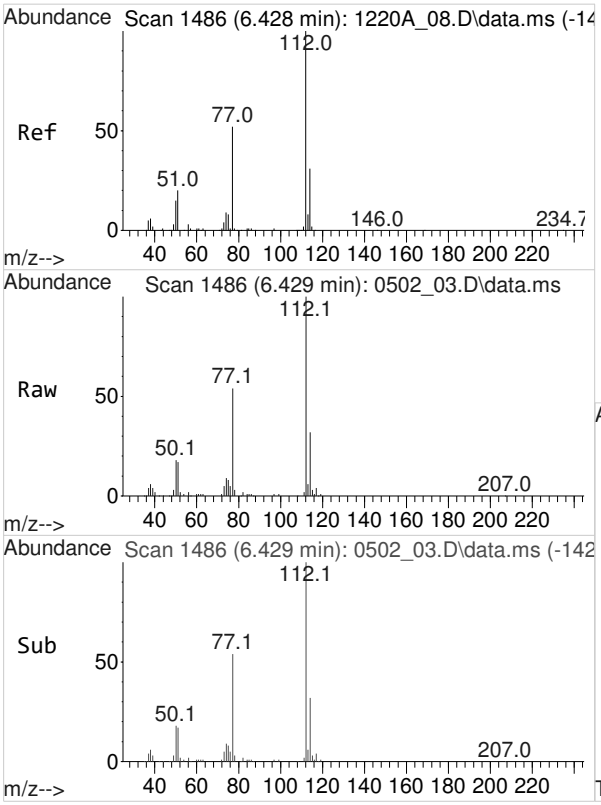


#71
1,2-Dibromoethane
Concen: 3.8269128 ppbv
RT: 5.831 min Scan# 1295
Delta R.T. 0.004 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:107 Resp: 20926

Ion	Ratio	Lower	Upper
107	100		
109	92.6	78.0	117.0

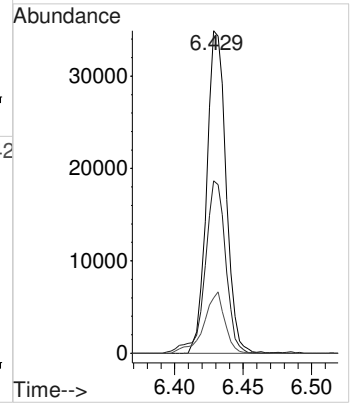


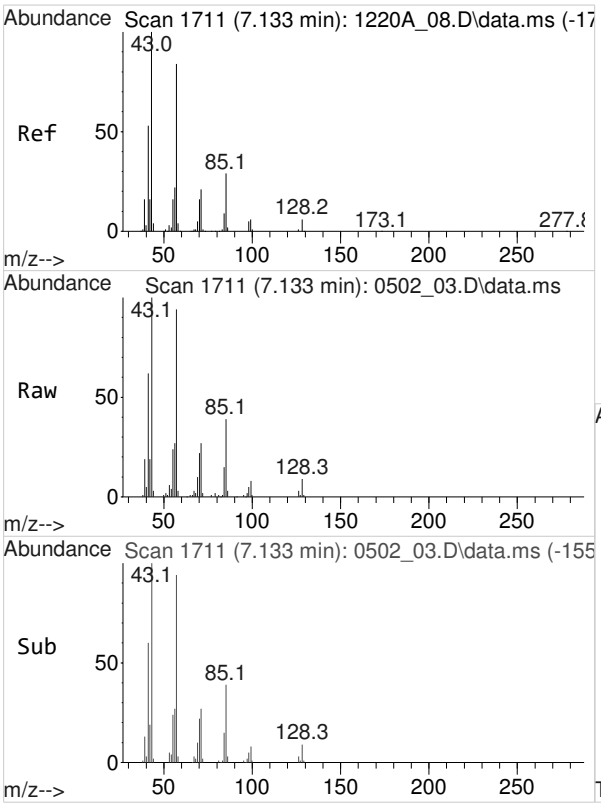


#72
Chlorobenzene
Concen: 3.6563189 ppbv
RT: 6.429 min Scan# 1486
Delta R.T. 0.001 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:112 Resp: 34185

Ion	Ratio	Lower	Upper
112	100		
77	57.1	43.7	65.5
51	20.5	15.7	23.5

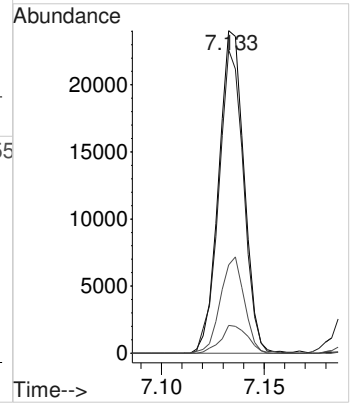


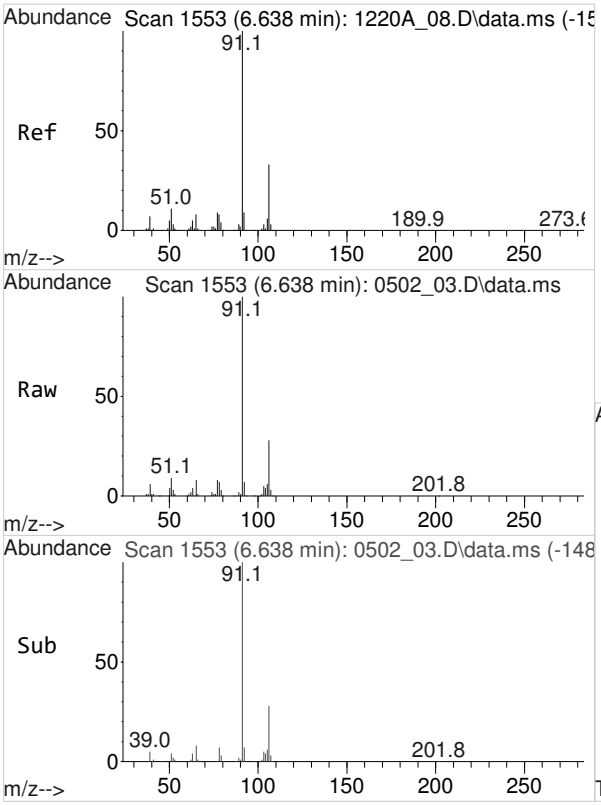


#73
NONANE
Concen: 3.8675947 ppbv
RT: 7.133 min Scan# 1711
Delta R.T. -0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 43 Resp: 20511

Ion	Ratio	Lower	Upper
43	100		
57	92.2	74.6	112.0
71	28.1	23.5	35.3
128	9.1	7.0	10.4

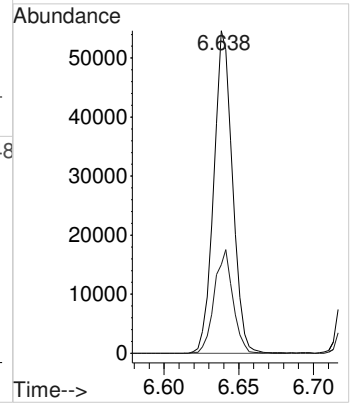


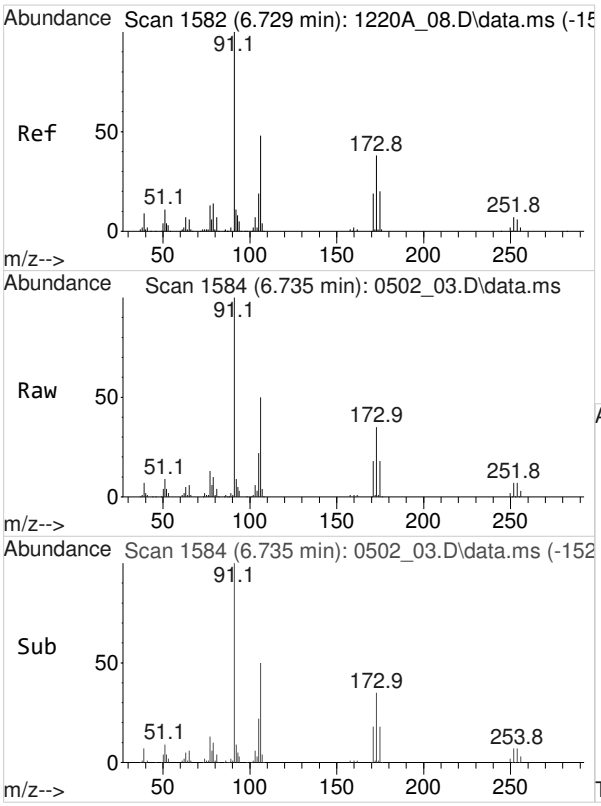


#75
Ethylbenzene
Concen: 3.7205239 ppbv
RT: 6.638 min Scan# 1553
Delta R.T. 0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 91 Resp: 47450

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.8	38.6

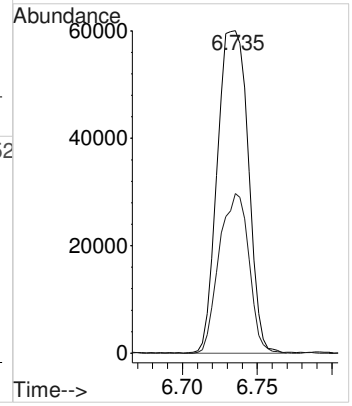


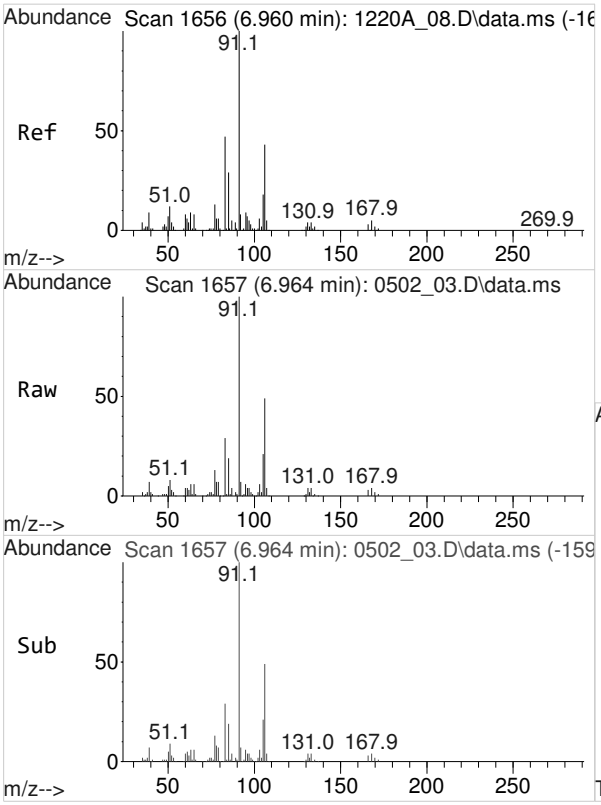


#76
M&P-Xylene
Concen: 8.0718679 ppbv
RT: 6.735 min Scan# 1584
Delta R.T. 0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 91 Resp: 86139

