

**CINDERELLA 248 LLC SITE
BROOKLYN, NEW YORK**

**PERIODIC REVIEW REPORT
MARCH 27, 2020 THROUGH MARCH 27, 2022**

NYSDEC BCP Number: C224160

Prepared for:

CINDERELLA 248, LLC

For Submittal to:

**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

Prepared by:

FPM group™

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BOHEMIA, NEW YORK 11716**

JUNE 2022

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B	Resumes of Environmental Professionals
C	EC/IC Certification
D	System Operating Log
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F	Data Usability Summary Reports

LIST OF ACRONYMS

Acronym	Definition
AGC	Annual Guidance Concentration
AS	Air sparging
ASP	Analytical Services Protocol
CLP	Contract Laboratory Protocol
DUSR	Data Usability Summary Report
ECs	Engineering Controls
FPM	FPM Group, Ltd.
HASP	Health and Safety Plan
ICs	Institutional Controls
MS/MSD	Matrix spike/matrix spike duplicate
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OM&M	Operation, Monitoring and Maintenance
QA/QC	Quality Assurance/Quality Control
scfm	standard cubic feet per minute
SGC	Short-Term Guidance Concentration
Standards	NYSDEC Class GA Ambient Water Quality Standards
SVE	Soil vapor extraction
ug/l	micrograms per liter
VCA	Voluntary Cleanup Agreement
VCP	Voluntary Cleanup Program
VOC	Volatile organic compound

EXECUTIVE SUMMARY

The findings in this Periodic Review Report (PRR) for the Cinderella 248 LLC Site (C224160), located in Brooklyn, New York, are summarized as follows:

- The EC (SSDS) remained in place and operational during the reporting period. Monitoring of the SSDS System was conducted during the reporting period in substantial conformance with the SMP. Effluent emissions were in compliance and did not require treatment.
- An IC (environmental easement) is in place and includes restrictions on property and groundwater use and requirements for operating, monitoring, and maintaining the ECs. The provisions of the IC were adhered to during the reporting period.

➤ Effectiveness of Remedial Program

- The remedial program has been effective at providing mitigation as demonstrated by the effluent testing which indicates that PCE is being removed from soil vapor and from the SVI sampling results which indicate that low indoor air PCE concentrations are below PCE's air guidance value (AGV).
- Indoor air sampling was conducted in December 2020 in accordance with the SMP. The testing results of the sampling indicated the presence of only very low concentrations of PCE which is not suggestive of a concern for SVI.
- Effluent concentration of PCE from SSDS system remain at low concentrations and are suggestive of reducing soil vapor concentrations.
- SVI sampling was conducted in March 2022 following an approximate six week period when the SSDS was shutdown in accordance with a NYSDEC approved SVI Work Plan. The testing results of the sub-slab soil vapor and corresponding indoor air sampling indicated that SVI is no longer a concern and that mitigation is no longer required.

➤ Recommendations

- Based on the March 2022 SVI Investigation results and observed decline of PCE in effluent SSDS discharge it is recommended that the SSDS system be shut down as the criteria for completion of remediation has been achieved and no longer warrants mitigation; and
- SVI monitoring should be discontinued as SVI no longer appears to be a concern at the site and adjoining properties.

SECTION 1.0 INTRODUCTION AND SITE OVERVIEW

1.1 Introduction

This Periodic Review Report (PRR) was prepared by FPM Group (FPM) to document site management activities at the Cinderella 248 Site (Site) conducted between March 27, 2020 and March 27, 2022 under the New York State (NYS) Brownfield Cleanup Program (BCP) administered by the New York State Department of Environmental Conservation (NYSDEC). These activities were conducted in accordance with a Site Management Plan (SMP) and subsequent recommendations for the Site as approved by NYSDEC. Copies of the NYSDEC correspondence received during the reporting period are included in Appendix A. The resumes of the FPM environmental professionals implementing the SMP on behalf of the Owner are included in Appendix B.

The Site has an EC consisting of a sub-slab depressurization system (SSDS) which was installed in accordance with a NYSDEC approved Remedial Design Work Plan to prevent soil vapor intrusion (SVI) at the Site and select nearby properties and prevent further migration of sub-slab soil vapors. The remedial activities were documented in the October 2017 Final Engineering Report, which the NYSDEC approved on November 27, 2017. SVI sampling was performed in December 2020 and March 2022 in accordance with the SMP and NYSDEC approved SVI Work Plan to demonstrate continued effectiveness of the SSDS and improvement in site conditions. Ongoing activities are conducted by FPM on behalf of the owner in accordance with the Site Management Plan (SMP).

1.2 Site Overview

Detailed Site background information was provided in the SMP. Information pertinent to implementation of the SMP during the current reporting period is summarized herein.

The site is located in Brooklyn, Kings County, New York and is identified as Block 936 and Lot 12 on the Kings County Tax Map. The site is an approximately 0.057-acre area and is bounded by 244 Flatbush Avenue to the north, 250 Flatbush Avenue to the south, Flatbush Avenue to the east, and 77 Prospect Place to the west (see Figure 1.2.1 – Site and Vicinity Plan).

The Site was formerly operated as a dry-cleaner from at least 1985 to 2005. During operations tetrachloroethylene (PCE), a common dry-cleaning solvent, was utilized onsite. Investigations identified VOC impacts (primarily PCE) to soil, groundwater, soil vapor and indoor air. Soils impacted with PCE were excavated and removed from the Site prior to the Site entering the BCP. Groundwater impacts were identified at low levels during prior investigations and did not require remediation or further investigation. Soil vapor and indoor air impacted by PCE was identified at levels for which mitigation was necessary at the Site and at other buildings in close proximity to the Site.

A SSDS system for the Site was installed between November 2015 and August 2016 to provide mitigation in accordance with the NYSDEC-approved Remedial Design Work Plan for the Site dated July 2015. SVI sampling results are documented in Section 3 of the report. As discussed,



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FIGURE 1.2.1

SITE AND VICINITY PLAN
CINDERELLA 248 LLC SITE
248 FLATBUSH AVENUE
BROOKLYN, NEW YORK

Drawn by: BC

Checked By: BC

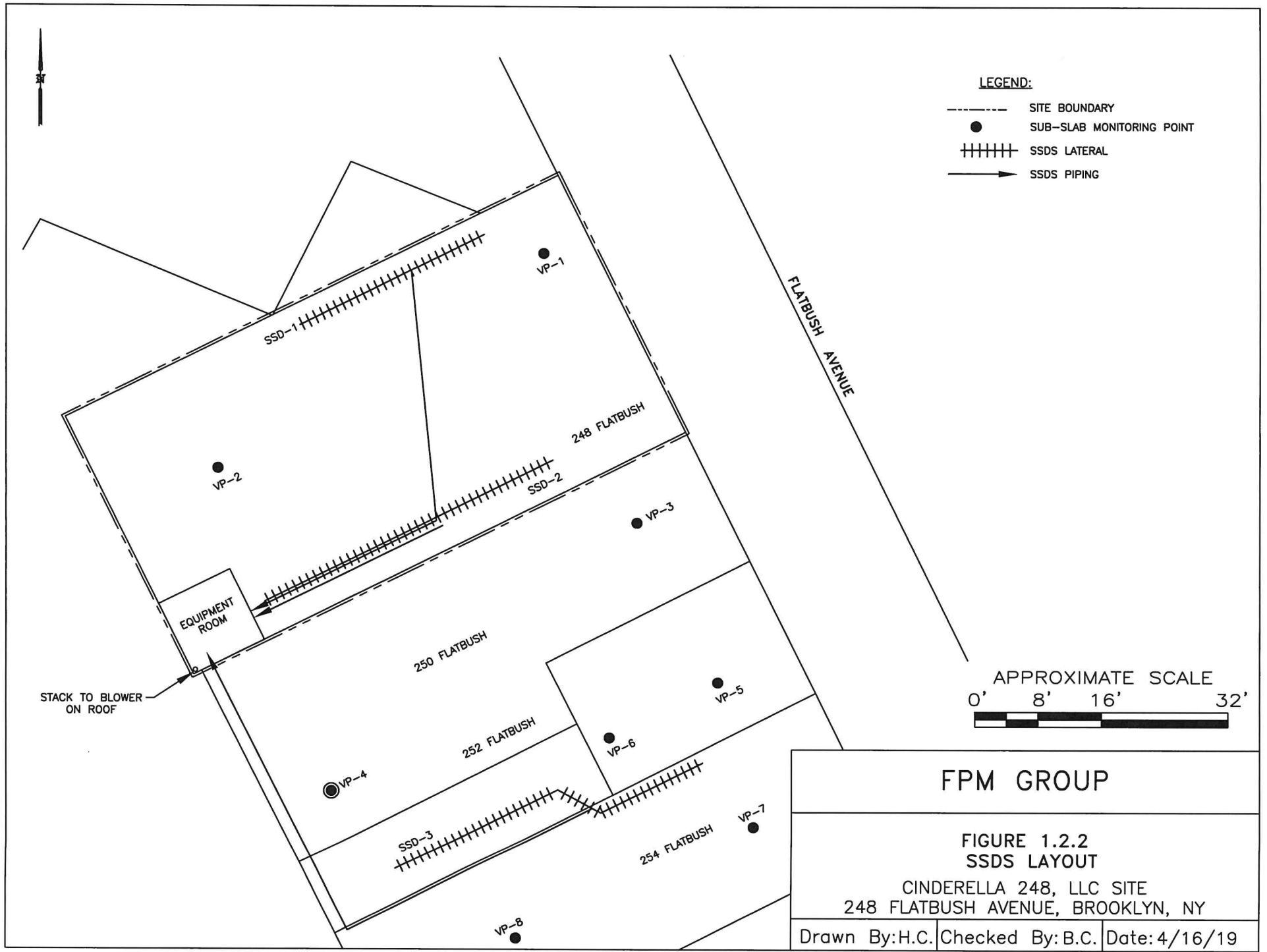
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in Section 3, the results indicate that the SSDS is effective and recent soil vapor intrusion sampling conducted in March 2022 indicates that mitigation is no longer warranted. Figure 1.2.2 depicts the mitigation system layout.

1.3 Evaluation of Remedy Performance, Effectiveness, and Protectiveness

The remedy has been implemented in compliance with the submitted and approved work plans and associated correspondence and was managed during this reporting period in substantial compliance with the SMP approved by the NYSDEC. During the reporting period, the remedy performed effectively to prevent SVI at the Site and at properties in its nearby proximity.

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SECTION 2.0

ENGINEERING AND INSTITUTIONAL CONTROLS COMPLIANCE

Contamination identified at the Site includes groundwater and soil vapor impacted with chlorinated solvent compounds, primarily PCE, in excess of Standards. Groundwater impacts identified at the Site included low levels of VOCs and did not require additional monitoring or remediation. The Engineering Control (EC) includes a SSDS system to provide mitigation of soil vapor and prevent SVI at the Site and select offsite properties. The SSDS has remained in operation during this reporting period in accordance with SMP. The EC implemented at the Site is described in more detail below.

At present, the SMP and related NYSDEC-approved documents serve as an IC as they are used to implement, maintain, and monitor the EC. Additional ICs are outlined in the IC/EC Certification Form and include a groundwater use restriction and land use restriction.

2.1 Engineering Control Component

The Site EC consisting of a sub-slab depressurization system (SSDS) was installed and has been in continuous operation from August 2016 to present to provide mitigation to the Site and select properties in the site's proximity. The layout consists of three sub-slab depressurization laterals, as shown on previously-presented Figure 1.2.2. Emissions from the SSDS are directed to a stack that discharges above the roof of the building.

Monitoring of the EC was performed during the reporting period in substantial conformance with the approved SMP; the results are documented in Section 3 of this report.

2.2 Institutional Control Component

The Site remedy required that an IC in the form of an environmental easement be placed on the property to (1) implement, maintain and monitor the ECs; (2) prevent future exposure to the remaining contamination by controlling disturbances of the subsurface contamination; and (3) limit the use and development of the property to restricted residential, commercial and industrial uses only. Adherence to these restrictions on the property is required by the environmental easement and is implemented under the SMP. The environmental easement for the property was executed by the property owner, Cinderella 248 LLC and is on file with the Kings County Clerk.

The IC for this Site includes the following requirements and restrictions:

- Requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- Allows the use and development of the controlled property for residential use, which allows for restricted-residential use, commercial use and industrial use, as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- Restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH; and

- Requires compliance with the Department approved Site Management Plan.

These requirements and restrictions are more fully described in the SMP and were complied with during the reporting period. The observed Site use during the reporting period (commercial) is consistent with the allowed uses. The Site is presently utilized as a gym. No disturbances or excavations of the Site occurred during the reporting period. Municipal water supply is provided in the Site vicinity and the Site groundwater is not used.

2.3 EC/IC Certification

The EC/IC Certification Form provided by the NYSDEC has been completed in accordance with the associated general certification instructions. The completed certification form is included in Appendix C.

SECTION 3.0 MONITORING PLAN COMPLIANCE

The monitoring plan for the Site includes measures for evaluating the performance and effectiveness of the EC in mitigating soil vapor at the Site and select nearby properties. Monitoring of the EC was performed during the reporting period by monitoring the SSDS system and SVI sampling was conducted to evaluate the effectiveness of the EC.

3.1 SSDS Monitoring

Monitoring of the SSDS system was performed during the reporting period, as discussed below. The monitoring included procedures to confirm and ensure system operation and to monitor effluent concentrations. Effluent monitoring was performed with a calibrated photoionization detector (PID) and periodically by obtaining effluent samples for laboratory analysis to evaluate the soil vapor conditions.

3.1.1 Summary of Monitoring Program

All monitoring activities were in substantial conformance with the SMP and were recorded on the System Operating Log. A copy of the System Operating Log is included in Appendix D.

System operation monitoring was generally performed on a quarterly basis during the reporting period from March 27, 2020 through March 27, 2022. Monitoring of the system in 2020 and 2021 was limited due to access limitations caused by the COVID-19 pandemic. System operation monitoring included recording vacuums and flowrate to confirm system operation parameters and vacuum measurements at monitoring points to confirm depressurization of the building slabs.

Effluent screening was performed during each monitoring event by collecting an effluent sample from the blower discharge piping and screening it with a calibrated PID. Effluent sampling was also performed periodically to further evaluate VOC emissions.

During the reporting period the NYSDEC (NYSDEC email correspondence to FPM May 2, 2022) was contacted by a local citizen whom was concerned that the discharge of the SSDS may have been modified and was relocated to the front of the building. FPM confirmed that emissions from the SSDS stack continue to be discharged above the roofline and that no changes have been made to the SSDS discharge plumbing. It was noted that an emergency vent for the natural gas services is present in the front of the building which could be misconstrued as a discharge vent for the SSDS by the local citizen. A photo showing the natural gas vent situated in front of the building, SSDS rooftop discharge vent and associated NYSDEC email is included in Appendix A.

3.1.2 SVI Sampling

To demonstrate the effectiveness of the SSDS system during the reporting period, SVI testing was conducted on December 2020 and March 2022.

3.1.2.1 December 2020 SVI Sampling

The December 2020 SVI sampling work was conducted in general accordance with the procedures in the SMP. One additional indoor air sample was collected from the basement of 252 Flatbush Avenue as this space is now being utilized for storage. An effluent sample was also collected for informational purposes in lieu of soil vapor samples because the SSDS was in operation. A site plan showing the locations of the SVI samples is included as Figure 3.1.2.1.

The indoor air samples were collected from a height of approximately four feet above the slab and the ambient air sample was collected from an outdoor location in proximity to 250 Flatbush Avenue and in a similar manner as the indoor air samples.

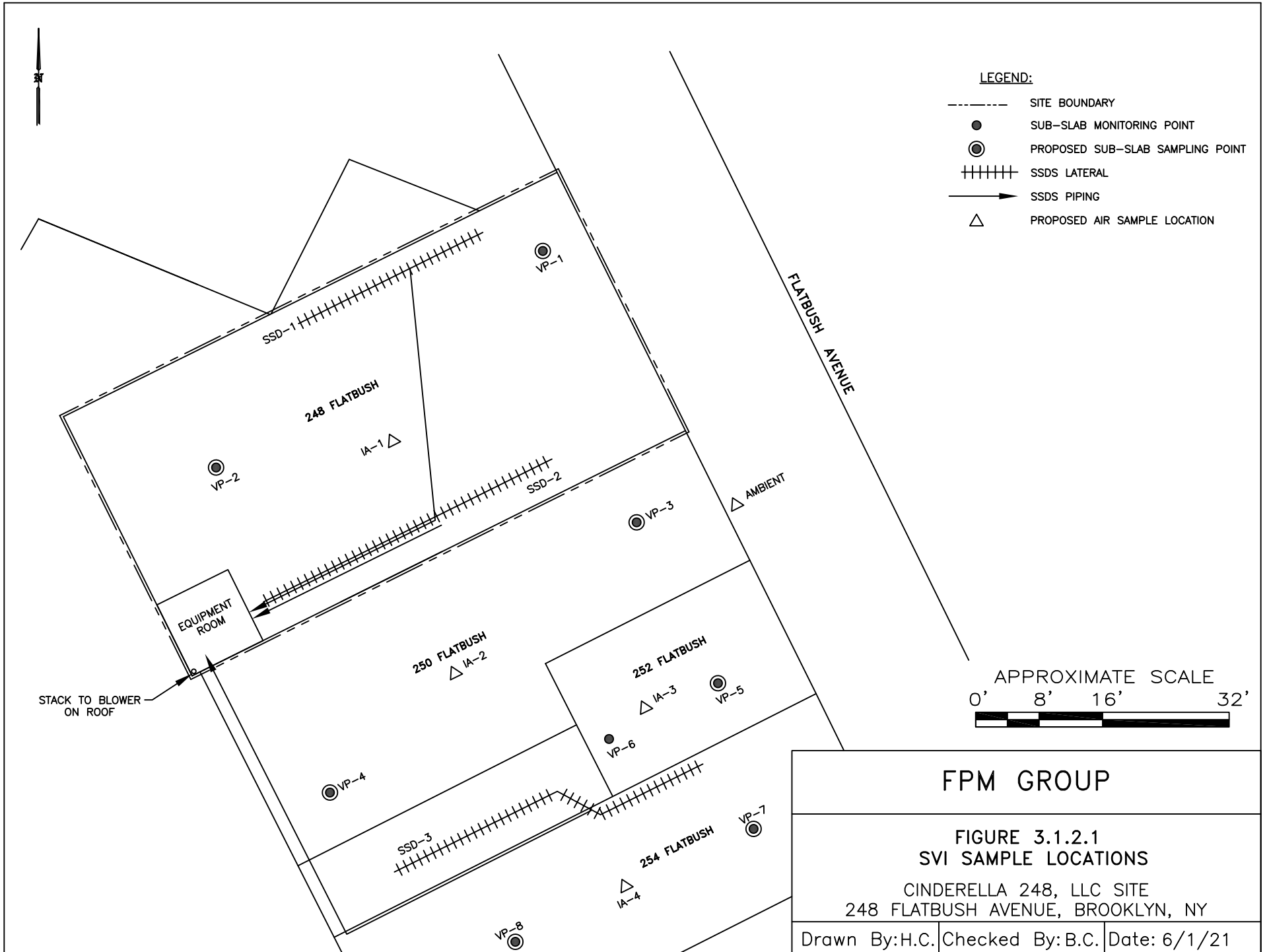
The air samples were collected in laboratory-provided Summa canisters equipped with flow controllers in accordance with NYSDOH guidance. The flow controllers for the indoor air and ambient air samples were set for an approximately six-hour period due to limits on time for access. The effluent air sample was collected in laboratory-provided Summa canister as a grab sample. The filled indoor canisters were managed under chain-of-custody procedures and transmitted to a NYSDOH-certified lab for analysis of volatile organic compounds (VOCs) using the TO-15 low level method. The SSDS effluent samples were analyzed for standard level VOCs by Method TO-15.

A building inventory form was completed during the course of the sampling event to document the potential presence of VOC sources in the building. No issues with the potential to affect indoor air quality were identified. The completed building inventory form is included as Attachment D.

Quality assurance/quality control (QA/QC) procedures were implemented and included field screening for organic vapors using a calibrated photoionization detector (PID), use of a chain of custody to document the sequence of sample possession, and collection and analysis of duplicate sample for QA/QC. In addition, the laboratory utilized internal QA/QC procedures and samples to confirm that the laboratory data are of sufficient accuracy and precision for their intended use. Following receipt of the chemical analytical data, the data package and associated QA/QC sample results were evaluated and a Data Usability Summary Report (DUSR) was prepared. The DUSR is included as Attachment F.

The data from this sampling event are summarized in Table 3.1.2.1 and the indoor air sample results were evaluated in accordance with NYSDOH Guidance. Based upon the absence of collocated soil vapor data (since the SSDS is currently in operation), which prevents a direct comparison with the NYSDOH soil vapor/indoor air matrix tables, the applicable air guidance values (AGVs) were utilized to demonstrate that the SSDS is effective and operating as designed. The effluent sample was collected, for general informational purposes, this data is summarized in Table 3.1.2.2 and the complete laboratory report is included in Appendix E. Our review of these data indicates the following:

- Two VOCs for which the NYSDOH provides guidance, carbon tetrachloride (CT) and tetrachloroethene (PCE), were detected in the indoor air samples;
- PCE was detected in the indoor air samples at very low concentrations ranging from 0.46 to 0.73 $\mu\text{g}/\text{m}^3$ and was not noted to be detected in the ambient air sample. The effluent sample from the SSDS at the time of the indoor air sampling was noted to be 26.6 $\mu\text{g}/\text{m}^3$. Based on these results the indoor air PCE concentrations and corresponding effluent emissions SVI does not appear to be occurring. It is further noted that the indoor air PCE concentrations are well below its respective AGV (30 $\mu\text{g}/\text{m}^3$). We conclude that PCE



**TABLE 3.1.2.1
INDOOR AIR SAMPLING RESULTS - DECEMBER 12, 2020
CINDERELLA 248 LLC SITE - NYSDEC SITE NO. C224160
248 FLATBUSH AVENUE, BROOKLYN, NEW YORK**

Sample No.	IA-1	IA-2	IA-99 (duplicate)	IA-3	IA-4	Ambient (AA-1)	Indoor Air Background Levels, Commercial*
Sample Location	248 Flatbush Avenue Basement	250 Flatbush Avenue Basement		252 Flatbush Avenue Basement	254 Flatbush Avenue Basement	Outdoors	
Sample Date	12/22/20						
Volatile Organic Compounds in ug/m³							
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	1.08	1.7 - 13.7
Acetone	25.9	22.3	22.4	20.8	14.0	30.1	32.4 - 120.2
Benzene	1.02	<1.0	<1.0	1.12	<1.0	2.52	2.1 -12.5
Carbon Tetrachloride	0.51	0.54	0.52	0.56	0.52	0.49	<0.8 - 0.7
Chloroform	<1.0	1.67	1.86	3.96	2.31	<1.0	<0.4 - 1.4
Chloromethane	1.10	1.02	<1.0	1.09	1.10	1.38	2.1 - 4.4
Cyclohexane	<1.0	<1.0	<1.0	<1.0	<1.0	6.98	-
Dichlorodifluoromethane	2.11	2.12	2.07	3.12	2.09	2.24	4.8 - 32.9
Ethanol	695	89.6	94.5	77.8	31.6	233	26.0 - 290.0
Heptane	<1.0	<1.0	<1.0	<1.0	<1.0	5.28	-
Hexane	<1.0	1.04	<1.0	1.71	<1.0	7.93	1.6 - 15.2
Isopropyl alcohol	11.7	8.50	8.35	16.6	9.26	16.2	-
m,p- Xylenes	1.14	1.35	1.48	1.91	1.37	3.24	4.1 - 28.5
Methyl ethyl ketone	<1.0	<1.0	<1.0	1.23	<1.0	178	-
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	1.29	<2.4 - 11.2
Tetrachloroethene	0.46	0.66	0.66	0.73	0.53	<1.0	<1.9 - 25.4
Tetrahydrofuron	<1.0	<1.0	<1.0	<1.0	<1.0	1.74	-
Toluene	5.42	2.26	2.16	3.58	4.75	6.97	10.7 - 70.8
Trichlorofluoromethane	1.65	1.77	1.95	1.91	1.91	2.04	<3.7 - 54.0

All samples analyzed using Method TO-15.

Only compounds detected in one or more samples are reported herein. See lab report for complete data.

ug/m³ = micrograms per cubic meter.

Shaded compounds are those for which the NYSDOH has provided guidance.

** = NYSDOH Study 2003; 25th to 95th percentiles.

TABLE 3.1.2.2
EFFLUENT SAMPLING RESULTS
CINDERELLA 248 LLC SITE - NYSDEC SITE NO. C224160
248 FLATBUSH AVENUE, BROOKLYN, NEW YORK

Sample No.	SSDS Effluent			
Sample Location	248 Flatbush Avenue			
Collection Date	9/1/2020	12/20/2020	8/9/2021	2/2/2022
Volatile Organic Compounds in ug/m³				
1,2,4-Trimethylbenzene	2.3	ND	1.49	ND
1,2-Dichloroethane	0.89	ND	ND	ND
1,3,5-Trimethylbenzene	0.79	ND	ND	ND
1,4-Dichlorobenzene	6.9	ND	ND	ND
2-Butanone (MEK)	3.9	ND	ND	1.11
2-Hexanone	0.94	ND	ND	ND
4-Methy-2-pentanone	4.3	ND	ND	ND
Acetone	60	6.62	23.2	32.0
Acrylonitrile	2.6	ND	ND	ND
Benzene	0.58	ND	ND	1.52
Caron disulfide	0.87	ND	ND	ND
Carbon tetrachloride	0.50	0.48	0.57	0.48
Chloroform	0.63	2.17	4.74	1.22
Chloromethane	1.8	ND	ND	ND
cis 1,2-Dichloroethylene	ND	ND	ND	ND
cyclohexane	0.55	ND	ND	ND
Dichlorodifluoromethane	ND	1.61	2.35	1.40
Ethanol	ND	135	94.3	209
Ethyl Acetate	5.3	ND	ND	ND
Ethylbenzene	3.3	ND	ND	ND
Isopropylalcohol	ND	2.85	5.28	10.8
Isopropylbenzene	ND	ND	1.01	ND
Methyl Methacrylate	4.1	NA	NA	NA
n-Heptane	2.9	ND	1.04	ND
n-Hexane	2.6	1.02	ND	2.03
Methylene Chloride	ND	6.80	ND	4.03
o-Xylene	2.3	ND	ND	ND
p,m-Xylenes	7.7	1.41	1.51	1.02
p-ethyltoluene	1.7	ND	NA	NA
Styrene	4.2	ND	ND	ND
Tetrachloroethene	12	28.6	31.5	8.13
Toluene	17	2.69	8.32	4.14
Trichloroethylene	0.32	ND	ND	ND
Trichlorofluoromethane	1.3	1.30	1.37	1.45

Notes:

All samples analyzed using Method TO-15.

Only compounds detected in one or more samples are reported herein. See lab report for complete data.

ug/m³ = micrograms per cubic meter.

ND = Not detected, NA= Not Analyzed



- continues to not present a concern for indoor air;
- CT was detected at each of the indoor air sampling locations at generally low concentrations, ranging from 0.51 to 0.56 $\mu\text{g}/\text{m}^3$. CT was also noted in the outdoor ambient air sample at a concentration (0.49 $\mu\text{g}/\text{m}^3$) similar to the indoor air samples. We conclude that the CT concentrations are not attributed to the Site and are related to ambient air conditions in the Site vicinity; and
- Several VOCs were detected at concentrations generally comparable to concentrations found within indoor air at commercial buildings. None of these detections were highly elevated or present a concern.

In conclusion, the air sampling results confirm that the SSDS is operating as intended to prevent SVI. This testing was performed in general accordance with the NYSDEC-approved SMP, except as discussed above.

3.1.2.2 March 2022 SVI Sampling

The December 2022 SVI sampling work was conducted in accordance with FPM's January 2022 SVI Work Plan which included indoor air sampling and sub-slab soil vapor sampling as SSDS monitoring appeared to indicate the criteria for termination of the SSDS had been achieved. In preparation for the SVI testing the SSDS system was shut down for approximately six weeks. The testing was conducted while the SSDS was offline and the SSDS was placed online following completion of testing. A site plan showing the locations of the SVI samples is included as Figure 3.1.2.1. Copies of the NYSDEC comments to the initial SVI Work Plan submittal, revised SVI work plan and NYSDEC approval are included in Appendix A.

The indoor air samples were collected from a height of approximately four feet above the slab and the ambient air sample was collected from an outdoor location in proximity to 250 Flatbush Avenue and in a similar manner as the indoor air samples.

The air and sub-slab soil vapor samples were co-located and collected in laboratory-provided Summa canisters equipped with flow controllers in accordance with NYSDOH guidance. The flow controllers for the sub-slab soil vapor, indoor air and ambient air samples were set for an approximate eight-hour period, comparable to typical building occupancy. Filled indoor and ambient air canisters were managed under chain-of-custody procedures and transmitted to a NYSDOH-certified lab for analysis of volatile organic compounds (VOCs) using the TO-15 low level method. The sub-slab soil vapor samples were analyzed for standard level VOCs by Method TO-15.

A building inventory form was completed during the course of the sampling event to document the potential presence of VOC sources in the building. No issues with the potential to affect indoor air quality were identified. The completed building inventory form is included as Attachment D.

Quality assurance/quality control (QA/QC) procedures were implemented and included field screening for organic vapors using a calibrated photoionization detector (PID), use of a chain of custody to document the sequence of sample possession, and collection and analysis of duplicate sample for QA/QC. In addition, the laboratory utilized internal QA/QC procedures and samples to confirm that the laboratory data are of sufficient accuracy and precision for their intended use. Following receipt of the chemical analytical data, the data package and associated QA/QC sample

results were evaluated and a Data Usability Summary Report (DUSR) was prepared. The DUSR is included as Attachment F. The complete analytical laboratory report is included in Appendix E.

The data from this sampling event are summarized in Table 3.1.2.2.1 and the indoor air sample results were evaluated in accordance with NYSDOH Guidance. Our review of these data indicates the following:

- Several compounds for which the NYSDOH provides guidance were detected including carbon tetrachloride (CT), cis 1,2-dichloroethane (CIS-12 DCE), methylene chloride (MC), and tetrachloroethylene (PCE) at low concentrations. A review of the indoor air with corresponding sub-slab soil vapor data indicates a response of “no further action” for all the aforementioned compounds for which NYSDOH provides guidance;
- Several VOCs for which there is no NYSDOH guidance were noted and were generally within the range of observed concentrations for indoor air for commercial buildings, with the exception of ethanol in one of the indoor air samples from the 248 Flatbush Ave building. The ethanol is likely associated with sanitizers used at the building and does not suggest a concern; and
- No significant concentrations of VOCs were noted in the outdoor ambient sample. Carbon tetrachloride was noted to be at very similar concentrations in both the indoor air samples and the outdoor ambient sample. Methylene chloride and tetrachloroethylene were also noted at general low levels in the ambient air indicating the outdoor air in the site vicinity may be contributing to some of the concentrations observed in the indoor air samples. These results were considered when evaluating the indoor air data.

In conclusion, the air sampling results confirm that SVI is no longer a concern for the Site and adjoining properties.

3.1.3 SSDS Monitoring Results

Effluent monitoring was performed to ensure that effluent treatment is not required prior to discharge and to assess potential improvements in sub-slab soil vapor conditions. During the reporting period no PID responses, as measured with a calibrated Photovac 2020 Pro PID, were noted (see System Log in Appendix-D).

The summarized effluent sampling results for PCE, the primary compound of concern for the Site, indicate that removal of PCE is decreasing and becoming more asymptotic. This trend is evident by generally decreasing concentrations of PCE as shown in Table 3.1.3.1 and mass removal as shown in Figure 3.1.3.1. The effluent data were also evaluated for compliance with NYSDEC Air Guide criteria with respect to the corresponding AGCs and SGCs, as appropriate. No VOCs were noted to exceed their respective AGCs and SGCs, and therefore, the system emissions remain in compliance and well below the levels required for treatment. The complete effluent laboratory reports for the reporting period are included in Appendix E.

System monitoring parameters and vacuum monitoring points were also measured to evaluate the performance of the SSDS. The system parameters (flow rates, vacuums) were noted to be within the design parameters and conditions as observed during the startup of the SSDS. Vapor monitoring point vacuums have been noted to be variable and have generally decreased since startup, however the decreased sub-slab vacuum

**TABLE 3.1.2.2.1
INDOOR AIR AND SOIL VAPOR SAMPLING RESULTS
CINDERELLA 248 LLC SITE - NYSDEC SITE NO. C224160
248 FLATBUSH AVENUE, BROOKLYN, NEW YORK**

Sample No.	VP-1	VP-2	IA-1	IA-1D (duplicate)	VP-3	VP-4	IA-2	VP-5	IA-3	VP-7	VP-8	IA-4	Ambient (AA-1)	Indoor Air Background Levels, Commercial*
Sample Location	248 Flatbush Avenue Basement				250 Flatbush Avenue Basement			252 Flatbush Avenue Basement		254 Flatbush Avenue Basement			Outdoors	
Sample Date	3/17/22													
Volatile Organic Compounds in ug/m ³														
Acetone	27.1	22.6	65.0	18.5	13.5	14.0	9.09	2.56	8.64	14.1	2.09	8.69	11.3	32.4 - 120.2
Benzene	1.03	1.05	1.06	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.46	2.1 - 12.5
Carbon Tetrachloride	0.59	0.64	0.51	0.54	0.50	0.52	0.50	0.51	0.52	0.52	0.50	0.53	0.52	<0.8 - 0.7
Chloroform	2.06	< 1.00	< 1.00	1.11	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.44	< 1.00	< 1.00	<0.4 - 1.4
Chloromethane	1.24	< 1.00	1.43	1.26	< 1.00	< 1.00	1.08	< 1.00	1.27	< 1.00	< 1.00	1.18	1.21	2.1 - 4.4
Cis-1,2-Dichloroethene	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.30	< 0.20	<0.8-<2.0
Dichlorodifluoromethane	2.33	2.41	2.54	2.31	2.36	2.51	2.36	2.52	2.61	2.48	2.50	2.61	2.65	4.8 - 32.9
Ethanol	241	113 E	1,220	120 E	73.6	65.7	15.0	5.72	10.0	62.0	4.33	23.3	22.4	26.0 - 290.0
Hexane	< 1.00	< 1.00	1.41	1.08	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.6 - 15.2
Isopropyl alcohol	25.5	23.0	78.1	18.3	16.5	17.3	3.46	< 1.00	2.28	23.1	1.01	4.03	4.0	-
m,p- Xylenes	1.17	1.02	2.08	< 1.00	< 1.00	< 1.00	< 1.00	1.10	< 1.00	< 1.00	< 1.00	< 1.00	1.76	4.1 - 28.5
Methyl ethyl ketone	3.42	2.14	2.10	1.90	1.63	1.50	< 1.00	< 1.00	< 1.00	1.57	< 1.00	< 1.00	1.28	-
Methylene Chloride	< 3.00	< 3.00	< 3.00	4.96	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	<1.7-16.0
Propylene	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.82	3.10	<2.4 - 11.2
Styrene	3.45	4.17	<1.00	1.08	1.15	5.53	<1.00	<1.00	<1.00	<1.00	2.10	<1.00	<1.00	<1.6-4.3
Tetrachloroethene	0.39	0.51	<0.25	0.60	0.31	0.42	0.34	2.97	0.31	0.28	19.3	2.38	0.41	<1.9 - 25.4
Tetrahydrofuron	1.89	1.83	1.58	1.53	1.23	1.35	<1.00	<1.00	<1.00	1.16	<1.00	<1.00	<1.00	-
Toluene	3.39	8.44	3.70	2.65	1.43	1.44	1.63	1.67	2.38	1.83	1.07	2.96	3.69	10.7 - 70.8
Trichlorofluoromethane	1.35	1.47	1.56	1.33	1.31	1.39	1.40	1.44	1.41	1.35	1.42	1.47	1.58	<3.7 - 54.0

All samples analyzed using Method TO-15.

Only compounds detected in one or more samples are reported herein. See lab report for complete data.

ug/m³ = micrograms per cubic meter.

Shaded compounds are those for which the NYSDOH has provided guidance.