Ion	Ratio	Lower	Upper
91	100		
106	47.8	38.8	58.2

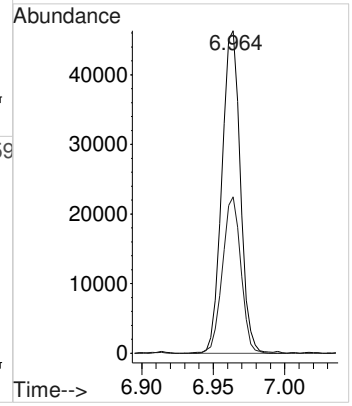


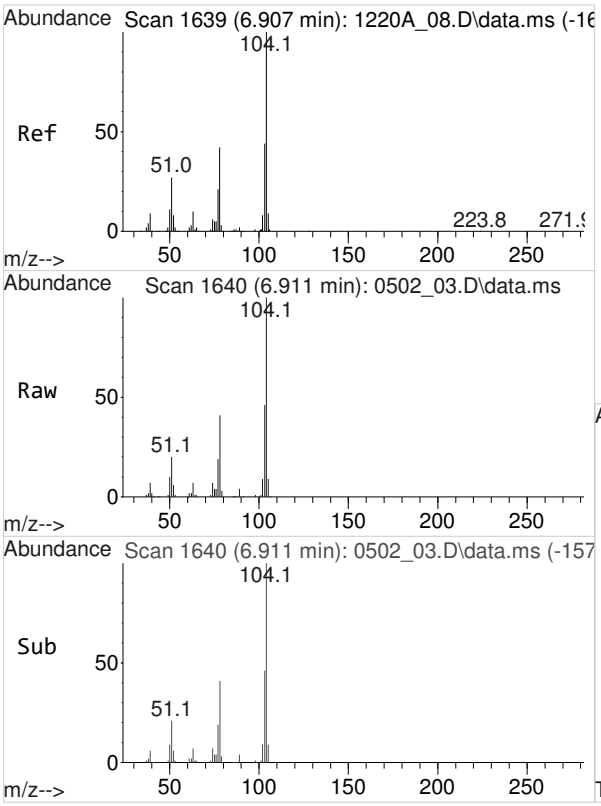


#77
O-Xylene
Concen: 4.0123925 ppbv
RT: 6.964 min Scan# 1657
Delta R.T. 0.004 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 91 Resp: 41837

Ion	Ratio	Lower	Upper
91	100		
106	48.4	38.8	58.2

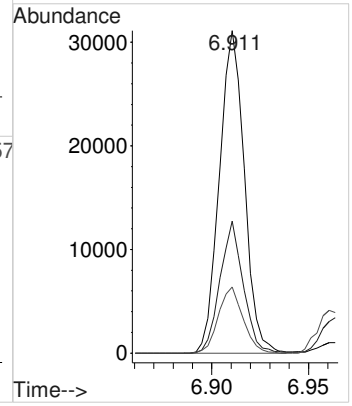


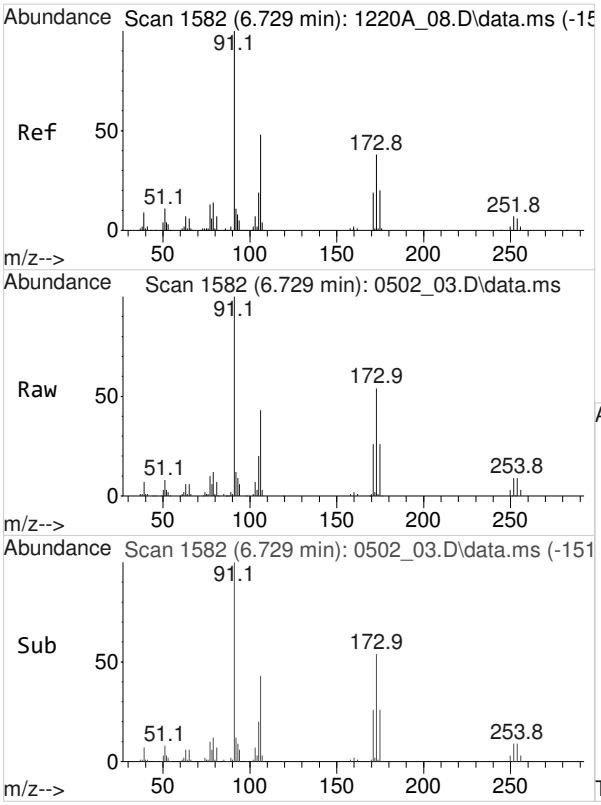


#80
Styrene
Concen: 3.8834970 ppbv
RT: 6.911 min Scan# 1640
Delta R.T. 0.001 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:104 Resp: 27805

Ion	Ratio	Lower	Upper
104	100		
78	38.3	32.2	48.2
51	20.2	16.0	24.0

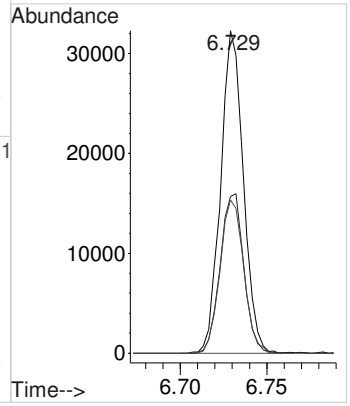


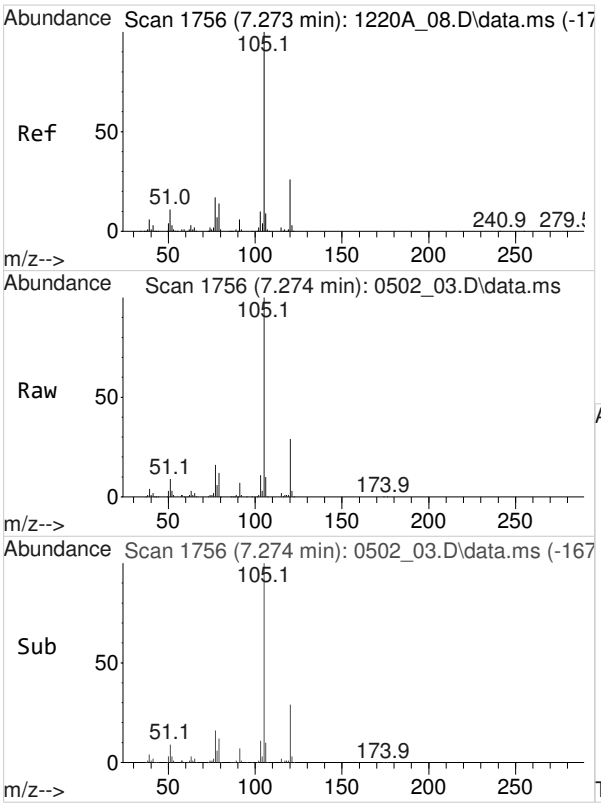


#81
Bromoform
Concen: 3.7637512 ppbv
RT: 6.729 min Scan# 1582
Delta R.T. 0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:173 Resp: 29302

Ion	Ratio	Lower	Upper
173	100		
171	51.6	40.9	61.3
175	49.5	39.5	59.3

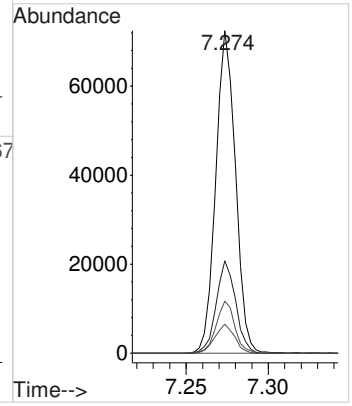


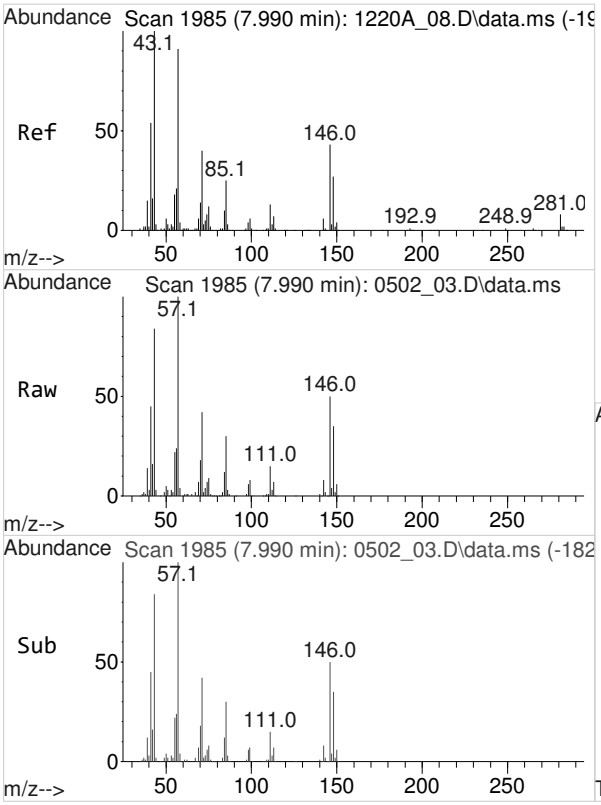


#82
Isopropylbenzene
Concen: 3.5871852 ppbv
RT: 7.274 min Scan# 1756
Delta R.T. 0.001 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:105 Resp: 59874

Ion	Ratio	Lower	Upper
105	100		
120	28.1	21.0	31.6
77	15.1	11.0	16.6
51	8.9	7.0	10.4

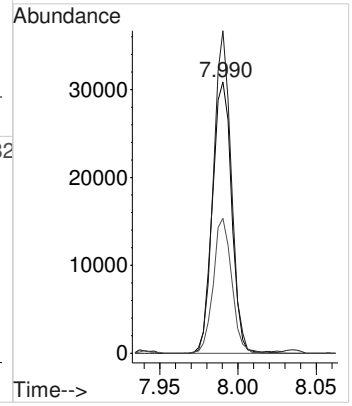


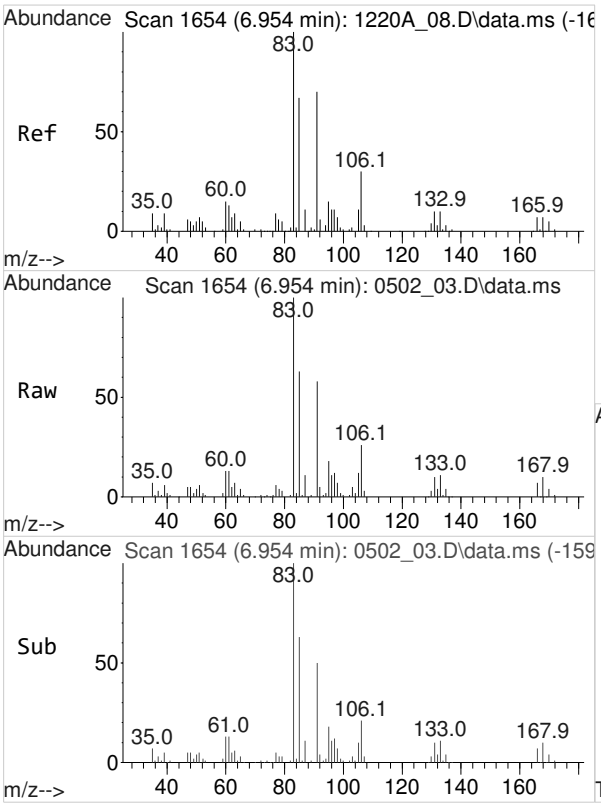


#83
n-DECANE
Concen: 3.7945282 ppbv
RT: 7.990 min Scan# 1985
Delta R.T. 0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 43 Resp: 26273

Ion	Ratio	Lower	Upper
43	100		
57	109.9	85.7	128.5
71	47.6	39.4	59.0

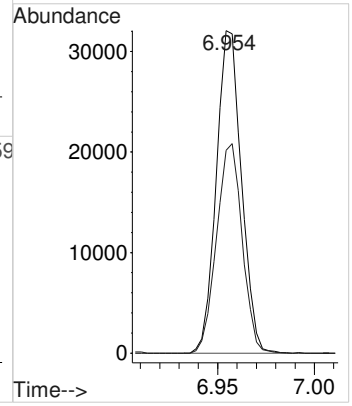


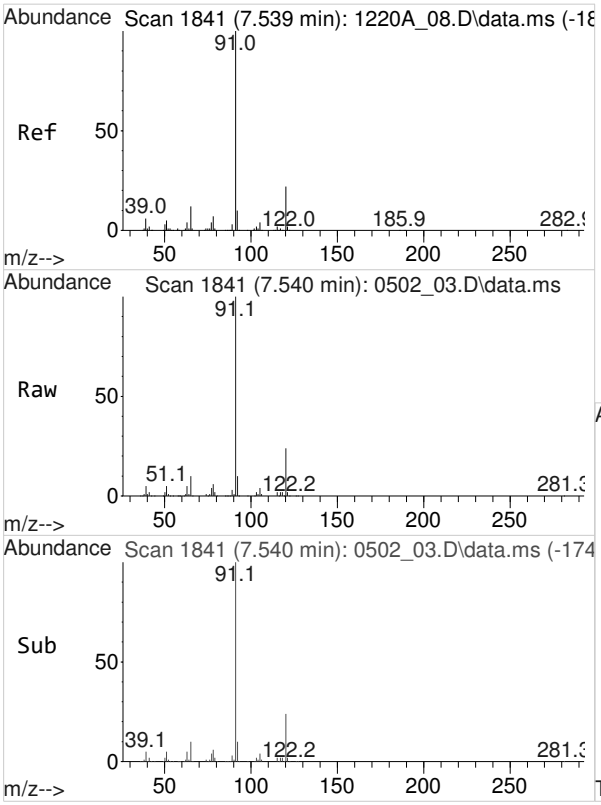


#84
1,1,2,2-Tetrachloroethane
Concen: 3.7450979 ppbv
RT: 6.954 min Scan# 1654
Delta R.T. 0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 83 Resp: 28805

Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.0	76.4

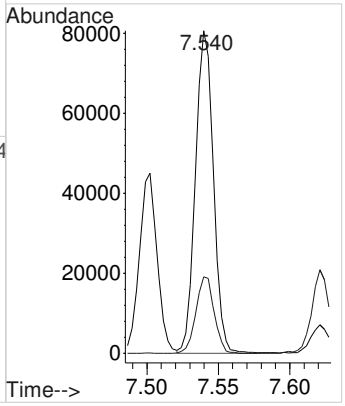


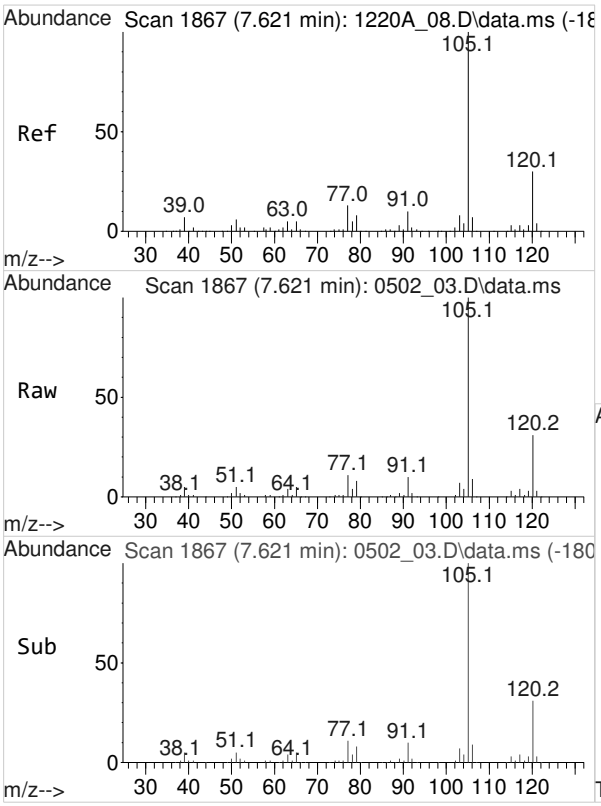


#85
n-Propylbenzene
Concen: 4.0431258 ppbv
RT: 7.540 min Scan# 1841
Delta R.T. 0.001 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 91 Resp: 70540

Ion	Ratio	Lower	Upper
91	100		
120	23.9	19.4	29.0

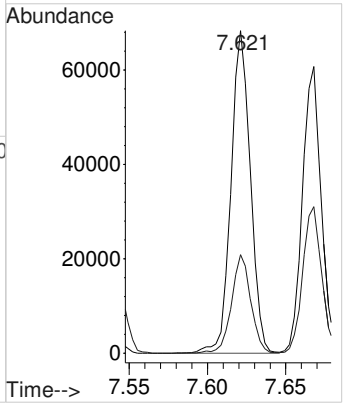


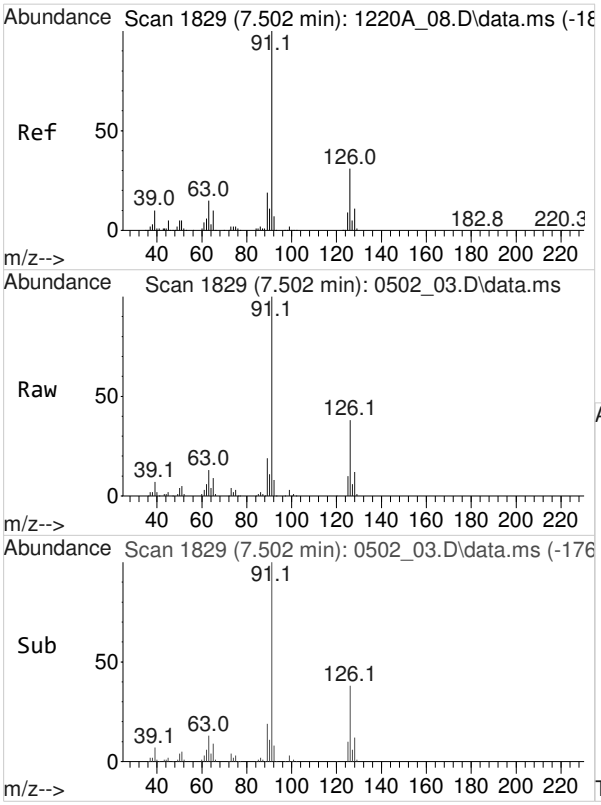


#86
4-Ethyltoluene
Concen: 4.0733223 ppbv
RT: 7.621 min Scan# 1867
Delta R.T. 0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:105 Resp: 59009

Ion	Ratio	Lower	Upper
105	100		
120	30.4	24.4	36.6

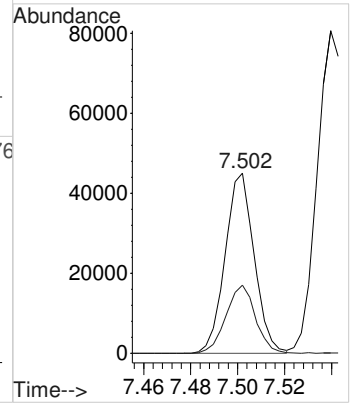


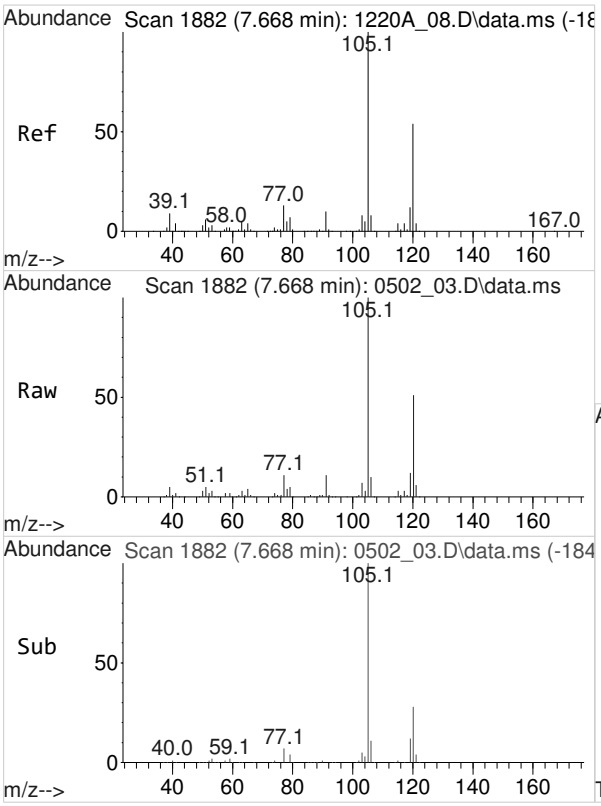


#87
2-Chlorotoluene
Concen: 3.6548709 ppbv
RT: 7.502 min Scan# 1829
Delta R.T. 0.003 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 91 Resp: 38807

Ion	Ratio	Lower	Upper
91	100		
126	38.2	29.7	44.5

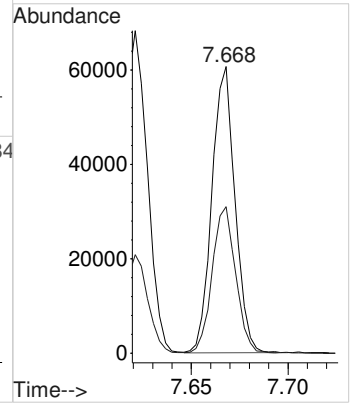


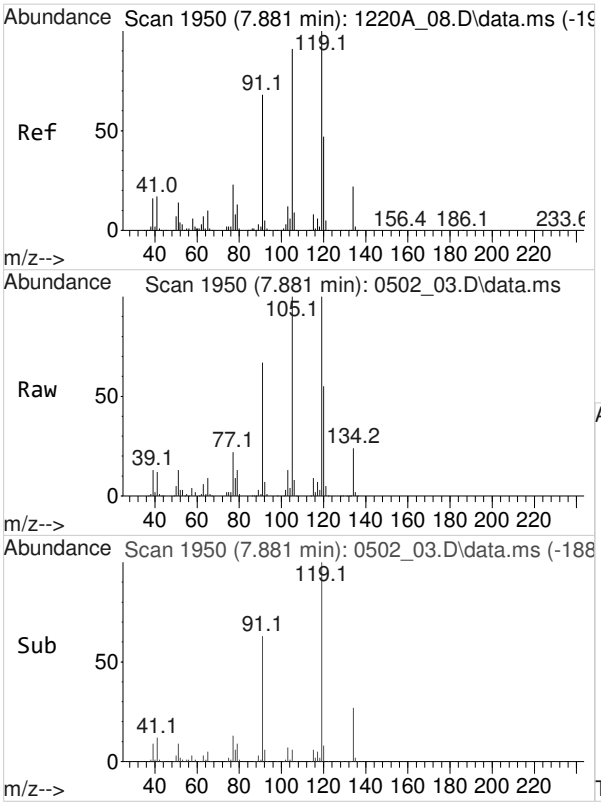


#89
1,3,5-Trimethylbenzene
Concen: 3.8083472 ppbv
RT: 7.668 min Scan# 1882
Delta R.T. 0.003 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:105 Resp: 50012

Ion	Ratio	Lower	Upper
105	100		
120	52.0	39.8	59.8

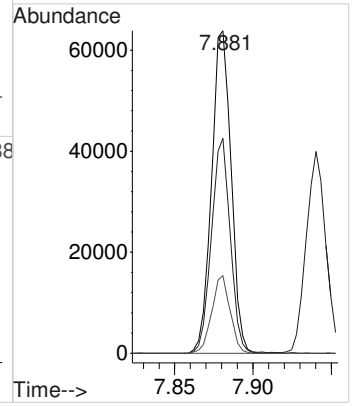


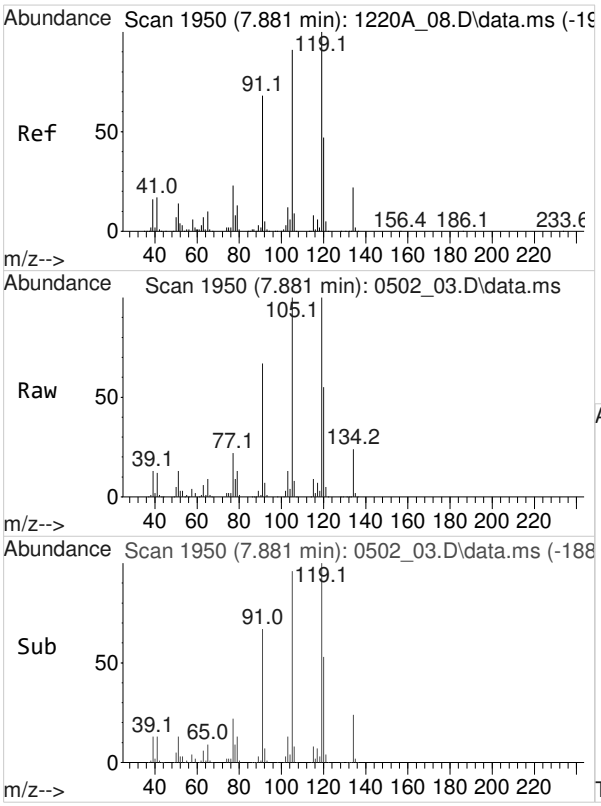


#90
tert-Butylbenzene
Concen: 3.7705022 ppbv
RT: 7.881 min Scan# 1950
Delta R.T. 0.003 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:119 Resp: 55458