** = NYSDOH Study 2003; 25th to 95th percentiles.

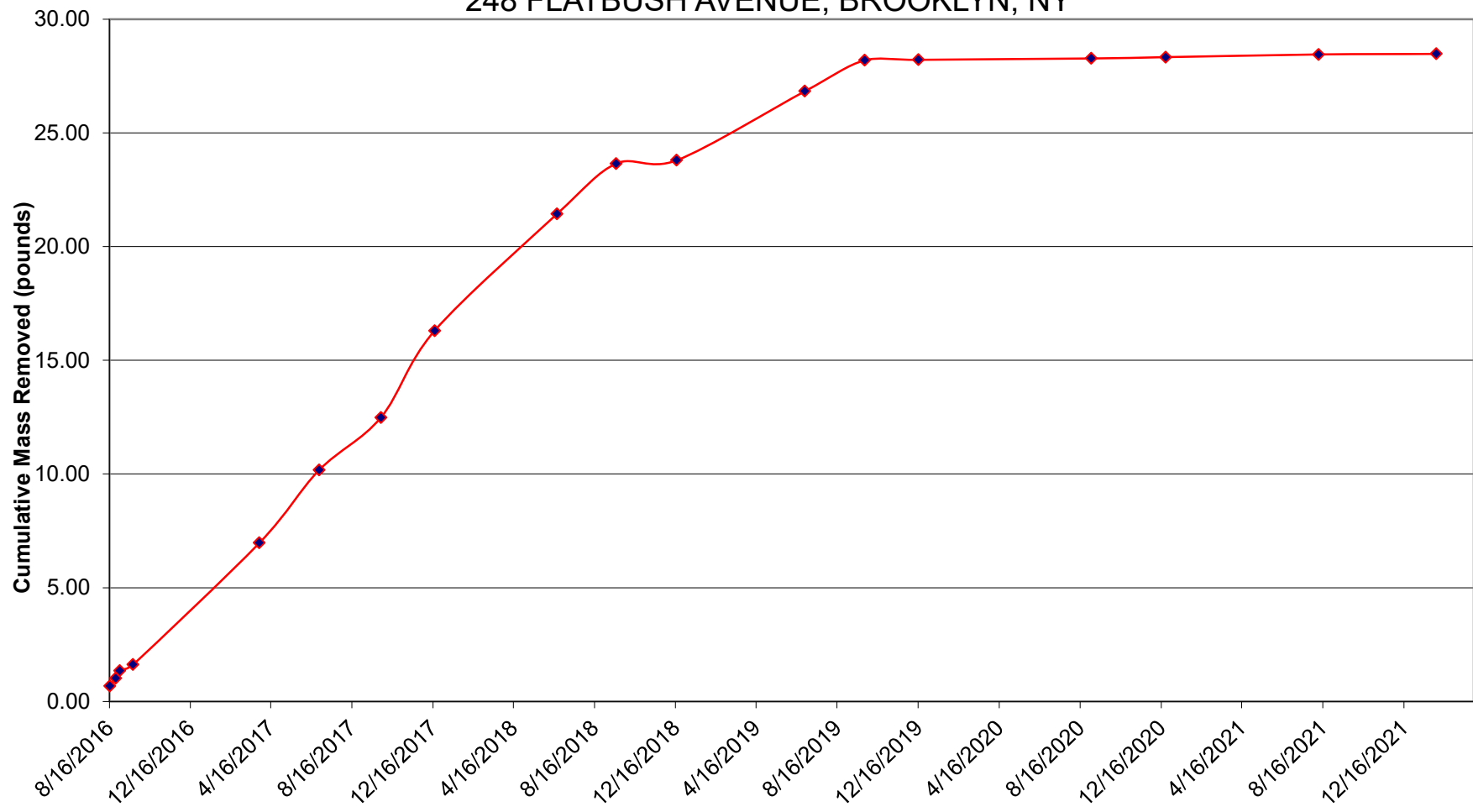
**TABLE 3.1.3.1
PCE EFFLUENT CONCENTRATIONS
CINDERELLA 248 LLC SITE, NYSDEC SITE NO. C224160
248 FLATBUSH AVENUE, BROOKLYN, NEW YORK**

Sample Date	8/16/2016	8/25/2016	8/31/2016	9/20/2016	3/29/2017	6/27/2017	9/28/2017
Tetrachloroethylene (ug/m ³)	3,700	2,900	3,800	930	1,900	2,400	1,500

Sample Date	12/18/2017	6/20/2018	9/17/2018	12/17/2018	6/28/2019	9/26/2019	9/26/2019
Tetrachloroethylene (ug/m ³)	3,000	1,600	1,300	89	860	678.3	678.3

Sample Date	12/6/2019	12/6/2019	9/1/2020	12/22/2020	8/9/2021	2/2/2022
Tetrachloroethylene (ug/m ³)	6.49	6.49	12.0	26.6	31.5	8.13

FIGURE 3.1.3.1
 CUMULATIVE PCE REMOVAL
 CINDERELLA 248, LLC SITE
 248 FLATBUSH AVENUE, BROOKLYN, NY



measurements do not appear to be affecting the performance or effectiveness of the system based on the effluent PCE concentrations and air sampling results.

3.1.4 Monitoring Deficiencies

During the reporting period monitoring, quarterly monitoring of the SSDS could not always be performed on a regular quarterly basis due to access limitations during the pandemic. During these instances the Site and adjoining properties were reported to be closed and not occupied. While some system monitoring deficiencies were noted during this reporting period, these deficiencies did not appear to have significantly affected operation of the SSDS as it was noted to remain in continuous operation.

3.1.5 Monitoring Conclusions and Recommendations

The monitoring results for the reporting period indicate that low to very low levels of PCE remain present in the soil vapor as evident by the effluent concentrations. SVI monitoring conducted in March 2022 (discussed above) indicates that the criteria for termination of mitigation has been met. Therefore, as the criteria for termination of mitigation has been achieved, we recommend that the SSDS be shut down and that site monitoring be discontinued.

SECTION 4.0 OPERATION AND MAINTENANCE PLAN COMPLIANCE

The Site has O&M requirements for the SSDS while the system is operational. During this reporting period the SSDS operation was checked quarterly.

4.1 Summary of O&M Activities

The SSDS was checked during the reporting period. Routine maintenance of the system including checks of the condensate vessel, air filter, and other components were performed. System operating parameters, including vacuum and flow rates, were also collected to evaluate system performance and the need for preventative maintenance.

4.2 Evaluation of O&M Activities

The O&M activities enabled the SSDS operating as intended.

4.3 O&M Deficiencies

No O&M deficiencies were noted during this reporting period, with the exception that access was limited in 2020 and 2021 due to the closure of some facilities due to the COVID 19 Pandemic. While some system monitoring deficiencies were noted during this reporting period, these deficiencies did not appear to have significantly affected operation of the SSDS as it was noted to remain in continuous operation.

4.4 O&M Conclusions and Recommendations

O&M activities were effective during this reporting period. O&M activities will continue, as appropriate, during the next reporting period unless permission to shut down the system is approved by NYSDEC as the criteria for termination of mitigation has been achieved.

SECTION 5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Compliance with EC/ICs and Monitoring Plan

Assessment of overall Site compliance, including the EC (SSDS), IC, and monitoring plans during the reporting period are summarized as follows:

➤ ECs and IC Compliance

- The EC for the Site, an SSDS, remained in place and operational during the reporting period.
- An IC (environmental easement) is in place and includes restrictions on property use, and requirements for operating, monitoring, and maintaining the EC. The provisions of the IC were adhered to during the reporting period and the EC/IC Certification is included in this PRR.

➤ Monitoring and O&M

- Monitoring of the SSDS was conducted during the reporting period. Emissions were in compliance and did not require treatment. Routine maintenance was performed, as needed.
- SVI sampling was conducted during the reporting and confirmed the EC was effective for mitigation of soil vapor and preventing SVI. Monitoring conducted in 2022 indicates that the criteria for termination of mitigation has been achieved and mitigation is no longer warranted.

5.2 Performance and Effectiveness of the Remedy

The remedy has been implemented and managed in compliance with the SMP.

5.3 Recommendations

Based on the current Site conditions, FPM recommends the following:

- Shutdown of the SSDS as the criteria for termination of mitigation has been achieved and mitigation is no longer warranted; and
- SVI monitoring should be discontinued as the December 2020 and March 2022 SVI monitoring demonstrate that SVI is no longer a concern at the Site and adjoining properties.

APPENDIX A

- **NYSDEC 2019-2020 PRR APPROVAL -(6/17/20)**
- **NYSDEC SVI WORK PLAN COMMENTS -(1/19/22)**
- **SVI WORK PLAN (REVISED 1/25/22)**
- **NYSDEC SVI WORK PLAN APPROVAL (1/27/22)**
- **2022 PRR REMINDER NOTICE (2/8/22)**
- **NYSDEC EMAIL (5/2/22)**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation

625 Broadway, 11th Floor, Albany, NY 12233-7020

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www.dec.ny.gov

SENT VIA EMAIL

June 17, 2020

Cinderella 248 LLC
Michael Pintchik
254 Flatbush Avenue
Brooklyn, NY 11217

Re: Site Management (SM) Periodic Review Report (PRR) Response Letter
Cinderella 248 LLC, Brooklyn
Kings County, Site No.: C224160

Dear Michael Pintchik (as the Certifying Party):

The Department has reviewed your Periodic Review Report (PRR) and IC/EC Certification for following period: March 27, 2019 to March 27, 2020.

The Department hereby accepts the PRR and associated Certification. As requested, the frequency of Periodic Review submittals for this site has been changed from every 1 year to every 2 years. Therefore, your next PRR is due on April 26, 2022. You will receive a reminder letter and updated certification form 75-days prior to the due date. Regardless of receipt or not, of the reminder notice, the next PRR including the signed certification form, is still due on the date specified above.

If you have any questions, or need additional forms, please contact me at 518-402-9690 or e-mail: alicia.barraza@dec.ny.gov.

Sincerely,



Alicia Barraza
Project Manager

ec: Michael Pintchik
A. Barraza, Project Manager
J. O'Connell, RHWRE
W. Kuehner, DOH Project Manager
J. Nealon, DOH

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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SENT VIA EMAIL

January 19, 2022

Cinderella 248 LLC
Michael Pintchik
254 Flatbush Avenue
Brooklyn, NY 11217

Re: Soil Vapor Intrusion Sampling Plan
Cinderella 248 LLC, Brooklyn
Kings County, Site No.: C224160

Dear Michael Pintchik:

The Department and the New York State Department of Health (NYSDOH) have reviewed the Soil Vapor Intrusion Sampling Work Plan letter (the "Work Plan") dated December 16, 2021 and prepared by FPM Group for the Cinderella 248, LLC Brownfields Cleanup Program site. The following comments are requested to be addressed in a revised submittal:

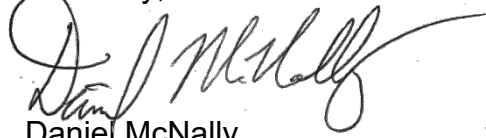
1. It must be made clear within the body of the soil vapor intrusion investigation narrative that the sub-slab depressurization system (SSDS) will be turned off, and the length of time the system will be shut off prior to sampling. This is touched on in the closing of the letter by stating the proposed work would occur approximately six weeks after system shut down.
2. Clarify and state that the SSDS will be turned back on and returned to normal operation following the sampling event while waiting for results of the analysis, drafting of the subsequent report, and review of the recommendations by the Department and NYSDOH.
3. Given the evaluation of the SSDS effluent during startup (per the FER) indicated treatment of the SSDS effluent was not required, what was/is the reasoning for monitoring and calculating the mass removal rate? Mass removal rates are not typically applicable to SSDSs, as the systems are intended to mitigate potential exposures, not to conduct remediation or remove significant contaminant mass. Pointing to decreasing effluent contaminant concentrations would have been sufficient justification for proposing potential system shut down. Clarify and elaborate on contaminant mass removal as it relates to the SSDS.



Department of
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Conservation

It is understood that the SSDS is planned for shutdown next week. That task can proceed as necessary while the Work Plan is revised per the above comments. If you have any questions or concerns, please contact me at (518)402-9767 or e-mail: daniel.mcnally@dec.ny.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Daniel McNally", with a long, sweeping horizontal line extending to the right.

Daniel McNally,
Project Manager

ec: Michael Pintchik, Applicant
B. Cancemi, FPM Group
D. McNally, Project Manager
G. Burke, Bureau Director, B
J. O'Connell
W. Kuehner, DOH Project Manager
J. Nealon, DOH

VIA EMAIL

January 25, 2022

Mr. Daniel McNally
Project Manager
New York State Department of Environmental Conservation
625 Broadway,
Albany, NY 12233-7015

Re: **Soil Vapor Intrusion Sampling Work Plan-revised
Cinderella 248, LLC NYSDEC Site No. C224160
248 Flatbush Avenue, New York
FPM File No.1104g-21-09-01**

Dear Mr. McNally:

This soil vapor intrusion (SVI) work plan has been revised by FPM Group (FPM) to address comments provided by the NYSDEC in its correspondence dated January 19, 2021 on our December 16, 2021 SVI Work Plan for the above-referenced Site. The investigation is being proposed to determine if SVI continues to pose a concern at the Site and if continued operation of the mitigation system is necessary to prevent potential SVI at the Site and adjoining properties situated at 250, 252 and 254 Flatbush Avenue. It is noted that the SSDS will be shut down six weeks prior to conducting the SVI testing and that it will be placed back online to normal operation immediately following completion of testing. The Site (248 Flatbush Avenue) is presently utilized as a gym with workout areas on the first floor, and locker rooms and storage areas situated in the basement. The buildings at 250 and 252 Flatbush Avenue are presently vacant and were most recently utilized for offices and retail space on the first floor with storage in the basement areas. 254 Flatbush Avenue is presently utilized for offices on the first floor and storage space in the basement. A site plan showing the site and adjoining properties is included as Figure 1.

Ongoing monitoring of the tetrachloroethylene emissions from sub-slab depressurization system has been conducted to assess sub-slab soil vapor conditions while the system was in operation and also to assess when mitigation may no longer be necessary. Using these data, a trend of decreasing concentrations and cumulative rate of removal has been observed over the past several years and has become generally asymptotic since late 2019. Graphs summarizing the cumulative tetrachloroethylene (PCE) removal and PCE effluent concentrations are attached as Figures 2 and 3, respectively. This effluent emissions data appears to indicate that only low levels of site related volatile organic compounds (primarily PCE) are present in sub-slab soil vapor.

The sampling will be performed in accordance with the procedures in the NYSDEC-approved Site Management Plan (SMP) and NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006, updated 2017), and is further discussed below. A site plan (attached) showing the location of the existing sub-slab monitoring points, indoor air and outside air sampling locations, and pertinent site features is attached for your reference. The sampling will include

sub-slab monitoring points VMP-1 through VMP-5, VMP-7 and VMP-8 and indoor air samples IA-1 through IA-4. An ambient air sample and duplicate sample will also be collected. The SVI sample locations are shown in Figure 1.

The proposed soil vapor intrusion investigation is as follows:

- Prior to conducting the SVI testing, the SSDS system will be shut down for a period of six weeks to allow sufficient time for the subsurface soil vapors conditions to return to equilibrium. Routine O & M of the SSDS will be performed prior to shutting the system down.
- Seven existing sub-slab monitoring points (VMP-1 through VMP-5, VMP-7 and VMP-8) will be utilized. Prior to sampling the sampling point will be purged and the seal integrity will be tested with an inert gas (helium) in accordance with NYSDOH guidance. A laboratory-provided Summa canister equipped with an approximate 8-hour flow controller (such that the canister is filled at a rate of less than 0.2 liters per minute) will be attached and collected concurrently with the indoor and outdoor (ambient) sample as discussed below;
- Indoor air sampling will be conducted at 248 (IA-1), 250 (IA-2), 252 (IA-3) and 254 (IA-4) Flatbush Avenue and an outdoor (ambient) air sampling will be performed concurrently with sub-slab sampling. The laboratory-provided Summa canisters will be placed at a height of approximately four feet above grade in the building and outdoors in proximity to the building. Each canister including the duplicate shall be equipped with flow controller such that the canister is filled at a rate of less than 0.2 liters per minute. Sampling will be conducted over an approximate 8-hour period making sure that a vacuum is present upon completion of sampling. Upon completion of sampling the SSDS will be placed back online to normal operation and will not be shutdown until approval is provided by the NYSDEC and NYSDOH.
- A product inventory and site survey documenting potential sources of VOCs will be conducted to assist in the evaluation of the sample results;
- The canisters shall be sealed, labeled, managed, transported and transported to Phoenix Environmental Laboratories a NELAC certified laboratory for analysis of VOCs using the TO-15 Method. Low level analysis of VOCs will also be performed on indoor air and ambient air samples. All samples will be collected in accordance with NYSDOH guidance. Quality assurance/quality control (QA/QC) samples (duplicate), Category B lab reports, and data usability summary reports (DUSRs) will be provided; and
- A copy of the non-validated laboratory data will be provided to the NYSDEC following receipt from the analytical laboratory for preliminary review. FPM will prepare a report documenting the investigation results for submittal to the NYSDEC and NYSDOH together with our recommendations.

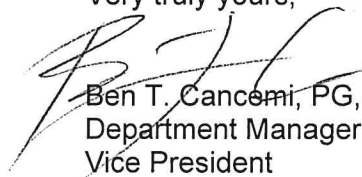
Mr. Daniel McNally

-3-

January 25, 2022

Please confirm that the above-described work plan is acceptable. If you have any questions, please do not hesitate to email or call me at (631) 737-6200, ext. 509.

Very truly yours,

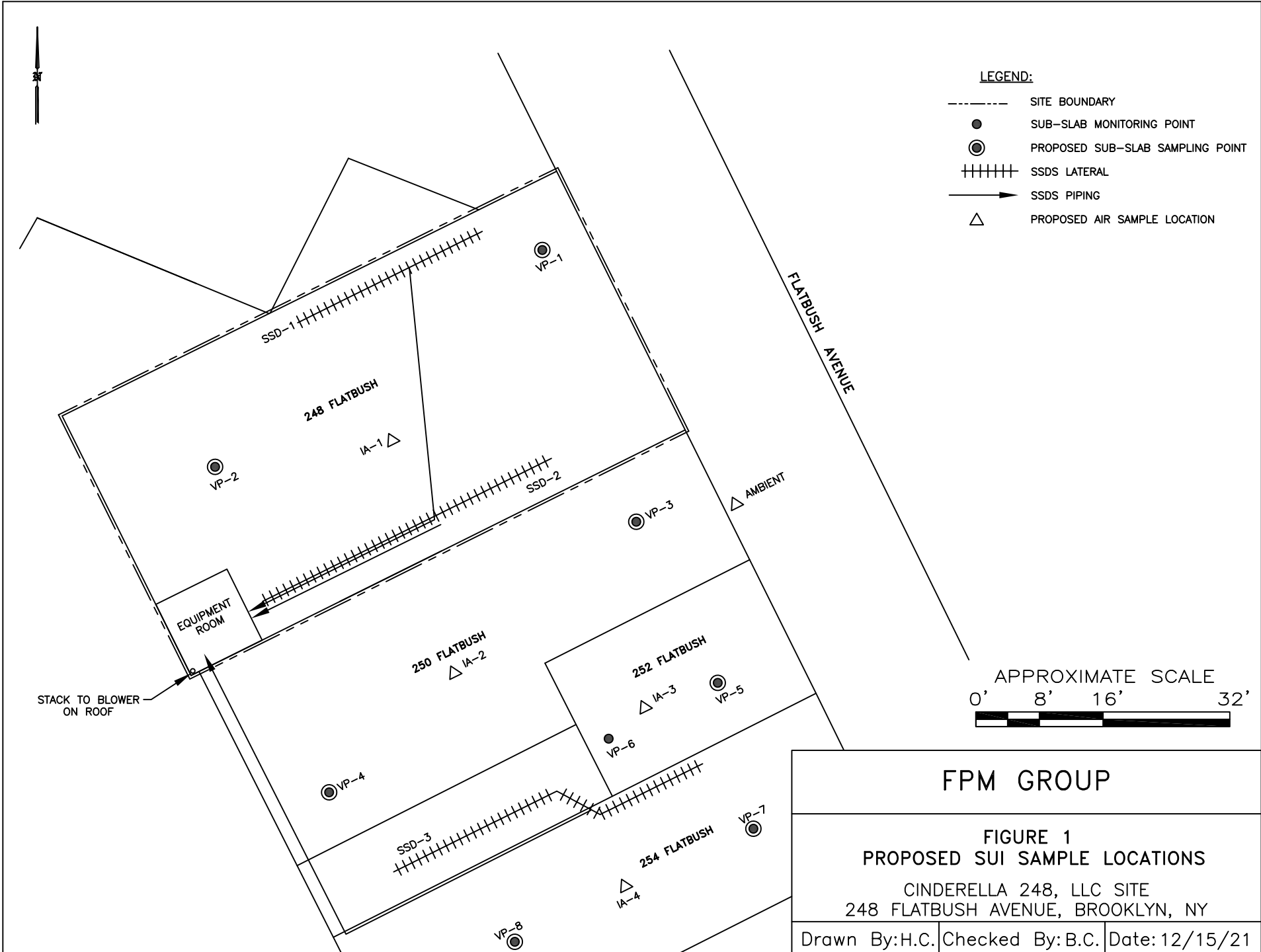
A handwritten signature in black ink, appearing to read 'B. Cancemi', is written over the typed name.

Ben T. Cancemi, PG, CPG
Department Manager
Vice President

BTC:btc
Attachment

S:\Rigano LLC\Cinderella 248 LLC\SVI WP 2021\SVI WP Cinderella-Revised012622.Docx

FPM



H:\CINDERELLA_248\VA-2020\FIGURE 1.dwg, 12/15/2021 2:18:53 PM, Adobe PDF.pc3

FIGURE 2
CUMULATIVE PCE REMOVAL
CINDERELLA 248, LLC SITE
248 FLATBUSH AVENUE, BROOKLYN, NY

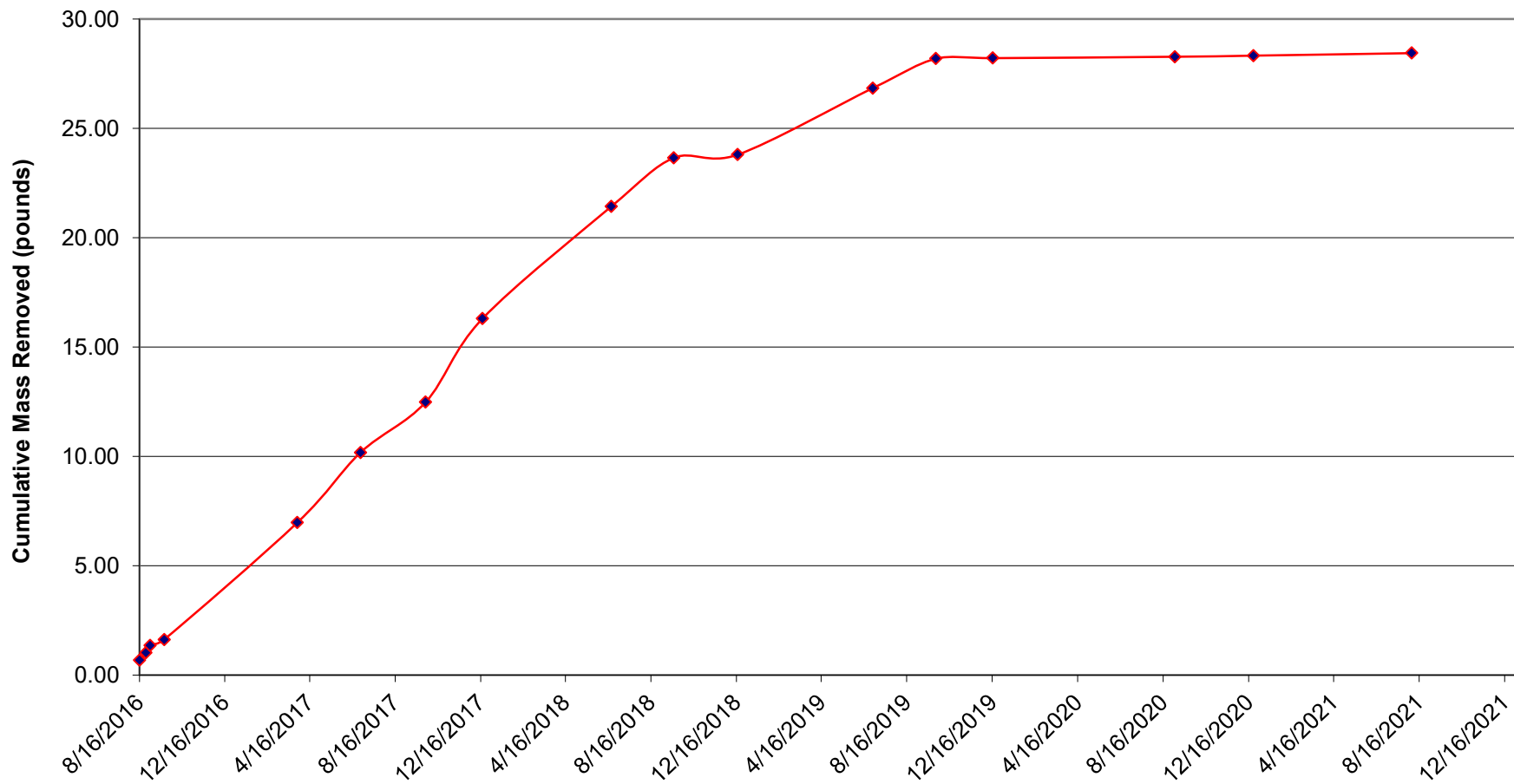
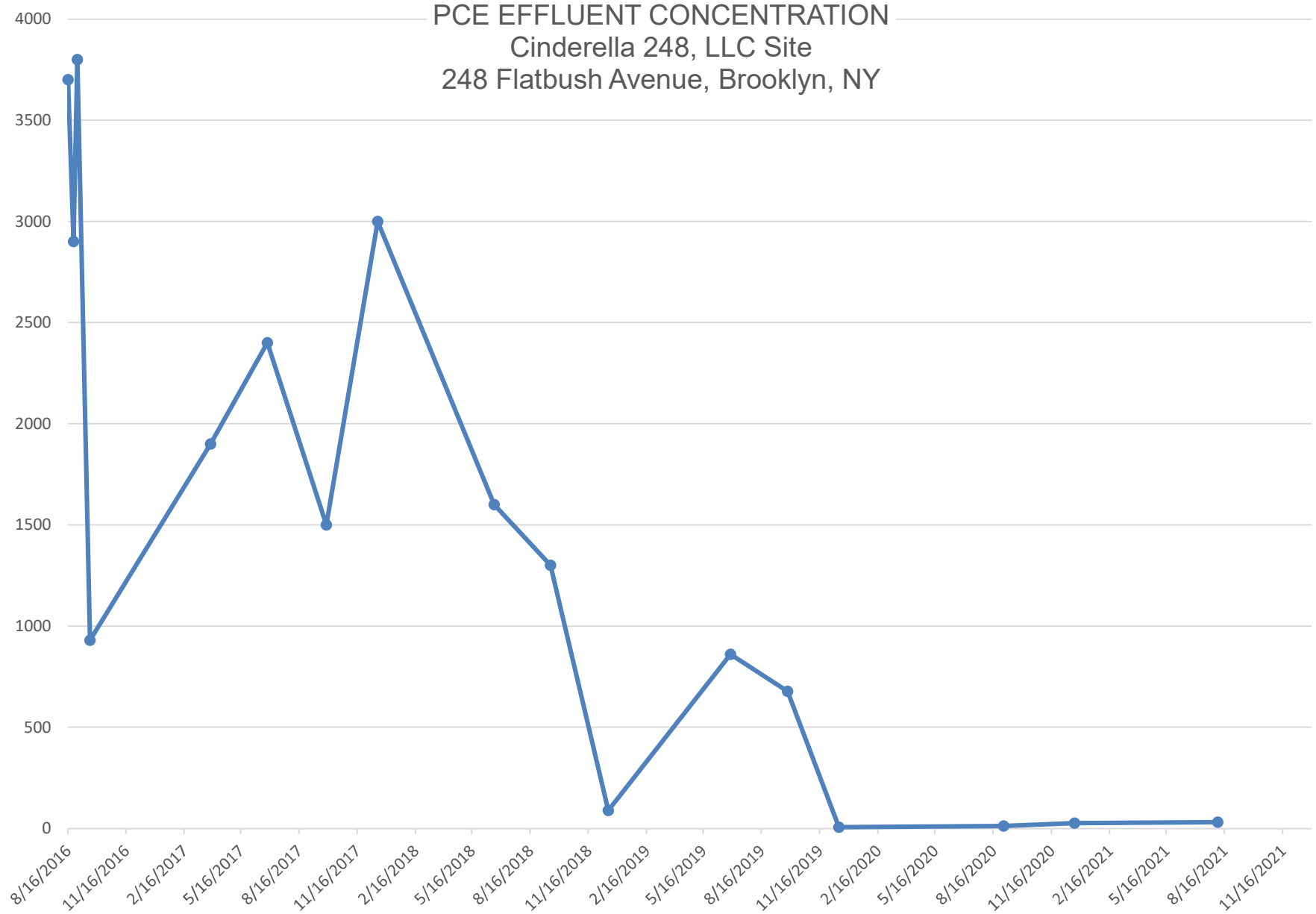


FIGURE 3
PCE EFFLUENT CONCENTRATION
Cinderella 248, LLC Site
248 Flatbush Avenue, Brooklyn, NY



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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SENT VIA EMAIL

January 27, 2022

Cinderella 248 LLC
Michael Pintchik
254 Flatbush Avenue
Brooklyn, NY 11217

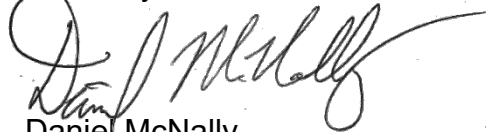
Re: Soil Vapor Intrusion Sampling Plan
Cinderella 248 LLC, Brooklyn
Kings County, Site No.: C224160

Dear Michael Pintchik:

The New York State Department of Environmental Conservation (Department) and the New York State Department of Health (NYSDOH) have reviewed the revised Soil Vapor Intrusion Sampling Plan (the "Work Plan") for the Cinderella 248 LLC site dated January 25, 2022 and prepared by FPM Group. The Work Plan is hereby approved.

If you have any questions or concerns, please contact me at (518)402-9767 or e-mail: daniel.mcnally@dec.ny.gov.

Sincerely,



Daniel McNally,
Project Manager

ec: Michael Pintchik, Applicant
B. Cancemi, FPM Group
D. McNally, Project Manager
G. Burke, Bureau Director, B
J. O'Connell
W. Kuehner, DOH Project Manager
J. Nealon, DOH



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2/8/2022

Michael Pintchik
Cinderella 248 LLC
254 Flatbush Avenue
Brooklyn, NY 11217
mbpintchik@aol.com

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal

Site Name: Cinderella 248 LLC

Site No.: C224160

Site Address: 248 Flatbush Avenue
Brooklyn, NY 11217

Dear Michael Pintchik:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site-specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at <http://www.dec.ny.gov/regulations/67386.html>) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **April 26, 2022**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls (“IC/EC Plan”); a plan for monitoring the performance and effectiveness of the selected remedy (“Monitoring Plan”); and/or a plan for the operation and maintenance of the selected remedy (“O&M Plan”). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Professional Engineer (PE). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.



All site-related documents and data, including the PRR, must be submitted in electronic format to the Department of Environmental Conservation. The required format for documents is an Adobe PDF file with optical character recognition and no password protection. Data must be submitted as an electronic data deliverable (EDD) according to the instructions on the following webpage:

<https://www.dec.ny.gov/chemical/62440.html>

Documents may be submitted to the project manager either through electronic mail or by using the Department's file transfer service at the following webpage:

<https://fts.dec.state.ny.us/fts/>

The Department will not approve the PRR unless all documents and data generated in support of the PRR have been submitted using the required formats and protocols.

You may contact Daniel McNally, the Project Manager, at 518-402-9143 or daniel.mcnally@dec.ny.gov with any questions or concerns about the site. Please notify the project manager before conducting inspections or field work. You may also write to the project manager at the following address:

New York State Department of Environmental Conservation
Division of Environmental Remediation, BURB
625 Broadway

Albany, NY 12233-7016

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

ec: w/ enclosures

Cinderella 248 LLC - mbpintchik@aol.com

ec: w/ enclosures

Daniel McNally, Project Manager
Gerard Burke, Section Chief
Jane O'Connell, Hazardous Waste Remediation Supervisor, Region 2
FPM Group - Ben Cancemi - b.cancemi@fpm-group.com

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.
- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



	Site Details	Box 1	
Site No.	C224160		
Site Name Cinderella 248 LLC			
Site Address: 248 Flatbush Avenue		Zip Code: 11217	
City/Town: Brooklyn			
County: Kings			
Site Acreage: 0.050			
Reporting Period: March 27, 2020 to March 27, 2022			
		YES	NO
1.	Is the information above correct?	<input type="checkbox"/>	<input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.			
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	<input type="checkbox"/>	<input type="checkbox"/>
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	<input type="checkbox"/>	<input type="checkbox"/>
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	<input type="checkbox"/>	<input type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5.	Is the site currently undergoing development?	<input type="checkbox"/>	<input type="checkbox"/>
		Box 2	
		YES	NO
6.	Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	<input type="checkbox"/>	<input type="checkbox"/>
7.	Are all ICs in place and functioning as designed?	<input type="checkbox"/>	<input type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.			
A Corrective Measures Work Plan must be submitted along with this form to address these issues.			
_____ Signature of Owner, Remedial Party or Designated Representative		_____ Date	

Box 2A

YES NO

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid?
(The Qualitative Exposure Assessment must be certified every five years)

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C224160

Box 3**Description of Institutional Controls**ParcelOwnerInstitutional Control

936-12

Cinderella 248 LLC

Ground Water Use Restriction
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

1. Requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
2. Allows the use and development of the controlled property for restricted-residential use, which allows for commercial use and industrial use, as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
3. Restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and
4. Requires compliance with the Department approved Site Management Plan.

Box 4**Description of Engineering Controls**ParcelEngineering Control

936-12

Vapor Mitigation

Operation and maintenance of a sub-slab depressurization system (SSDS) to mitigate soil vapor intrusion at the site building and adjacent buildings.

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

**IC CERTIFICATIONS
SITE NO. C224160**

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____,
print name print business address

am certifying as _____(Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____,
print name print business address

am certifying as a Professional Engineer for the _____
(Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification

Stamp
(Required for PE)

Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

- I. Executive Summary: (1/2-page or less)
 - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
 - B. Effectiveness of the Remedial Program - Provide overall conclusions regarding:
 1. progress made during the reporting period toward meeting the remedial objectives for the site
 2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
 - C. Compliance
 1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
 2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
 - D. Recommendations
 1. recommend whether any changes to the SMP are needed
 2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
 3. recommend whether the requirements for discontinuing site management have been met.

- II. Site Overview (one page or less)
 - A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
 - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.

- III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

- IV. IC/EC Plan Compliance Report (if applicable)
 - A. IC/EC Requirements and Compliance
 1. Describe each control, its objective, and how performance of the control is evaluated.
 2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
 3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
 4. Conclusions and recommendations for changes.
 - B. IC/EC Certification
 1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).

- V. Monitoring Plan Compliance Report (if applicable)
 - A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
 - B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
 - C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
 - D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
 - E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.

- VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
 - A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
 - B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
 - C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

- D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.
- E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

- A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
 - 1. whether all requirements of each plan were met during the reporting period
 - 2. any requirements not met
 - 3. proposed plans and a schedule for coming into full compliance.
- B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.
- C. Future PRR Submittals
 - 1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
 - 2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

From: [McNally, Daniel G \(DEC\)](#)
To: [Cancemi, Ben](#)
Cc: [Burke, Gerard \(DEC\)](#); [McNally, Daniel G \(DEC\)](#)
Subject: RE: C224160 - Cinderella 248 LLC
Date: Monday, May 2, 2022 4:04:53 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)

Ben,

Thanks for reaching out. The Periodic Review Reporting frequency changed from annually, to every two years this past reporting cycle. Therefore, the Periodic Review Report (PRR) for this site encapsulates the prior two years and was to be submitted by April 26, 2022 per the February 8, 2022 PRR Reminder Notice.

In addition, I recently received an inquiry from a citizen local to the site regarding concerns about modification to the sub-slab depressurization system. Specifically, they believe the effluent venting location has been changed from the rooftop, to street level out in front of the building.

With the above two items being said, please provide the PRR for this site at this time given the below delays mentioned. Thanks and let me know when I can expect a submittal as it is already overdue.

Regards,

Dan McNally

Project Manager, Division of Environmental Remediation

New York State Department of Environmental Conservation

625 Broadway, Albany, NY 12233-5060

P: (518) 402-9143 | Daniel.McNally@dec.ny.gov

www.dec.ny.gov |  | 



Department of
Environmental
Conservation

From: Cancemi, Ben <b.cancemi@fpm-group.com>
Sent: Monday, May 02, 2022 3:21 PM
To: McNally, Daniel G (DEC) <Daniel.McNally@dec.ny.gov>
Subject: C224160 - Cinderella 248 LLC

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hi Dan,

We would like to request a six-week extension for the PRR for the above Site due to current workload and also as we are waiting on our Laboratory Data Package from our recent SVI sampling . This has also caused a delay in preparing the data submittal for the SVI Sampling since the DUSR

cannot be completed. Wondering at this point would it be ok to just report the findings of the SVI testing in the PRR as opposed to preparing a separate data submittal?

Feel free to contact me with any questions.

Ben T. Cancemi, PG, CPG
Department Manager
Vice President

FPM group

An **Olgoonik** Company

640 Johnson Avenue, Suite 101

Bohemia, NY 11716

Tel (631) 737-6200 ext. 509

Fax (631) 737-2410

Email b.cancemi@fpm-group.com

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APPENDIX B

RESUMES OF ENVIRONMENTAL PROFESSIONALS



Mr. Cancemi has diversified experience in geology and hydrogeology. His professional experience includes groundwater and soil investigations, design and management of soil remediation projects, installation and maintenance of groundwater containment and remediation systems, aquifer testing and interpretation, geotechnical studies, evaluation of site compliance with environmental regulations and environmental permitting.