Ion	Ratio	Lower	Upper
119	100		
91	63.9	49.7	74.5
134	22.5	18.8	28.2

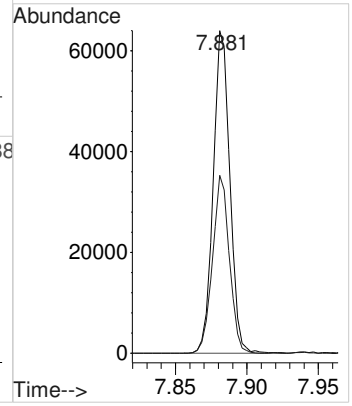


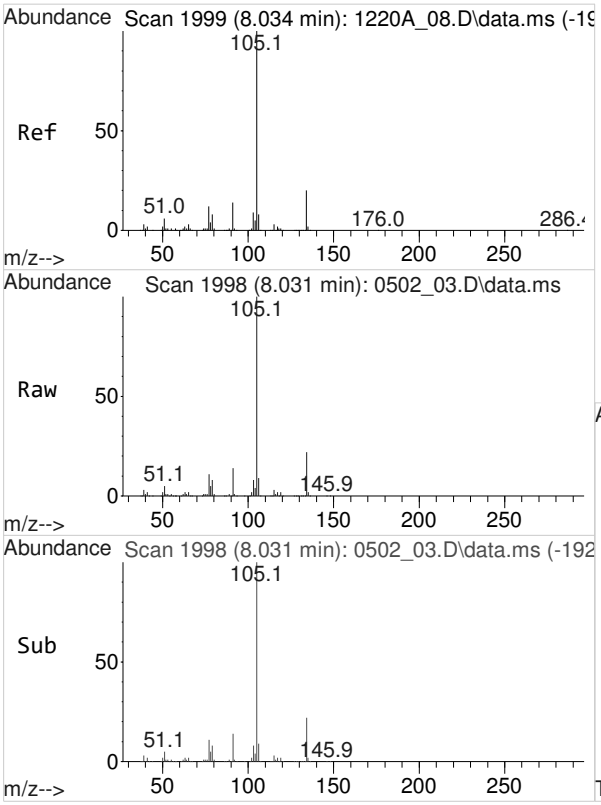


#91
1,2,4-Trimethylbenzene
Concen: 3.8470621 ppbv
RT: 7.881 min Scan# 1950
Delta R.T. -0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:105 Resp: 51618

Ion	Ratio	Lower	Upper
105	100		
120	55.8	45.0	67.4

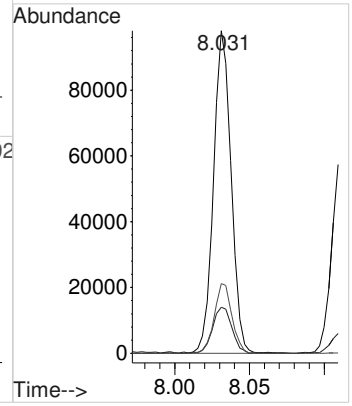


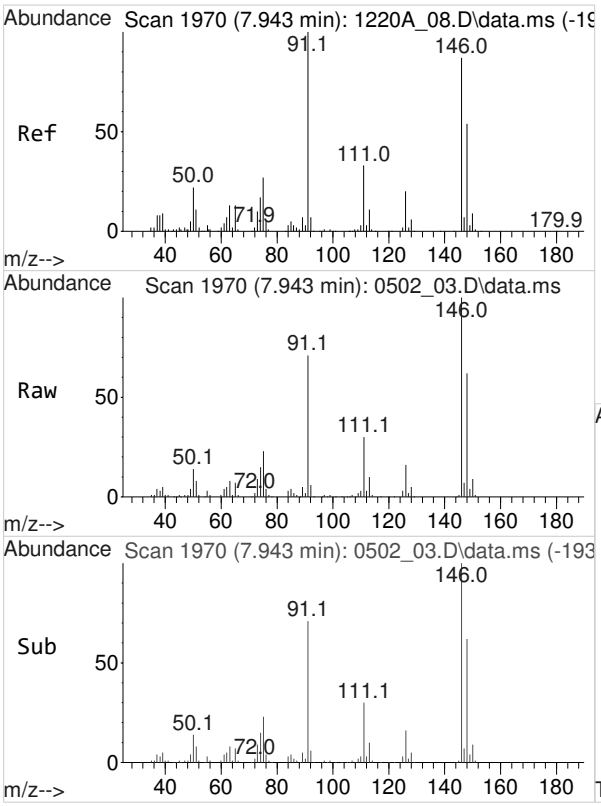


#92
sec-Butylbenzene
Concen: 3.8625507 ppbv
RT: 8.031 min Scan# 1998
Delta R.T. 0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:105 Resp: 80311

Ion	Ratio	Lower	Upper
105	100		
91	15.4	12.1	18.1
134	21.6	16.7	25.1

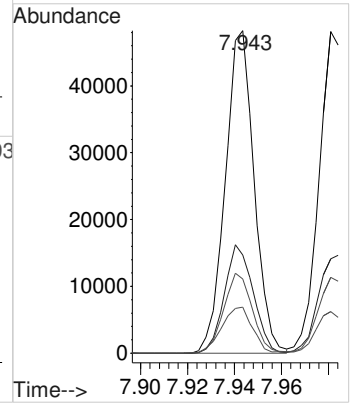


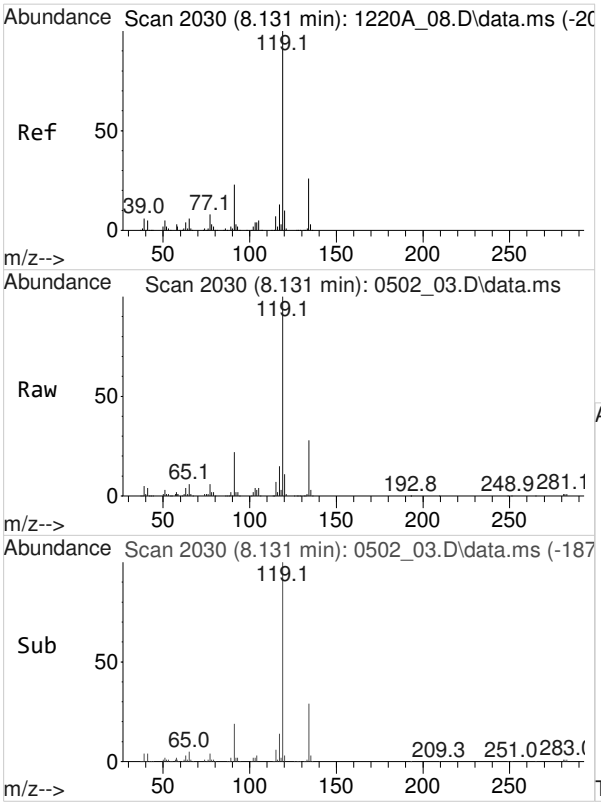


#93
1,3-Dichlorobenzene
Concen: 4.1784586 ppbv
RT: 7.943 min Scan# 1970
Delta R.T. 0.003 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:146 Resp: 41472

Ion	Ratio	Lower	Upper
146	100		
111	33.5	26.7	40.1
75	24.6	18.8	28.2
50	15.3	13.0	19.6

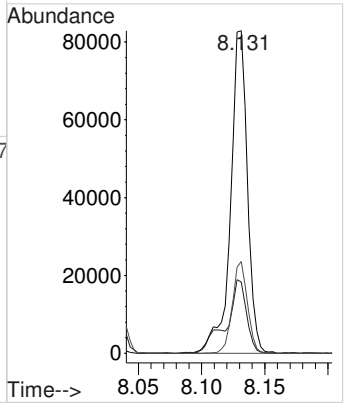


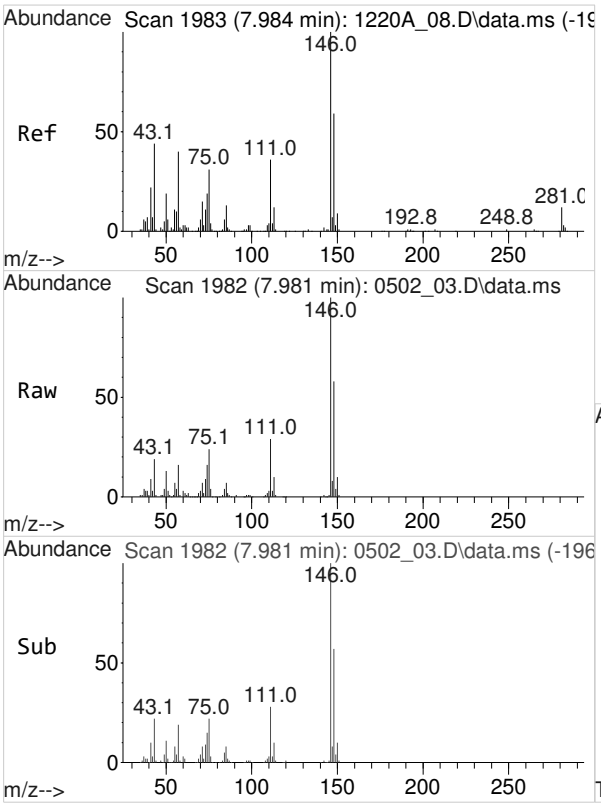


#94
P-ISOPROPYLTOLUENE
Concen: 3.5118812 ppbv
RT: 8.131 min Scan# 2030
Delta R.T. 0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:119 Resp: 76947

Ion	Ratio	Lower	Upper
119	100		
91	27.4	14.9	22.3#
134	25.5	19.4	29.2

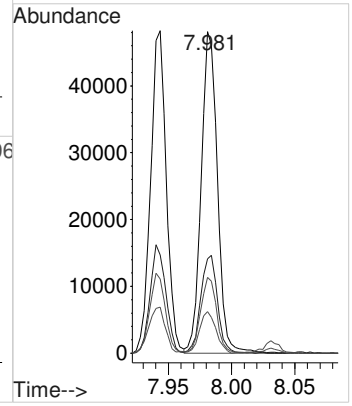


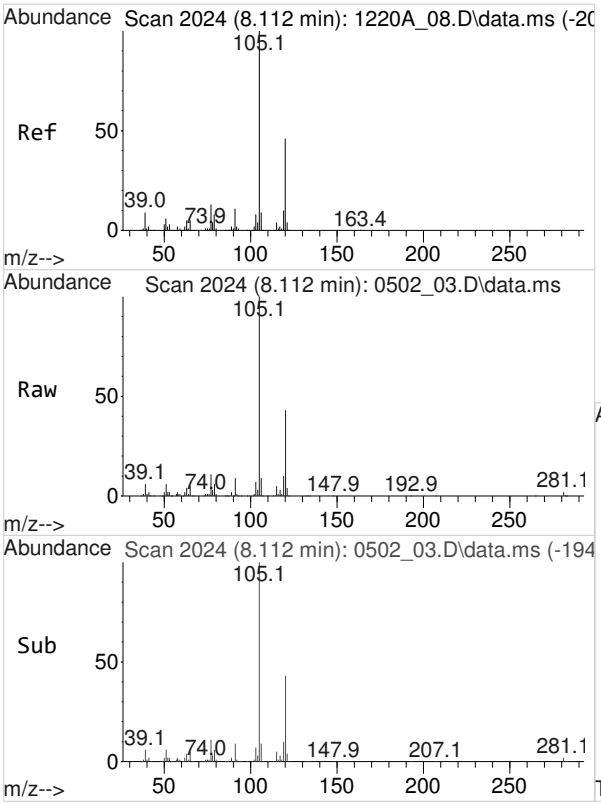


#95
1,4-Dichlorobenzene
Concen: 4.3208438 ppbv
RT: 7.981 min Scan# 1982
Delta R.T. -0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:146 Resp: 43100