Functional Role	Title	Years of Experience
Senior Hydrogeologist	Department Manager - Hydrogeology	22

Personal Data

Education

M.S./2001/Hydrogeology/SUNY Stony Brook
 B.S./1995/Geology/SUNY Stony Brook

Registration and Certifications

New York State Professional Geologist, #7051
 Certified Professional Geologist – American Institute of Professional Geologists
 NYC Office of Environmental Remediation – Gold Certified Professional
 OSHA 40-hour HAZWOPER and Current 8-hour Health and Safety Training and Current Annual Physical
 OSHA 8-hour HAZWOPER Supervisor
 OSHA 10-hour Construction Safety and Health
 OSHA Permit-Required Confined Space Training
 Long Island Geologists
 National Groundwater Association

Employment History

2001-Present FPM Group
 1998-2001 Burns & McDonnell Engineering Company
 1997-1998 Groundwater and Environmental Services
 1996-1997 Advanced Cleanup Technologies

Detailed Experience

Hydrogeologic Evaluations

- **Project Manager, Lower Manhattan, NY. NYCT.** Coordinated and performed constant head hydraulic conductivity (packer) testing in boreholes located in fractured bedrock in lower Manhattan, NY to evaluate fracture connectivity with the nearby Hudson and East Rivers and determine hydraulic conductivity and related parameters such that water management procedures could be implemented for redevelopment of the New South Ferry Subway Station.
- **Project Manager, Manhattan, NY. NYCT** Coordinated and performed a hydrogeologic

investigation, including utility clearing, soil borings, rock coring, packer testing, aquifer pumping testing, data collection, and interpretation, to evaluate subsurface conditions and determine geologic parameters for a proposed subway extension of the NYC Transit No.7 Subway Line.

- **Project Manager, Various Sites Long Island, NYC, and Westchester County, NY** Performed aquifer pumping and slug tests and evaluated hydrologic properties using the computer program AQTESOLV.

Site Investigations

- **Program Manager** for ongoing investigation and remedial projects at several New York State Inactive Hazardous Waste Disposal sites, Voluntary Cleanup Program (VCP) sites, and NYC OER e-designated sites. Investigations have included site characterization, Remedial Investigations/Feasibility Studies (RI/FS), and Resource Conservation and Recovery Act (RCRA) facility investigations and closures. Remedial services have included contaminated soil removal; design, installation, and operation of air sparge/soil vapor extraction (AS/SVE) systems and sub-slab depressurization systems (SSDS), capping, and other remedial services.
- **Program Manager NYSDEC BCP Site, Brooklyn, NY** Coordinated and performed an investigation, implemented remedial measures and regulatory reporting at a former dry-cleaning facility in Brooklyn, NY, including soil, groundwater and soil vapor sampling to assess onsite chlorinated solvent impacts. Remedial actions included conducting pilot testing for installation of a sub-slab depressurization system (SSDS), coordinating the installation of vapor barrier and SSDS. Prepared a Final Engineering Report documenting remedial activities and a Site Management Plan for continued site monitoring.

- **Program Manager NYSDEC Inactive Hazardous Waste Site, Garden City, NY** Coordinated and performed an investigation, implemented remedial measures and regulatory reporting for a former printing facility in Garden City, NY, including soil, groundwater and soil vapor sampling to assess onsite chlorinated solvent impacts. Remedial actions included pilot testing and installation of an air sparge/soil vapor extraction (AS/SVE) system and SSDS, coordinating the installation of an SSDS, removal of contaminated soils from two areas and removal of impacted sediments from twelve leaching structures. Prepared a Final Engineering Report documenting remedial activities.
- **Program Manager, NYC Redevelopment Site, Queens NY.** Program Manager for environmental activities at a NYC Voluntary Cleanup Program Site. Environmental activities included preparation of a Phase I report, completion of a remedial investigation, preparation of associated work plans, implementation of a community air monitoring program for site activities, excavation and disposal of impacted soils, management and disposal of clean soils, and regulatory reporting.
- **Project Manager Remedial Investigation NYSDEC BCP Site, Queens, NY** Coordinated and performed an investigation at a vacant commercial property Far Rockaway, NY, including soil, groundwater and soil vapor sampling to assess onsite chlorinated solvent impacts from an adjoining offsite source. Prepared Remedial Work Plan and Report and provided monthly updates.
- **Project Manager, Site Investigation, Former Aerospace Facilities, Long Island, NY** Coordinated and performed soil and groundwater sampling and soil vapor studies at several aerospace manufacturing facilities on Long Island, NY. Assessments included an evaluation of past manufacturing and facility operations, storage and use of solvents, petroleum and manufacturing-derived wastes, and impacts to soils, soil vapor, and groundwater. Areas of concern were identified for further evaluation and/or corrective action.
- **Project Manager, Municipal Landfill Gas Monitoring, Town of East Hampton, NY** Coordinated and performed long term groundwater monitoring at two closed Town of East Hampton, NY municipal landfills, including the sampling a multi-depth monitoring well network, analysis and interpretation of analytical and hydrogeologic data, and regulatory reporting in accordance with NYSDEC Part 360 requirements.
- **Project Manager, Site Investigation, Former agricultural facilities, Long Island, NY** Coordinated and performed soil and groundwater investigations at various agricultural and horticultural properties to evaluate impacts of past herbicide and pesticide usage on the underlying soil and groundwater.
- **Program Manager, Municipal Landfill Gas Monitoring, Town of East Hampton, NY** Managed and performed routine methane monitoring at two Town of East Hampton landfills for compliance with NYSDEC requirements and to evaluate potential offsite migration to the surrounding community. Monitored indoor air with a flame ionization detector (FID) to evaluate impacts to buildings.
- **Hydrogeologist, Groundwater Modeling, Town of East Hampton, NY** Assisted with groundwater flow modeling for the Springs-Fireplace Road Landfill to evaluate the nature and extent of the landfill plume, its likely downgradient extent, and its fate.
- **Program Manager, Petroleum Release Sites, Various NYC, Long Island and Westchester County** Coordinated and performed onsite and offsite monitoring at petroleum release sites on Long Island, the New York metropolitan area, and in Westchester County in accordance with NYSDEC Spill program requirements. The monitoring programs generally included sampling multi-depth monitoring well networks utilizing low-flow sampling techniques, analysis/interpretation of analytical and hydrogeologic data, and regulatory reporting.
- **Project Manager, Site Investigation, Logan International Airport, Boston, MA.** Coordinated a soil and groundwater sampling program to evaluate environmental conditions at Terminal A, Logan International Airport, East Boston, Massachusetts. The program included an assessment of the current fuel hydrant system and other locations of potential environmental concern using non-destructive air vacuum extraction-clearing techniques combined with direct-push sampling. **Project Manager, Site Investigation, Pyrotechnics Facility, Suffolk County, NY.** Managed and performed a soil and groundwater investigation,

a remedial soil excavation, and groundwater monitoring at a pyrotechnics manufacturing facility in Suffolk County, NY. The work was performed under the direction of the Suffolk County Department of Health Services (SCDHS) to investigate and remediate contamination from historic use of perchlorate-containing materials at the facility.

- **Project Manager, Site Investigation, Automobile Franchise, Westchester County, NY.** Coordinated and performed soil, groundwater and soil vapor investigations at several automobile dealerships in Westchester County, NY to evaluate potential impacts from petroleum and chemical solvent storage and usage and onsite waste water disposal systems.
- **Project Manager, Site, Investigation, Former mercury thermometer manufacturing facility, NYC, NY.** Coordinated and performed soil and soil vapor intrusion study at a former mercury thermometer manufacturing facility in NYC. Assessments included an evaluation of past manufacturing and facility operations, storage and use of mercury, manufacturing-derived wastes, and impacts to soils and soil vapor. Areas of concern were identified for further evaluation and remedial action.

Phase I Environmental Site Assessments

- **Project Manager, Various Northeastern and Mid-Atlantic States.** Performed numerous Phase I Environmental Site Assessments (ESAs) for commercial and industrial properties throughout the Northeastern and Mid-Atlantic States for various clients including trucking companies, major airlines, telecommunication companies, chemical/ petroleum storage facilities, aerospace manufacturing facilities, machine shops, retail shopping centers, auto dealerships and service stations.

Remediation

- **Project Manager, Remediation, Former Landfill, Suffolk County, NY.** Managed remedial activities at a NY State Environmental Restoration Program (ERP) Site situated at a former hospital landfill in Northport, NY. Responsibilities contractor management and oversight, soil disposal management, confirmatory testing, data review, and preparation of remedial work plan and final engineering report for remedial activities.

- **Project Manager, Remediation - AS/SVE, Various Sites, NYC and Long Island.** Performed pilot testing, design, installation and procurement of numerous multi-depth soil vapor extraction (SVE) and air sparge (AS) remediation systems on Long Island and in the NYC metropolitan area to remediate chlorinated solvents and petroleum. Conducted remediation system operation and maintenance, and evaluations of system performance.
- **Project Manager, Remediation - UIC Structures, Nassau and Suffolk County, NY.** Performed numerous storm water and sanitary leaching structure (UIC) cleanouts utilizing excavation and/or vacuum assisted equipment to remove contaminated sediments and liquids. Conducted waste characterization and profiling, pipe camera surveys, and structure locating utilizing water-soluble dyes and electronic locating equipment.
- **Project Manager, Remediation Sub-Slab Depressurization Systems, NYC, Nassau and Suffolk Counties, NY** Conceptually designed and oversaw the installation of a sub-slab depressurization system (SSDS) at several commercial properties in the NYC and Long Island to mitigate chlorinated solvent impacts. SSDS monitoring was conducted to ensure proper operation and emissions compliance of with NYSDEC air discharge guidelines.
- **Project Manager, Remediation System O & M, NYC and Long Island.** Operated and maintained remediation systems, including SVE, groundwater pump and treat, AS, dual-phase extraction, SSDS and free-phase petroleum recovery systems.
- **Project Manager, Remediation. White Plains, NY.** Managed and coordinated a petroleum spill investigation to evaluate the nature and extent of a fuel oil release at an office building in White Plains, NY. The investigation included excavation and removal of a 5,000-gallon UST situated over 20 feet below grade, tightness testing of the UST and associated piping, a soil and groundwater investigation, free product recovery utilizing vacuum-enhanced fluid recovery techniques, and coordination and reporting to the NYSDEC and Westchester County Department of Health.

Health and Safety

- **HASP and CAMP Plan Preparation, Various Sites.** Prepared community air monitoring and health and safety plans for several NYSDEC inactive hazardous waste, brownfield cleanup program, volunteer cleanup program, petroleum spill, and NYC e-designation program sites
- **HASP Monitoring, Various Sites.** Performed health and safety monitoring at investigation and remediation sites during intrusive activities. Calibrated and operated photoionization detectors (PID) and flame-ionization detectors (FID) for organic vapors and combustible gas indicators (CGI) for methane. Compared results to applicable action levels and took preventative/protective measures as necessary.
- **CAMP Monitoring, Various Sites.** Performed community monitoring, including monitoring for noise, particulates (dust), and organic vapors. Recorded observations and compared to applicable action levels. Calibrated and operated noise meters, particulate monitors, and PID/FID.
- **Radiation Screening, Various Sites.** Performed screening for radiation at select sites. Operated Geiger counter in different radiation modes and obtained and evaluated background readings.
- **Mercury Screening.** Performed screening of mercury vapor for several projects. Operated and experienced with Jerome and Lumex Mercury Vapor Analyzers.

Expert Witness/Technical Services

- **Expert Witness Services, Glen Cove Waterfront Redevelopment.** Provided expert witness services regarding environmental conditions and remedial procedures for redevelopment of a former industrial and commercial area in Glen Cove, NY.
- **Technical Services, multiple sites, Town of Brookhaven.** Provided technical services regarding environmental conditions at various commercial and residential sites within the municipality to evaluate potential compliance issues with Town code. Services included coordinating subsurface investigations, sampling of various media, methane surveys, tidal surveys, technical oversight of investigation activities.
- **Technical Services, multiple sites, Town of Huntington.** Provide technical review of environmental investigations and soil

management plans prepared for proposed development for the Planning Division to assess if the proposed development has been properly evaluated in accordance with town requirements.

MGP Site Experience

- **Field Team Leader, Property Transfer of MGP sites.** Conducted soil and groundwater sampling at several Nicor MGP sites in Illinois prior to property transfer to Con Edison. Coordinated sampling crews, oversaw sampling and sample management, and implemented HASP monitoring.
- **Project Manager, Geophysical Investigation at Brooklyn Union Greenpoint MGP site.** Developed and implemented a geophysical investigation at an MGP site that was subject to differential settlement. Coordinated with client and subcontractors, oversaw survey activities, implemented HASP, interpreted results, and prepared a report to document the completed work.

Other

- **Project Manager, RCRA Closure, Nassau County, NY** Coordinated RCRA closure activities and performed confirmatory sampling at a former package manufacturing and printing facility in Nassau County, NY. Project duties included preparation of a closure work plan, contractor procurement, a subsurface site investigation, rinsewater sampling, and regulatory agency reporting and coordination, and preparation of a closure report.
- **Project Manager, Former Landfill, Suffolk County, NY.** Prepared a remedial design (RD) work plan for a former hospital landfill on Long Island. The RD work plan included a summary of past investigations, a materials management plan for the excavation and disposal of contaminated soils and debris, a post-excavation sampling plan, a site restoration plan, community air monitoring plan (CAMP), health and safety plan (HASP) and a quality assurance and quality control (QA/QC) plan.
- **Project Manager, Air Monitoring, Nassau County, NY.** Managed and performed monthly soil gas sampling and quarterly indoor air quality sampling at an elementary school in southwestern Nassau County, NY. The monitoring and associated NYSDEC reporting were performed to ensure that a gasoline groundwater plume migrating through the school

property was not impacting indoor air at the school.

- **Project Manager, Environmental Compliance, Multiple Sites.** Performed compliance inspections to assess issues of potential environmental concern at manufacturing, aviation, trucking, retail, and not-for-profit facilities.



Mr. Loyst has over 25 years of experience in environmental and civil engineering involving areas such as design & construction, regulation compliance & permitting, site investigation & remediation, environmental impact analysis, and expert witness testimony.

His clients include Federal agencies – USACE, US Army, USAF, FAA, USCG, USDA, USPS, IRS, VA; State agencies – NYSOGS, NYSParks, NYSDOT, DASNY, NYSOMH, NYSDEC, NYSPolice; City agencies – NYCT, NYCDEP, NYCDOC; Municipalities – Riverhead, Islip, Brookhaven, Smithtown, East Hampton, Village of Lake Success, Greenburgh, City of Rye and numerous private clients.

Functional Role	Title	Years of Experience
Program Manager	Corporate Vice President Department Manager - Environmental Engineering	29

Personal Data

Education

M.S./1997/Environmental Engineering – New York University (formerly Brooklyn Polytechnic University)
 B.S./1989/Interdisciplinary Engineering & Management– Clarkson University
 B.S./1988/Civil and Environmental Engineering – Clarkson University

Registration and Certifications

Licensed Professional Engineer in State of New York
 Project Management Professional
 NYSDEC Stormwater Qualified Inspector Training
 OSHA-approved 40-hr Health and Safety Training
 OSHA-approved 8-hr Refresher Training Course
 OSHA 8-hr HAZWOPER Supervisor Training

Societies/Associations

American Society of Civil Engineers
 Project Management Institute

Employment History

1992 to Present FPM Group
 1989-1992 Westinghouse Electric Corp.

Technical Seminars

Stormwater, Soil Erosion & Sediment Control,
 Hazardous Waste/RCRA, Emergency Planning &
 Community Right-To-Know (EPCRA), Environmental
 Impact Analysis/NEPA/EIS/EA, Air/CAA, Soil
 Remediation

Detailed Experience

Design & Construction

- Performed site reconnaissance, surveying, identification, and enumeration activities to develop plans, specifications, and environmental permitting for NYSOGS for processing waste tire materials into beneficial shred material to be used by the New York State Department of Transportation (NYSDOT) in road construction projects and landfills. Following the

development of plans and specifications, FPM assisted NYSOGS with bidding phase services including contractor award and construction/remediation/restoration/ oversight. In total approx. 20 million tires were recycled at four sites across New York State (Smithtown, Saugerties, Catskill, and Plattsburgh).

- Prepared Program Reports and Design services for NYSOGS/ NYSDOT water supply treatment facilities in Wellsville, N. Java, and Oswego, NY.
- Evaluated existing site drainage design issues and provided corrective action for NYSOGS/DMNA AAFS in Rochester, NY.
- Investigated and designed corrective actions for failing maintenance bay trench drains at NYS Police Headquarters in Farmingdale, NY.
- Performed SWPPP services for NYSOGS/NYSPolice including weekly construction inspections and filing NOT upon project completion for new State Police zone headquarters in Hempstead, NY.
- Reviewed, prepared, and implemented numerous State Pollutant Discharge Elimination System (SPDES) General Permits for Stormwater Discharges from Construction Activities, Stormwater Pollution Prevention Plans (SWPPPs), and Soil Erosion and Sediment Control Plans for NYSOGS, NYSDEC, NYCDEP, municipalities, and private clients.
- Hazardous material storage area design for NYSOGS, NYSParks, and industrial facilities in accordance with Suffolk County and Nassau County regulations and containment provisions (e.g., containment buildings, bermed epoxy coated storage areas).
- Conventional subsurface sewage disposal system and reduced pressure zone device designs and construction management services for NYSOGS and numerous governmental, municipal, and private facilities.
- Hydrologist consultant to New York City Transit (NYCT) involving numerous drainage studies and

investigation of mitigation measures for stormwater and groundwater issues at bus depots, train yards, and subway stations.

- Hydrologist consultant to Town of Greenburgh involving the review of EIS documents, Stormwater Management Plans, Soil Erosion and Sediment Control Plans, drainage calculations, and modeling for proposed development projects on sites up to 300 acres.
- Hydrologist consultant to City of Rye involving site design review, flooding analyses, and environmental impact assessment for a 10-acre Brownfield remediation/development project.
- Prepared SWPPP and performed bi-weekly stormwater inspections for a NYCDEP 11-acre, 30 million gallon combined storage overflow facility in Brooklyn, NY.
- Performed dye-testing studies at several NYCT facilities in NYC and La Salle Military Academy in Oakdale, NY to identify discharges and remedies.
- Assisted NYCT with design mitigation measures and resiliency projects for critical infrastructure damaged during Hurricane Sandy.
- Design and construction services for rehabilitation and stabilization of streams and drainage channels for USACE in Binghamton, Endicott and Johnson, NY, and Danville, PA.
- Runoff calculations, drainage alternatives, and best management practices for site development projects in Long Island, NYC, and Westchester County.
- Evaluation and rehabilitation of groundwater well dewatering pumping systems for NYCT via downhole camera videotaping, riser swab cleaning, high velocity jetting, pump test analysis, specific capacity testing, and pump redesign.
- Performed leak investigation studies, and designed corrective measures for MTA Grand Central Station and South Ferry Station in Manhattan, NY.
- Certified numerous types of reports including periodic review, feasibility study, engineering, and work plans for inactive hazardous waste disposal (NYS Superfund) and environmental restoration program (ERP) sites.
- As Village of Lake Success environmental consultant, involved in groundwater pump and treat system quarterly OU-1 and OU-2 remedial system reporting, OMM and SSDS design review, indoor air quality monitoring, and overseeing sub-slab construction activities.
- Removal, recycling, and disposal of over 10,000 cy of construction and demolition debris at various waste management areas on Plum Island, NY involving development of plans and specifications, cost estimating, and construction oversight for USDA.
- Soil erosion and sediment control plans and certifications for FAA airport navigational aid projects.
- Performed Dam Classification, Spillway Analysis, and Design services for NYSParks repair/replacement of Connetquot Dam in Long Island, NY.
- Analyzed existing Paumanok Village Sewage Treatment Plant design to evaluate if 60 additional condominium units could be accommodated.
- Porous pavement designs and evaluations for NYCT bus depots.
- Prepared Remedial Design Report, plans and specifications, bid phase services, and construction supervision for remediation of a 3-acre VNSA landfill in Huntington, NY.
- Assisted the Town of Riverhead with capping estimates, feasibility study for reclaiming and capping a reduced landfill and engineering reviews for a full Part 360 landfill cap design.
- Development of plans and specifications for asbestos abatement projects for elementary schools in Long Island.
- Asbestos abatement specification reviews for FAA facility rehabilitations.
- Designed new track and field athletic complex at USCG Academy, New London, CT involving NCAA regulation 8-lane track with synthetic type running service, separate event throwing areas, NCAA regulation soccer field inside the track and all necessary elements for typical collegiate facilities (lighting, grandstand, scoreboard, etc.) Critical design aspects included managing infiltration and surface water runoff for discharge into Thames River and environmental permitting (SWPPP and coastal zone consistency determination).
- Performed study and conceptual design of an equalization tank for storing roof runoff to be used at two NYCT bus depots in Manhattan and Staten Island.
- Soil Vapor Intrusion (SVI) and sub slab depressurization system (SSDS) design work for office buildings and aircraft hangar/warehouses at former Griffiss AFB and 1.3 million sf of office building in Nassau County.
- Prepared plans for relocation of scales/scalehouse at a waste transfer/recycling facility in Islip, NY.
- Acquired Joint Application/Water Withdrawal Permits and prepared Engineering Report and Plans for construction of a lowered hydraulic connection between 2 lakes in Lake Success, NY.
- Sub-slab depressurization system (SSDS) design including a horizontal well and blower system for a DASNY and NYS Office of Alcoholism and Substance Abuse Services (OASAS) 4,000 sf facility on a 1-acre parcel on a municipal landfill in the City of Peekskill.
- Designed an 80'x45'x30' deep recharge basin with infiltration wells for an 11-acre NYCT bus depot in Staten Island, NY.

- Provided water well treatment design services for a golf course irrigation system in Lake Success, NY.
- Designed ground mounted 10kw Photovoltaic system for a Town of Islip Compost Facility.
- Performed condition assessments for the Latimer Reef and Little Gull Light Stations in Southold, NY.
- Feasibility Study (FS) to prevent the potential migration of a PCB oil pool/contaminated aqueous plume and peat layer settlement due to dewatering activities at Sunnyside Yard, Queens.
- FS for disposal alternatives for permanent subway dewatering activities in Brooklyn and Manhattan, NY.
- FS for property consolidations and expansion of shopping centers in Long Island. Site development potential was evaluated in accordance with local ordinances/codes.
- Evaluated roof leaks, mold investigation, and designed corrective action for Great Neck Post Office, NY.

Regulation Compliance/Permitting

- Suffolk County Department of Health Services (SCDHS) Article 12 and Nassau County Department of Health (NCDOH) Article 11 Toxic and Hazardous Material Storage Facility Permits for NYSOGS, USPS, NYS Parks, and private clients.
- UST compliance inspections in accordance with NYSDEC - Petroleum Bulk Storage (PBS) and Chemical Bulk Storage (CBS) regulations; SCDHS Article 12; NCDOH Article 11; and National Fire Protection Agency (NFPA) codes for NYSOGS, NYSDOT, USPS, and private clients.
- Department of Environmental Conservation (NYSDEC) State Pollution Discharge Elimination System (SPDES) permits for industrial and stormwater discharges for NYSOGS, NYCT, USPS, and private clients.
- Environmental compliance audits covering the Clean Air Act (CAA), Resource Conservation and Recovery Act (RCRA), Clean Water Act (CWA), Emergency Planning and Community Right to Know Act (EPCRA), and local regulations involving areas such as hazardous material storage for USPS and private clients.
- Air permitting and associated reporting including Title V and 76-19-3 air permits; new source review; seasonal variance applications; BACT analysis; emission statements; EPA NESHAP surveys, annual and semi-annual compliance certifications; Air Guide 1 and Screen 2 modeling; Air Facility Registrations; air quality assessments; emission reduction credits, and stack testing for VA, Islip, and private clients.
- Performed RCRA compliance activities involving waste stream characterizations; waste minimization; pollution prevention; manifest tracking; preparation of

quarterly, annual, and bi-annual reports; and training for USPS and private clients.

- Prepared hazardous waste closure plans in accordance with 6NYCRR 373-3 and implemented closure of hazardous waste management areas in accordance with 6NYCRR 373-3.7(c) for private clients.
- Performed EPCRA/Sara Title III audits, reporting and investigated administrative complaints for private clients.
- Prepared, reviewed, and certified numerous Spill Prevention Control and Countermeasure Plans (SPCCPs) in accordance with 40 CFR Part 112 for NYS Parks, NYCDOC, and private clients.
- UST Closure activities for private clients in Long Island, NY in accordance with SCDHS requirements.
- SCDHS Article 7 compliance reviews for restricted chemical storage for private clients.
- SCDPW sewer connection and agreements for private clients.
- Prepared and acquired NYCDEP construction dewatering permits for private clients in NYC.
- Developed Stormwater Management Plan for Town of Smithtown in response to USEPA notice of violations.
- Prepared SAPs and performed Indoor Air Quality Sampling for VOCs and mold for municipalities and industrial clients in Long Island.
- Baseline and semi-annual monitoring, BMR and SMR reporting, and sampling for wastewater discharges for compliance with NYCDEP and SCDPW requirements.
- Performed health and safety monitoring at investigation and remediation sites during intrusive activities. Monitoring included calibration and operation of photoionization detector (PID) and flame-ionization detector (FID) for organic vapors and combustible gas indicator (CGI) for methane. Compared results to applicable action levels and took preventative/protective measures as necessary.
- Site Specific Health and Safety Plans (HASPs) for USACE, USDA, NYSOGS, and private clients.
- Sound level studies to determine compliance with local noise ordinances for private clients.
- Prepared engineering reports for Long Island Well permits.
- Prepared Solid Waste Management Plan (SWMP) for Town of Riverhead.
- Performed compliance inspections and corrected NOV's for shellfish operation in Westbury, NY.

Site Investigation & Remediation

- Petroleum Spill Investigations (gasoline, diesel, No. 2 and No. 6 fuel oil, and lubricating oil) and associated closure work for tanks and other types of discharges for NYSOGS, USAF and private clients in the metropolitan and upstate NY regions.

- Identification, characterization, and removal of hazardous material and hazardous waste at industrial facilities and psychiatric centers for NYSOGS and private clients in Long Island and NYC.
- Developed and Implemented SAPs for USCG Station dredging projects in Long Island in accordance with NYSDEC Region 1 Marine Habitat Division protocols.
- Quarterly and semi-annual sampling/monitoring and reporting in accordance with NYSDEC Part 360 regulations for several landfills in Long Island.
- ASTM Phase I Environmental Assessments for property transactions in Suffolk, Nassau, and the five boroughs of New York.
- Sampling and Analysis Plans for Phase II investigations in Long Island and NYC.
- Groundwater, soil, and air sampling at numerous sites on Long Island and NYC for landfill closures, remedial investigations, and petroleum spills.
- Hazardous, Toxic, and Radioactive Waste (HTRW) Surveys and Preliminary Assessments in NY and NJ for FAA and USACE.
- Polychlorinated Biphenyl (PCB) basewide (3500 acres) evaluation of electrical equipment at Griffiss Air Force Base.
- Anthrax sampling for IRS mail sorting facilities in Holtsville, NY, and Andover, MA.
- Performed Indoor Air Quality Studies for office buildings in Long Island, NY.
- Performed Environmental Assessment Boring Programs (EABP) for NYCT stations/substation construction projects.
- Remediation of lead contaminated soil at four water tower sites at Barksdale Air Force Base, LA via excavation/disposal. Feasibility studies, work plans, Health and Safety Plans, Closure Reports, and No Further Response Action Planned Memorandums were prepared in conjunction with the remediation.
- In-situ soil remediation of VOCs through vapor extraction and soil aeration techniques at Long Island and NJ contaminated sites.
- Estimated the remaining volume and footprint for the Youngs Avenue Landfill, Riverhead, NY, which currently was in full scale reclamation mode, via a boring and excavation plan involving numerous deep borings and shallow test pits and topographic surveys/landfill maps.
- Cultural resource projects for USACE and FAA in the northeast region including cultural resource surveys; cultural resource assessments; underwater archeology surveys; and recordations.
- Wetland Delineations and Biological Surveys (Grassland Birds) in support of FAA EAs at Teterboro Airport.
- Historic Preservation Plan for Plum Island NY and Historic Structure Report for Plum Island Light Station, Plum Island Animal Disease Center, NY.
- Environmental Scoping Document and presentation agenda for the District's Atlantic Coast of Long Island Fire Island Inlet to Montauk Point, NY Storm Damage Reduction Reformation Study.
- Preliminary Environmental Assessment (PEA) Reconnaissance Studies for USACE Flood Control and Shore Protection Projects in South River, Raritan River Basin, NJ and Cliffwood Beach, NJ.
- Environmental assessment and architectural and historical study for a USMA historical building/site at West Point, NY.
- Draft Supplemental Environmental Impact Statement (EIS) Limited Reevaluation Study for the Deepening of the Arthur Kill/Howland Hook Navigation Channel in NY/NJ.
- Water resources impact analysis for Ramapo Energy Limited Partnership DEIS.
- Long and Short Environmental Assessment Forms (EAFs) for construction and site development projects in Long Island, NY.
- Environmental Assessments for Federal Aviation Administration (FAA) navigational aid projects at numerous airports in the northeast region in accordance with the National Environmental Policy Act (NEPA) and FAA order 1050.1D Policies and Procedures for Considering Environmental Impacts. Airport projects included Instrument Landing Systems (ILS), Approach Lighting Systems, Remote Transmitters, Doppler Equipment, Air Traffic Control Towers and Air Route Traffic Control Centers. Airports and support areas included Teterboro, Richmond Intl, Baltimore Washington Intl, Syracuse-Hancock Intl, Newark Intl, Stewart, Philadelphia Intl, LaGuardia Intl, and Leesburgh.
- Environmental assessments for the Army and Air Force Exchange Service (AAFES) at bases in Oahu, HI in accordance with NEPA, AR-200 Environmental Effects of Army Actions and DOD Directive 6050.1 Environmental Effects in the US of DOD Actions. Projects included capital improvement projects at Schofield Barracks, Helemano Military Reservation, Aliamanu Military Reservation, and Bellows Air Force Base.
- Surveying and mapping 3 shoreline and wetland conservation areas as part of a stipulation agreement between NYSDEC and PIADC on Plum Island, NY.

Environmental Impact Analysis

- Coastal/Biological Monitoring Program components for the USACE, New York District Beach Erosion Control Projects including intertidal ichthyoplankton studies, intertidal offshore finfish studies, nearshore and offshore benthic sampling, water quality analysis, and creel census.

- Environmental Assessment for Rehabilitation of the Mine Lake Dam for USAG West Point, NY.
- Long Form EAF and Pine Barrens Core Preservation Area application for Westhampton Ready Mix Corp.
- Evaluated stormwater and subsurface impacts for D/FEIS and Findings Statement for parking improvements and conversion of building use from warehouse to office space at a 93-acre site in Village of Lake Success/Town of North Hempstead, NY.
- Evaluated Planned Development District (PDD) Alternatives for former 105-acre Dowling College site in Brookhaven, NY.
- Hazardous waste and disposal issues for case between defendant/Salinger & Sack and Ecolab, Inc. Engineering and Permitting issues for case between Town of Brookhaven and BRT for new rail line in Yaphank, NY. Landfill volume evaluation and closure alternatives for case between Town of Riverhead and Grimes Contracting.
- Hydrology and stormwater issues for case between Town of Greenburgh and Fortress Bible Church.
- Site contamination and site management plans, engineering and institution control issues for case between Town residents and City of Glen Cove/developers in Glen Cove, NY.

Expert Witness Testimony

- Beach erosion and accretion issues and evaluation of engineering/construction alternatives for case between Sea Gate Beach Club and USACE.



Mr. Bukoski is an Environmental Scientist with diversified experience in both the Federal and private sector, including groundwater and soil investigations and evaluation, soil remediation projects, soil vapor intrusion evaluation, aquifer testing and interpretation, design and management of soil and groundwater remediation projects, groundwater flow modeling, evaluation of site compliance with environmental regulations, air quality evaluations, and environmental permitting.

Functional Role	Title	Years of Experience
Environmental Scientist	Project Manager	21

Personal Data

Education

B.S./1998/Environmental Science/SUNY Buffalo

Registration and Certifications

- Professional Geologist, NY #438
- OSHA 40-hr and current 8-hr Health and Safety Training Course (1999-present)
- OSHA-Approved 8-hr Health and Safety Training Refresher Courses (2000-Present)
- OSHA-Approved 8-hr Site Safety Supervisor Training Course (2008)
- MTA NYC Transit Track Safety Certification
- National Groundwater Association
- Long Island Association of Professional Geologists
- Advanced Technologies for Natural Attenuation Certification

Employment History

- 1999-present FPM Group
- 1991-1998 Sutherland's Office Centre
- 1985-1991 United States Marine Corps

Detailed Experience

Site Investigations

- Performed Phase I Environmental Site Assessments and Phase II Investigations for numerous sites in New York State, including commercial buildings, aerospace facilities, former research and development facilities, and large manufacturing plants.
- Provided oversight and coordination for ongoing investigation and remedial projects at numerous New York State Inactive Hazardous Waste Disposal (Superfund) Sites, Voluntary Cleanup Program (VCP) Sites, and Brownfield Cleanup Program (BCP) Sites. Investigations included Site Characterization (SC), Remedial Investigation/Feasibility Studies (RI/FS), and RCRA Facility Investigations. Remedial services have included contaminated soil removals; UIC closures, ORC

and HRC injections; design, installation and operation of air sparge/soil vapor extraction (AS/SVE) systems; sub-slab depressurization systems (SSDS) and, capping.

- Managed site investigation activities, including soil vapor and air sampling, soil sampling and analysis, groundwater sampling and analysis, and geotechnical evaluation for numerous sites in New York State in support of negotiations for property purchases and redevelopment.
- Investigated several petroleum-contaminated spill sites at Griffiss AFB, Rome, NY. Performed soil and groundwater sampling via Geoprobe, installed groundwater wells for monitoring and assessment of attenuation. Proposed remediation technologies for soil and groundwater contamination. Analyzed chemical data and prepared Site Investigation (SI) Reports and closure reports.
- Investigated several chlorinated solvent-contaminated sites at Griffiss AFB, Rome, NY. Performed aquifer testing to establish direction of groundwater flow. Collected groundwater samples and analyzed the chemical data to identify the constituents of concern. Proposed remediation technologies for groundwater contamination.
- Supervised drilling installation, development, and sampling of monitoring wells at numerous sites throughout New York State. Utilized resulting stratigraphic, hydrologic, and chemical analytical data to evaluate site conditions. Prepared investigation reports identifying site history, contaminant characteristics, sampling methods, and site-specific lithology.
- Managed landfill monitoring projects at several landfills in Suffolk County. Collected and evaluated methane and groundwater monitoring data. Prepared reports documenting monitoring results and provided recommendations regarding methane collection, stormwater runoff, capping, and other landfill management strategies.

- Performed long-term monitoring projects at several landfills at Griffiss AFB. Collected groundwater, leachate, and surface water samples. Evaluated resulting data and prepared monitoring reports for state and federal agency review.

Remediation

- Performed investigation and remedial activities at several NYSDEC BCP sites in New York City. Prepared Remedial Investigation and Remedial Work Plans; coordinated with the owner, contractors, and the NYSDEC; conducted citizen participation activities; performed waste characterization, waste profiles, and waste management; developed Site Management Plans for NYSDEC approval.
- Performed waste characterization of a 90,000-cy construction soil stockpile at a municipal sewer facility. Responsibilities included development and implementation of Sampling and Analysis Plan (SAP), evaluation of lab data, preparation of Field Sampling Summary Reports (FSSR), coordination with disposal facilities, and preparation of waste profiles.
- Developed pilot test plans, evaluated pilot test results, and prepared conceptual designs for several air sparge/soil vapor extraction (AS/SVE) systems to treat petroleum and/or chlorinated solvent VOCs. Provided construction oversight for system installation. Performed routine system operation monitoring and evaluated system performance. Prepared system installation and monitoring reports.
- Assisted in the design of a soil remediation plan and performed construction and soil remediation oversight for a metal parts plating and manufacturing facility in Suffolk County, New York. Remediated numerous leaching pools impacted with petroleum compounds and metals. Prepared a UIC Closure Report for USEPA approval.
- Assisted in the design and oversight of indoor underground storage tank abandonment program, leaching pool remediation plan, and managed contractor support for several manufacturing facilities in Suffolk County, New York.

Hydrogeologic Evaluations

- Performed well design (gravel pack size, screen size, etc.) for numerous groundwater wells and variable depths on Long Island. Experience includes sieve analyses, well construction and development methods.
- Performed aquifer pumping and slug tests and evaluated hydrologic properties using the computer

program AQTESOLV for several sites in New York City and Long Island.

- Participated in multi-day, multi-well aquifer pumping test for New York City Transit (NYCT). Responsible for operating and maintaining data logging equipment, coordinating manual water level measurements, and analyzing resulting drawdown data.
- Performed water level and water quality monitoring at several sites in Nassau and Suffolk Counties. Constructed groundwater elevation contour maps and utilized chemical analytical data to predict contaminant plume migration.
- Supervised drilling, installation and development of groundwater monitoring wells at three sites within Griffiss AFB, NY and numerous sites in New York City and Long Island. Performed aquifer testing and constructed groundwater elevation contour maps to delineate plumes and predict contaminant plume migration.

Landfills

- Managed ongoing groundwater and methane monitoring programs for Town of East Hampton landfills. Responsibilities included field team coordination, communications with the Town, report scheduling, data package review, and report preparation for distribution to the client and NYSDEC.
- Managed and conducted quarterly methane monitoring at Springs-Fireplace Road and Montauk Landfills for the Town of East Hampton. Tabulated resulting data, evaluated historic methane monitoring results, and recommended appropriate actions including methane monitoring well installations and a methane extraction system. Performed off-site methane monitoring on private property confirm methane containment. Prepared quarterly monitoring reports for submittal to the Town and NYSDEC.
- Performed monthly methane monitoring and prepared monitoring reports for all Town of Islip Landfills. Monitoring program included onsite and offsite methane wells, methane collection systems, and flare systems. Data was recorded electronically and downloaded to computer for formatting prior to delivery to Town. Prepared monthly monitoring reports for submittal to the Town and NYSDEC.
- Produced quarterly and annual monitoring reports for all monitoring programs at Town of Smithtown landfill. Project included tabulation and reporting of groundwater and methane monitoring data, solid waste and recycling collection data, yard waste

composting operations, and landfill leachate collection and disposal data.

Water Quality Monitoring

- Conducted groundwater monitoring for the Town of Riverhead, including sampling a multi-depth monitoring well network, analysis and interpretation of analytical and hydrogeologic data, and monitoring reporting in accordance with NYSDEC requirements. Responsibilities including sampling, communications with the Town, laboratory data package review, and report preparation for distribution to the client and NYSDEC.
- Conducted investigation and remedial projects at several New York State BCP Sites. Tasks included contaminated soil removal, groundwater remediation and long-term monitoring, groundwater plume evaluation, and preparation and submittal of annual reports to the NYSDEC.
- Coordinated and performed onsite and offsite groundwater monitoring at various petroleum release sites on Long Island, the New York metropolitan area and in Westchester County in accordance with NYSDEC requirements. Utilized resulting stratigraphic, hydrologic, and chemical analytical data to evaluate site conditions. Prepared work plans identifying site history, contaminant characteristics, sampling methods, and site-specific lithology. Monitoring programs generally included installation and sampling of a multi-depth monitoring well network utilizing standard or low flow sampling techniques, analysis and interpretation of analytical and hydrogeologic data, and reporting.
- Performed water level and water quality monitoring at an industrial site in Mattituck, NY. Constructed groundwater elevation contour maps and utilized chemical analytical data to predict contaminant plume migration. Prepared reports, coordinated with the property owner and NYSDEC, and developed a closure plan.
- Conducted numerous investigations and remediation of contaminated cesspool and stormwater drain pool systems in Nassau and Suffolk County. Fully conversant with County regulations for investigation and cleanup of leaching pool systems, including Action Levels and Cleanup Standards, groundwater monitoring criteria, and remedial requirements.

Griffiss Air Force Base

- Conducted several Site Investigations for AFCEE. Performed soil and groundwater sampling, aquifer testing, and recommended cleanup procedures necessary for the closure and conversion of the Base. Responsible for compliance with all applicable laws including CERCLA, SARA, RCRA, and NCP.

Roslyn Air National Guard Station

- Conducted several Site Investigations for Roslyn ANGS base closure work. Performed soil and groundwater sampling, aquifer testing, and mold evaluations. Prepared reports documenting recommended cleanup procedures necessary for the closure and conversion of the Base. Responsible for compliance with all applicable laws including CERCLA, SARA, RCRA, and NCP.

Health and Safety

- Prepared numerous health and safety plans for remediation and construction sites and served as health and safety officer at a variety of work sites.
- Performed health and safety monitoring at investigation and remediation sites during intrusive activities. Monitoring included calibration and operation of photoionization detectors (PIDs), flame-ionization detectors (FIDs), dust monitors, and combustible gas indicators (CGI). Compared results to applicable action levels and undertook preventative/protective measures as necessary.
- Performed community monitoring, including monitoring for noise, particulates (dust), and organic vapors at several sites throughout New York State. Recorded observations and compared to applicable action levels. Implemented calibration and operation programs and training for noise meters, particulate monitors, PIDs, and FIDs.
- Performed screening for radiation at several sites. Operated Geiger counters in different radiation modes and compared data to background readings.

Miscellaneous Projects

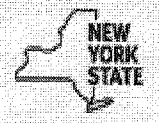
- Performed unexploded ordnance evaluations and mapping for the United States Marine Corps at several munitions ranges in 29 Palms, California, and Camp Lejeune, North Carolina.
- Conducted land survey and mapping for the United States Marine Corps at several artillery ranges in 29 Palms, California and Camp Lejeune, North Carolina.

APPENDIX C

EC/IC CERTIFICATION



**Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form**



Site Details

Site No. C224160

Box 1

Site Name Cinderella 248 LLC

Site Address: 248 Flatbush Avenue Zip Code: 11217

City/Town: Brooklyn

County: Kings

Site Acreage: 0.050

Reporting Period: March 27, 2020 to March 27, 2022

- | | YES | NO |
|--|----------|----------|
| 1. Is the information above correct? | X | |
| If NO, include handwritten above or on a separate sheet. | | |
| 2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period? | | X |
| 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? | | X |
| 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? | | X |
| If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form. | | |
| 5. Is the site currently undergoing development? | | X |

Box 2

- | | YES | NO |
|---|----------|----|
| 6. Is the current site use consistent with the use(s) listed below?
Restricted-Residential, Commercial, and Industrial | X | |
| 7. Are all ICs in place and functioning as designed? | X | |

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Box 2A

YES NO

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?

X

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid?
(The Qualitative Exposure Assessment must be certified every five years)

X

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C224160

Box 3

Description of Institutional Controls

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
936-12	Cinderella 248 LLC	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan

1. Requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
2. Allows the use and development of the controlled property for restricted-residential use, which allows for commercial use and industrial use, as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
3. Restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and
4. Requires compliance with the Department approved Site Management Plan.

Box 4

Description of Engineering Controls

<u>Parcel</u>	<u>Engineering Control</u>
936-12	Vapor Mitigation

Operation and maintenance of a sub-slab depressurization system (SSDS) to mitigate soil vapor intrusion at the site building and adjacent buildings.

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

X

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

- (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

X

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C224160

Box 6


SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Michael Pritchik at 502 Bergen St
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

6/9/2022
Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I KEVIN LOYST at FPM GROUP
640 JOHNSON AVE SUITE 101 BOHEMIA NY 11716
print name print business address

am certifying as a Professional Engineer for the _____
(Owner or Remedial Party)



Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

6-7-22
Date

(Required for PE)

APPENDIX D

SYSTEM OPERATING LOG

SSDS OPERATING LOG
CINDERELLA 248 LLC SITE - NYSDEC SITE NO. C224160
248 FLATBUSH AVENUE, BROOKLYN, NY

	SSDS									Vapor Monitoring Points								
	Vacuum Before Air Filter	Vacuum After Air Filter	Vacuum at Well SSDS-1	Flowrate at Well SSDS-1	Vacuum at Well SSDS-2	Flowrate at Well SSDS-2	Vacuum at Well SSDS-3	Flowrate at Well SSDS-3	Effluent PID	VMP-1	VMP-2	VMP-3	VMP-4	VMP-5	VMP-6	VMP-7	VMP-8	
	("H2O)	("H2O)	(SCFM)	("H2O)	(SCFM)	("H2O)	(SCFM)	(ppm)	("H2O)									
8/10/2016	24	32	18	60	18	60	16	60	150.0	0.02	0.05	0.02	0.02	0	0.005	0.15	0.1	
8/11/16	24	34	20	40	20	60	18	40	20.0	0.02	0.08	0.07	0.01	0.01	0.02	0.02	0.08	Effluent sample collected
8/25/2016	26	34	20	40	20	65	18	50	1.4	0.02	0.07	0.11	0.01	0.01	0.16	0.08	0.07	Effluent sample collected
8/31/2016	26	35	20	45	20	70	18	50	13.5	0.01	0.07	0.01	0.01	0.02	0.03	0.02	0.08	Effluent sample collected
9/20/2016	26	36	20	45	21	70	18	50	16.8	0.01	0.04	0.02	0.02	0.03	0.03	0.03	0.07	Effluent sample collected
12/28/2016	26	38	20	45	22	55	20	40	0.0	-	0.02	0.01	0.02	0.01	0.01	0.02	0.03	
3/29/2017	28	30	26	55	26	60	24	55	0.7	-	0.02	0.01	-	0	0.01	0.01	0.06	Effluent sample collected
6/27/2017	30	32	27	60	28	60	26	50	3.7	0.01	0.01	0.02	0	0	0.01	0.01	0.03	Effluent sample collected
9/28/2017	30	28	26	60	26	60	24	70	2.9	0	0.01	0.01	0.01	0	0	0.01	0.03	Effluent sample collected
12/28/2017	30	40	38	60	38	60	38	60	10.6									Effluent sample collected System offline on arrival - high knockout alarm
3/29/2018	30	28	24	60	26	60	24	60	12.4									System offline on arrival - high knockout alarm
4/15/2018	30	30	26	60	28	70	24	50	0.0	0.01	0.01	0.01	0.01	0	0.01	0.01	0.02	Effluent sample collected SVI Sampling performed
6/20/2018	30	30	28	70	30	70	25	60	0.0	0	0.01	0	0.01	0	0.01	0.01	0.11	Effluent sample collected
9/17/2018	30	30	26	70	28	80	25	70	0.0	0	0.01	0	0.01	0.01	0.01	0	0.02	Effluent sample collected
12/17/2018	32	30	26	70	28	70	26	65	0.0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	Effluent sample collected SVI Sampling performed
3/27/2019	30	30	26	70	28	75	26	65	0.0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
6/28/2019	30	30	26	75	28	75	26	65	0.0	0.025	0.02	0.01	0.015	0.01	0.01	0.005	0.25	Effluent Sample Collected
9/26/2019	32	30	28	75	30	90	26	90	2.7	0.02	0.02	-	-	0.015	0.02	0.01	0.18	Effluent Sample Collected
12/16/2019	30	30	26	75	28	75	26	65	0.0	0.025	0.02	0.01	0.015	0.01	0.01	0.005	0.04	Effluent Sample Collected
9/1/2020	32	30	26	75	30	75	28	65	0.0	0.02	0.015	0.005	0.01	NM	NM	0.01	0.1	
12/22/2020	32	30	26	70	28	75	26	65	0.0	0.02	0.01	0.005	0.01	0.01	0.01	0.01	0.15	Effluent sample collected SVI Sampling performed
4/13/2021	32	30	28	70	30	65	28	65	0.0	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.2	
8/9/2021	32	30	26	70	30	70	26	70	0.0	0.02	0.01	0.005	0.01	0.01	0.01	0.01	0.2	Effluent Sample Collected
12/16/2021	32	30	28	70	28	70	24	65	0.0	0.02	0.01	0.005	0.01	0.01	0.01	0.01	0.2	
2/2/2022	32	30	28	70	28	70	28	64	0.0	0.01	0.01	0	0.01	0.005	0.015	0.005	0.1	Effluent Sample Collected

Notes:

"H₂O = inches of water

ppm = parts per million

scfm = standard cubic feet per minute

psi = pounds per square inch



APPENDIX E

LABORATORY REPORTS



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

NY ANALYTICAL SERVICES PROTOCOL DATA PACKAGE

FPM Group
CINDARELLA

GCH37250

Ver 1

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Tuesday, January 19, 2021

Attn: Mr John Bukoski, PG
FPM Group
640 Johnson Avenue, Suite 101
Bohemia, NY 11716

Project ID: CINDARELLA
SDG ID: GCH37250
Sample ID#s: CH37250 - CH37255

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



**NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE**

Client: FPM Group
Project: CINDARELLA
Laboratory Project: GCH37250



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823



NY Analytical Services Protocol Format

January 19, 2021

SDG I.D.: GCH37250

FPM Group CINDARELLA

Methodology Summary

Volatiles in Air

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-15, Second Edition, U. S. Environmental Protection Agency, January 1999.



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Tel. (860) 645-1102 Fax (860) 645-0823



NY Analytical Services Protocol Format

January 19, 2021

SDG I.D.: GCH37250

FPM Group CINDARELLA

Laboratory Chronicle

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CH37250	Volatiles (TO15)	12/22/20	12/23/20	12/23/20	KCA	Y
CH37251	Volatiles (TO15)	12/22/20	12/23/20	12/23/20	KCA	Y
CH37252	Volatiles (TO15)	12/22/20	12/24/20	12/24/20	KCA	Y
CH37253	Volatiles (TO15)	12/22/20	12/23/20	12/23/20	KCA	Y
CH37254	Volatiles (TO15)	12/22/20	12/23/20	12/23/20	KCA	Y
CH37255	Volatiles (TO15)	12/22/20	12/24/20	12/24/20	KCA	Y



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Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

January 19, 2021

SDG I.D.: GCH37250

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Sample Id Cross Reference

January 19, 2021

SDG I.D.: GCH37250

Project ID: CINDARELLA

Client Id	Lab Id	Matrix
IA-1	CH37250	AIR
IA-2	CH37251	AIR
AA-1	CH37252	AIR
IA-99	CH37253	AIR
IA-4	CH37254	AIR
IA-3	CH37255	AIR



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

January 19, 2021

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 17160

Custody Information

Collected by: AR
 Received by: SW
 Analyzed by: see "By" below

Date: 12/22/20 17:01
 12/23/20 16:26

Project ID: CINDARELLA
 Client ID: IA-1

Laboratory Data

SDG ID: GCH37250
 Phoenix ID: CH37250

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/23/20	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/23/20	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/23/20	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/23/20	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/23/20	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	12/23/20	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	12/23/20	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/23/20	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	12/23/20	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/23/20	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/23/20	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	12/23/20	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	12/23/20	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/23/20	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	12/23/20	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/23/20	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/23/20	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	12/23/20	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	12/23/20	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	12/23/20	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	12/23/20	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	12/23/20	KCA	1
Acetone	10.9	0.421	0.421	25.9	1.00	1.00	12/23/20	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	12/23/20	KCA	1
Benzene	0.321	0.313	0.313	1.02	1.00	1.00	12/23/20	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	12/23/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	12/23/20	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	12/23/20	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	12/23/20	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	12/23/20	KCA	1
Carbon Tetrachloride	0.081	0.032	0.032	0.51	0.20	0.20	12/23/20	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	12/23/20	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	12/23/20	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	12/23/20	KCA	1
Chloromethane	0.531	0.485	0.485	1.10	1.00	1.00	12/23/20	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	12/23/20	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/23/20	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	12/23/20	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	12/23/20	KCA	1
Dichlorodifluoromethane	0.427	0.202	0.202	2.11	1.00	1.00	12/23/20	KCA	1
Ethanol	369	E 0.531	0.531	695	1.00	1.00	12/23/20	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	12/23/20	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	12/23/20	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	12/23/20	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	12/23/20	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	12/23/20	KCA	1
Isopropylalcohol	4.78	0.407	0.407	11.7	1.00	1.00	12/23/20	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/23/20	KCA	1
m,p-Xylene	0.263	0.230	0.230	1.14	1.00	1.00	12/23/20	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	12/23/20	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	12/23/20	KCA	1
Methylene Chloride	ND	0.864	0.864	ND	3.00	3.00	12/23/20	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/23/20	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	12/23/20	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	12/23/20	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/23/20	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	12/23/20	KCA	1
Tetrachloroethene	0.068	0.037	0.037	0.46	0.25	0.25	12/23/20	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	12/23/20	KCA	1
Toluene	1.44	0.266	0.266	5.42	1.00	1.00	12/23/20	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/23/20	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/23/20	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	12/23/20	KCA	1
Trichlorofluoromethane	0.293	0.178	0.178	1.65	1.00	1.00	12/23/20	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	12/23/20	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	12/23/20	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	100	%	%	100	%	%	12/23/20	KCA	1
% IS-1,4-Difluorobenzene	95	%	%	95	%	%	12/23/20	KCA	1
% IS-Bromochloromethane	95	%	%	95	%	%	12/23/20	KCA	1
% IS-Chlorobenzene-d5	96	%	%	96	%	%	12/23/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

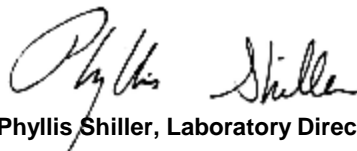
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

January 19, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

January 19, 2021

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 28591

Custody Information

Collected by: AR
 Received by: SW
 Analyzed by: see "By" below

Date: 12/22/20 16:10
 12/23/20 16:26

Project ID: CINDARELLA
 Client ID: IA-2

Laboratory Data

SDG ID: GCH37250
 Phoenix ID: CH37251

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/23/20	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/23/20	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/23/20	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/23/20	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/23/20	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	12/23/20	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	12/23/20	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/23/20	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	12/23/20	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/23/20	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/23/20	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	12/23/20	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	12/23/20	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/23/20	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	12/23/20	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/23/20	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/23/20	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	12/23/20	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	12/23/20	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	12/23/20	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	12/23/20	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	12/23/20	KCA	1
Acetone	9.41	0.421	0.421	22.3	1.00	1.00	12/23/20	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	12/23/20	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	12/23/20	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	12/23/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 LOD/ RL MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.149	0.149	ND	1.00 1.00	12/23/20	KCA	1	
Bromoform	ND	0.097	0.097	ND	1.00 1.00	12/23/20	KCA	1	
Bromomethane	ND	0.258	0.258	ND	1.00 1.00	12/23/20	KCA	1	
Carbon Disulfide	ND	0.321	0.321	ND	1.00 1.00	12/23/20	KCA	1	
Carbon Tetrachloride	0.086	0.032	0.032	0.54	0.20 0.20	12/23/20	KCA	1	
Chlorobenzene	ND	0.217	0.217	ND	1.00 1.00	12/23/20	KCA	1	
Chloroethane	ND	0.379	0.379	ND	1.00 1.00	12/23/20	KCA	1	
Chloroform	0.342	0.205	0.205	1.67	1.00 1.00	12/23/20	KCA	1	
Chloromethane	0.492	0.485	0.485	1.02	1.00 1.00	12/23/20	KCA	1	
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20 0.20	12/23/20	KCA	1	
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00 1.00	12/23/20	KCA	1	
Cyclohexane	ND	0.291	0.291	ND	1.00 1.00	12/23/20	KCA	1	
Dibromochloromethane	ND	0.118	0.118	ND	1.00 1.00	12/23/20	KCA	1	
Dichlorodifluoromethane	0.428	0.202	0.202	2.12	1.00 1.00	12/23/20	KCA	1	
Ethanol	47.6	E 0.531	0.531	89.6	1.00 1.00	12/23/20	KCA	1 1	
Ethyl acetate	ND	0.278	0.278	ND	1.00 1.00	12/23/20	KCA	1 1	
Ethylbenzene	ND	0.230	0.230	ND	1.00 1.00	12/23/20	KCA	1	
Heptane	ND	0.244	0.244	ND	1.00 1.00	12/23/20	KCA	1	
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00 1.00	12/23/20	KCA	1	
Hexane	0.294	0.284	0.284	1.04	1.00 1.00	12/23/20	KCA	1	
Isopropylalcohol	3.46	0.407	0.407	8.50	1.00 1.00	12/23/20	KCA	1	
Isopropylbenzene	ND	0.204	0.204	ND	1.00 1.00	12/23/20	KCA	1	
m,p-Xylene	0.311	0.230	0.230	1.35	1.00 1.00	12/23/20	KCA	1	
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00 1.00	12/23/20	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00 1.00	12/23/20	KCA	1	
Methylene Chloride	ND	0.864	0.864	ND	3.00 3.00	12/23/20	KCA	1	
n-Butylbenzene	ND	0.182	0.182	ND	1.00 1.00	12/23/20	KCA	1 1	
o-Xylene	ND	0.230	0.230	ND	1.00 1.00	12/23/20	KCA	1	
Propylene	ND	0.581	0.581	ND	1.00 1.00	12/23/20	KCA	1 1	
sec-Butylbenzene	ND	0.182	0.182	ND	1.00 1.00	12/23/20	KCA	1 1	
Styrene	ND	0.235	0.235	ND	1.00 1.00	12/23/20	KCA	1	
Tetrachloroethene	0.097	0.037	0.037	0.66	0.25 0.25	12/23/20	KCA	1	
Tetrahydrofuran	ND	0.339	0.339	ND	1.00 1.00	12/23/20	KCA	1 1	
Toluene	0.601	0.266	0.266	2.26	1.00 1.00	12/23/20	KCA	1	
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00 1.00	12/23/20	KCA	1	
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00 1.00	12/23/20	KCA	1	
Trichloroethene	ND	0.037	0.037	ND	0.20 0.20	12/23/20	KCA	1	
Trichlorofluoromethane	0.316	0.178	0.178	1.77	1.00 1.00	12/23/20	KCA	1	
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00 1.00	12/23/20	KCA	1	
Vinyl Chloride	ND	0.078	0.078	ND	0.20 0.20	12/23/20	KCA	1	
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	100	%	%	100	%	%	12/23/20	KCA	1
% IS-1,4-Difluorobenzene	89	%	%	89	%	%	12/23/20	KCA	1
% IS-Bromochloromethane	90	%	%	90	%	%	12/23/20	KCA	1
% IS-Chlorobenzene-d5	89	%	%	89	%	%	12/23/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

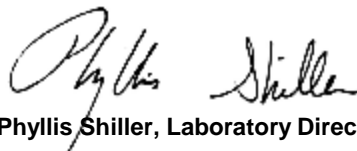
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

January 19, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

January 19, 2021

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 365

Custody Information

Collected by: AR
 Received by: SW
 Analyzed by: see "By" below

Date: 12/22/20 16:16
 12/23/20 16:26

Project ID: CINDARELLA
 Client ID: AA-1

Laboratory Data

SDG ID: GCH37250
 Phoenix ID: CH37252

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/23/20	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/23/20	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/23/20	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/23/20	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/23/20	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	12/23/20	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	12/23/20	KCA	1
1,2,4-Trimethylbenzene	0.220	0.204	0.204	1.08	1.00	1.00	12/23/20	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	12/23/20	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/23/20	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/23/20	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	12/23/20	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	12/23/20	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/23/20	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	12/23/20	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/23/20	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/23/20	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	12/23/20	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	12/23/20	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	12/23/20	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	12/23/20	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	12/23/20	KCA	1
Acetone	12.7	0.421	0.421	30.1	1.00	1.00	12/23/20	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	12/23/20	KCA	1
Benzene	0.788	0.313	0.313	2.52	1.00	1.00	12/23/20	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	12/23/20	KCA	1

Client ID: AA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	12/23/20	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	12/23/20	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	12/23/20	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	12/23/20	KCA	1
Carbon Tetrachloride	0.078	0.032	0.032	0.49	0.20	0.20	12/23/20	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	12/23/20	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	12/23/20	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	12/23/20	KCA	1
Chloromethane	0.669	0.485	0.485	1.38	1.00	1.00	12/23/20	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	12/23/20	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/23/20	KCA	1
Cyclohexane	2.03	0.291	0.291	6.98	1.00	1.00	12/23/20	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	12/23/20	KCA	1
Dichlorodifluoromethane	0.453	0.202	0.202	2.24	1.00	1.00	12/23/20	KCA	1
Ethanol	124	2.66	2.66	233	5.01	5.01	12/24/20	KCA	5
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	12/23/20	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	12/23/20	KCA	1
Heptane	1.29	0.244	0.244	5.28	1.00	1.00	12/23/20	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	12/23/20	KCA	1
Hexane	2.25	0.284	0.284	7.93	1.00	1.00	12/23/20	KCA	1
Isopropylalcohol	6.58	0.407	0.407	16.2	1.00	1.00	12/23/20	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/23/20	KCA	1
m,p-Xylene	0.746	0.230	0.230	3.24	1.00	1.00	12/23/20	KCA	1
Methyl Ethyl Ketone	60.5	1.70	1.70	178	5.01	5.01	12/24/20	KCA	5
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	12/23/20	KCA	1
Methylene Chloride	ND	0.864	0.864	ND	3.00	3.00	12/23/20	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/23/20	KCA	1
o-Xylene	0.298	0.230	0.230	1.29	1.00	1.00	12/23/20	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	12/23/20	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/23/20	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	12/23/20	KCA	1
Tetrachloroethene	ND	0.037	0.037	ND	0.25	0.25	12/23/20	KCA	1
Tetrahydrofuran	0.591	0.339	0.339	1.74	1.00	1.00	12/23/20	KCA	1
Toluene	1.85	0.266	0.266	6.97	1.00	1.00	12/23/20	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/23/20	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/23/20	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	12/23/20	KCA	1
Trichlorofluoromethane	0.364	0.178	0.178	2.04	1.00	1.00	12/23/20	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	12/23/20	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	12/23/20	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	99	%	%	99	%	%	12/23/20	KCA	1
% IS-1,4-Difluorobenzene	87	%	%	87	%	%	12/23/20	KCA	1
% IS-Bromochloromethane	85	%	%	85	%	%	12/23/20	KCA	1
% IS-Chlorobenzene-d5	87	%	%	87	%	%	12/23/20	KCA	1
% Bromofluorobenzene (5x)	103	%	%	103	%	%	12/24/20	KCA	5
% IS-1,4-Difluorobenzene (5x)	112	%	%	112	%	%	12/24/20	KCA	5
% IS-Bromochloromethane (5x)	115	%	%	115	%	%	12/24/20	KCA	5
% IS-Chlorobenzene-d5 (5x)	108	%	%	108	%	%	12/24/20	KCA	5

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

January 19, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

January 19, 2021

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 28621

Custody Information

Collected by: AR
 Received by: SW
 Analyzed by: see "By" below

Date: 12/22/20 16:19
 12/23/20 16:26

Project ID: CINDARELLA
 Client ID: IA-99

Laboratory Data

SDG ID: GCH37250
 Phoenix ID: CH37253

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/23/20	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/23/20	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/23/20	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/23/20	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/23/20	KCA	1	
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	12/23/20	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	12/23/20	KCA	1	
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/23/20	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	12/23/20	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/23/20	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/23/20	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	12/23/20	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	12/23/20	KCA	1	
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/23/20	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	12/23/20	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/23/20	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/23/20	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	12/23/20	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	12/23/20	KCA	1	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	12/23/20	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	12/23/20	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	12/23/20	KCA	1	
Acetone	9.45	0.421	0.421	22.4	1.00	1.00	12/23/20	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	12/23/20	KCA	1	
Benzene	ND	0.313	0.313	ND	1.00	1.00	12/23/20	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	12/23/20	KCA	1	

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 LOD/ RL MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.149	0.149	ND	1.00 1.00	12/23/20	KCA	1	
Bromoform	ND	0.097	0.097	ND	1.00 1.00	12/23/20	KCA	1	
Bromomethane	ND	0.258	0.258	ND	1.00 1.00	12/23/20	KCA	1	
Carbon Disulfide	ND	0.321	0.321	ND	1.00 1.00	12/23/20	KCA	1	
Carbon Tetrachloride	0.083	0.032	0.032	0.52	0.20 0.20	12/23/20	KCA	1	
Chlorobenzene	ND	0.217	0.217	ND	1.00 1.00	12/23/20	KCA	1	
Chloroethane	ND	0.379	0.379	ND	1.00 1.00	12/23/20	KCA	1	
Chloroform	0.382	0.205	0.205	1.86	1.00 1.00	12/23/20	KCA	1	
Chloromethane	ND	0.485	0.485	ND	1.00 1.00	12/23/20	KCA	1	
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20 0.20	12/23/20	KCA	1	
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00 1.00	12/23/20	KCA	1	
Cyclohexane	ND	0.291	0.291	ND	1.00 1.00	12/23/20	KCA	1	
Dibromochloromethane	ND	0.118	0.118	ND	1.00 1.00	12/23/20	KCA	1	
Dichlorodifluoromethane	0.419	0.202	0.202	2.07	1.00 1.00	12/23/20	KCA	1	
Ethanol	50.2	E 0.531	0.531	94.5	1.00 1.00	12/23/20	KCA	1 1	
Ethyl acetate	ND	0.278	0.278	ND	1.00 1.00	12/23/20	KCA	1 1	
Ethylbenzene	ND	0.230	0.230	ND	1.00 1.00	12/23/20	KCA	1	
Heptane	ND	0.244	0.244	ND	1.00 1.00	12/23/20	KCA	1	
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00 1.00	12/23/20	KCA	1	
Hexane	ND	0.284	0.284	ND	1.00 1.00	12/23/20	KCA	1	
Isopropylalcohol	3.40	0.407	0.407	8.35	1.00 1.00	12/23/20	KCA	1	
Isopropylbenzene	ND	0.204	0.204	ND	1.00 1.00	12/23/20	KCA	1	
m,p-Xylene	0.340	0.230	0.230	1.48	1.00 1.00	12/23/20	KCA	1	
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00 1.00	12/23/20	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00 1.00	12/23/20	KCA	1	
Methylene Chloride	ND	0.864	0.864	ND	3.00 3.00	12/23/20	KCA	1	
n-Butylbenzene	ND	0.182	0.182	ND	1.00 1.00	12/23/20	KCA	1 1	
o-Xylene	ND	0.230	0.230	ND	1.00 1.00	12/23/20	KCA	1	
Propylene	ND	0.581	0.581	ND	1.00 1.00	12/23/20	KCA	1 1	
sec-Butylbenzene	ND	0.182	0.182	ND	1.00 1.00	12/23/20	KCA	1 1	
Styrene	ND	0.235	0.235	ND	1.00 1.00	12/23/20	KCA	1	
Tetrachloroethene	0.098	0.037	0.037	0.66	0.25 0.25	12/23/20	KCA	1	
Tetrahydrofuran	ND	0.339	0.339	ND	1.00 1.00	12/23/20	KCA	1 1	
Toluene	0.573	0.266	0.266	2.16	1.00 1.00	12/23/20	KCA	1	
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00 1.00	12/23/20	KCA	1	
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00 1.00	12/23/20	KCA	1	
Trichloroethene	ND	0.037	0.037	ND	0.20 0.20	12/23/20	KCA	1	
Trichlorofluoromethane	0.347	0.178	0.178	1.95	1.00 1.00	12/23/20	KCA	1	
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00 1.00	12/23/20	KCA	1	
Vinyl Chloride	ND	0.078	0.078	ND	0.20 0.20	12/23/20	KCA	1	
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	99	%	%	99	% %	12/23/20	KCA	1	
% IS-1,4-Difluorobenzene	89	%	%	89	% %	12/23/20	KCA	1	
% IS-Bromochloromethane	90	%	%	90	% %	12/23/20	KCA	1	
% IS-Chlorobenzene-d5	92	%	%	92	% %	12/23/20	KCA	1	

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

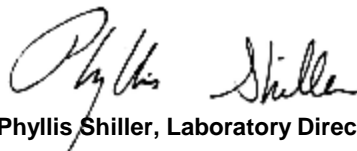
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

January 19, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

January 19, 2021

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 19589
 Project ID: CINDARELLA
 Client ID: IA-4

Custody Information

Collected by: AR
 Received by: SW
 Analyzed by: see "By" below

Date: 12/22/20 17:10
 12/23/20 16:26

Laboratory Data

SDG ID: GCH37250
 Phoenix ID: CH37254

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/23/20	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/23/20	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/23/20	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/23/20	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/23/20	KCA	1	
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	12/23/20	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	12/23/20	KCA	1	
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/23/20	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	12/23/20	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/23/20	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/23/20	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	12/23/20	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	12/23/20	KCA	1	
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/23/20	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	12/23/20	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/23/20	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/23/20	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	12/23/20	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	12/23/20	KCA	1	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	12/23/20	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	12/23/20	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	12/23/20	KCA	1	
Acetone	5.91	0.421	0.421	14.0	1.00	1.00	12/23/20	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	12/23/20	KCA	1	
Benzene	ND	0.313	0.313	ND	1.00	1.00	12/23/20	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	12/23/20	KCA	1	

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	12/23/20	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	12/23/20	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	12/23/20	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	12/23/20	KCA	1
Carbon Tetrachloride	0.083	0.032	0.032	0.52	0.20	0.20	12/23/20	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	12/23/20	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	12/23/20	KCA	1
Chloroform	0.473	0.205	0.205	2.31	1.00	1.00	12/23/20	KCA	1
Chloromethane	0.533	0.485	0.485	1.10	1.00	1.00	12/23/20	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	12/23/20	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/23/20	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	12/23/20	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	12/23/20	KCA	1
Dichlorodifluoromethane	0.422	0.202	0.202	2.09	1.00	1.00	12/23/20	KCA	1
Ethanol	16.8	0.531	0.531	31.6	1.00	1.00	12/23/20	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	12/23/20	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	12/23/20	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	12/23/20	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	12/23/20	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	12/23/20	KCA	1
Isopropylalcohol	3.77	0.407	0.407	9.26	1.00	1.00	12/23/20	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/23/20	KCA	1
m,p-Xylene	0.316	0.230	0.230	1.37	1.00	1.00	12/23/20	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	12/23/20	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	12/23/20	KCA	1
Methylene Chloride	ND	0.864	0.864	ND	3.00	3.00	12/23/20	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/23/20	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	12/23/20	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	12/23/20	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/23/20	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	12/23/20	KCA	1
Tetrachloroethene	0.078	0.037	0.037	0.53	0.25	0.25	12/23/20	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	12/23/20	KCA	1
Toluene	1.26	0.266	0.266	4.75	1.00	1.00	12/23/20	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/23/20	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/23/20	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	12/23/20	KCA	1
Trichlorofluoromethane	0.340	0.178	0.178	1.91	1.00	1.00	12/23/20	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	12/23/20	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	12/23/20	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	97	%	%	97	%	%	12/23/20	KCA	1
% IS-1,4-Difluorobenzene	89	%	%	89	%	%	12/23/20	KCA	1
% IS-Bromochloromethane	86	%	%	86	%	%	12/23/20	KCA	1
% IS-Chlorobenzene-d5	89	%	%	89	%	%	12/23/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

January 19, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

January 19, 2021

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 28596

Custody Information

Collected by: AR
 Received by: SW
 Analyzed by: see "By" below

Date: 12/22/20 15:52
 12/23/20 16:26

Project ID: CINDARELLA
 Client ID: IA-3

Laboratory Data

SDG ID: GCH37250
 Phoenix ID: CH37255

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/24/20	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/24/20	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	12/24/20	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	12/24/20	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/24/20	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	12/24/20	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	12/24/20	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/24/20	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	12/24/20	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/24/20	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	12/24/20	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	12/24/20	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	12/24/20	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/24/20	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	12/24/20	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/24/20	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	12/24/20	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	12/24/20	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	12/24/20	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	12/24/20	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	12/24/20	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	12/24/20	KCA	1
Acetone	8.78	0.421	0.421	20.8	1.00	1.00	12/24/20	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	12/24/20	KCA	1
Benzene	0.352	0.313	0.313	1.12	1.00	1.00	12/24/20	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	12/24/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	12/24/20	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	12/24/20	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	12/24/20	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	12/24/20	KCA	1
Carbon Tetrachloride	0.089	0.032	0.032	0.56	0.20	0.20	12/24/20	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	12/24/20	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	12/24/20	KCA	1
Chloroform	0.812	0.205	0.205	3.96	1.00	1.00	12/24/20	KCA	1
Chloromethane	0.529	0.485	0.485	1.09	1.00	1.00	12/24/20	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	12/24/20	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/24/20	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	12/24/20	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	12/24/20	KCA	1
Dichlorodifluoromethane	0.632	0.202	0.202	3.12	1.00	1.00	12/24/20	KCA	1
Ethanol	41.3	E 0.531	0.531	77.8	1.00	1.00	12/24/20	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	12/24/20	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	12/24/20	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	12/24/20	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	12/24/20	KCA	1
Hexane	0.485	0.284	0.284	1.71	1.00	1.00	12/24/20	KCA	1
Isopropylalcohol	6.76	0.407	0.407	16.6	1.00	1.00	12/24/20	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	12/24/20	KCA	1
m,p-Xylene	0.440	0.230	0.230	1.91	1.00	1.00	12/24/20	KCA	1
Methyl Ethyl Ketone	0.416	0.339	0.339	1.23	1.00	1.00	12/24/20	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	12/24/20	KCA	1
Methylene Chloride	ND	0.864	0.864	ND	3.00	3.00	12/24/20	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/24/20	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	12/24/20	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	12/24/20	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	12/24/20	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	12/24/20	KCA	1
Tetrachloroethene	0.108	0.037	0.037	0.73	0.25	0.25	12/24/20	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	12/24/20	KCA	1
Toluene	0.951	0.266	0.266	3.58	1.00	1.00	12/24/20	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	12/24/20	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	12/24/20	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	12/24/20	KCA	1
Trichlorofluoromethane	0.341	0.178	0.178	1.91	1.00	1.00	12/24/20	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	12/24/20	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	12/24/20	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	97	%	%	97	%	%	12/24/20	KCA	1
% IS-1,4-Difluorobenzene	81	%	%	81	%	%	12/24/20	KCA	1
% IS-Bromochloromethane	85	%	%	85	%	%	12/24/20	KCA	1
% IS-Chlorobenzene-d5	82	%	%	82	%	%	12/24/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

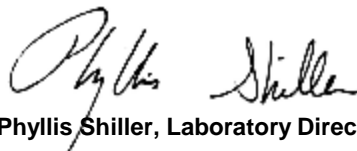
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

January 19, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Canister Sampling Information

January 19, 2021

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Location Code: FPMGROUP

SDG I.D.: GCH37250

Project ID: CINDARELLA

Client Id	Lab Id	Canister		Reg. Id	Chk Out Date	Laboratory					Field			
		Id	Type			Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
IA-1	CH37250	17160	6.0L	7011	12/15/20	-30	-5	10.8	11.7	8.0	-31	-7	12/22/20 09:05	12/22/20 17:01
IA-2	CH37251	28591	6.0L	4979	12/15/20	-30	-6	10.8	11.3	4.5	-29	-7	12/22/20 09:21	12/22/20 16:19
AA-1	CH37252	365	6.0L	3258	12/15/20	-30	-8	10.8	11.4	5.4	-29	-9	12/22/20 09:45	12/22/20 16:16
IA-99	CH37253	28621	6.0L	5043	12/15/20	-30	-4	10.8	11.3	4.5	-29	-6	12/22/20 09:23	12/22/20 16:19
IA-4	CH37254	19589	6.0L	5352	12/15/20	-30	-5	10.8	11.7	8.0	-31	-8	12/22/20 09:39	12/22/20 17:10
IA-3	CH37255	28596	6.0L	6986	12/15/20	-30	-9	10.8	11.2	3.6	-27	-7	12/22/20 09:35	12/22/20 15:52



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 Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

January 19, 2021

QA/QC Data

SDG I.D.: GCH37250

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 557825 (ppbv), QC Sample No: CH37250 (CH37250, CH37251, CH37252 (1X, 5X), CH37253, CH37254, CH37255)

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	104	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	110	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	92	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	94	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	120	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	92	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	119	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	114	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	116	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	90	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	140	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	113	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	124	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	119	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	120	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	80	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	91	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	116	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	117	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	95	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	124	25.9	26.6	10.9	11.2	2.7	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	94	1.02	1.00	0.321	0.313	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	96	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	109	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	115	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	114	0.51	0.53	0.081	0.085	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	113	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	102	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	134	1.10	1.11	0.531	0.538	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	103	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	107	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	128	2.11	1.87	0.427	0.378	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	95	695 E	704	369 E	374	1.3	70 - 130	25

QA/QC Data

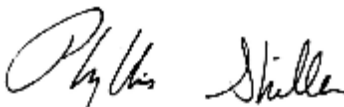
SDG I.D.: GCH37250

Parameter	Bik ppbv	Bik RL ppbv	Bik ug/m3	Bik RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	0.280	ND	1.01	106	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	101	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	94	ND	ND	ND	ND	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	107	11.7	10.9	4.78	4.44	7.4	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	106	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	103	1.14	1.21	0.263	0.278	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	101	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	107	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	123	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	130	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	119	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	101	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	102	0.46	0.47	0.068	0.070	NC	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	99	5.42	5.46	1.44	1.45	0.7	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	101	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	114	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	103	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	135	1.65	1.73	0.293	0.308	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	133	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	97	%	97	%	109	100	99	100	99	NC	70 - 130	25
% IS-1,4-Difluorobenzene	100	%	100	%	104	95	88	95	88	NC	60 - 140	25
% IS-Bromochloromethane	102	%	102	%	103	95	93	95	93	NC	60 - 140	25
% IS-Chlorobenzene-d5	103	%	103	%	116	96	89	96	89	NC	60 - 140	25

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 January 19, 2021

Sample Criteria Exceedances Report

GCH37250 - FPMGROUP

Criteria: None

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



507 East Middle Turnpike, P.O. Box 170, Manchester, CT 06040
 Telephone: 860.645.1102 • Fax: 860.645.9823

**CHAIN OF CUSTODY RECORD
 AIR ANALYSES**

800-827-5426
 email: greg@phoenixlabs.com

P.O. # _____ Page _____ of _____
 Data Delivery: Fax #: _____
 Email: h.severson@phoenixlab.com
 Phone #: _____

Report to: Ben Canam
 Customer: FPM Group
 Address: 640 Johnson Ave.
Behemia, NY

Project Name: CINDARELLA
 Invoice to: SAME
 Sampled by: AR

Data Format: _____
 Requested Deliverable: RCP
MCP
 Other: _____
 Quote Number: _____

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (H _g)	Incoming Canister Pressure (H _g)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (H _g)	Canister Pressure at End (H _g)	MATRIX			ANALYSES
													Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	
37250	IA-1	17160	6.0	-30	-5	3011	10.8	9:05 am	5:10 pm	12/2	-31	-7	X			X
37251	IA-2	28691			-6	4079		9:22 pm	4:19 pm		-29	-7	X			X
37252	IA-99 AA-1	365			-8	3358		9:05 pm	4:16 pm		-29	-9	X			X
37253	IA-99	28621			-4	5013		9:23 pm	4:19 pm		-29	-6	X			X
37254	IA-4	19589			-5	6362		9:39 pm	5:10 pm	↓	-31	-8	X			X
	<u>Not Collected</u>	19969				6363										
37255	IA-3	28696			-9	6186		9:35 pm	3:52 pm	10/30	-27	-7	X			X

Relinquished by: _____ Date: _____
 Accepted by: [Signature] Date: 12-21-20 Time: 9:50
 State Where Samples Collected: NEW YORK Requested Criteria: (Please Circle) MA: _____ NJ: _____ NY: _____ VT: _____
 Turnaround Time: 1 Day 2 Day 3 Day 4 Day 5 Day
 SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
(8) (6) (8) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)
 Signature: _____ Date: 12/21



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE

Client: FPM Group

CINDARELLA

Laboratory Project: GCH37250

Volatile TO15
Ver 1

Organic Data Flags

LOD(MDL): Limit of Detection or Method Detection Limit
The minimum reportable concentration that can be measured with confidence.