Ion	Ratio	Lower	Upper
146	100		
111	30.6	25.0	37.6
75	22.9	19.2	28.8
50	12.7	11.1	16.7

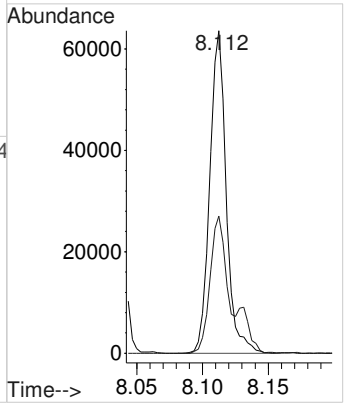


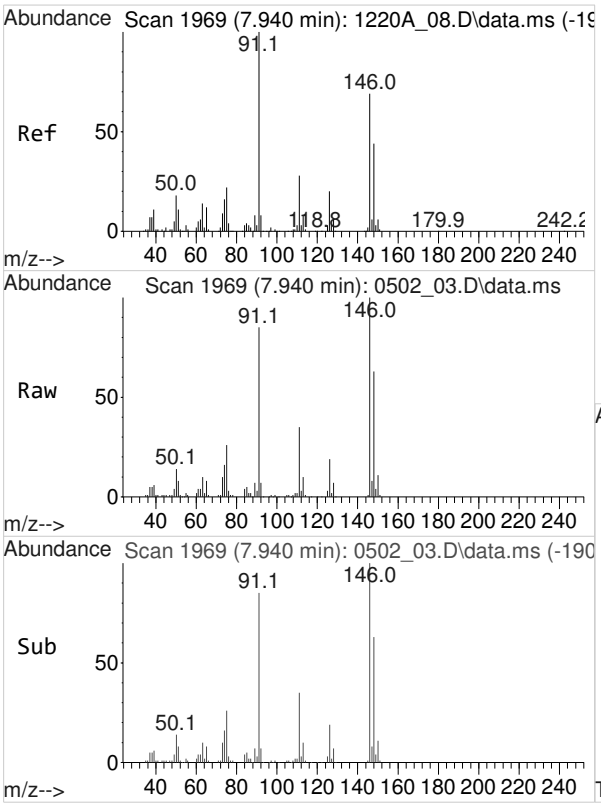


#96
1,2,3-TRIMETHYLBENZENE
Concen: 3.5143479 ppbv
RT: 8.112 min Scan# 2024
Delta R.T. 0.003 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:105 Resp: 55603

Ion	Ratio	Lower	Upper
105	100		
120	43.9	35.3	52.9

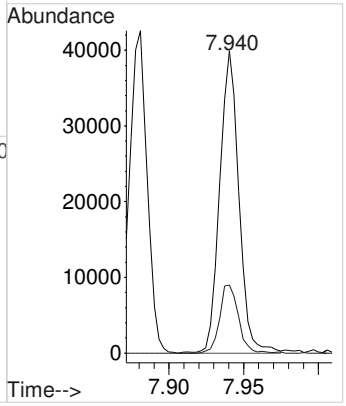


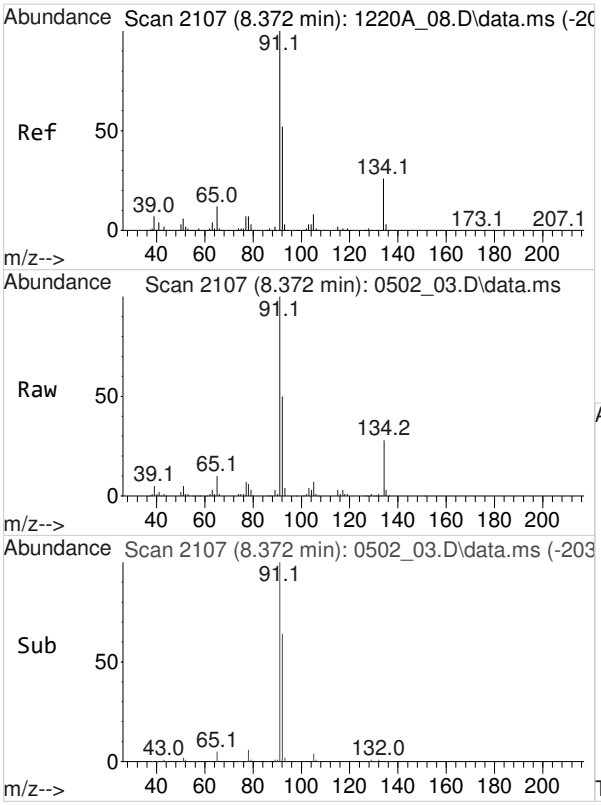


#97
Benzyl Chloride
Concen: 3.7774879 ppbv
RT: 7.940 min Scan# 1969
Delta R.T. 0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 91 Resp: 35662

Ion	Ratio	Lower	Upper
91	100		
126	22.1	16.8	25.2

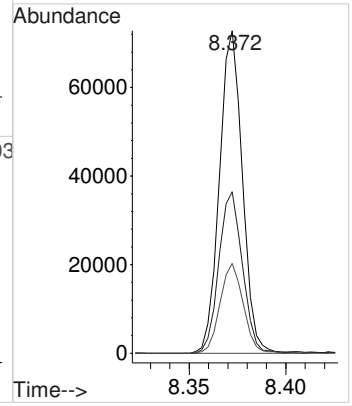


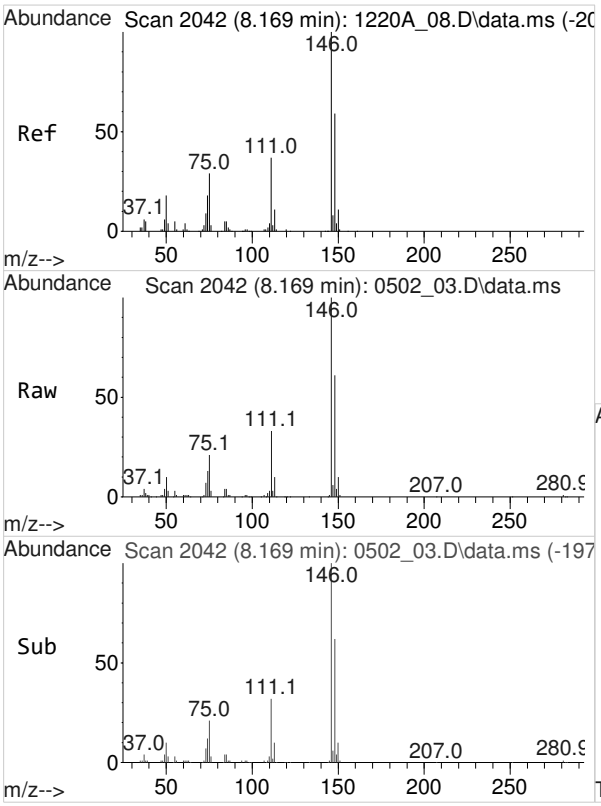


#98
n-Butylbenzene
Concen: 3.5410911 ppbv
RT: 8.372 min Scan# 2107
Delta R.T. 0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion: 91 Resp: 59737

Ion	Ratio	Lower	Upper
91	100		
92	51.5	41.0	61.4
134	28.1	22.7	34.1

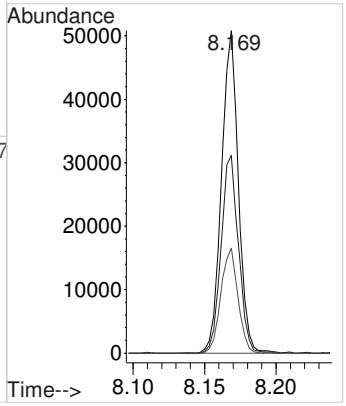


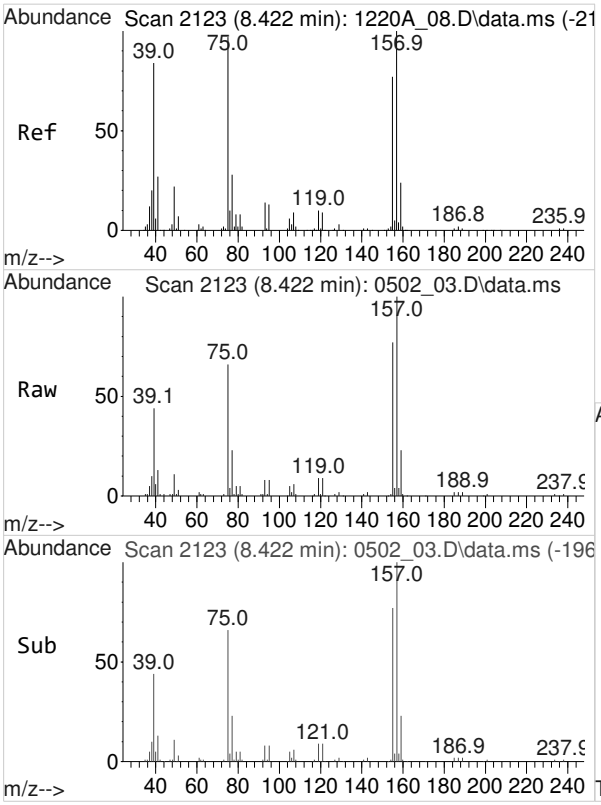


#99
1,2-Dichlorobenzene
Concen: 3.9929276 ppbv
RT: 8.169 min Scan# 2042
Delta R.T. -0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:146 Resp: 42011

Ion	Ratio	Lower	Upper
146	100		
148	63.3	53.1	79.7
111	33.0	27.3	40.9

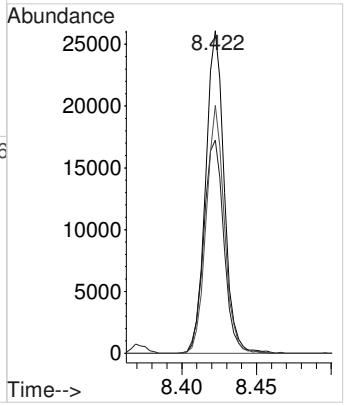


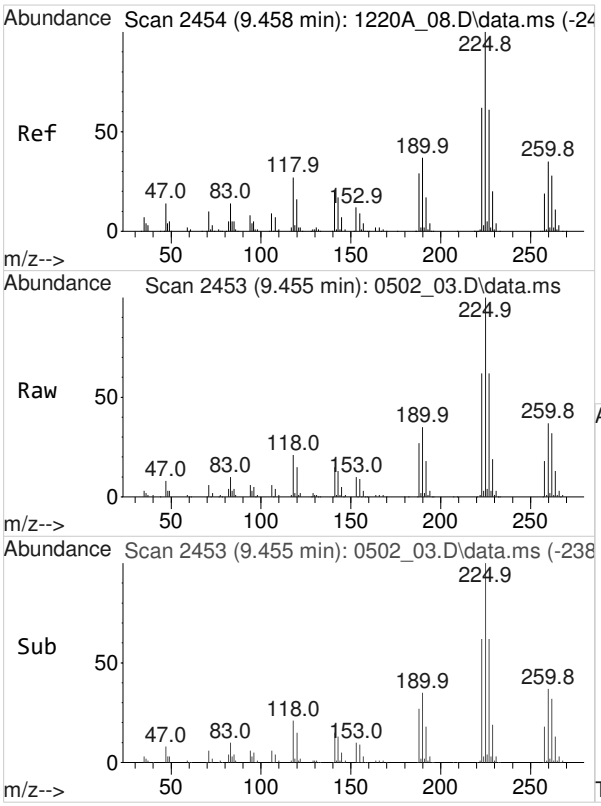


#100
1,2-DIBROMO-3-CHLOROPROPANE
Concen: 3.2892853 ppbv
RT: 8.422 min Scan# 2123
Delta R.T. 0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:157 Resp: 22352