PQL(RL): Practical Quantitation Level or Reporting Level
This value is at or above the MDL and is supported by the lowest calibration standard.

- Q Qualifiers:

U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the "U" represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors.

J - Indicates an estimated value, may indicate one of the following, depending on the situation:
a) The reported value is estimated and below the MDL
b) Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
c) QC associated with this analyte is within warning limits.

X - The concentration is not reported. This quantitation file was not evaluated for this compound at this dilution; a volatile purging or related issue may be the cause.

L - Biased Low

N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.

S - This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level.

B - This compound was also present in the method blank

D - The reported concentration is the result of a diluted analysis. Samples that require dilution may result in elevated reporting limits that exceed requested criteria for one or more analytes.

E - The reported value is estimated because the concentration exceeded the calibration range.

A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

P- Percent difference is greater than 25% between the two GC columns and the lower result is reported.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823



SDG: GCH37250

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: CINDARELLA, FPM Group

Form 1 (Analysis):

No observations noted.

Form 2 (Surrogates):

All surrogates met criteria with the following exceptions: None.

Form 3 (Laboratory Control/Matrix Spike):

Sample: CH37250 LCS
All LCS recoveries met criteria with the following exceptions: Chloromethane 134%, 1,2-Dichlorotetrafluoroethane 140%, Vinyl Chloride 133%, Trichlorofluoromethane 135%

Form 4 (Method Blank):

File: CHEM20 1223_06.D
All compounds were non-detect with the following exceptions: None,

Form 5 (Tune):

File: CHEM20 1211_06.D
All Tune criteria was met with the following exceptions: None.

File: CHEM20 1223_02.D

All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

Calibration: CHEM20 12/11/20 - 12/12/20
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Calibration: CHEM20 12/11/20 - 12/12/20

100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Form 7 (Continuing Calibration):

File: CHEM20 1223_02.D (Opening)
99% of method compounds met criteria.
The following compounds did not meet maximum % deviations: 1,2,4-Trichlorobenzene 57.0% (20), 1,2,4-Trichlorobenzene(sim) 31.9% (30)

Form 8 (Internal Standard and Retention Time):

File: CHEM20 - 20_AIR_1211.M / 1223_02.D Full



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823



SDG: GCH37250

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: CINDARELLA, FPM Group

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_1211.M / 1223_02.D Sim

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_1211.M / Average Full

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_1211.M / Average Sim

All samples met internal standard area and retention time criteria with the following exceptions: None.

01/05/21

Alejandro Paredes
Project Manager

2C
AIR SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SDG: GCH37250
 QC Batch Id: 557825 QC Sample Id: CH37250

	CLIENT ID	LAB ID	SMC1 BFB #			TOT OUT
01	CH37250 LCS	CH37250 LCS	109			0
02	CH37250 BLANK	CH37250 BLANK	97			0
03	IA-1	CH37250	100			0
04	IA-1 DUP	CH37250 DUP	99			0
05	IA-2	CH37251	100			0
06	AA-1	CH37252	100			0
07	IA-99	CH37253	100			0
08	IA-4	CH37254	97			0
09	IA-3	CH37255	97			0
10	AA-1 5X	CH37252 5X	103			0
11						
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28						
29						
30						

SMC1 BFB Bromofluorobenzene QC LIMITS
(70-130)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

FORM II AIR

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No GCH37250

LCS - Client Id: CH37250 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		13.00	130	70	130
Dichlorodifluoromethane	10		12.82	128	70	130
Chloromethane	10		13.44	134 *	70	130
1,2-Dichlorotetrafluoroethane	10		13.99	140 *	70	130
Vinyl Chloride	10		13.29	133 *	70	130
1,3-Butadiene	10		12.38	124	70	130
Bromomethane	10		11.51	115	70	130
Chloroethane	10		11.30	113	70	130
Ethanol	4		3.976	99	70	130
Acetone	10		12.42	124	70	130
Trichlorofluoromethane	10		13.49	135 *	70	130
Isopropylalcohol	6		6.278	105	70	130
Acrylonitrile	10		10.68	107	70	130
1,1-Dichloroethene	10		11.95	120	70	130
Methylene Chloride	10		10.72	107	70	130
Carbon Disulfide	10		9.540	95	70	130
Trichlorotrifluoroethane	10		10.68	107	70	130
Trans-1,2-Dichloroethene	10		10.06	101	70	130
1,1-Dichloroethane	10		10.04	100	70	130
Methyl tert-butyl ether(MTBE)	10		10.08	101	70	130
Methyl Ethyl Ketone	10		9.933	99	70	130
Cis-1,2-Dichloroethene	10		10.35	104	70	130
Hexane	10		9.395	94	70	130
Chloroform	10		10.24	102	70	130
Ethyl acetate	10		10.55	106	70	130
Tetrahydrofuran	10		9.250	93	70	130
1,2-Dichloroethane	10		11.55	116	70	130
1,1,1-Trichloroethane	10		11.05	111	70	130
Benzene	10		9.379	94	70	130
Carbon Tetrachloride	10		11.37	114	70	130
Cyclohexane	10		10.15	102	70	130
1,2-dichloropropane	10		8.991	90	70	130
Bromodichloromethane	10		10.62	106	70	130
Trichloroethene	10		10.30	103	70	130
1,4-Dioxane	10		7.987	80	70	130
Heptane	10		10.06	101	70	130
cis-1,3-Dichloropropene	10		10.32	103	70	130
4-Methyl-2-pentanone(MIBK)	10		9.500	95	70	130
trans-1,3-Dichloropropene	10		11.36	114	70	130
1,1,2-Trichloroethane	10		9.448	94	70	130
Toluene	10		9.907	99	70	130
Dibromochloromethane	10		10.69	107	70	130
2-Hexanone(MBK)	10		9.059	91	70	130
1,2-Dibromoethane(EDB)	10		9.853	99	70	130

FORM III AIR

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No GCH37250
 LCS - Client Id: CH37250 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Tetrachloroethene	10		10.17	102	70 130
1,1,1,2-Tetrachloroethane	10		10.42	104	70 130
Chlorobenzene	10		10.02	100	70 130
Ethylbenzene	10		9.716	97	70 130
m,p-Xylene	20		20.63	103	70 130
Bromoform	10		10.89	109	70 130
Styrene	10		10.10	101	70 130
1,1,2,2-Tetrachloroethane	10		9.190	92	70 130
o-Xylene	10		10.66	107	70 130
Isopropylbenzene	10		10.64	106	70 130
4-Ethyltoluene	10		11.61	116	70 130
1,3,5-Trimethylbenzene	10		11.34	113	70 130
1,2,4-Trimethylbenzene	10		11.91	119	70 130
Benzyl chloride	10		9.590	96	70 130
1,3-Dichlorobenzene	10		11.91	119	70 130
1,4-Dichlorobenzene	10		12.01	120	70 130
sec-Butylbenzene	10		11.91	119	70 130
4-Isopropyltoluene	10		11.67	117	70 130
1,2-Dichlorobenzene	10		11.36	114	70 130
n-Butylbenzene	10		12.33	123	70 130
1,2,4-Trichlorobenzene	10		9.157	92	70 130
Hexachlorobutadiene	10		10.35	104	70 130

4A
AIR METHOD BLANK SUMMARY

Client ID

CH37250 BLANK

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCH37250

Lab File ID: 1223_06.D

Lab Sample ID: CH37250 BLK

Date Analyzed: 12/23/2020

Time Analyzed: 17:55

GC Column: RTX-1 60M

Lab Batch ID: 557825

Instrument ID: CHEM20

Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CH37250 LCS	CH37250 LCS	1223_04.D	16:46
02	IA-1	CH37250	1223_08.D	20:04
03	IA-1 DUP	CH37250 DUP	1223_09.D	20:45
04	IA-2	CH37251	1223_10.D	21:25
05	AA-1	CH37252	1223_11.D	22:07
06	IA-99	CH37253	1223_12.D	22:46
07	IA-4	CH37254	1223_13.D	23:27
08	IA-3	CH37255	1223_14.D	00:08
09	AA-1 5X	CH37252 5X	1223_29.D	09:57
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS: _____

FORM IV AIR

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCH37250

Lab File ID: 1211_06.D

BFB Injection Date: 12/11/20

Instrument ID: CHEM20

BFB Injection Time: 19:32

GC Column: RTX-1 60M

Heated Purge: (Y/N) Y

AutoFind: Scans 797, 798, 799; Background Corrected with Scan 792

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.8
75	30.0 - 66.0% of mass 95	48.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	86.4
175	4.0 - 9.0% of mass 174	7.8 (6.7)1
176	93.0 - 101.0% of mass 174	97.1 (83.9)1
177	5.0 - 9.0% of mass 176	6.7 (5.6)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	ICAL 0.02	0.02	1211_07.D	12/11/20	20:08	
02	ICAL 0.035	0.035	1211_08.D	12/11/20	21:50	
03	ICAL 0.05	0.05	1211_09.D	12/11/20	22:26	
04	ICAL 0.1	0.10	1211_10.D	12/11/20	23:02	
05	ICAL 0.2	0.2	1211_11.D	12/11/20	23:39	
06	ICAL 0.5	0.50	1211_12.D	12/12/20	00:17	
07	ICAL 2.5	2.5	1211_13.D	12/12/20	00:55	
08	ICAL 5	5.0	1211_14.D	12/12/20	01:31	
09	ICAL 25	25	1211_15.D	12/12/20	02:09	
10	ICAL 40	40	1211_16.D	12/12/20	02:49	
11	ICAL 1	1.0ppb cc	1211_18.D	12/12/20	04:00	
12	ICAL 10	10ppb cc	1211_19.D	12/12/20	04:37	
13						
14						
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20						
21						
22						
23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_06.D
 Acq On : 11 Dec 2020 7:32 pm
 Operator :
 Sample : 0/0
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
 Integration File signal 2: rteint2.p

Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 14 09:27:51 2020

AutoFind: Scans 797, 798, 799; Background Corrected with Scan 792

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.8	60125	PASS
75	95	30	66	48.4	139563	PASS
95	95	100	100	100.0	288469	PASS
96	95	5	9	6.6	19054	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	86.4	249323	PASS
175	174	4	9	7.8	19415	PASS
176	174	93	101	97.1	242048	PASS
177	176	5	9	6.7	16112	PASS

20_AIR_1211.M Mon Dec 14 09:29:34 2020

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCH37250

Lab File ID: 1223_02.D

BFB Injection Date: 12/23/20

Instrument ID: CHEM20

BFB Injection Time: 15:30

GC Column: RTX-1 60M

Heated Purge: (Y/N) Y

AutoFind: Averaged scan 793 to 809; Bkg corrected with scan 792

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	28.1
75	30.0 - 66.0% of mass 95	56.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	88.6
175	4.0 - 9.0% of mass 174	7.9 (7.0)1
176	93.0 - 101.0% of mass 174	96.8 (85.8)1
177	5.0 - 9.0% of mass 176	6.5 (5.6)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCAL 1	1.0ppb cc	1223_02.D	12/23/20	15:30
02	CH37250 LCS	CH37250 LCS	1223_04.D	12/23/20	16:46
03	CH37250 BLANK	CH37250 BLANK	1223_06.D	12/23/20	17:55
04	IA-1	CH37250	1223_08.D	12/23/20	20:04
05	IA-1 DUP	CH37250 DUP	1223_09.D	12/23/20	20:45
06	IA-2	CH37251	1223_10.D	12/23/20	21:25
07	AA-1	CH37252	1223_11.D	12/23/20	22:07
08	IA-99	CH37253	1223_12.D	12/23/20	22:46
09	IA-4	CH37254	1223_13.D	12/23/20	23:27
10	IA-3	CH37255	1223_14.D	12/24/20	00:08
11	AA-1 5X	CH37252 5X	1223_29.D	12/24/20	09:57
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_02.D
 Acq On : 23 Dec 2020 3:30 pm
 Operator :
 Sample : 1.0ppb cc
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
 Integration File signal 2: rteint2.p

Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 14 09:27:51 2020

AutoFind: Averaged scan 793 to 809; Bkg corrected with scan 792

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	28.1	12296	PASS
75	95	30	66	56.9	24874	PASS
95	95	100	100	100.0	43697	PASS
96	95	5	9	6.6	2885	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	88.6	38719	PASS
175	174	4	9	7.9	3046	PASS
176	174	93	101	96.8	37476	PASS
177	176	5	9	6.5	2440	PASS

20_AIR_1211.M Thu Dec 24 08:42:53 2020

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH37250
 Lab Method / File Id: 20_AIR_1211.M / Average Date Analyzed: 12/12/20
 Instrument ID: CHEM20 Time Analyzed: 4:00
 GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			LAB FILE ID
12 HOUR STD	221758	6.74	868822	7.93	451624	10.46			Average
UPPER LIMIT	311570	7.07	1220694	8.26	634532	10.79			Average
LOWER LIMIT	131946	6.41	516949	7.60	268717	10.13			Average
CLIENT ID									
01 ICAL 0.2	216368	6.74	850278	7.92	399915	10.46			1211_11.D
02 ICAL 0.5	212281	6.74	811712	7.92	387143	10.46			1211_12.D
03 ICAL 2.5	206699	6.74	822522	7.92	400798	10.46			1211_13.D
04 ICAL 5	208968	6.75	812093	7.93	411173	10.46			1211_14.D
05 ICAL 25	221482	6.75	867257	7.93	503843	10.46			1211_15.D
06 ICAL 40	252498	6.76	987992	7.93	614141	10.46			1211_16.D
07 ICAL 1	235082	6.74	926042	7.92	436832	10.46			1211_18.D
08 ICAL 10	220688	6.75	872677	7.93	459150	10.46			1211_19.D
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH37250
 Lab Method / File Id: 20_AIR_1211.M / Average Date Analyzed: 12/12/20
 Instrument ID: CHEM20 Time Analyzed: 4:00
 GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			LAB FILE ID
12 HOUR STD	254794	6.74	879582	7.93	422958	10.46			Average
UPPER LIMIT	357986	7.07	1235813	8.26	594257	10.79			Average
LOWER LIMIT	151602	6.41	523351	7.60	251660	10.13			Average
CLIENT ID									
01 ICAL 0.02	283818	6.74	962945	7.92	449613	10.46			1211_07.D
02 ICAL 0.035	276792	6.74	953575	7.93	449448	10.46			1211_08.D
03 ICAL 0.05	267043	6.74	920550	7.92	428455	10.46			1211_09.D
04 ICAL 0.1	250279	6.74	863614	7.92	407149	10.46			1211_10.D
05 ICAL 0.2	245787	6.74	850278	7.92	399915	10.46			1211_11.D
06 ICAL 0.5	237255	6.74	811712	7.92	387051	10.46			1211_12.D
07 ICAL 2.5	236015	6.74	822333	7.92	400798	10.46			1211_13.D
08 ICAL 5	233211	6.75	812093	7.93	411173	10.46			1211_14.D
09 ICAL 1	266522	6.74	926042	7.92	436736	10.46			1211_18.D
10 ICAL 10	251218	6.75	872677	7.93	459246	10.46			1211_19.D
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
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 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

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 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH37250
 Lab Method / File Id: 20_AIR_1211.M / 1223_02.D Date Analyzed: 12/23/20
 Instrument ID: CHEM20 Time Analyzed: 15:30
 GC Column: RTX-1 60M ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
12 HOUR STD	202582	6.74	773773	7.92	360460	10.46			1223_02.D
UPPER LIMIT	284628	7.07	1087151	8.25	506446	10.79			1223_02.D
LOWER LIMIT	120536	6.41	460395	7.59	214474	10.13			1223_02.D
CLIENT ID									
01 CCAL 1	202582	6.74	773773	7.92	360460	10.46			1223_02.D
02 CH37250 LCS	208417	6.74	802852	7.93	419930	10.46			1223_04.D
03 CH37250 BLANK	206457	6.74	774297	7.92	370530	10.46			1223_06.D
04 IA-1	192649	6.75	731933	7.92	346273	10.46			1223_08.D
05 IA-1 DUP	188598	6.74	681905	7.92	319530	10.46			1223_09.D
06 IA-2	182039	6.74	688947	7.92	319119	10.46			1223_10.D
07 AA-1	172124	6.75	674468	7.93	312997	10.46			1223_11.D
08 IA-99	181671	6.73	688273	7.92	331135	10.46			1223_12.D
09 IA-4	174710	6.74	686787	7.92	319169	10.46			1223_13.D
10 IA-3	171569	6.74	626717	7.92	297369	10.46			1223_14.D
11 AA-1 5X	233839	6.74	865002	7.92	389809	10.46			1223_29.D
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH37250
 Lab Method / File Id: 20_AIR_1211.M / 1223_02.D Date Analyzed: 12/23/20
 Instrument ID: CHEM20 Time Analyzed: 15:30
 GC Column: RTX-1 60M ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
12 HOUR STD	236858	6.74	773773	7.92	360460	10.46			1223_02.D
UPPER LIMIT	332785	7.07	1087151	8.25	506446	10.79			1223_02.D
LOWER LIMIT	140931	6.41	460395	7.59	214474	10.13			1223_02.D
CLIENT ID									
01 CCAL 1	236858	6.74	773773	7.92	360460	10.46			1223_02.D
02 CH37250 LCS	238517	6.74	803191	7.93	419930	10.46			1223_04.D
03 CH37250 BLANK	242798	6.74	773041	7.92	370530	10.46			1223_06.D
04 IA-1	223138	6.74	731239	7.92	346273	10.46			1223_08.D
05 IA-1 DUP	213328	6.74	682055	7.92	319530	10.46			1223_09.D
06 IA-2	212781	6.74	688775	7.92	319119	10.46			1223_10.D
07 AA-1	205890	6.74	674428	7.93	312997	10.46			1223_11.D
08 IA-99	215232	6.73	688273	7.92	331135	10.46			1223_12.D
09 IA-4	209225	6.74	686682	7.92	319169	10.46			1223_13.D
10 IA-3	199662	6.74	626717	7.92	297485	10.46			1223_14.D
11 AA-1 5X	265794	6.74	865002	7.92	390239	10.46			1223_29.D
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-1

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCH37250	Lab Sample ID:	CH37250
Canister:	17160	Lab File ID:	1223_08.D
Instrument:	CHEM20	Column:	RTX-1 60M
Date Received:	12/23/20		
Purge Volume	200	(cc)	12/23/20
Date Analyzed:	12/23/20		
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.427		0.202	0.202	r
74-87-3	Chloromethane	0.531		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	369	ES	0.531	0.531	r
67-64-1	Acetone	10.9	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.293		0.178	0.178	r
67-63-0	Isopropylalcohol	4.78	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.864	U	0.864	0.864	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.321		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	1.44		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-1

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCH37250	Lab Sample ID:	CH37250
Canister:	17160	Lab File ID:	1223_08.D
Instrument:	CHEM20	Column:	RTX-1 60M
Date Received:	12/23/20		
Purge Volume	200	(cc)	12/23/20
Date Analyzed:	12/23/20		
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.081		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.068		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.263		0.230	0.230	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_08.D
 Acq On : 23 Dec 2020 8:04 pm
 Operator :
 Client ID : IA-1
 Lab ID : CH37250
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 24 08:26:09 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

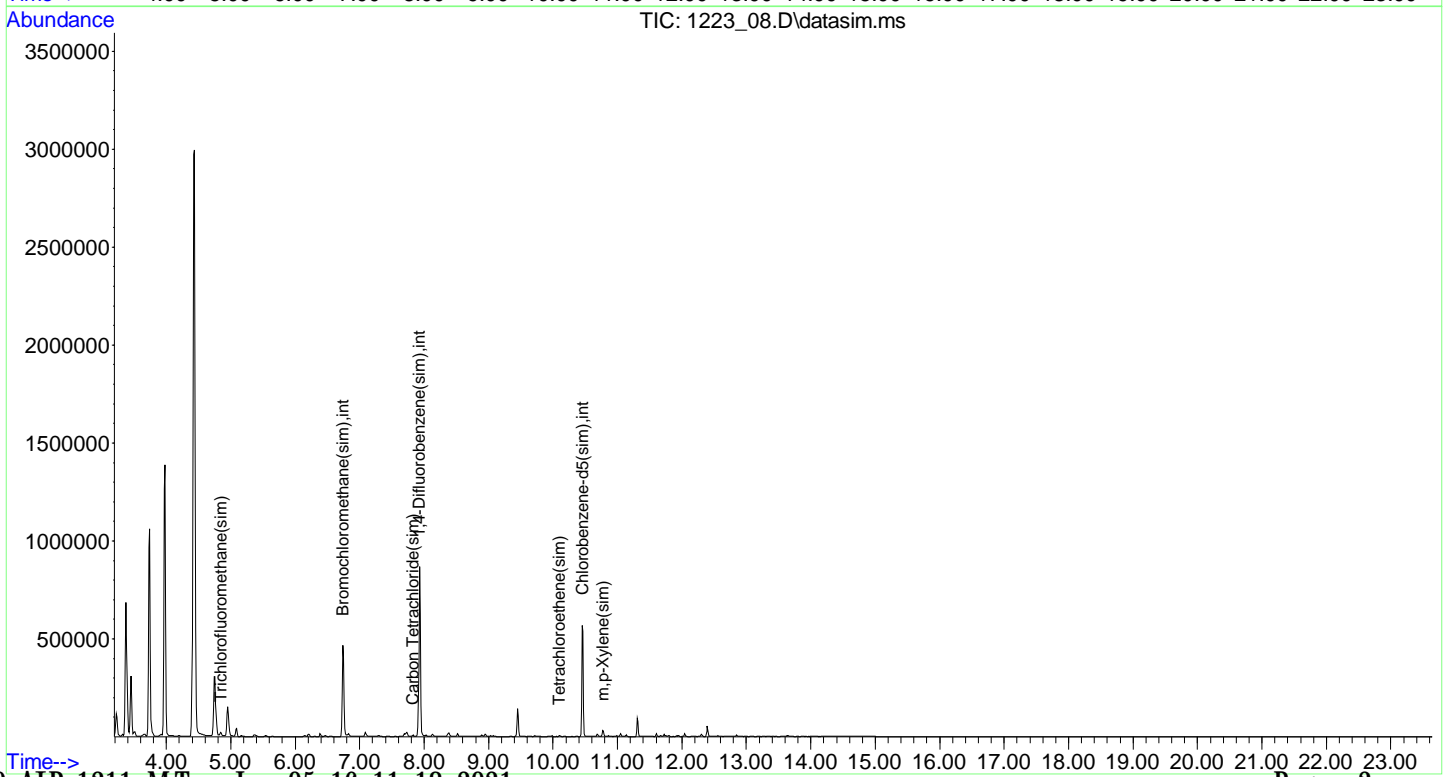
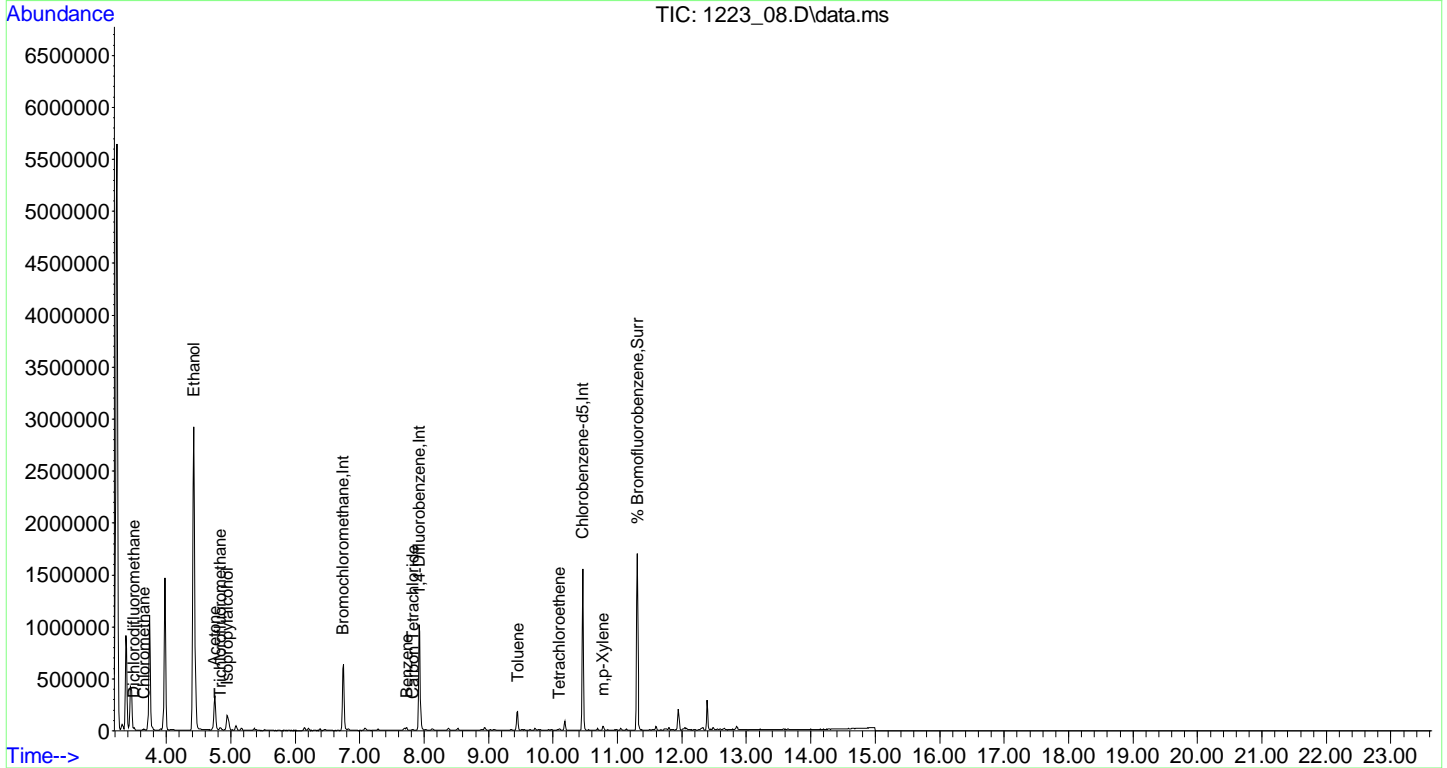
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.746	130	192649	10.000	ng	0.01
37) 1,4-Difluorobenzene	7.922	114	731933	10.000	ng	0.00
54) Chlorobenzene-d5	10.461	82	346273	10.000	ng	0.00
81) Bromchloromethane(sim)	6.741	130	223138	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.922	114	731239	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.461	82	346273	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromfluorobenzene	11.312	95	418423	10.040	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.40%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.501	85	21696	0.427	ppbv	98
4) Chloromethane	3.651	50	10584	0.531	ppbv	95
11) Ethanol	4.428	45	3577379	369.141	ppbv#	39
12) Acetone	4.751	43	374302	10.884	ppbv#	70
13) Trichlorofluoromethane	4.837	101	15184	0.293	ppbv	95
14) Isopropylalcohol	4.945	45	213973	4.778	ppbv	99
34) Benzene	7.733	78	18658	0.321	ppbv	98
35) Carbon Tetrachloride	7.822	117	4848	0.093	ppbv	94
49) Toluene	9.454	91	105471	1.436	ppbv	97
53) Tetrachloroethene	10.104	166	2652	0.069	ppbv	96
58) m p-Xylene	10.779	91	20292	0.285	ppbv	94
85] Trichlorofluoromethane...	4.843	101	17026	0.287	ppbv#	99
89] Carbon Tetrachloride(sim)	7.828	117	4890	0.081	ppbv	98
105] Tetrachloroethene(sim)	10.100	166	3211	0.068	ppbv	98
108] m p-Xylene(sim)	10.779	91	20292	0.263	ppbv	94

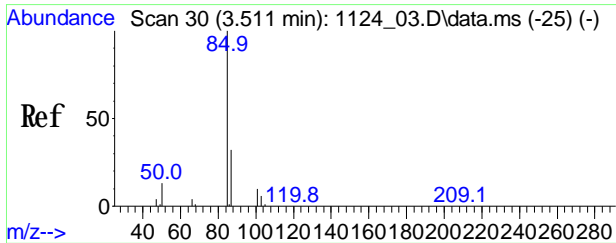
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
Data File : 1223_08.D
Acq On : 23 Dec 2020 8:04 pm
Operator :
Client ID : IA-1
Lab ID : CH37250
ALS Vial : 8 Sample Multiplier: 1

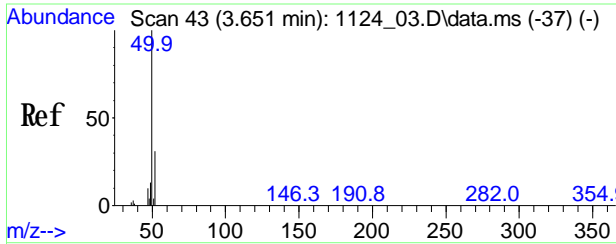
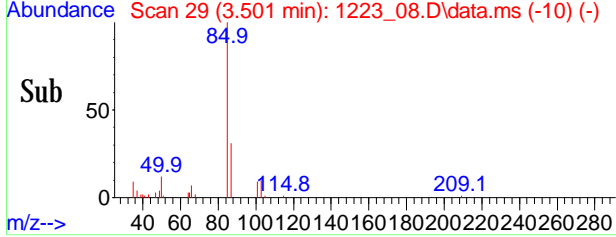
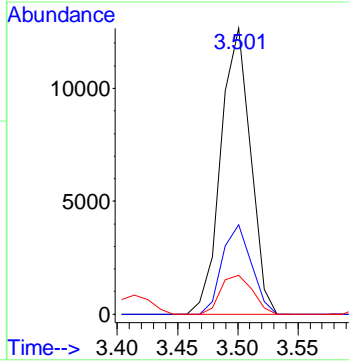
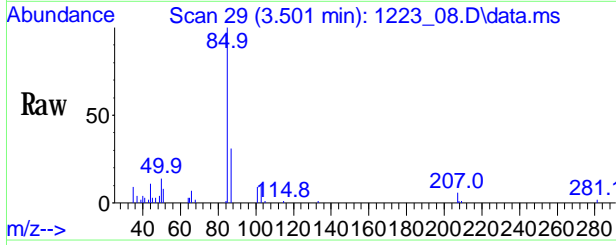
Quant Time: Dec 24 08:26:09 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Mon Dec 14 09:27:51 2020
Response via : Initial Calibration





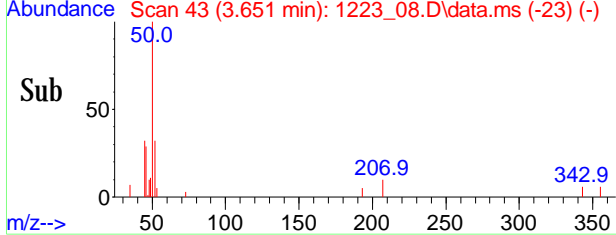
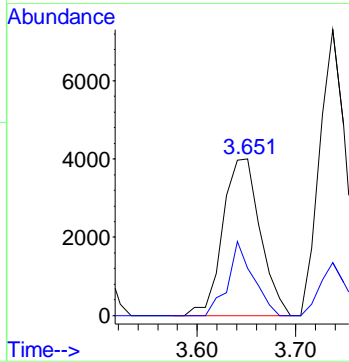
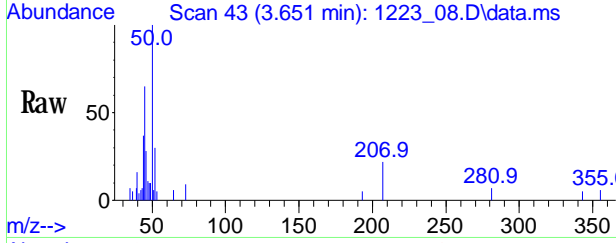
#3
 Dichlorodifluoromethane
 Conc: 8S 0.427 ppby
 RT: 3.501 min Scan# 29
 Delta R.T. 0.000 min
 Lab File: 1223_08.D
 Acq: 23 Dec 2020 8:04 pm

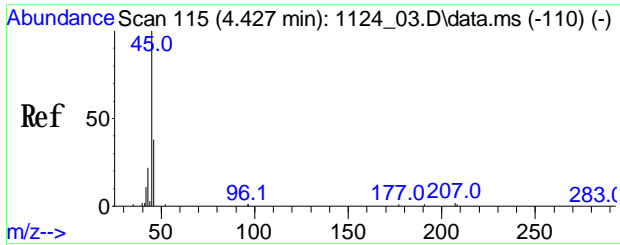
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	21696		
87	30.8	25.0	37.6	
50	14.7	13.1	19.7	



#4
 Chloromethane
 Conc: 8S 0.531 ppby
 RT: 3.651 min Scan# 43
 Delta R.T. 0.011 min
 Lab File: 1223_08.D
 Acq: 23 Dec 2020 8:04 pm