Ion	Ratio	Lower	Upper
157	100		
75	71.6	55.8	83.8
155	75.2	60.1	90.1

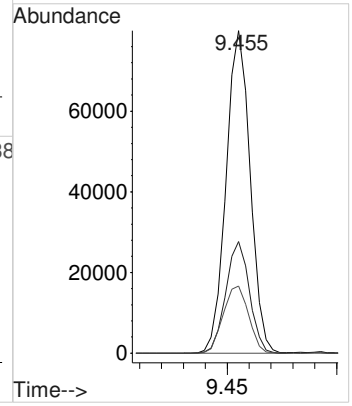




#102
Hexachloro-1,3-Butadiene
Concen: 3.3700268 ppbv
RT: 9.455 min Scan# 2453
Delta R.T. 0.000 min
Lab File: 0502_03.D
Acq: 02 May 2024 09:19 am

Tgt Ion:225 Resp: 60646

Ion	Ratio	Lower	Upper
225	100		
190	34.1	27.5	41.3
118	22.0	17.0	25.6



SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4065813-2	**SDG:**	L1731355
Client Sample ID:	LCSD	**Collected Date/Time:**	
Lab File ID:	0503_03	**Received Date/Time:**	
Instrument ID:	AIRMS16	**Preparation Date/Time:**	05/03/24 10:28
Analytical Batch:	WG2279821	**Analysis Date/Time:**	05/03/24 10:28
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
Acetone	67-64-1	5.93	4.19		0.584	1.25
Benzene	71-43-2	8.25	4.41		0.0715	0.200
Benzyl Chloride	100-44-7	14.07	4.28		0.0598	0.200
Bromodichloromethane	75-27-4	9.32	4.33		0.0702	0.200
Bromoform	75-25-2	12.62	4.41		0.0732	0.600
Bromomethane	74-83-9	5.01	4.54		0.0982	0.200
1,3-Butadiene	106-99-0	4.62	4.32		0.104	2.00
Carbon disulfide	75-15-0	6.17	4.38		0.102	0.200
Carbon tetrachloride	56-23-5	8.04	4.32		0.0732	0.200
Chlorobenzene	108-90-7	11.68	4.47		0.0832	0.200
Chloroethane	75-00-3	5.11	4.27		0.0996	0.200
Chloroform	67-66-3	7.71	4.36		0.0717	0.200
Chloromethane	74-87-3	4.45	4.43		0.103	0.200
Cyclohexane	110-82-7	7.93	4.31		0.0753	0.200
Dibromochloromethane	124-48-1	11.01	4.35		0.0727	0.200
1,2-Dibromoethane	106-93-4	11.20	4.43		0.0721	0.200
1,2-Dichlorobenzene	95-50-1	14.32	4.49		0.128	0.200
1,3-Dichlorobenzene	541-73-1	13.88	4.49		0.182	0.200
1,4-Dichlorobenzene	106-46-7	13.96	4.47		0.0557	0.200
1,2-Dichloroethane	107-06-2	8.31	4.25		0.0700	0.200
1,1-Dichloroethane	75-34-3	6.95	4.37		0.0723	0.200
1,1-Dichloroethene	75-35-4	5.88	4.28		0.0762	0.200
cis-1,2-Dichloroethene	156-59-2	7.46	4.31		0.0784	0.200
trans-1,2-Dichloroethene	156-60-5	6.55	4.26		0.0673	0.200
1,2-Dichloropropane	78-87-5	9.10	4.36		0.0760	0.200
cis-1,3-Dichloropropene	10061-01-5	9.76	4.39		0.0689	0.200
trans-1,3-Dichloropropene	10061-02-6	10.33	4.33		0.0728	0.200
Ethanol	64-17-5	5.47	3.79		0.265	2.50
Ethylbenzene	100-41-4	11.70	4.39		0.0835	0.200
4-Ethyltoluene	622-96-8	13.15	4.47		0.0783	0.200
Ethyl acetate	141-78-6	7.38	4.17		0.100	0.630
Trichlorofluoromethane	75-69-4	5.34	4.37		0.0819	0.200
Dichlorodifluoromethane	75-71-8	4.16	4.14		0.137	0.200
1,1,2-Trichlorotrifluoroethane	76-13-1	5.79	4.39		0.0793	0.200
1,2-Dichlorotetrafluoroethane	76-14-2	4.33	4.52		0.0891	0.200
Heptane	142-82-5	8.26	4.29		0.104	0.200
Hexachloro-1,3-butadiene	87-68-3	15.96	4.47		0.105	0.630
n-Hexane	110-54-3	6.66	4.28		0.206	0.630
Isopropylbenzene	98-82-8	12.66	4.45		0.0777	0.200
Methylene Chloride	75-09-2	6.34	4.23		0.0979	0.200
Methyl Butyl Ketone	591-78-6	10.71	4.13		0.133	1.25
2-Butanone (MEK)	78-93-3	7.43	4.29		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	108-10-1	9.85	4.27		0.0765	1.25

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R4065813-2

Lab Sample ID:	R4065813-2	**SDG:**	L1731355
Client Sample ID:	LCSD	**Collected Date/Time:**	
Lab File ID:	0503_03	**Received Date/Time:**	
Instrument ID:	AIRMS16	**Preparation Date/Time:**	05/03/24 10:28
Analytical Batch:	WG2279821	**Analysis Date/Time:**	05/03/24 10:28
Dilution Factor:	1	**Prep Method:**	TO-15
Analytical Method:	TO-15	**Sample Vol Used:**	300 mL
Matrix:	Air	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ppbv		*ppbv*	*ppbv*
Methyl methacrylate	80-62-6	9.02	4.22		0.0876	0.200
MTBE	1634-04-4	6.48	4.28		0.0647	0.200
Naphthalene	91-20-3	16.21	4.33		0.350	0.630
2-Propanol	67-63-0	5.96	4.30		0.264	1.25
Propene	115-07-1	4.11	4.15		0.0932	1.25
Styrene	100-42-5	12.32	4.37		0.0788	0.200
1,1,2,2-Tetrachloroethane	79-34-5	13	4.44		0.0743	0.200
Tetrachloroethylene	127-18-4	10.67	4.52		0.0814	0.200
Tetrahydrofuran	109-99-9	7.71	4.25		0.0734	0.200
Toluene	108-88-3	10.09	4.37		0.0870	0.500
1,2,4-Trichlorobenzene	120-82-1	15.89	4.27		0.148	0.630
1,1,1-Trichloroethane	71-55-6	7.91	4.35		0.0736	0.200
1,1,2-Trichloroethane	79-00-5	10.55	4.39		0.0775	0.200
Trichloroethylene	79-01-6	8.82	4.40		0.0680	0.200
1,2,4-Trimethylbenzene	95-63-6	13.55	4.45		0.0764	0.200
1,3,5-Trimethylbenzene	108-67-8	13.20	4.50		0.0779	0.200
2,2,4-Trimethylpentane	540-84-1	8.15	4.33		0.133	0.200
Vinyl chloride	75-01-4	4.58	4.67		0.0949	0.200
Vinyl Bromide	593-60-2	5.31	4.33		0.0852	0.200
Vinyl acetate	108-05-4	6.88	3.91		0.116	0.630
Xylenes, Total	1330-20-7	12.30	13.2		0.200	0.600
m&p-Xylene	179601-23-1	11.82	8.85		0.135	0.400
o-Xylene	95-47-6	12.30	4.38		0.0828	0.200

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_03.D
Acq On : 3 May 2024 10:28 am
Operator :
Sample : LCSD 1x WG2279821
Misc : 24D22236
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 03 14:12:44 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.708	130	220784	4.0000000	ppbv	0.00
50) 1,4-Difluorobenzene	8.541	114	935659	4.0000000	ppbv	0.00
74) Chlorobenzene-d5	11.642	117	837345	4.0000000	ppbv	0.00
System Monitoring Compounds						
88) 1,4-Bromofluorobenzene	12.895	95	577109	3.8668656	ppbv	0.00
Spiked Amount 4.000	Range 60 - 140		Recovery = 96.67%			
Target Compounds						Qvalue
2) TPH (GC/MS) Low Fraction	10.430	TIC	29767978m	189.5132452	ppbv	
3) TPH-GRO (C5-C10)	10.430	TIC	36392101m	278.9098256	ppbv	
4) THC as Gas (C4-C12)	10.430	TIC	61223500m	375.7962421	ppbv	
5) Propene	4.113	41	67773	4.1446574	ppbv	99
6) BUTANE	4.550	43	111938	4.3414903	ppbv	99
7) 1,1-DIFLUOROETHANE	4.119	65	45684	4.4084086	ppbv	98
8) Dichlorodifluoromethane	4.158	85	159138	4.1431770	ppbv	100
9) CHLORODIFLUOROMETHANE	4.181	67	17050	4.1799479	ppbv	99
10) 1,2-Dichlorotetrafluor...	4.328	85	189761	4.5241466	ppbv	99
11) Chloromethane	4.447	50	70291	4.4325670	ppbv	100
12) Vinyl Chloride	4.584	62	71174	4.6704623	ppbv	98
13) 1,3-Butadiene	4.618	39	55360	4.3149059	ppbv	98
14) Bromomethane	5.014	94	61110	4.5353874	ppbv	100
15) Chloroethane	5.105	64	34951	4.2653595	ppbv	99
16) ISOPENTANE	5.122	43	82733	4.5292873	ppbv	98
17) Vinyl Bromide	5.315	106	63372	4.3322002	ppbv	99
18) Trichlorofluoromethane	5.338	101	163354	4.3655070	ppbv	99
19) PENTANE	5.377	43	149205	4.2684115	ppbv	100
20) Ethanol	5.474	45	32508	3.7889154	ppbv	99
21) ACROLEIN	5.808	56	34773	3.9372278	ppbv	97
22) 1,1,2-Trichlorotrifluo...	5.786	101	147085	4.3887533	ppbv	99
23) 1,1-Dichloroethene	5.876	61	120558	4.2774134	ppbv	98
24) Acetone	5.927	58	41715	4.1893164	ppbv	94
25) BROMOETHANE	6.075	108	61285	4.3986406	ppbv	100
26) 2-Propanol	5.956	45	172402	4.2978222	ppbv	100
27) Carbon Disulfide	6.171	76	254932	4.3777133	ppbv	98
28) Allyl Chloride	6.205	41	111416	4.1284316	ppbv	93
29) METHYL ACETATE	6.165	43	165316	4.2516643	ppbv #	99
30) ACETONITRILE	6.250	41	403505	21.7982627	ppbv	100
31) Methylene Chloride	6.336	49	94043	4.2337497	ppbv	99
32) TERT-BUTYL ALCOHOL	6.319	59	188716	4.2914328	ppbv	99
33) Methyl Tert-Butyl Ether	6.483	73	227556	4.2758514	ppbv	99
34) Trans-1,2-Dichloroethene	6.545	61	113641	4.2582345	ppbv	97
35) ACRYLONITRILE	6.585	53	68092	4.2139050	ppbv	100
36) n-Hexane	6.664	57	137709	4.2814907	ppbv	100
37) 1,1-Dichloroethane	6.954	63	146784	4.3724401	ppbv	99
38) Vinyl Acetate	6.880	43	235329	3.9084736	ppbv	100
39) DI-ISOPROPYL ETHER	6.829	45	304880	4.3349926	ppbv	98
40) ETHYL TERT-BUTYL ETHER	7.152	59	273332	4.3208095	ppbv	99
41) ETHYL ACETATE	7.379	70	21312	4.1656891	ppbv	98

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_03.D
Acq On : 3 May 2024 10:28 am
Operator :
Sample : LCSD 1x WG2279821
Misc : 24D22236
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 03 14:12:44 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2-Butanone (MEK)	7.430	72	43030	4.2883899	ppbv	98
43) cis-1,2-Dichloroethene	7.464	61	110578	4.3128092	ppbv	98
44) Tetrahydrofuran	7.713	42	107432	4.2445915	ppbv	98
45) Chloroform	7.708	83	162341	4.3643019	ppbv	100
46) Cyclohexane	7.929	84	109463	4.3135290	ppbv	99
47) 1,1,1-Trichloroethane	7.912	97	147500	4.3522428	ppbv	99
48) Carbon Tetrachloride	8.042	117	147281	4.3211975	ppbv	99
49) 2,2,4-Trimethylpentane	8.150	57	451149	4.3305563	ppbv	99
51) Benzene	8.252	78	271511	4.4077153	ppbv	100
52) TERT-AMYL METHYL ETHER	8.218	73	255293	4.3438874	ppbv	99
53) 1,2-Dichloroethane	8.309	62	105119	4.2472473	ppbv	99
54) Heptane	8.263	57	91877	4.2890826	ppbv	99
55) Trichloroethene	8.825	95	112658	4.3961791	ppbv	99
56) TERT-AMYL ETHYL ETHER	8.881	73	80451	4.2194371	ppbv	98
57) METHYL CYCLOHEXANE	8.978	83	155686	4.3467446	ppbv	98
58) 1,2-Dichloropropane	9.102	63	105253	4.3548061	ppbv	99
59) Methyl Methacrylate	9.023	69	96888	4.2203683	ppbv	98
60) 1,4-Dioxane	9.165	88	60188	4.2319662	ppbv	98
61) Bromodichloromethane	9.323	83	161713	4.3277931	ppbv	99
62) cis-1,3-Dichloropropene	9.760	75	161546	4.3847595	ppbv	99
63) 4-Methyl-2-Pentanone (...	9.845	43	228167	4.2711023	ppbv	100
64) n-OCTANE	9.970	43	247274	4.3013322	ppbv	100
65) Toluene	10.089	91	337982	4.3703708	ppbv	100
66) trans-1,3-Dichloropropene	10.333	75	125789	4.3274798	ppbv	99
67) 1,1,2-Trichloroethane	10.554	97	98795	4.3917606	ppbv	99
68) Tetrachloroethene	10.673	166	147094	4.5149498	ppbv	98
69) Methyl Butyl Ketone	10.713	43	209306	4.1249792	ppbv	100
70) Chlorodibromomethane	11.007	129	156967	4.3481583	ppbv	100
71) 1,2-Dibromoethane	11.200	107	151023	4.4315326	ppbv	99
72) Chlorobenzene	11.676	112	248427	4.4674186	ppbv	98
73) NONANE	11.620	43	259848	4.3284852	ppbv	100
75) Ethylbenzene	11.699	91	426827	4.3865193	ppbv	99
76) M&P-Xylene	11.824	91	661052	8.8457611	ppbv	99
77) O-Xylene	12.300	91	336589	4.3824409	ppbv	99
80) Styrene	12.317	104	245541	4.3691173	ppbv	99
81) Bromoform	12.623	173	155464	4.4130420	ppbv	100
82) Isopropylbenzene	12.657	105	456051	4.4473938	ppbv	100
83) n-DECANE	13.043	43	251380	4.5621416	ppbv	100
84) 1,1,2,2-Tetrachloroethane	13.003	83	225782	4.4411622	ppbv	100
85) n-Propylbenzene	13.054	91	535639	4.5844311	ppbv	100
86) 4-Ethyltoluene	13.150	105	434633	4.4666881	ppbv	100
87) 2-Chlorotoluene	13.213	91	348320	4.4646451	ppbv	99
89) 1,3,5-Trimethylbenzene	13.202	105	359437	4.5033810	ppbv	100
90) tert-Butylbenzene	13.502	119	339741	4.4334545	ppbv	100
91) 1,2,4-Trimethylbenzene	13.553	105	365639	4.4474992	ppbv	99
92) sec-Butylbenzene	13.689	105	533893	4.5191913	ppbv	100
93) 1,3-Dichlorobenzene	13.882	146	237027	4.4930949	ppbv	99
94) P-ISOPROPYLTOLUENE	13.791	119	442895	4.4805437	ppbv	99
95) 1,4-Dichlorobenzene	13.961	146	235608	4.4710403	ppbv	98
96) 1,2,3-TRIMETHYLBENZENE	13.944	105	368763	4.4608405	ppbv	100

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_03.D
Acq On : 3 May 2024 10:28 am
Operator :
Sample : LCSD 1x WG2279821
Misc : 24D22236
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 03 14:12:44 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration

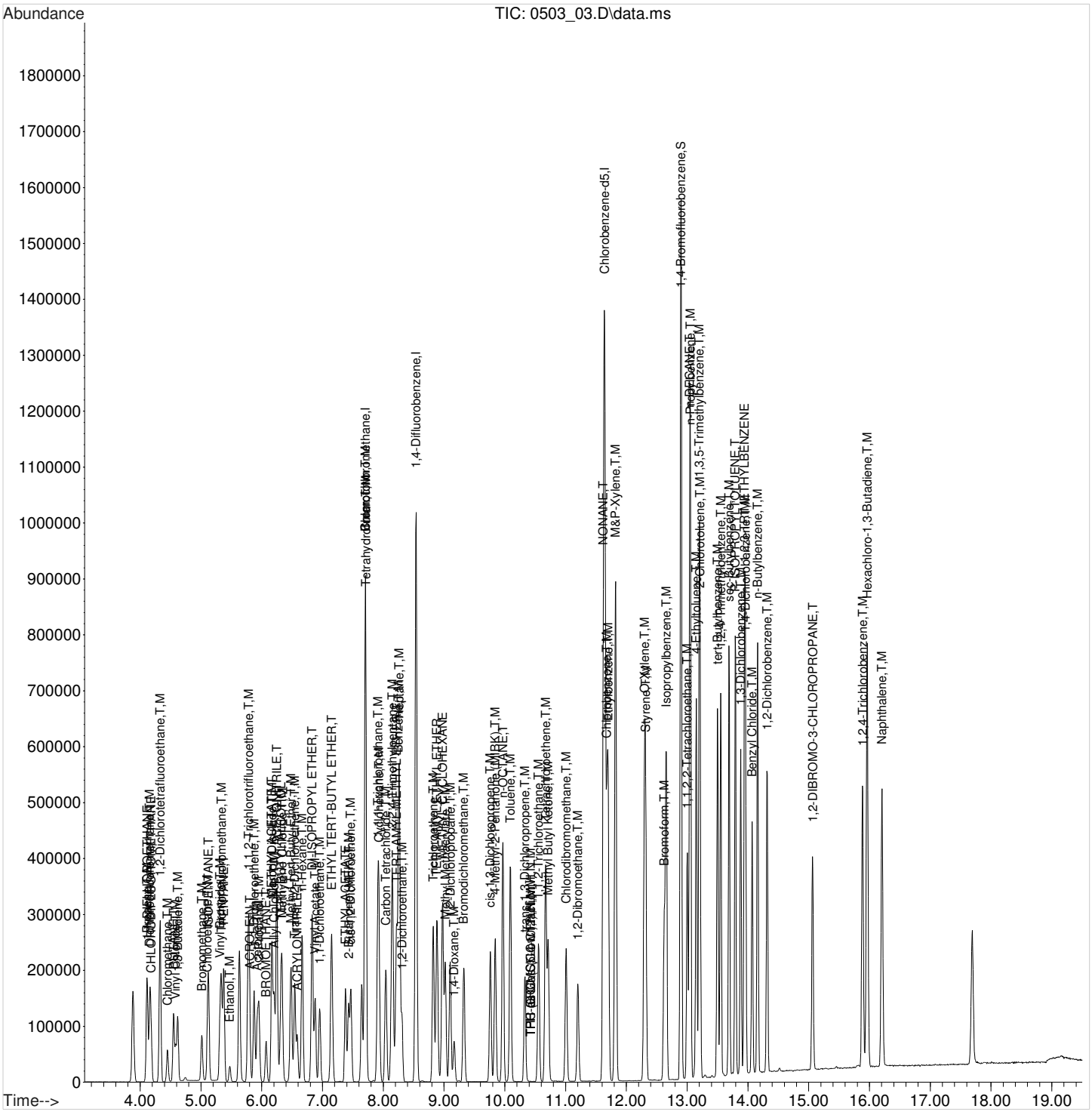
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) Benzyl Chloride	14.069	91	317899	4.2815079	ppbv	100
98) n-Butylbenzene	14.160	91	436503	4.4738401	ppbv	100
99) 1,2-Dichlorobenzene	14.318	146	233512	4.4872140	ppbv	99
100) 1,2-DIBROMO-3-CHLOROPR...	15.067	157	118734	4.1784601	ppbv	97
101) 1,2,4-Trichlorobenzene	15.889	180	202930	4.2677820	ppbv	100
102) Hexachloro-1,3-Butadiene	15.963	225	201306	4.4677586	ppbv	99
103) Naphthalene	16.206	128	496351	4.3344184	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\050324\
Data File : 0503_03.D
Acq On : 3 May 2024 10:28 am
Operator :
Sample : LCSD 1x WG2279821
Misc : 24D22236
ALS Vial : 3 Sample Multiplier: 1
InstName : AIRMS16

Quant Time: May 03 14:12:44 2024
Quant Method : C:\msdchem\1\methods\TOAIRMS16D26X.M
Quant Title :
QLast Update : Sat Apr 27 07:55:11 2024
Response via : Initial Calibration



TO-15 Air VOCs Benchsheet

Batch: WG2278229

Analyst: ED4221 **Tedlar Bag Lot#:** **SOP:** ENV-SOP-MTJL-0104 **Method:** EPA TO-15

ICV, LCS/D Std: 24D28181 Amt. Used: 300 cc Exp. Date:09/05/24 **Internal Standard/Surrogate:** 24D10309 Amt. Used: 50 cc Exp. Date:10/10/24