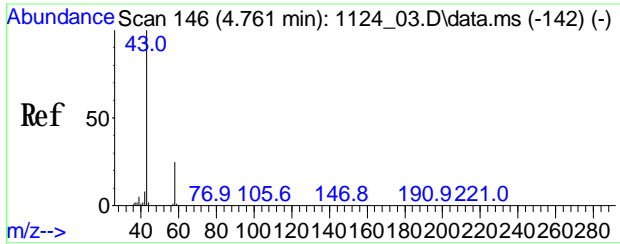
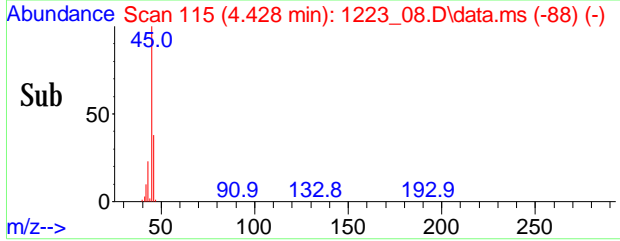
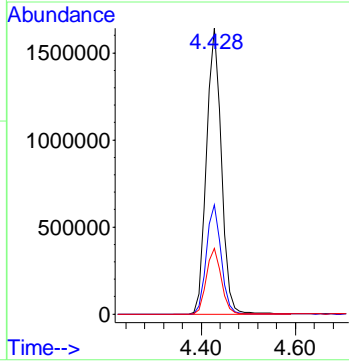
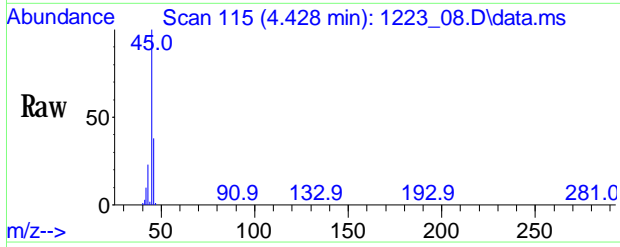
Tgt Ion	Ratio	Resp	Lower	Upper
50	100	10584		
52	31.7	14.7	54.7	





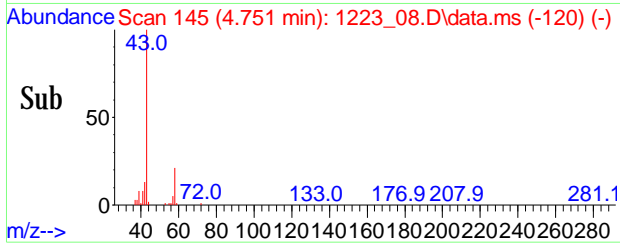
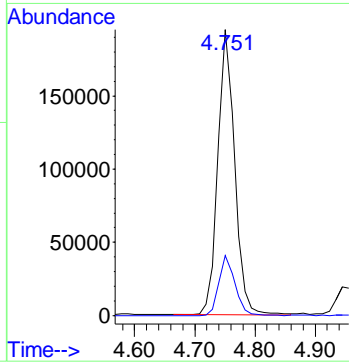
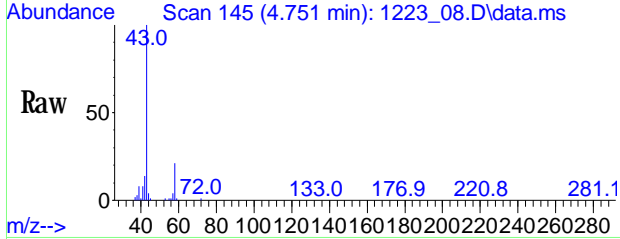
#11
 Ethanol
 Conc: 85 369.141 ppbv
 RT: 4.428 min Scan# 115
 Delta R.T. -0.011 min
 Lab File: 1223_08.D
 Acq: 23 Dec 2020 8:04 pm

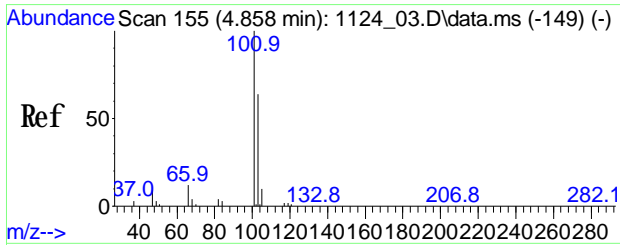
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	3577379		
46	38.0	28.8	43.2	
43	23.1	85.8	128.6#	



#12
 Acetone
 Conc: 85 10.884 ppbv
 RT: 4.751 min Scan# 145
 Delta R.T. -0.032 min
 Lab File: 1223_08.D
 Acq: 23 Dec 2020 8:04 pm

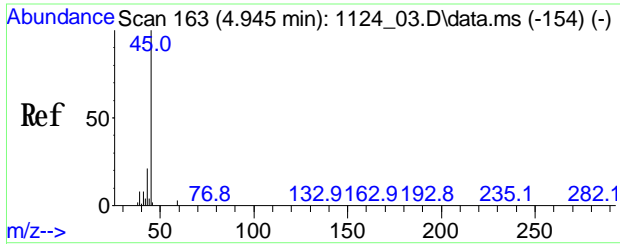
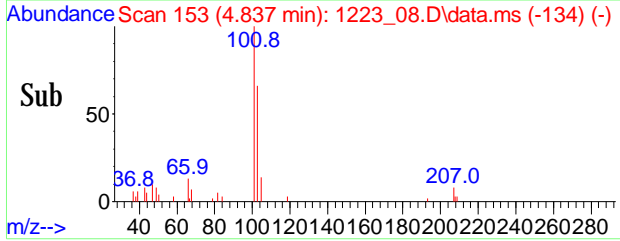
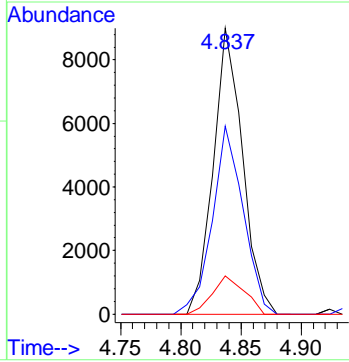
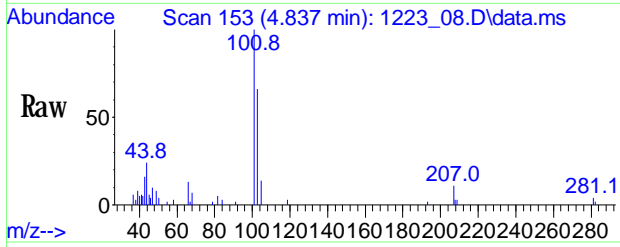
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	374302		
58	20.1	30.2	45.4#	





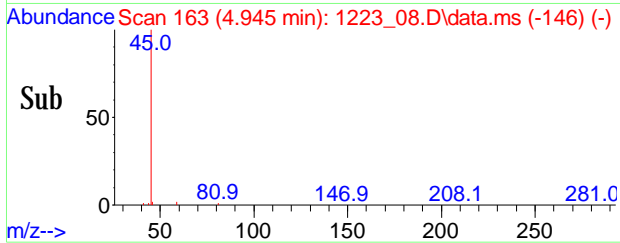
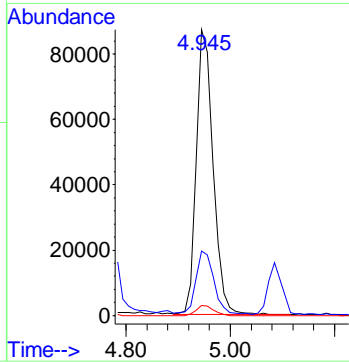
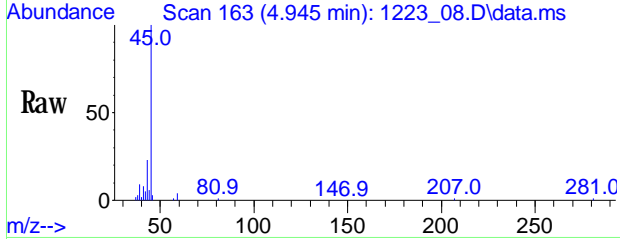
#13
 Trichlorofluoromethane
 Conc: 8S 0.293 ppbv
 RT: 4.837 min Scan# 153
 Delta R.T. 0.000 min
 Lab File: 1223_08.D
 Acq: 23 Dec 2020 8:04 pm

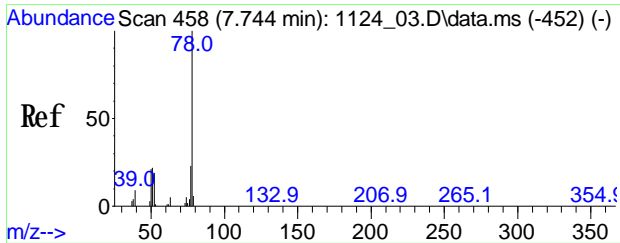
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	15184		
103	69.2	52.1	78.1	
66	14.6	11.0	16.4	



#14
 Isopropylalcohol
 Conc: 8S 4.778 ppbv
 RT: 4.945 min Scan# 163
 Delta R.T. -0.021 min
 Lab File: 1223_08.D
 Acq: 23 Dec 2020 8:04 pm

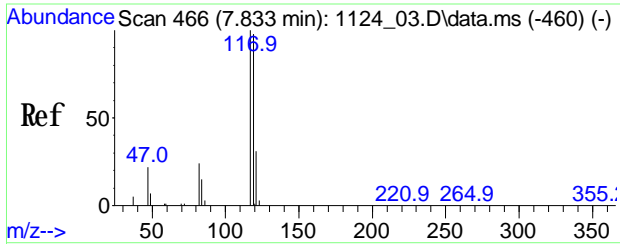
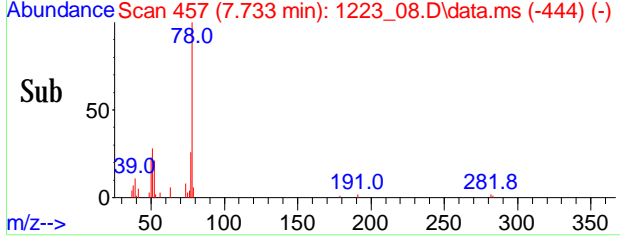
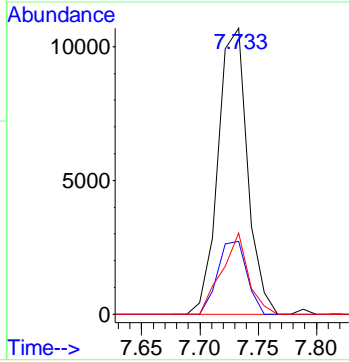
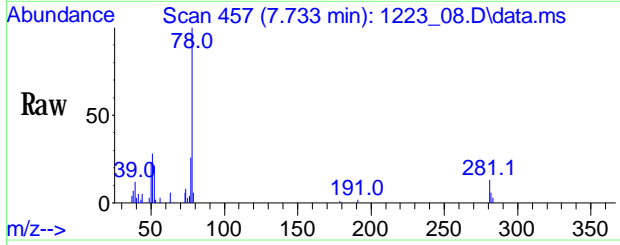
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	213973		
43	21.5	16.9	25.3	
59	3.3	2.6	3.8	





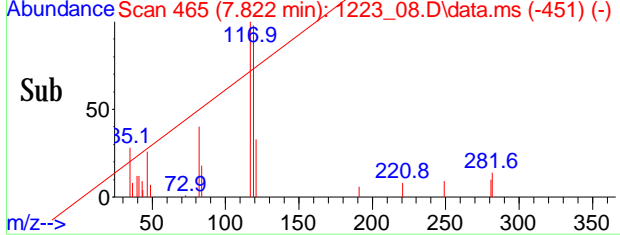
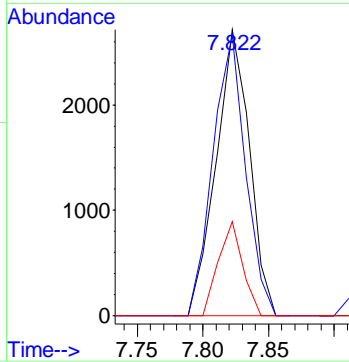
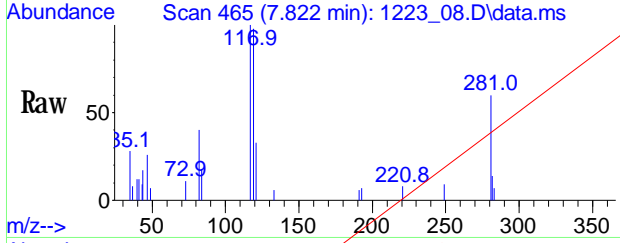
#34
Benzene
Conc: 8S 0.321 ppbv
RT: 7.733 min Scan# 457
Delta R.T. 0.011 min
Lab File: 1223_08.D
Acq: 23 Dec 2020 8:04 pm

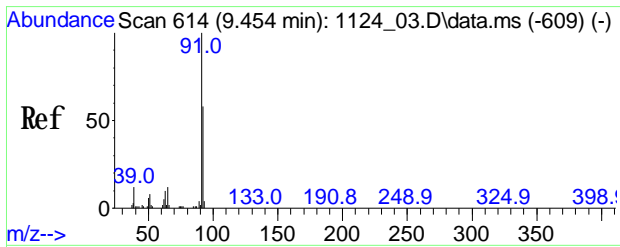
Tgt Ion	Ratio	Resp	Upper
78	100	18658	
77	25.4	21.4	32.0
51	25.5	19.4	29.2



#35
Carbon Tetrachloride
Conc: 8S Below Cal
RT: 7.822 min Scan# 465
Delta R.T. 0.011 min
Lab File: 1223_08.D
Acq: 23 Dec 2020 8:04 pm

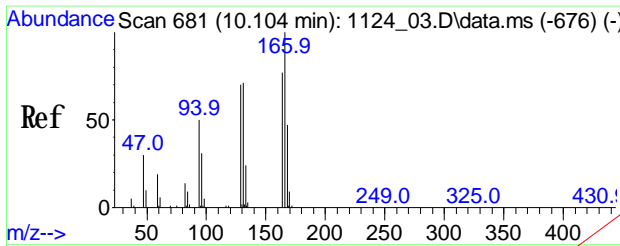
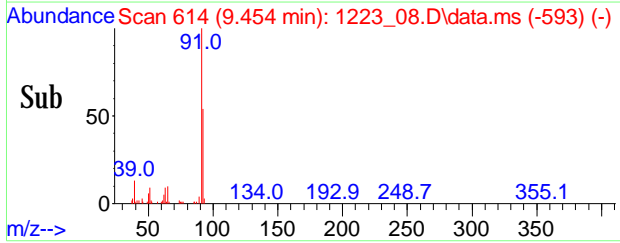
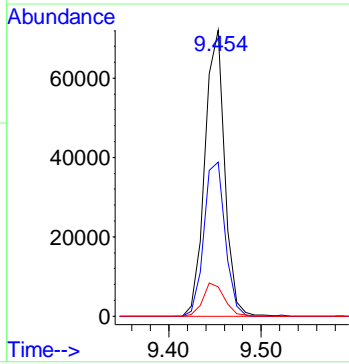
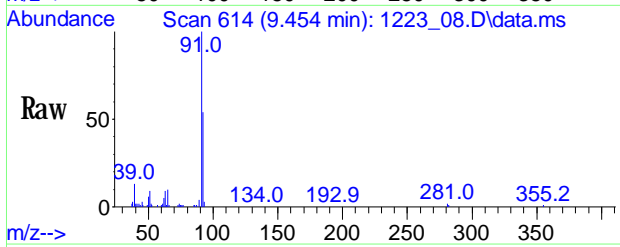
Tgt Ion	Ratio	Resp	Upper
117	100	4848	
119	95.4	78.9	118.9
121	23.8	11.5	51.5





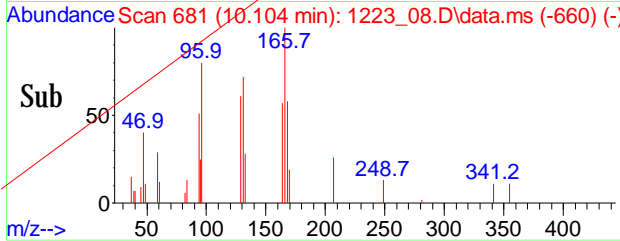
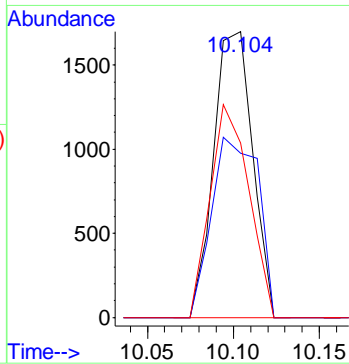
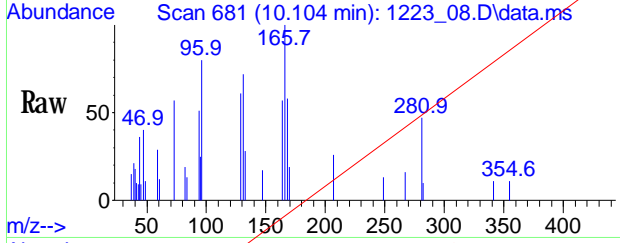
#49
Toluene
 Conc: 8S 1.436 ppbv
 RT: 9.454 min Scan# 614
 Delta R.T. 0.000 min
 Lab File: 1223_08.D
 Acq: 23 Dec 2020 8:04 pm

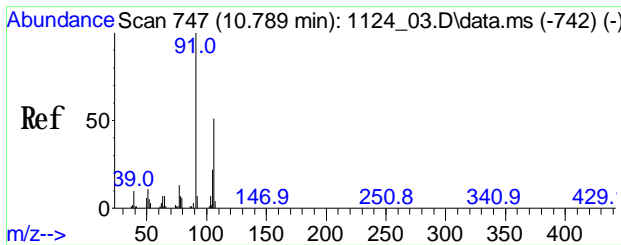
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	105471		
92	57.7	48.2	72.2	
65	12.5	11.2	16.8	



#53
Tetrachloroethene
 Conc: 8S Below Cal
 RT: 10.104 min Scan# 681
 Delta R.T. 0.000 min
 Lab File: 1223_08.D
 Acq: 23 Dec 2020 8:04 pm

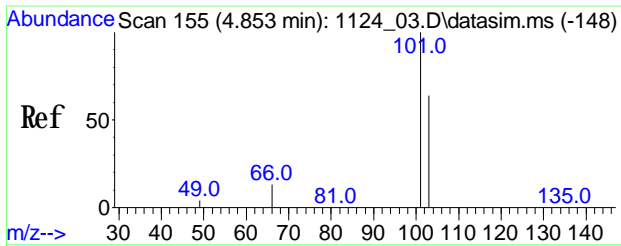
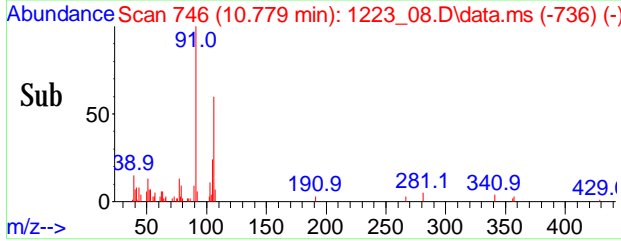
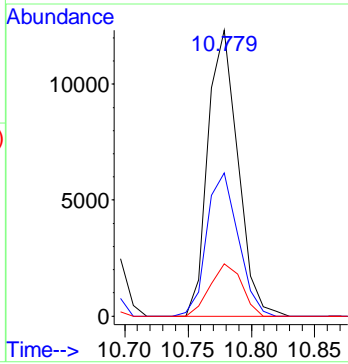
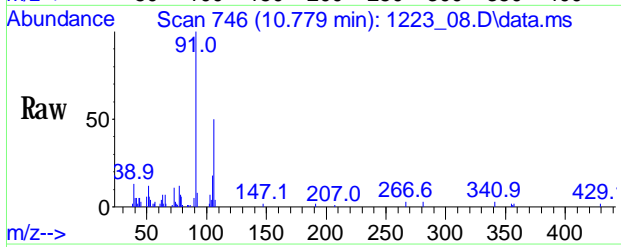
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	2652		
164	75.3	64.3	96.5	
129	74.1	58.3	87.5	





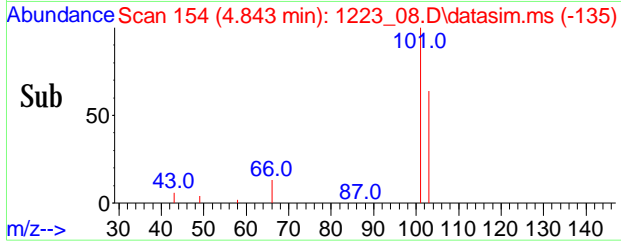
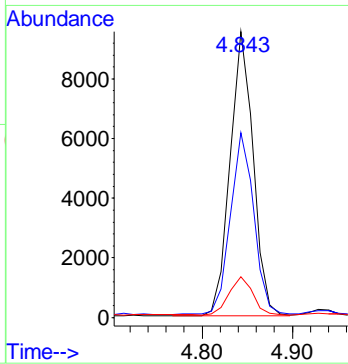
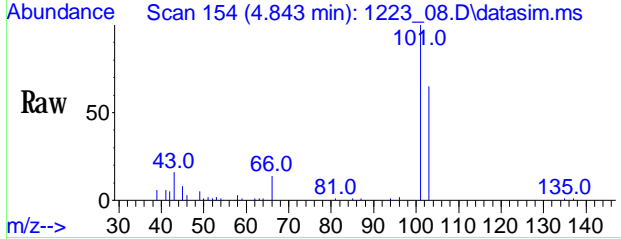
#58
 m p-Xylene
 Conc: 8S 0.285 ppbv
 RT: 10.779 min Scan# 746
 Delta R.T. 0.000 min
 Lab File: 1223_08.D
 Acq: 23 Dec 2020 8:04 pm

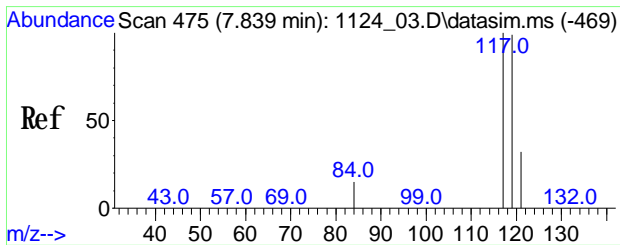
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	20292		
106	52.7	39.5		59.3
105	19.4	19.0		28.6



#85
 Trichlorofluoromethane (sim)
 Conc: 8S 0.287 ppbv
 RT: 4.843 min Scan# 154
 Delta R.T. 0.000 min
 Lab File: 1223_08.D
 Acq: 23 Dec 2020 8:04 pm

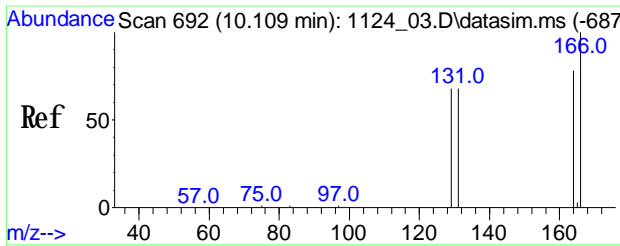
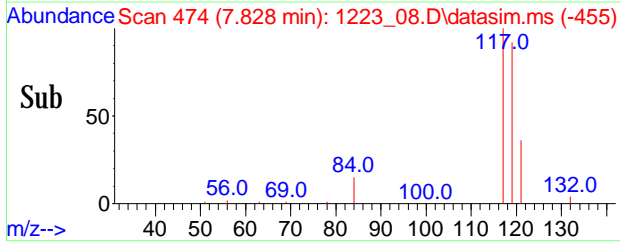
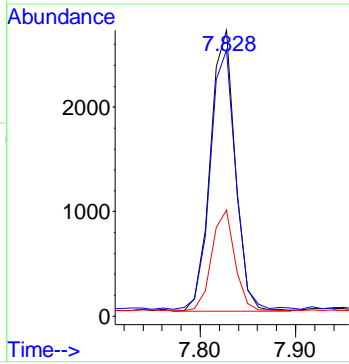
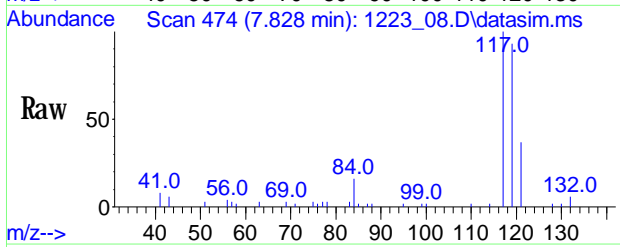
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	17026		
103	64.9	51.3		76.9
66	14.0	13.2		13.2#





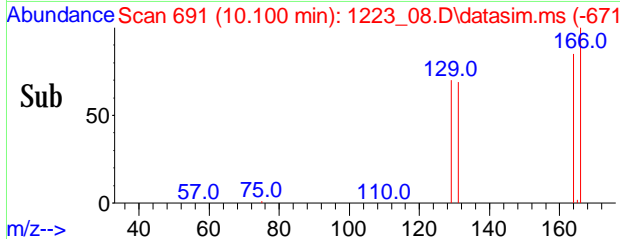
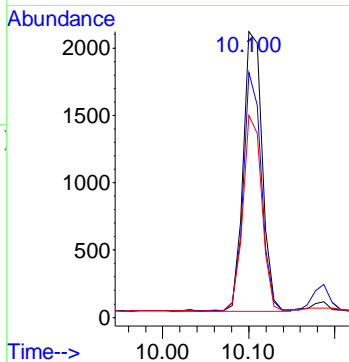
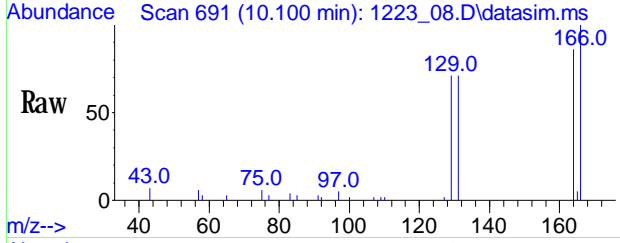
#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.081 ppbv
 RT: 7.828 min Scan# 474
 Delta R.T. 0.011 min
 Lab File: 1223_08.D
 Acq: 23 Dec 2020 8:04 pm

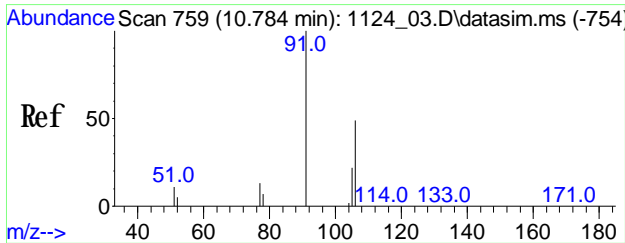
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4890		
119	94.1	76.8		115.2
121	33.2	25.1		37.7



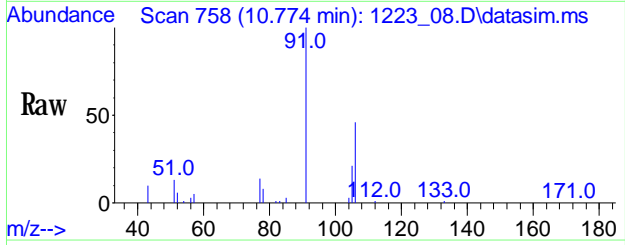
#105
 Tetrachloroethene(sim)
 Conc: 8S 0.068 ppbv
 RT: 10.100 min Scan# 691
 Delta R.T. -0.010 min
 Lab File: 1223_08.D
 Acq: 23 Dec 2020 8:04 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	3211		
164	81.2	58.8		98.8
129	69.7	50.7		90.7

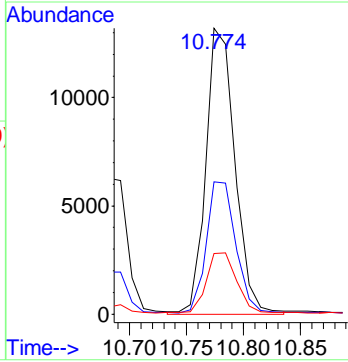
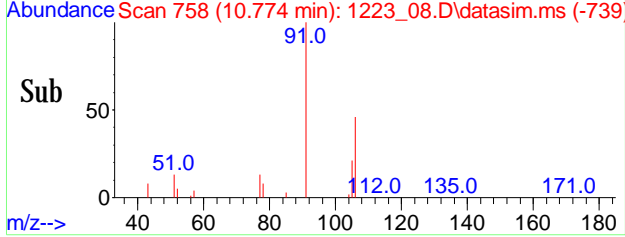




#108
 m p-Xylene (sim)
 Conc: 8S 0.263 ppbv
 RT: 10.779 min Scan# 758
 Delta R.T. 0.000 min
 Lab File: 1223_08.D
 Acq: 23 Dec 2020 8:04 pm



Tgt Ion	Ratio	Resp	Upper
91	100	20292	
106	52.7	44.5	54.3
105	19.4	19.0	28.6



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-2

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCH37250	Lab Sample ID:	CH37251
Canister:	28591	Lab File ID:	1223_10.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200 (cc)	Date Received:	12/23/20
Matrix:	AIR	Date Analyzed:	12/23/20
		Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.428		0.202	0.202	r
74-87-3	Chloromethane	0.492		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	47.6	ES	0.531	0.531	r
67-64-1	Acetone	9.41	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.316		0.178	0.178	r
67-63-0	Isopropylalcohol	3.46	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.864	U	0.864	0.864	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.294	S	0.284	0.284	r
67-66-3	Chloroform	0.342		0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.601		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-2

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCH37250 Lab Sample ID: CH37251

Canister: 28591 Lab File ID: 1223_10.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 12/23/20

Purge Volume 200 (cc) Date Analyzed: 12/23/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.086		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.097		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.311		0.230	0.230	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_10.D
 Acq On : 23 Dec 2020 9:25 pm
 Operator :
 Client ID : IA-2
 Lab ID : CH37251
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 24 08:27:25 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

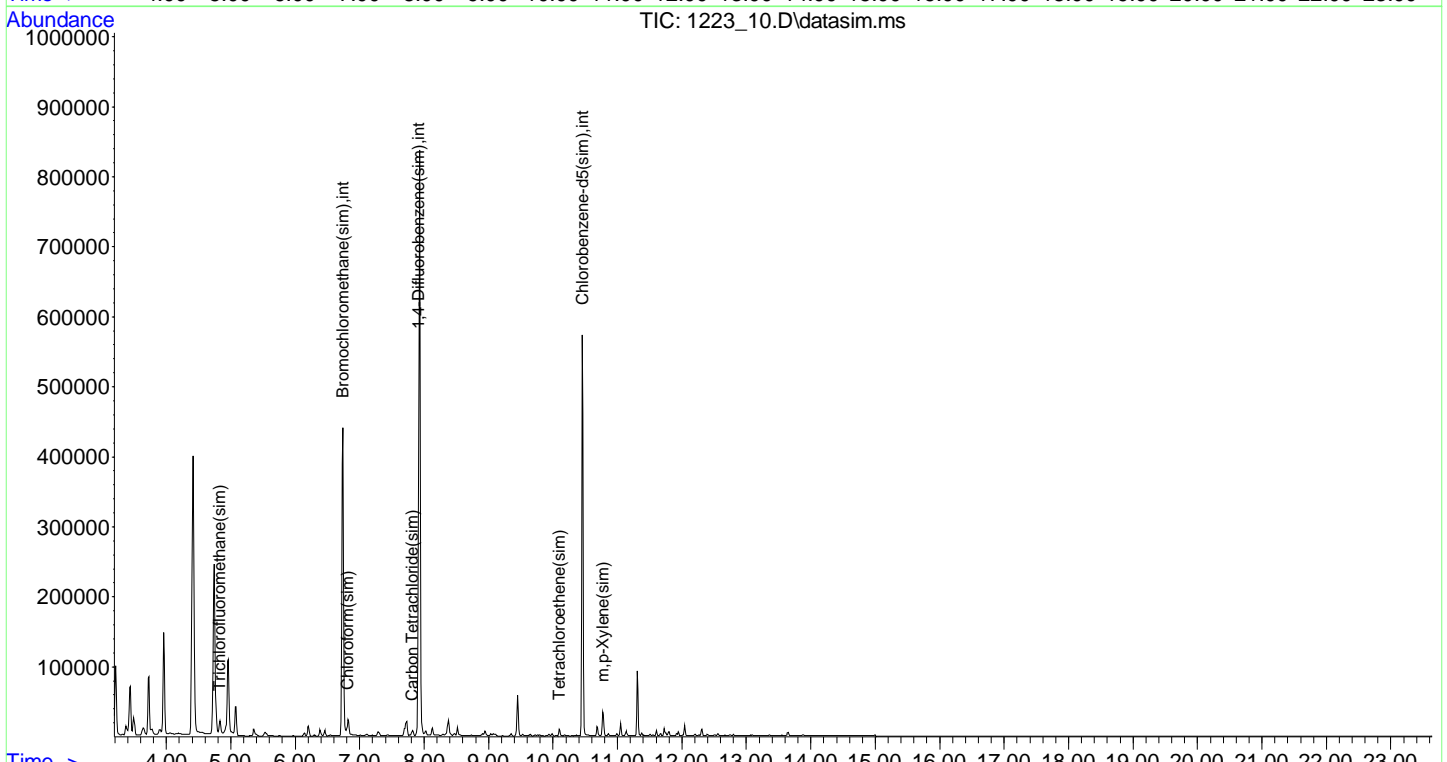
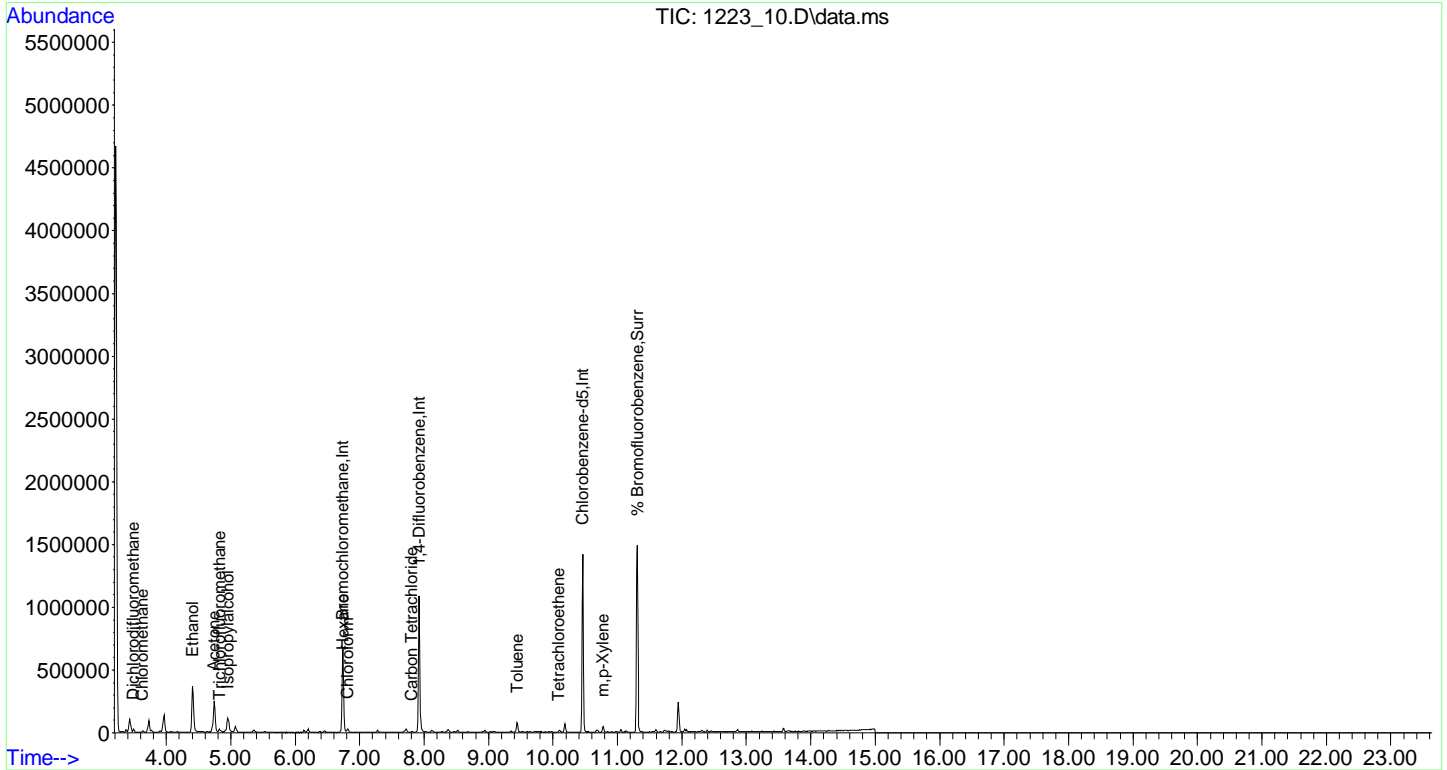
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.736	130	182039	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.922	114	688947	10.000	ng	0.00
54) Chlorobenzene-d5	10.461	82	319119	10.000	ng	0.00
81) Bromchloromethane(sim)	6.741	130	212781	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.922	114	688775	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.461	82	319119	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromfluorobenzene	11.312	95	383969	9.997	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.00%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.490	85	20536	0.428	ppbv	98
4) Chloromethane	3.630	50	9278	0.492	ppbv	100
11) Ethanol	4.406	45	435686	47.578	ppbv#	39
12) Acetone	4.740	43	305909	9.414	ppbv#	69
13) Trichlorofluoromethane	4.826	101	15468	0.316	ppbv#	95
14) Isopropylalcohol	4.956	45	146559	3.463	ppbv	99
28) Hexane	6.746	57	9243	0.294	ppbv	87
29) Chloroform	6.819	83	14407	0.342	ppbv	97
35) Carbon Tetrachloride	7.811	117	4685	0.095	ppbv	88
49) Toluene	9.444	91	41548	0.601	ppbv	97
53) Tetrachloroethene	10.094	166	3285	0.091	ppbv	92
58) m p-Xylene	10.779	91	22139	0.337	ppbv	94
85) Trichlorofluoromethane...	4.832	101	17138	0.303	ppbv#	98
89) Carbon Tetrachloride(sim)	7.816	117	4915	0.086	ppbv	99
95) Chloroform(sim)	6.814	83	15911	0.331	ppbv	98
105) Tetrachloroethene(sim)	10.100	166	4341	0.097	ppbv	97
108) m p-Xylene(sim)	10.779	91	22139	0.311	ppbv#	94

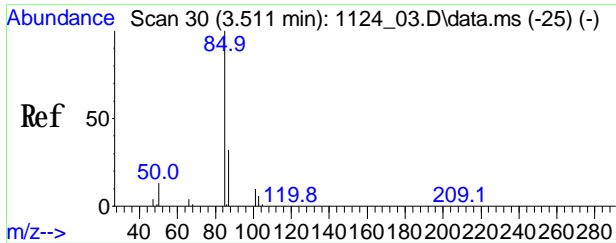
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
Data File : 1223_10.D
Acq On : 23 Dec 2020 9:25 pm
Operator :
Client ID : IA-2
Lab ID : CH37251
ALS Vial : 10 Sample Multiplier: 1

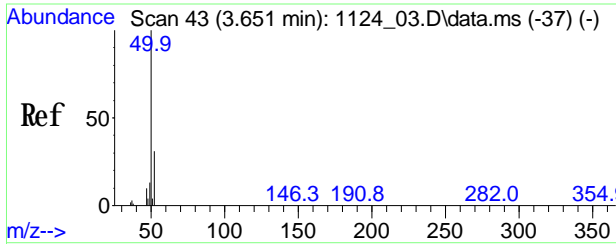
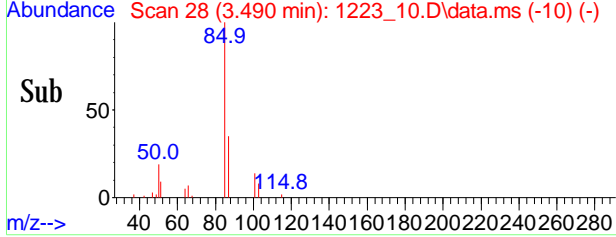
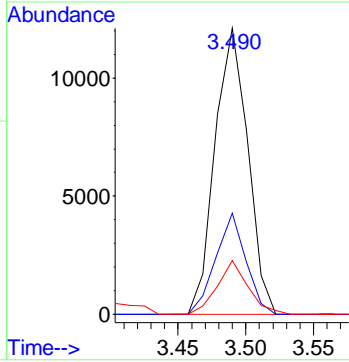
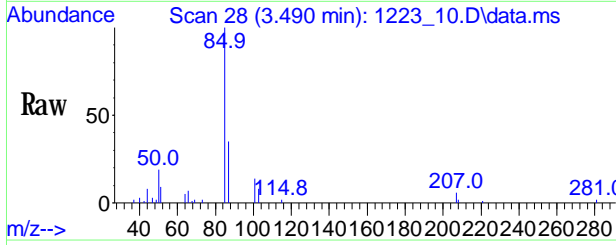
Quant Time: Dec 24 08:27:25 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Mon Dec 14 09:27:51 2020
Response via : Initial Calibration





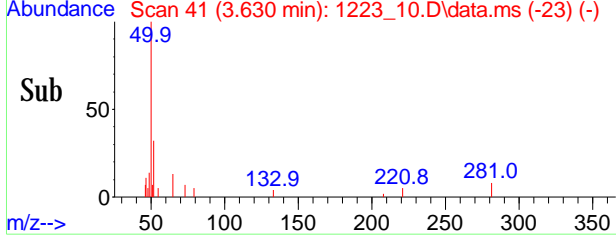
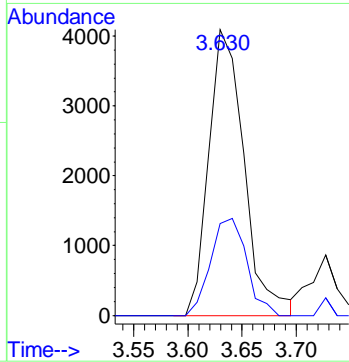
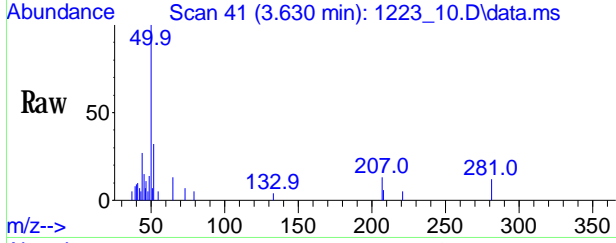
#3
 Dichlorodifluoromethane
 Conc: 8S 0.428 ppby
 RT: 3.490 min Scan# 28
 Delta R.T. -0.011 min
 Lab File: 1223_10.D
 Acq: 23 Dec 2020 9:25 pm

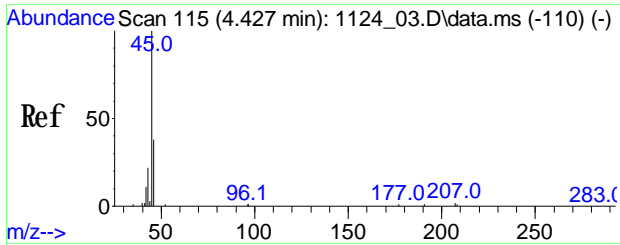
Tgt Ion	Ratio	Resp	Upper
85	100	20536	
87	32.4	25.0	37.6
50	17.7	13.1	19.7



#4
 Chloromethane
 Conc: 8S 0.492 ppby
 RT: 3.630 min Scan# 41
 Delta R.T. -0.011 min
 Lab File: 1223_10.D
 Acq: 23 Dec 2020 9:25 pm

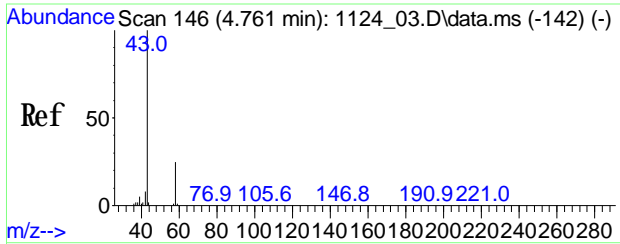
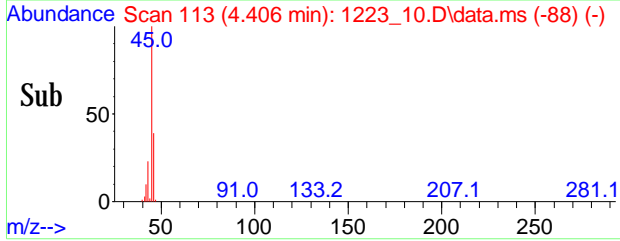
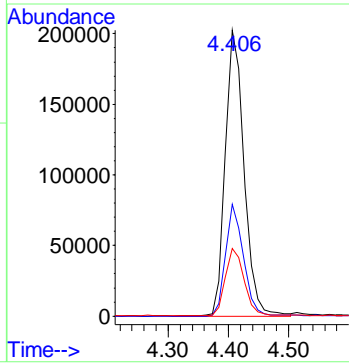
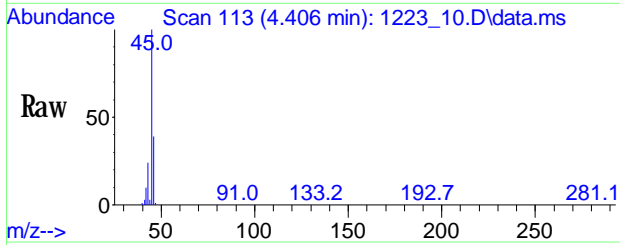
Tgt Ion	Ratio	Resp	Upper
50	100	9278	
52	34.5	14.7	54.7





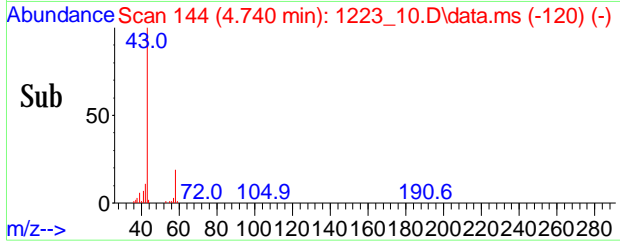
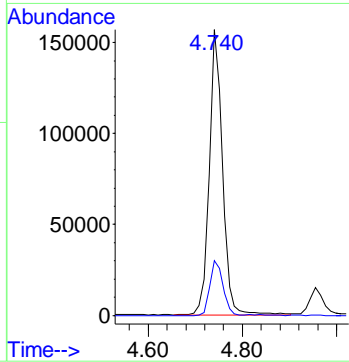
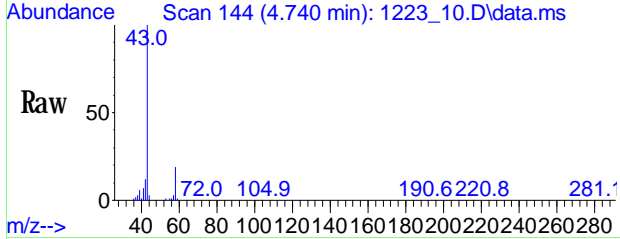
#11
 Ethanol
 Conc: 8S 47.578 ppbv
 RT: 4.406 min Scan# 113
 Delta R.T. -0.032 min
 Lab File: 1223_10.D
 Acq: 23 Dec 2020 9:25 pm

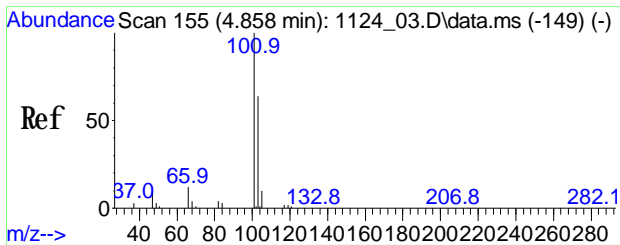
Tgt Ion	Ratio	Resp	Upper
45	100	435686	
46	37.4	28.8	43.2
43	23.4	85.8	128.6#



#12
 Acetone
 Conc: 8S 9.414 ppbv
 RT: 4.740 min Scan# 144
 Delta R.T. -0.043 min
 Lab File: 1223_10.D
 Acq: 23 Dec 2020 9:25 pm

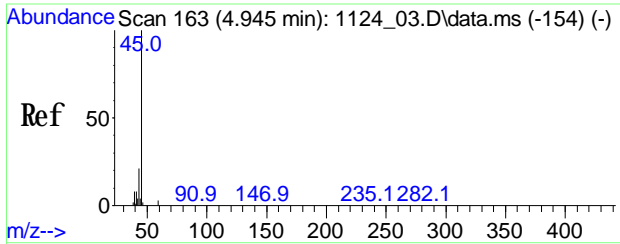
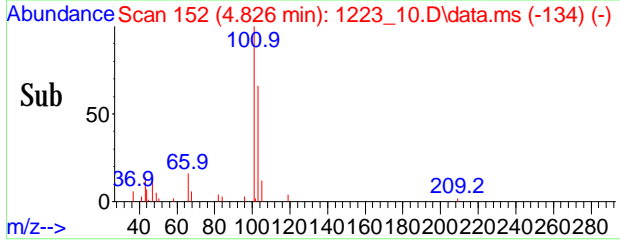
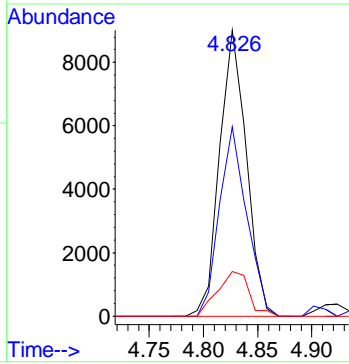
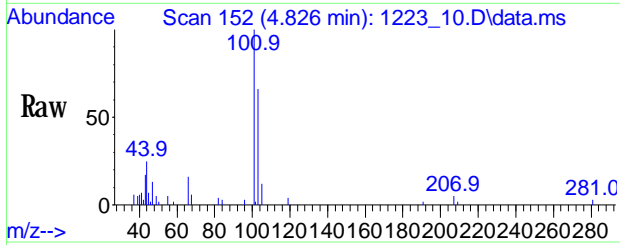
Tgt Ion	Ratio	Resp	Upper
43	100	305909	
58	19.0	30.2	45.4#





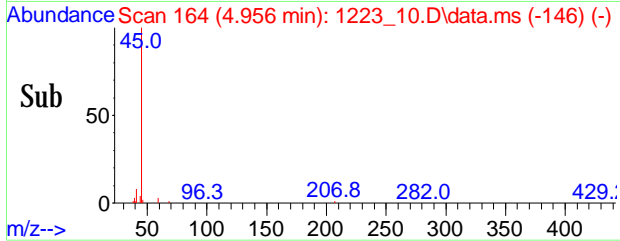
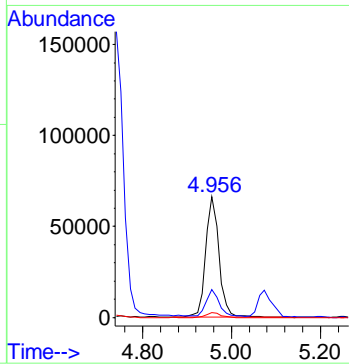
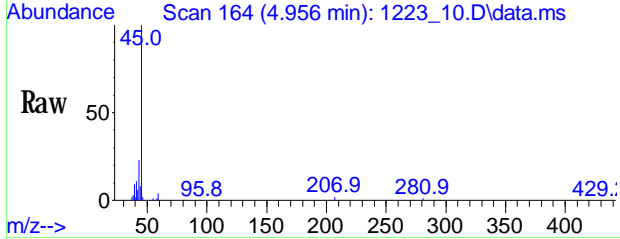
#13
 Trichlorofluoromethane
 Conc: 8S 0.316 ppbv
 RT: 4.826 min Scan# 152
 Delta R.T. -0.011 min
 Lab File: 1223_10.D
 Acq: 23 Dec 2020 9:25 pm

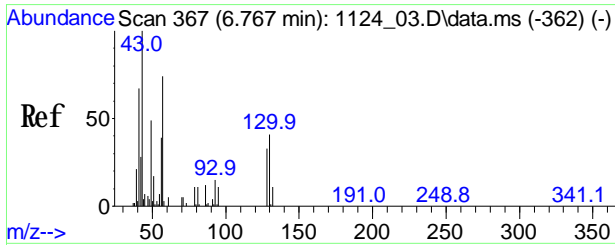
Tgt Ion	Ratio	Resp	Upper
101	100	15468	
103	67.6	52.1	78.1
66	18.4	11.0	16.4#



#14
 Isopropylalcohol
 Conc: 8S 3.463 ppbv
 RT: 4.956 min Scan# 164
 Delta R.T. -0.011 min
 Lab File: 1223_10.D
 Acq: 23 Dec 2020 9:25 pm

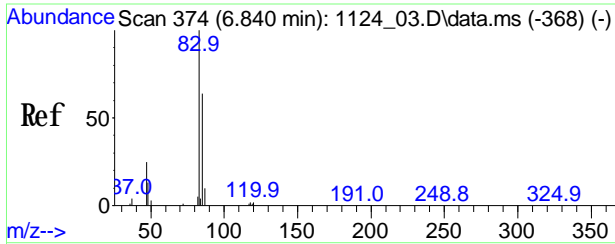
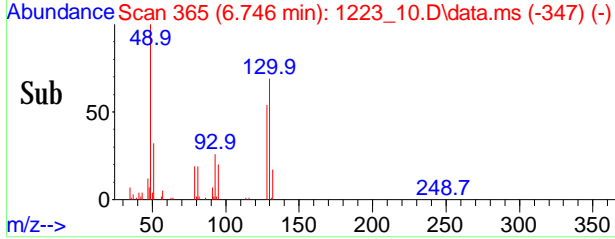
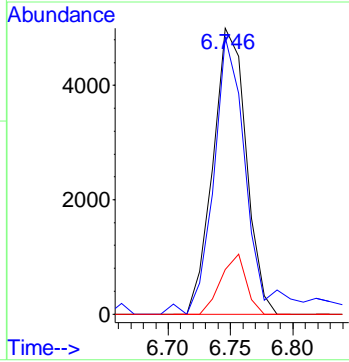
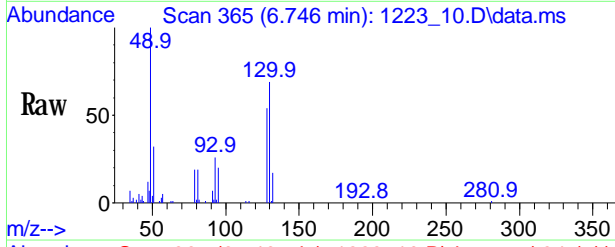
Tgt Ion	Ratio	Resp	Upper
45	100	146559	
43	20.5	16.9	25.3
59	3.8	2.6	3.8





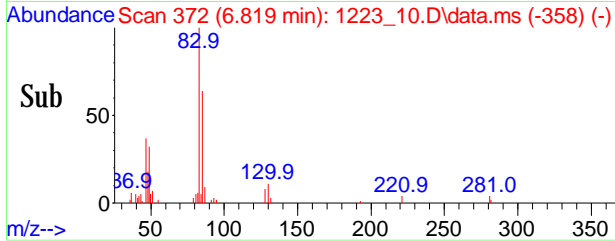
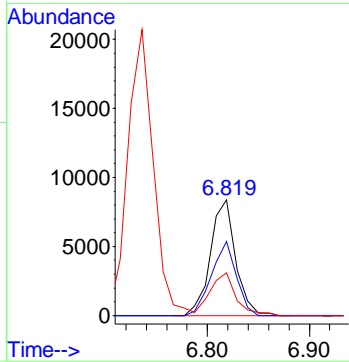
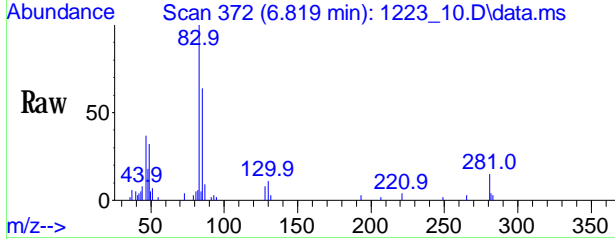
#28
 Hexane
 Conc: 8S 0.294 ppbv
 RT: 6.746 min Scan# 365
 Delta R.T. -0.010 min
 Lab File: 1223_10.D
 Acq: 23 Dec 2020 9:25 pm

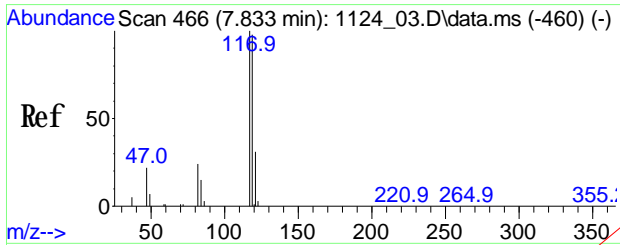
Tgt Ion	Ratio	Resp	Upper
57	100	9243	
41	99.6	69.4	104.0
86	15.9	11.4	17.2



#29
 Chloroform
 Conc: 8S 0.342 ppbv
 RT: 6.819 min Scan# 372
 Delta R.T. 0.000 min
 Lab File: 1223_10.D
 Acq: 23 Dec 2020 9:25 pm

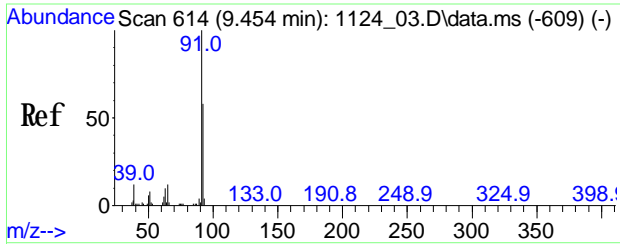
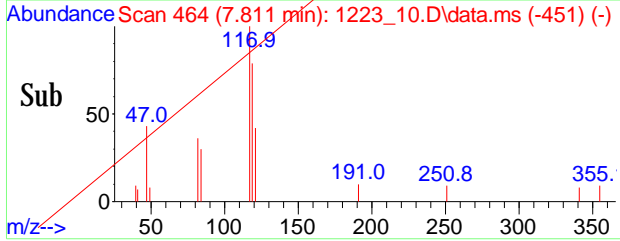
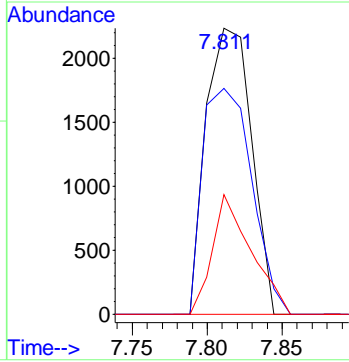
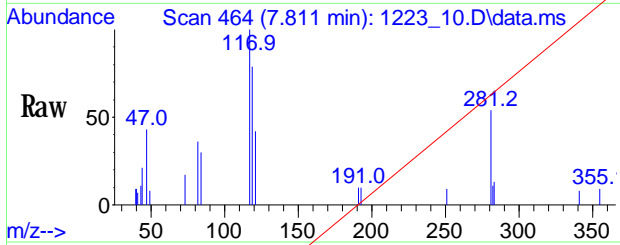
Tgt Ion	Ratio	Resp	Upper
83	100	14407	
85	63.1	41.7	81.7
47	37.6	14.7	54.7





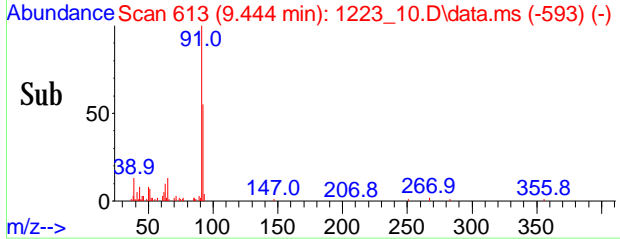
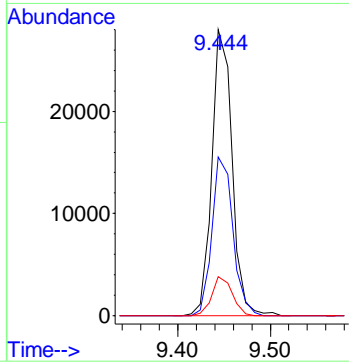
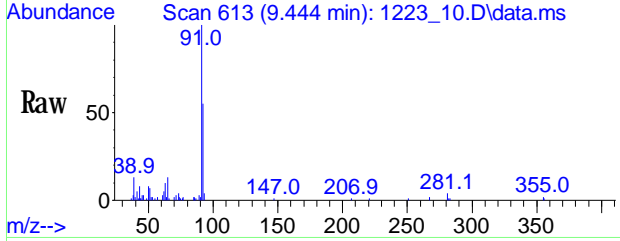
#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 7.811 min Scan# 464
 Delta R.T. 0.000 min
 Lab File: 1223_10.D
 Acq: 23 Dec 2020 9:25 pm

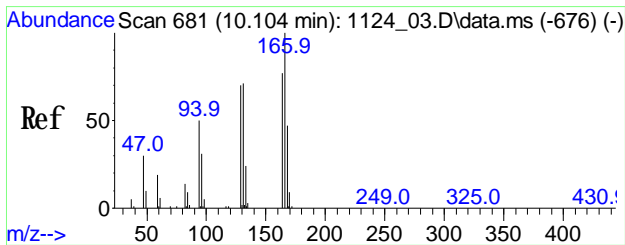
Tgt Ion	Ratio	Resp	Upper
117	100	4685	
119	85.4	78.9	118.9
121	35.6	11.5	51.5



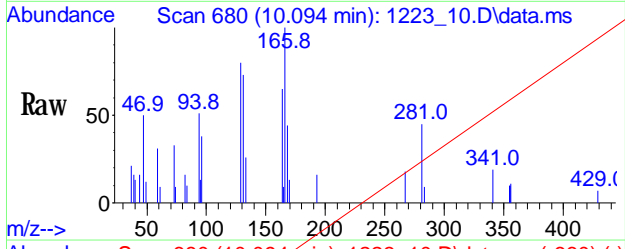
#49
 Toluene
 Conc: 8S 0.601 ppby
 RT: 9.444 min Scan# 613
 Delta R.T. -0.010 min
 Lab File: 1223_10.D
 Acq: 23 Dec 2020 9:25 pm

Tgt Ion	Ratio	Resp	Upper
91	100	41548	
92	57.6	48.2	72.2
65	13.6	11.2	16.8

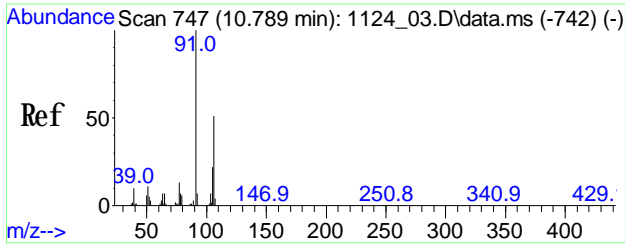
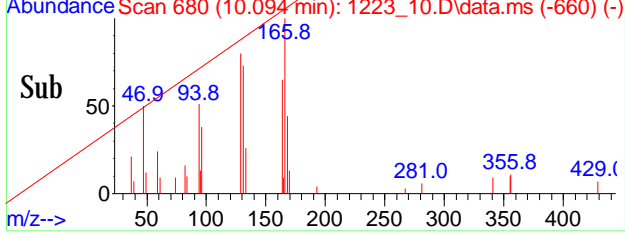
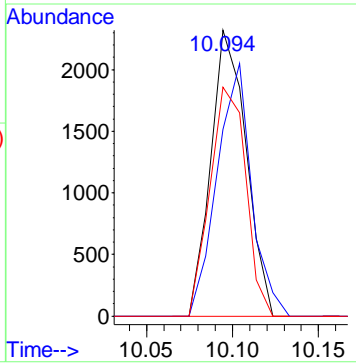




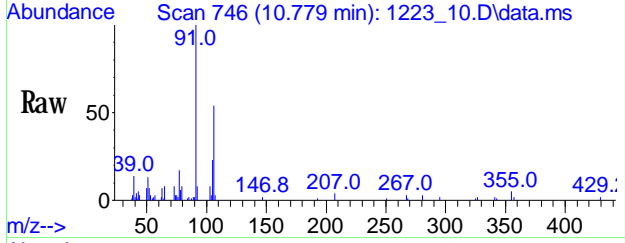
#53
 Tetrachloroethene
 Conc: 8S Below Cal
 RT: 10.094 min Scan# 680
 Delta R.T. -0.010 min
 Lab File: 1223_10.D
 Acq: 23 Dec 2020 9:25 pm



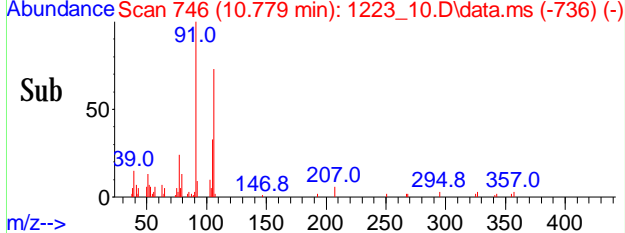
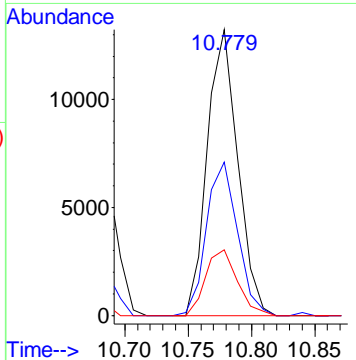
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	3285		
164	86.2	64.3		96.5
129	81.2	58.3		87.5

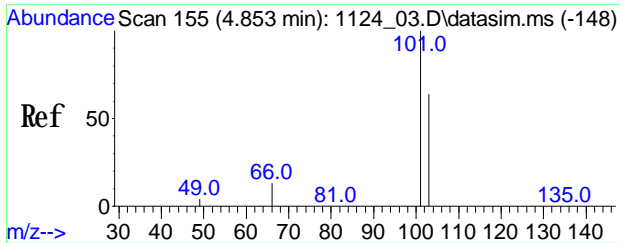


#58
 m,p-Xylene
 Conc: 8S 0.337 ppby
 RT: 10.779 min Scan# 746
 Delta R.T. 0.000 min
 Lab File: 1223_10.D
 Acq: 23 Dec 2020 9:25 pm



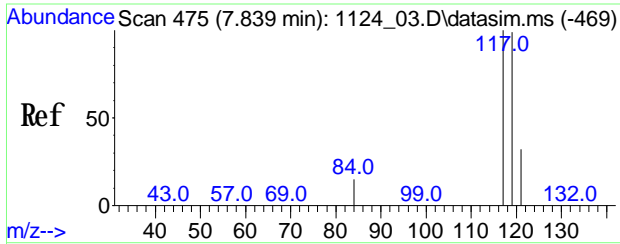
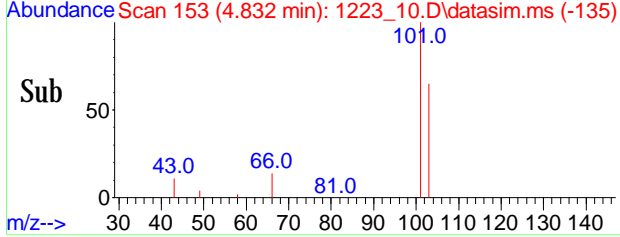
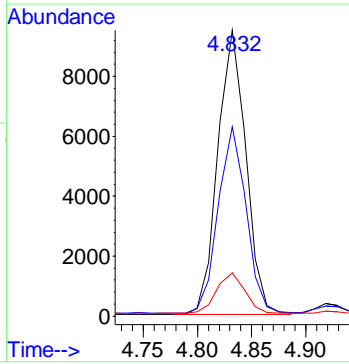
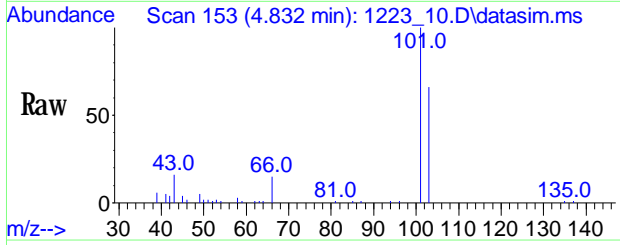
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	22139		
106	54.9	39.5		59.3
105	24.1	19.0		28.6





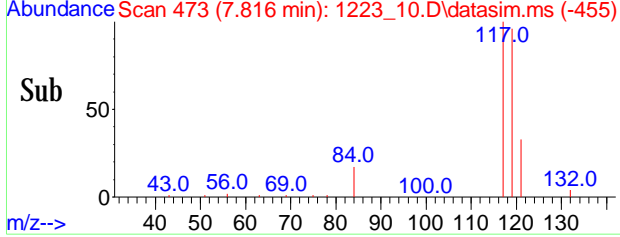
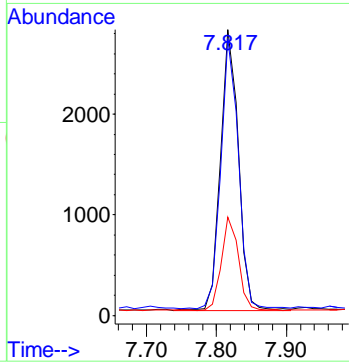
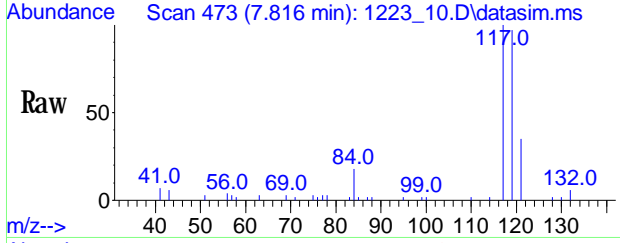
#85
 Trichlorofluoromethane(sim)
 Conc: 8S 0.303 ppbv
 RT: 4.832 min Scan# 153
 Delta R.T. -0.011 min
 Lab File: 1223_10.D
 Acq: 23 Dec 2020 9:25 pm

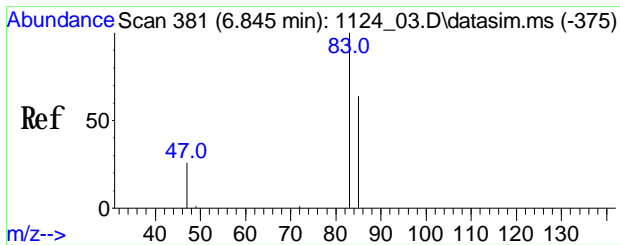
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	17138		
103	65.1	51.3		76.9
66	15.0	13.2		13.2#



#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.086 ppbv
 RT: 7.816 min Scan# 473
 Delta R.T. 0.000 min
 Lab File: 1223_10.D
 Acq: 23 Dec 2020 9:25 pm

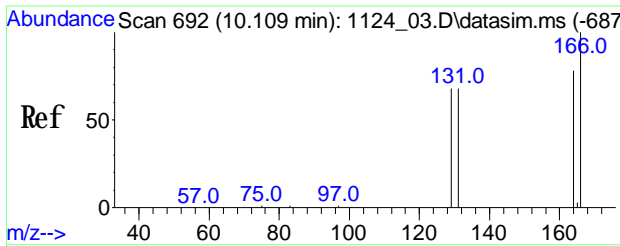
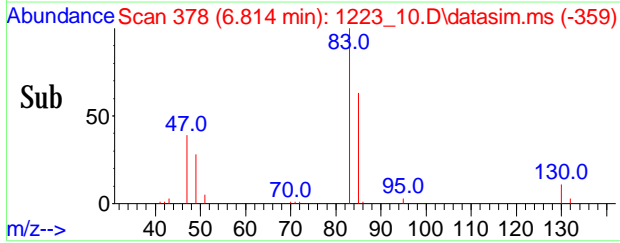
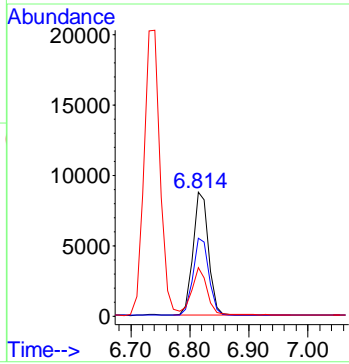
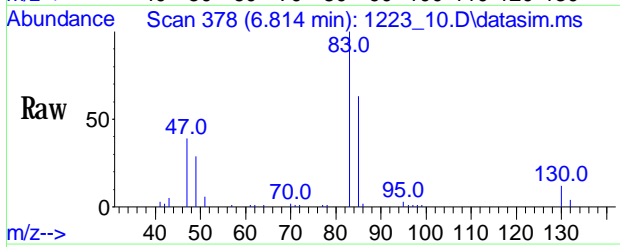
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4915		
119	94.4	76.8		115.2
121	32.0	25.1		37.7





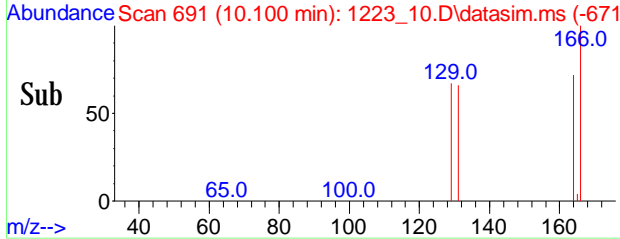
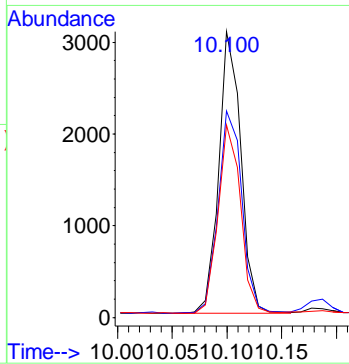
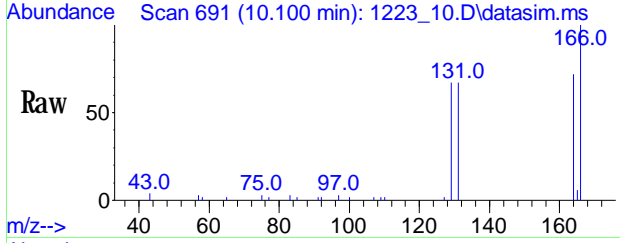
#95
 Chloroform(sim)
 Conc: 8S 0.331 ppbv
 RT: 6.814 min Scan# 378
 Delta R.T. 0.000 min
 Lab File: 1223_10.D
 Acq: 23 Dec 2020 9:25 pm

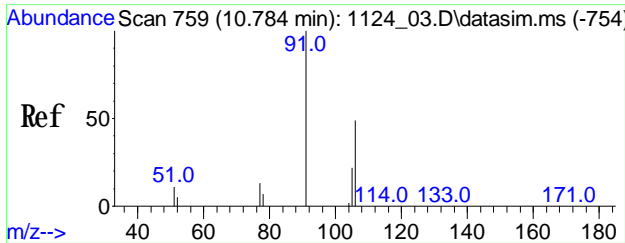
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	15911		
85	63.9	51.4	77.0	
47	38.8	29.2	43.8	



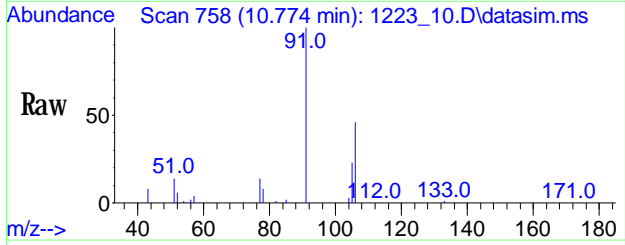
#105
 Tetrachloroethene(sim)
 Conc: 8S 0.097 ppbv
 RT: 10.100 min Scan# 691
 Delta R.T. -0.010 min
 Lab File: 1223_10.D
 Acq: 23 Dec 2020 9:25 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	4341		
164	76.5	58.8	98.8	
129	67.9	50.7	90.7	