Sample Number	Reference Volume (mL)	Analytical Dilution	Sample Vol Used (mL)	Prep Factor	Prep Ratio	Collection Date	Spike Factor	Surrogate Factor	Review Analyst	Review Date
BLANK	200	1	200	1	1		1	1	ED4221	05/01/24 15:04:19
LCS	300	1	300	1	1		1	1	ED4221	05/01/24 15:04:19
LCSD	300	1	300	1	1		1	1	ED4221	05/01/24 15:04:19
1. L1731347-01	200	1	200	1	1	04/30/24 14:47	1	1	ED4221	05/01/24 15:04:19
2. L1731347-02	200	1	200	1	1	04/30/24 14:55	1	1	ED4221	05/01/24 15:04:19
3. L1731347-03	200	1	200	1	1	04/30/24 14:57	1	1	ED4221	05/01/24 15:04:19
4. L1731347-04	200	1	200	1	1	04/30/24 15:00	1	1	ED4221	05/01/24 15:04:19
5. L1731347-05	200	5.79	34.54	1	1	04/30/24 16:14	1	1	ED4221	05/01/24 15:04:19
6. L1731355-01	200	1	200	1	1	04/29/24 12:04	1	1	NIH4061	05/01/24 17:55:14
7. L1731355-02	200	1	200	1	1	04/29/24 12:54	1	1	NIH4061	05/01/24 17:55:14
8. L1731355-03	200	1	200	1	1	04/29/24 13:37	1	1	NIH4061	05/01/24 17:55:14
9. L1731355-04	200	1	200	1	1	04/29/24 00:00	1	1	NIH4061	05/01/24 17:55:14
10. L1731390-01	200	1	200	1	1	04/30/24 12:14	1	1	ED4221	05/01/24 15:04:19
11. L1731390-02	200	1	200	1	1	04/30/24 12:00	1	1	ED4221	05/01/24 15:04:19
12. L1731390-03	200	1	200	1	1	04/30/24 11:47	1	1	ED4221	05/01/24 15:04:19
13. L1731406-01	200	1	200	1	1	04/30/24 09:51	1	1	ED4221	05/01/24 15:04:19
14. L1731406-02	200	1	200	1	1	04/30/24 09:54	1	1	ED4221	05/01/24 15:04:19
15. L1731406-03	200	1	200	1	1	04/30/24 09:47	1	1	ED4221	05/01/24 15:04:19
16. L1731406-04	200	1	200	1	1	04/30/24 09:50	1	1	ED4221	05/01/24 15:04:19
17. L1731406-05	200	1	200	1	1	04/30/24 10:05	1	1	ED4221	05/01/24 15:04:19
18. L1731406-06	200	1	200	1	1	04/30/24 10:06	1	1	ED4221	05/01/24 15:04:19
19. L1731406-07	200	1	200	1	1	04/30/24 10:03	1	1	ED4221	05/01/24 15:04:19
20. L1731406-08	200	1	200	1	1	04/30/24 10:11	1	1	ED4221	05/01/24 15:04:19

Comments:

Reviewed By:NIH4061 on 05/01/24 17:55:14

TO-15 Air VOCs Benchsheet

Batch: WG2278934

Analyst: WDB4169 **Tedlar Bag Lot#:** 428110-D221255-NSC3A **SOP:** ENV-SOP-MTJL-0104 **Method:** EPA TO-15

ICV, LCS/D Std: 24D26988 Amt. Used: 300 cc Exp. Date:09/05/24 **Internal Standard/Surrogate:** 24D25866 Amt. Used: 50 cc Exp. Date:10/25/24

Sample Number	Prep Flags	Reference Volume (mL)	Analytical Dilution	Sample Vol Used (mL)	Prep Factor	Prep Ratio	Collection Date	Spike Factor	Surrogate Factor	Review Analyst	Review Date
BLANK		200	1	200	1	1		1	1	WDB4169	05/02/24 12:26:21
LCS		300	1	300	1	1		1	1	WDB4169	05/02/24 12:26:21
LCSD		300	1	300	1	1		1	1	WDB4169	05/02/24 12:26:21
1. L1730235-01		200	100	2	1	1	04/25/24 14:40	1	1	WDB4169	05/02/24 12:26:21
2. L1730285-05		200	100	2	1	1	04/26/24 11:52	1	1	WDB4169	05/02/24 12:26:21
3. L1731008-01		200	20	10	1	1	04/29/24 13:27	1	1	WDB4169	05/02/24 12:26:21
4. L1731008-02		200	20	10	1	1	04/29/24 13:37	1	1	WDB4169	05/02/24 12:26:21
5. L1731200-01	W4	200	100	2	1	1	04/30/24 13:40	1	1	WDB4169	05/02/24 12:26:21
6. L1731209-01		200	20	10	1	1	04/24/24 11:02	1	1	WDB4169	05/02/24 12:26:21
7. L1731209-02		200	20	10	1	1	04/24/24 11:16	1	1	WDB4169	05/02/24 12:26:21
8. L1731351-01		200	400	0.5	1	1	04/25/24 12:35	1	1	WDB4169	05/02/24 12:26:21
9. L1731355-01		200	10	20	1	1	04/29/24 12:04	1	1	WDB4169	05/02/24 12:26:21
10. L1731357-02		200	10	20	1	1	04/29/24 09:00	1	1	WDB4169	05/02/24 12:26:21
11. L1731357-07		200	10	20	1	1	04/30/24 14:56	1	1	WDB4169	05/02/24 12:26:21
12. L1731357-08		200	100	2	1	1	04/30/24 15:11	1	1	WDB4169	05/02/24 12:26:21
13. L1731357-09		200	10	20	1	1	04/30/24 15:24	1	1	WDB4169	05/02/24 12:26:21
14. L1731366-02		200	5	40	1	1	04/30/24 15:38	1	1	WDB4169	05/02/24 12:26:21
15. L1731367-01		200	100	2	1	1	04/30/24 13:22	1	1	WDB4169	05/02/24 12:26:21
16. L1731393-02		200	20	10	1	1	04/30/24 09:36	1	1	WDB4169	05/02/24 12:26:21
17. L1731393-03		200	20	10	1	1	04/30/24 08:48	1	1	WDB4169	05/02/24 12:26:21

Comments:

Reviewed By: WDB4169 on 05/02/24 12:26:21

TO-15 Air VOCs Benchsheet

Batch: WG2279821

Analyst: CRT4095 **Tedlar Bag Lot#:** 428110-D221255-NSC3A **SOP:** ENV-SOP-MTJL-0104 **Method:** EPA TO-15

ICV, LCS/D Std: 24D12755 Amt. Used: 300 cc Exp. Date:09/05/24 **Internal Standard/Surrogate:** 24D22236 Amt. Used: 50 cc Exp. Date:10/22/24

Sample Number	Prep Flags	Reference Volume (mL)	Analytical Dilution	Sample Vol Used (mL)	Prep Factor	Prep Ratio	Collection Date	Spike Factor	Surrogate Factor	Review Analyst	Review Date
BLANK		200	1	200	1	1		1	1	CRT4095	05/03/24 16:41:05
LCS		300	1	300	1	1		1	1	CRT4095	05/03/24 16:41:05
LCSD		300	1	300	1	1		1	1	CRT4095	05/03/24 16:41:05
1. L1731355-02		200	10	20	1	1	04/29/24 12:54	1	1	CRT4095	05/03/24 16:41:05
2. L1731355-03		200	100	2	1	1	04/29/24 13:37	1	1	CRT4095	05/03/24 16:41:05
3. L1731355-04		200	100	2	1	1	04/29/24 00:00	1	1	CRT4095	05/03/24 16:41:05
4. L1731712-01		200	10	20	1	1	05/01/24 11:30	1	1	CRT4095	05/03/24 16:41:05
5. L1731712-02		200	10	20	1	1	05/01/24 11:55	1	1	CRT4095	05/03/24 16:41:05
6. L1731734-01		200	1	200	1	1	04/30/24 11:15	1	1	CRT4095	05/03/24 16:41:05
7. L1731734-02		200	1	200	1	1	04/30/24 13:00	1	1	CRT4095	05/03/24 16:41:05
8. L1731803-01	W4	200	10	20	1	1	05/01/24 13:50	1	1	CRT4095	05/03/24 16:41:05
9. L1731822-01		200	1	200	1	1	05/01/24 10:20	1	1	CRT4095	05/03/24 16:41:05
10. L1731823-01		200	1	200	1	1	05/01/24 13:18	1	1	CRT4095	05/03/24 16:41:05
11. L1731823-02		200	1	200	1	1	05/01/24 14:40	1	1	CRT4095	05/03/24 16:41:05
12. L1731823-03		200	1	200	1	1	05/01/24 13:51	1	1	CRT4095	05/03/24 16:41:05
13. L1731833-01		200	4	50	1	1	04/30/24 14:35	1	1	CRT4095	05/03/24 16:41:05
14. L1731833-02		200	2	100	1	1	04/30/24 15:12	1	1	CRT4095	05/03/24 16:41:05
15. L1731833-03		200	4	50	1	1	04/30/24 15:48	1	1	CRT4095	05/03/24 16:41:05
16. L1731833-04		200	2	100	1	1	04/30/24 16:23	1	1	CRT4095	05/03/24 16:41:05
17. L1732314-13		200	1	200	1	1	05/02/24 09:31	1	1	CRT4095	05/03/24 16:41:05
18. L1732314-14		200	1	200	1	1	05/02/24 12:39	1	1	CRT4095	05/03/24 16:41:05
19. L1732314-15		200	1	200	1	1	05/02/24 15:38	1	1	CRT4095	05/03/24 16:41:05
20. L1732314-16		200	1	200	1	1	05/02/24 15:38	1	1	CRT4095	05/03/24 16:41:05

Comments:

Reviewed By: CRT4095 on 05/03/24 16:41:05

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

COD	Coefficient of Determination.
Mass	Mass of parameter.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
RRF	Relative Response Factor.
RT	Retention Time.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Docusign Envelope ID: 8736B9F2-08F1-4966-B8AD-EAFEC4C33200

L-203

Pace® Location Requested (City/State):

Air CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY

Sample Receipt Checklist
COC Seal Present/Intact: Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Unused:
Size: 1L 6L 1.4L
Tage Color: G W P B
Tubing Shunt
T/P#:

Company Name: **Soil & Materials Engineeers**	Contact/Report To: **Mitch Cline**
Street Address: **11800 Exit 5 Parkway, Suite 106 Fishers, IN 46037**	Phone #: **317-876-0200**
	E-Mail: **mitch.cline@sme-usa.com;debbie.sherwood@sme-usa.com:amanda.mccartv@sme-usa.com**
City, State Zip:	Cc E-Mail:
Customer Project #: **089758.00.03B.005**	Invoice to:
Project Name: **1400 Blk S Hoyt Phase II**	Invoice E-Mail:
Site Collection Info/Facility ID (as applicable): **SOIMATIIN-08975800 MUNCIE, IN**	Purchase Order # (if applicable):
	Quote #:
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET	State origin of sample(s): Indiana

Field Information

Analyses Requested

TY 4/19/24

Proj. Manager: **4089 - Andi R Jones**

AcctNum / Client ID: **SOIMATIIN**

Table #:

Profile / Template: **T251209**

Prelog / Bottle Ord. ID: **P1069625**

Lab Use Only

Data Deliverables:
[ ] Level II [ ] Level III [X] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (CAA, RCRA, etc.) as applicable:

Rush (Pre-approval required): 2 Day 3 day 5 day Other

Permit # as applicable:

Date Results Requested: standard

Units for Reporting: (ug/m³) PPBV mg/m³ PPMV

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection Date	Begin Collection Time	End Collection Date	End Collection Time	Canister Pressure / Vacuum: Start Pressure / Vacuum (in Hg)	Canister Pressure / Vacuum: End Pressure / Vacuum (in Hg)	PUF / FILTER: Duration (minutes)	PUF / FILTER: Flow Rate m³/min or L/min	PUF / FILTER: Total Volume Sampled m³ or L	TO-15 Summa				Sample Comment
SG3	SV	22364	21056	4/29	1200	4/29	1204	-26	-4	4	L/min	1L	X				L1731355-01
SG2	SV	22382	20846	4/29	1246	4/29	1254	-27.5	-4	8	L/min	1L	X				02
SG1	SV	22060	20972	4/29	1333	4/29	1337	-24	-4	4	L/min	1L	X				03
SG - DUP1	SV	07974	21782	4/29	[redacted]	4/29	[redacted]	-25	-4	4	L/min	1L	X				04
					am		am										

Customer Remarks / Special Conditions / Possible Hazards:

Collected By:
Printed Name: Amanda McCarty
Signature:

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Amanda McCarty ISME	4/29/24 1600			
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: In- Person Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: Cont-4 AmB	FedEX UPS Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 5/1/24 0900	Page: 1 of: 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Passionate People Building
and Revitalizing our World

SME