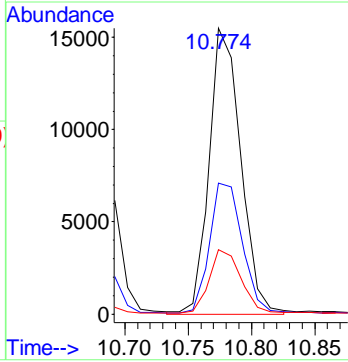
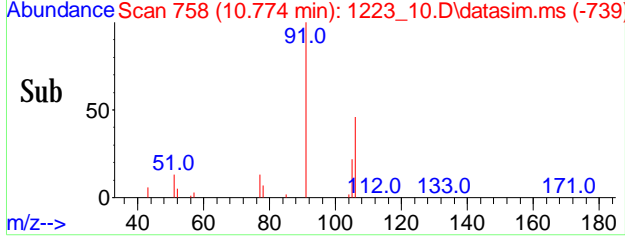




#108
 m p-Xylene (sim)
 Conc: 8S 0.311 ppbv
 RT: 10.779 min Scan# 758
 Delta R.T. 0.000 min
 Lab File: 1223_10.D
 Acq: 23 Dec 2020 9:25 pm



Tgt Ion	Ratio	Resp	Upper
91	100	22139	
106	54.9	44.5	54.3#
105	24.1	19.0	28.6



1
AIR ANALYSIS DATA SHEET

CLIENT ID

AA-1

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCH37250 Lab Sample ID: CH37252

Canister: 365 Lab File ID: 1223_11.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 12/23/20

Purge Volume 200 (cc) Date Analyzed: 12/23/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.453		0.202	0.202	r
74-87-3	Chloromethane	0.669		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	141	ES	0.531	0.531	
67-64-1	Acetone	12.7	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.364		0.178	0.178	r
67-63-0	Isopropylalcohol	6.58	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.864	U	0.864	0.864	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	60.5	E	0.339	0.339	
110-54-3	Hexane	2.25	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.591		0.339	0.339	r
71-43-2	Benzene	0.788		0.313	0.313	r
110-82-7	Cyclohexane	2.03		0.291	0.291	r
142-82-5	Heptane	1.29		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	1.85		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene	0.746		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.298		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.220		0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

AA-1

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCH37250	Lab Sample ID:	CH37252
Canister:	365	Lab File ID:	1223_11.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	Date Received: 12/23/20
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.078		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_11.D
 Acq On : 23 Dec 2020 10:07 pm
 Operator :
 Client ID : AA-1
 Lab ID : CH37252
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 24 08:28:25 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

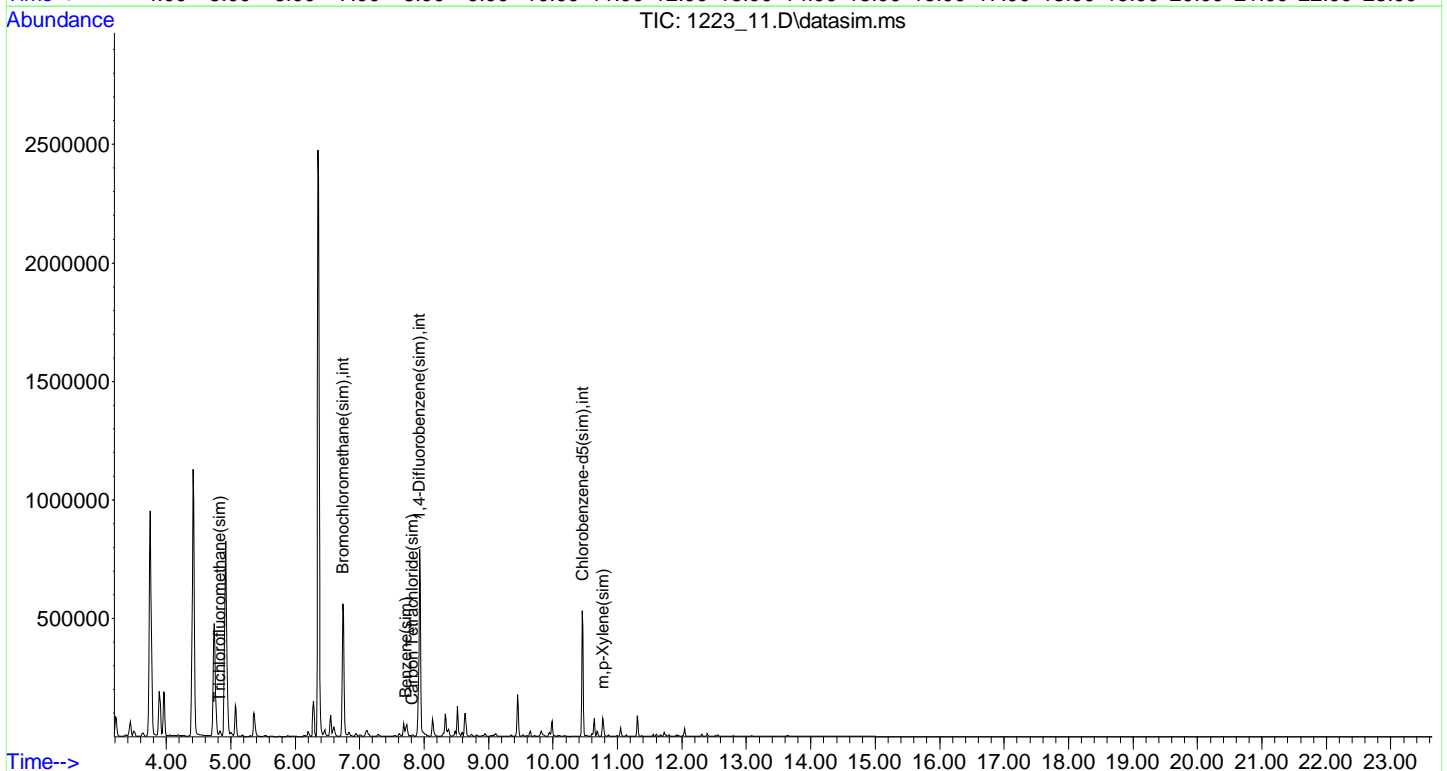
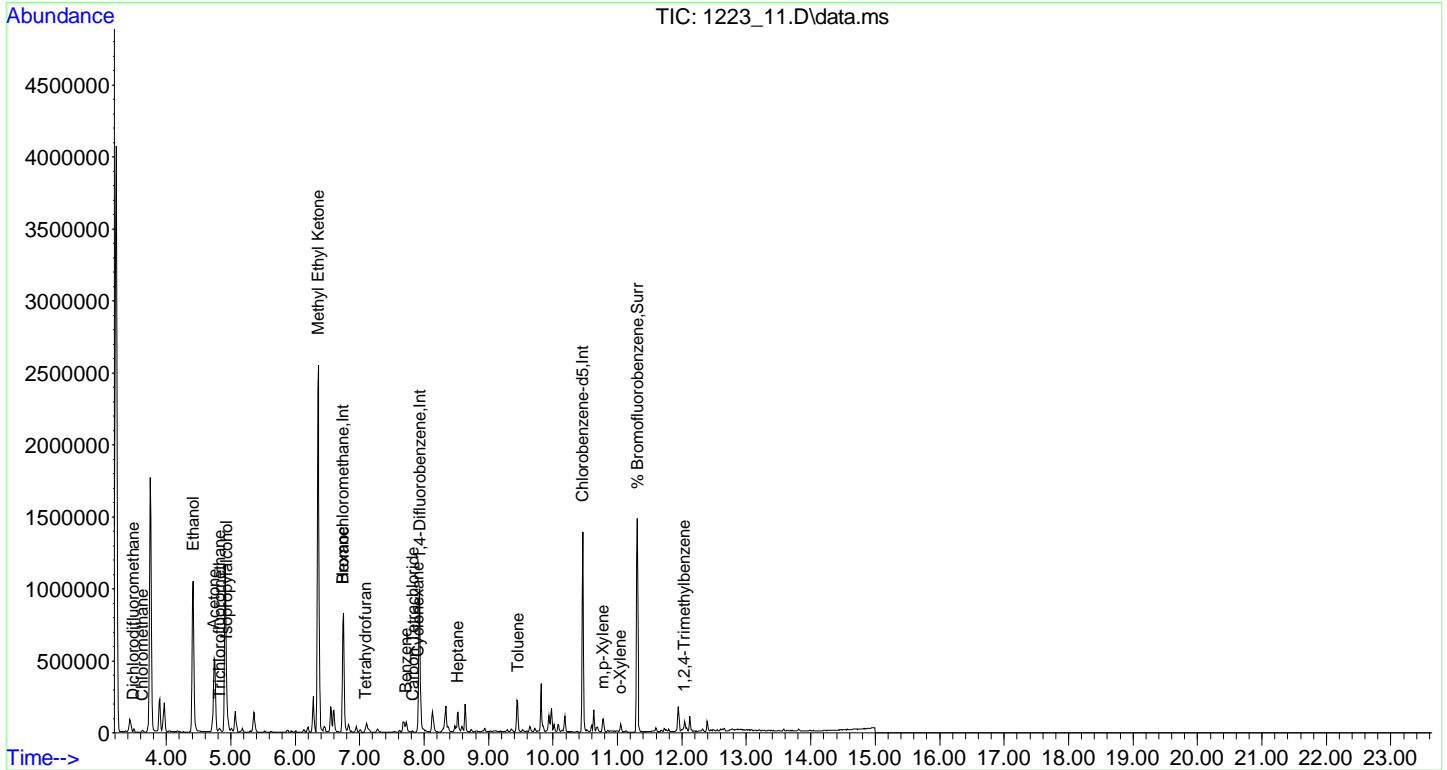
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.746	130	172124	10.000	ng	0.01
37) 1,4-Difluorobenzene	7.933	114	674468	10.000	ng	0.01
54) Chlorobenzene-d5	10.461	82	312997	10.000	ng	0.00
81) Bromchloromethane(sim)	6.741	130	205890	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.933	114	674428	10.000	ng	0.01
106) Chlorobenzene-d5(sim)	10.461	82	312997	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromfluorobenzene	11.312	95	374735	9.947	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.50%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.490	85	20561	0.453	ppbv#	94
4) Chloromethane	3.630	50	11916	0.669	ppbv	88
11) Ethanol	4.417	45	1223065	141.254	ppbv#	39
12) Acetone	4.740	43	389186	12.666	ppbv#	1
13) Trichlorofluoromethane	4.826	101	16836	0.364	ppbv	96
14) Isopropylalcohol	4.934	45	263076	6.575	ppbv#	82
26) Methyl Ethyl Ketone	6.357	43	2939497	60.507	ppbv#	87
28) Hexane	6.746	57	66935	2.253	ppbv#	31
31) Tetrahydrofuran	7.090	42	15056	0.591	ppbv#	86
34) Benzene	7.722	78	40884	0.788	ppbv	97
35) Carbon Tetrachloride	7.822	117	3790	0.081	ppbv	86
36) Cyclohexane	7.911	41	40165	2.027	ppbv#	27
44) Heptane	8.524	43	53689	1.290	ppbv	95
49) Toluene	9.454	91	125044	1.848	ppbv	98
58) m p-Xylene	10.779	91	47995	0.746	ppbv	99
62) o-Xylene	11.045	91	20216	0.297	ppbv	94
69) 1,2,4-Trimethylbenzene	12.040	105	17073	0.220	ppbv	95
85) Trichlorofluoromethane...	4.832	101	17648	0.322	ppbv#	100
88) Benzene(sim)	7.722	78	40884	0.675	ppbv	97
89) Carbon Tetrachloride(sim)	7.816	117	4317	0.078	ppbv	98
108) m p-Xylene(sim)	10.779	91	48090	0.690	ppbv	99

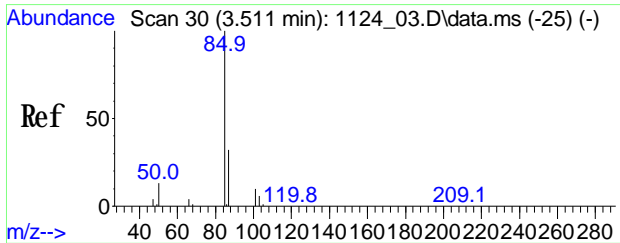
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

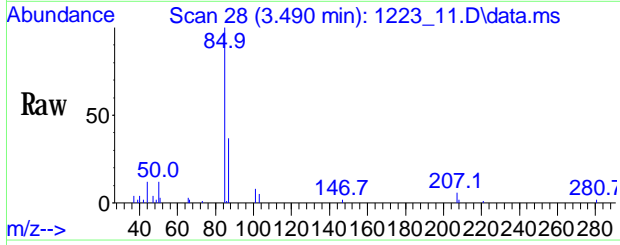
Data Path : H:\AIR2020\CHEM20\12DEC\23\
Data File : 1223_11.D
Acq On : 23 Dec 2020 10:07 pm
Operator :
Client ID : AA-1
Lab ID : CH37252
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 24 08:28:25 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Mon Dec 14 09:27:51 2020
Response via : Initial Calibration

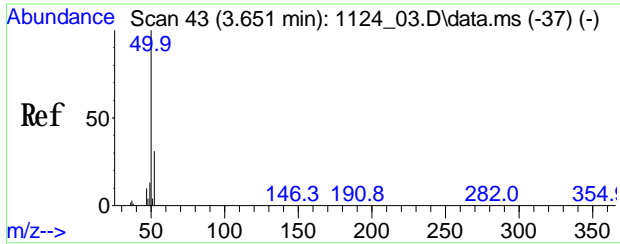
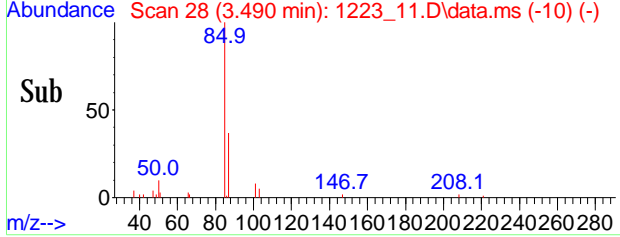
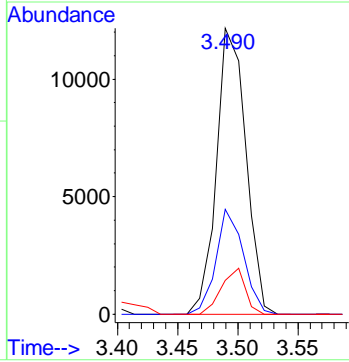




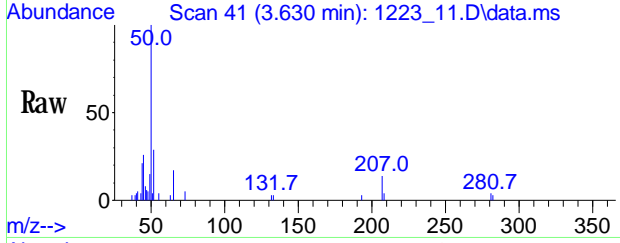
#3
 Dichlorodifluoromethane
 Conc: 8S 0.453 ppby
 RT: 3.490 min Scan# 28
 Delta R.T. -0.011 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm



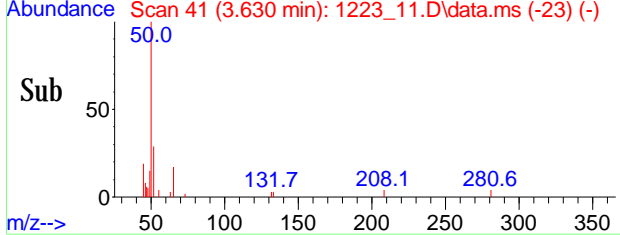
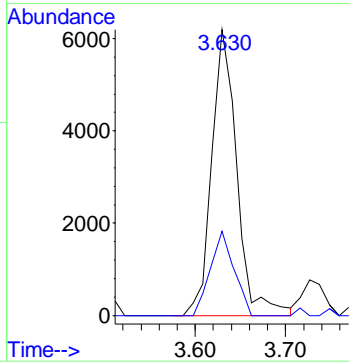
Tgt Ion: 85 Resp: 20561
 Ion Ratio Lower Upper
 85 100
 87 34.3 25.0 37.6
 50 13.0 13.1 19.7#

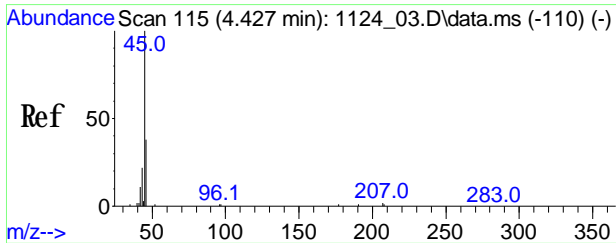


#4
 Chloromethane
 Conc: 8S 0.669 ppby
 RT: 3.630 min Scan# 41
 Delta R.T. -0.011 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm



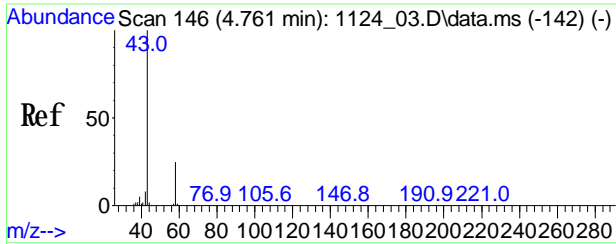
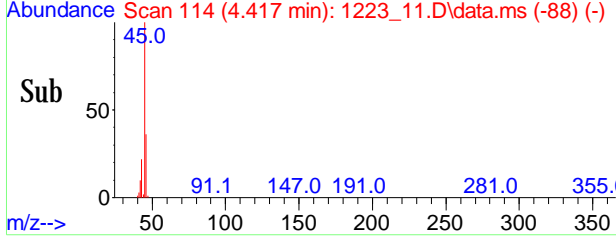
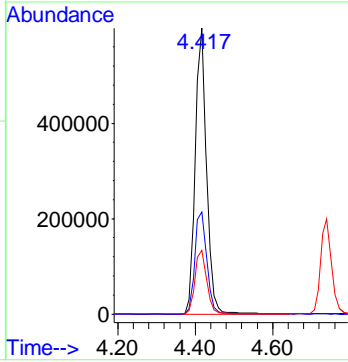
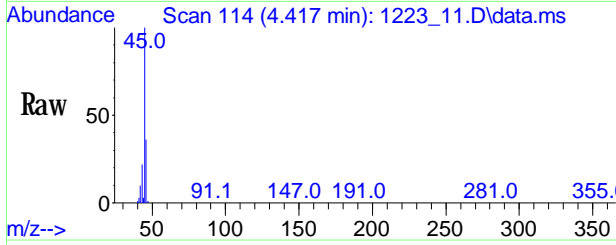
Tgt Ion: 50 Resp: 11916
 Ion Ratio Lower Upper
 50 100
 52 27.8 14.7 54.7





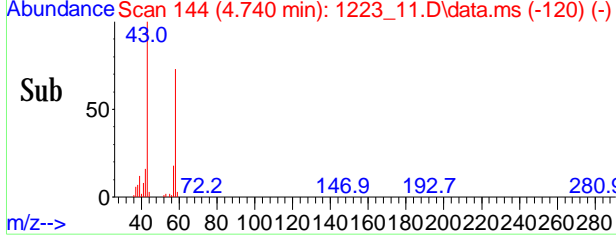
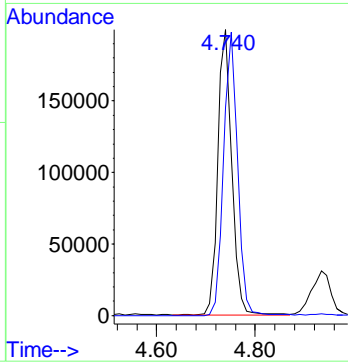
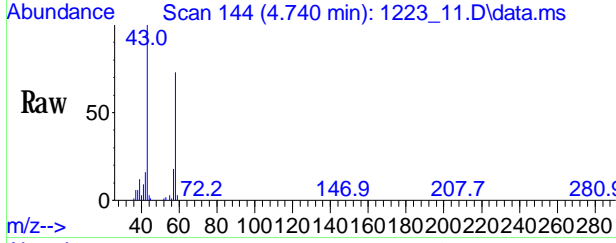
#11
 Ethanol
 Conc: 8S 141.254 ppbv
 RT: 4.417 min Scan# 114
 Delta R.T. -0.022 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

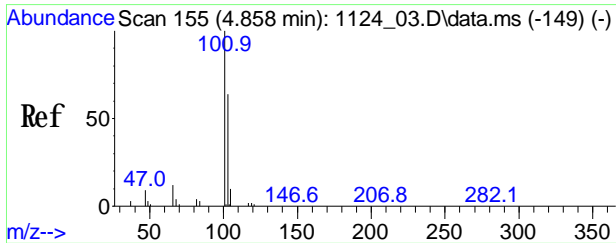
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	1223065		
46	37.8	28.8	43.2	
43	23.1	85.8	128.6#	



#12
 Acetone
 Conc: 8S 12.666 ppbv
 RT: 4.740 min Scan# 144
 Delta R.T. -0.043 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

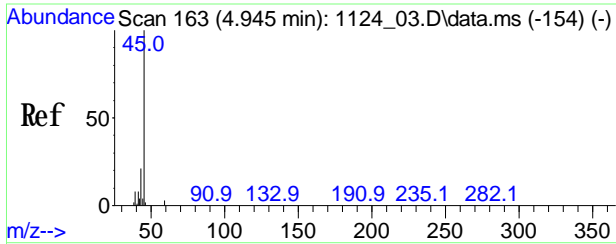
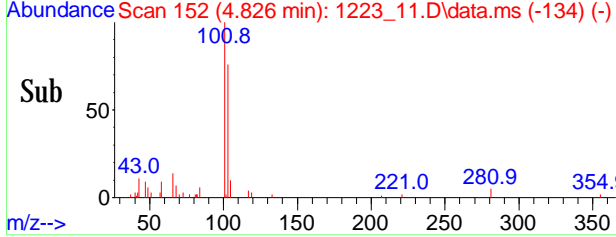
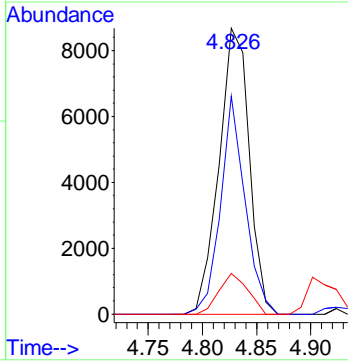
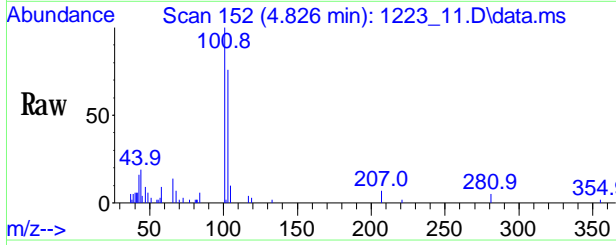
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	389186		
58	100.5	30.2	45.4#	





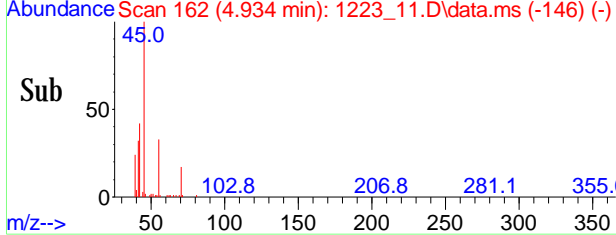
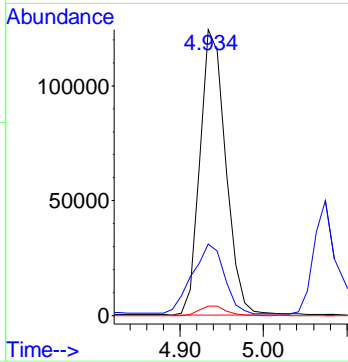
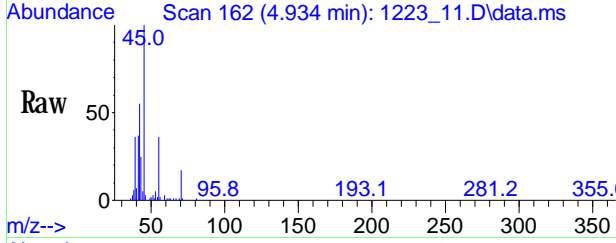
#13
 Trichlorofluoromethane
 Conc: 8S 0.364 ppbv
 RT: 4.826 min Scan# 152
 Delta R.T. -0.011 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

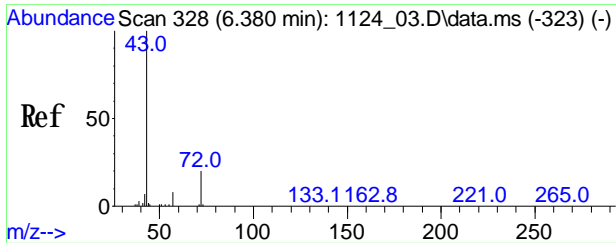
Tgt Ion	Ratio	Resp	Upper
101	100	16836	
103	61.8	52.1	78.1
66	13.5	11.0	16.4



#14
 Isopropylalcohol
 Conc: 8S 6.575 ppbv
 RT: 4.934 min Scan# 162
 Delta R.T. -0.032 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

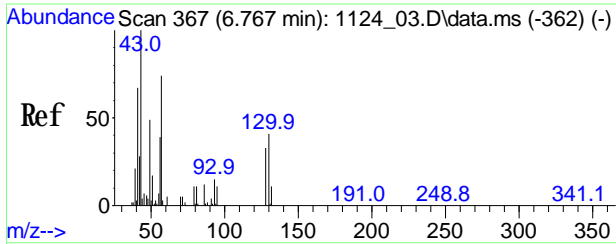
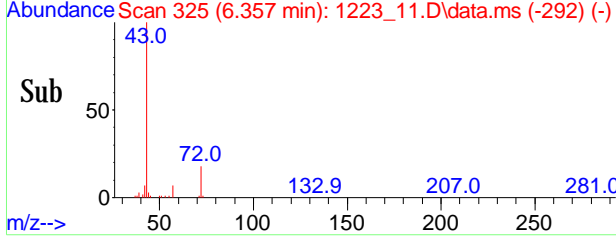
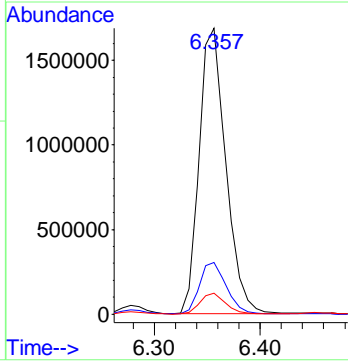
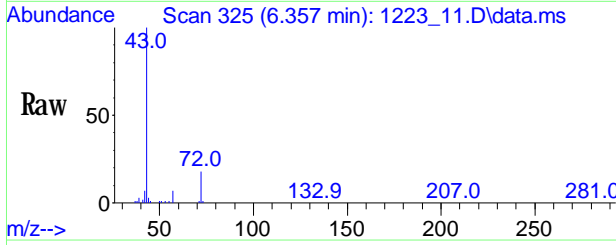
Tgt Ion	Ratio	Resp	Upper
45	100	263076	
43	30.9	16.9	25.3#
59	3.5	2.6	3.8





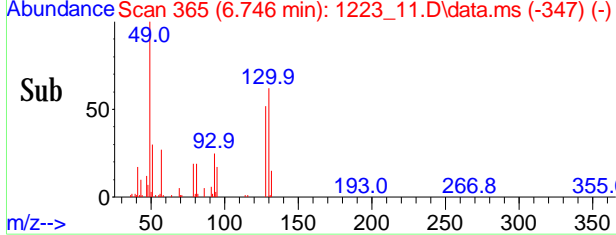
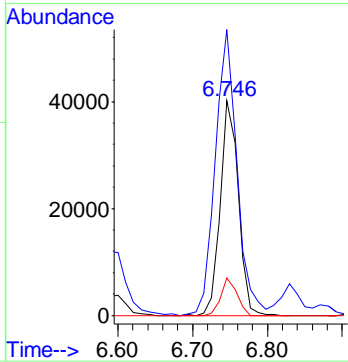
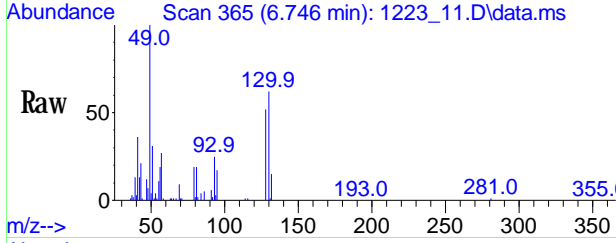
#26
 Methyl Ethyl Ketone
 Conc: 8S 60.507 ppbv
 RT: 6.357 min Scan# 325
 Delta R.T. -0.039 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

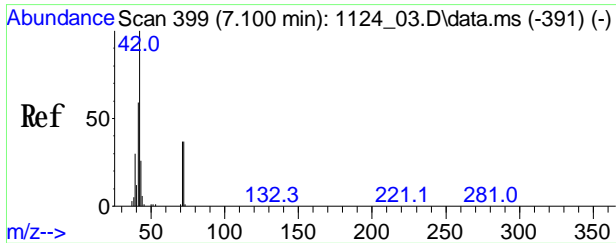
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	2939497		
72	21.0	11.0	16.4#	
57	7.0	7.4	11.0#	



#28
 Hexane
 Conc: 8S 2.253 ppbv
 RT: 6.746 min Scan# 365
 Delta R.T. -0.010 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

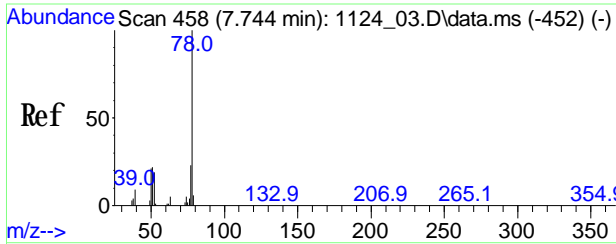
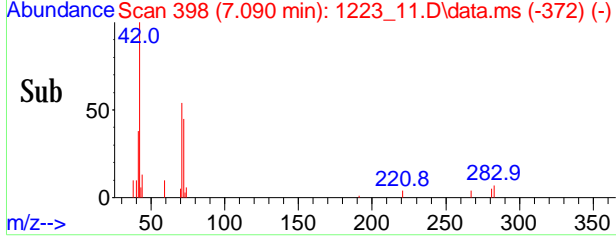
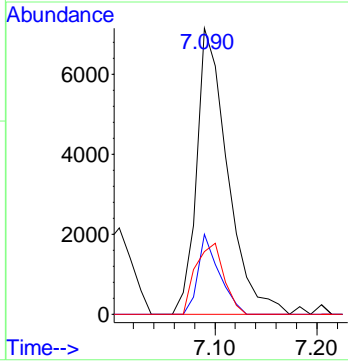
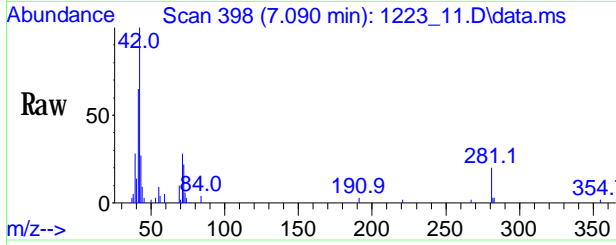
Tgt Ion	Ratio	Resp	Lower	Upper
57	100	66935		
41	160.7	69.4	104.0#	
86	15.6	11.4	17.2	





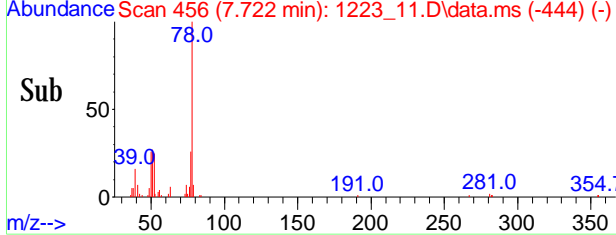
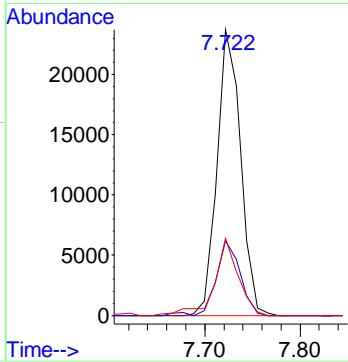
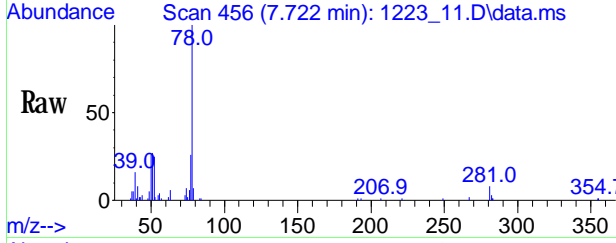
#31
 Tetrahydrofuran
 Conc: 8S 0.591 ppby
 RT: 7.090 min Scan# 398
 Delta R.T. -0.031 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

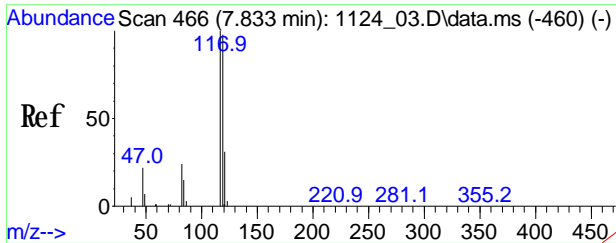
Tgt Ion	Ratio	Resp	Lower	Upper
42	100	15056		
71	19.2	23.0	34.6#	
72	22.7	22.6	34.0	



#34
 Benzene
 Conc: 8S 0.788 ppby
 RT: 7.722 min Scan# 456
 Delta R.T. 0.000 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

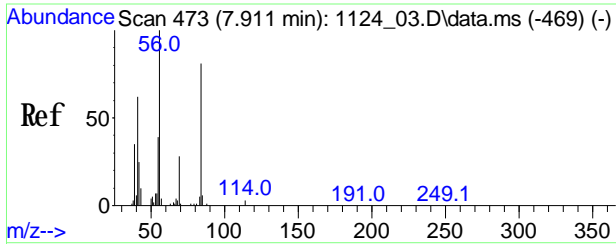
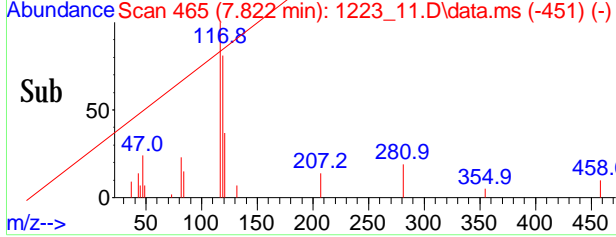
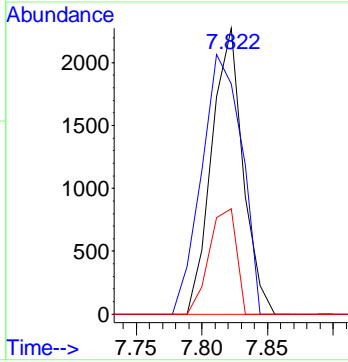
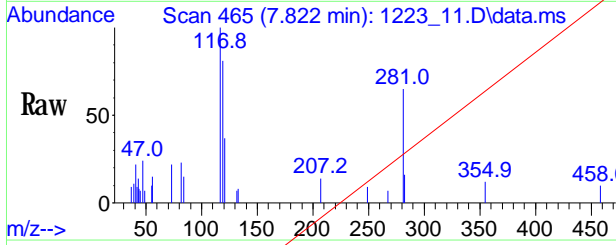
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	40884		
77	26.7	21.4	32.0	
51	27.3	19.4	29.2	





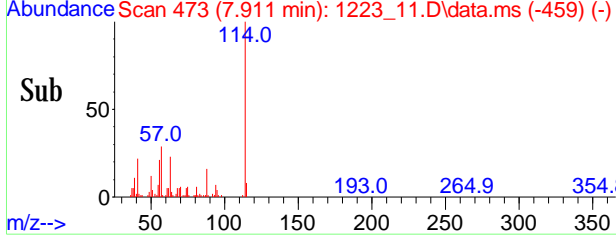
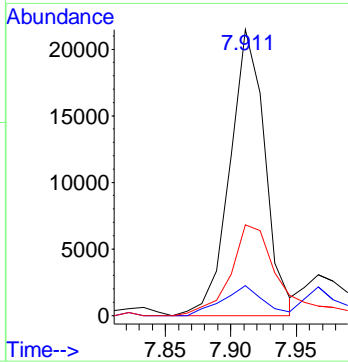
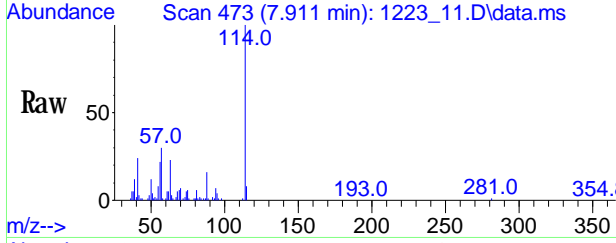
#35
Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 7.822 min Scan# 465
 Delta R.T.: 0.011 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

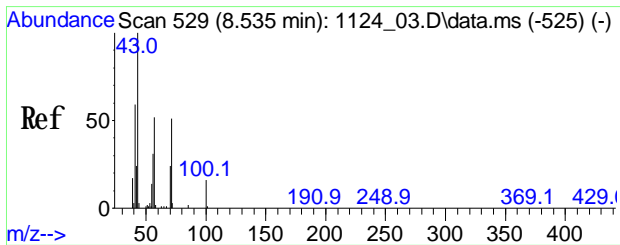
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	3790		
119	116.4	78.9		118.9
121	32.0	11.5		51.5



#36
Cyclohexane
 Conc: 8S 2.027 ppby
 RT: 7.911 min Scan# 473
 Delta R.T.: 0.011 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

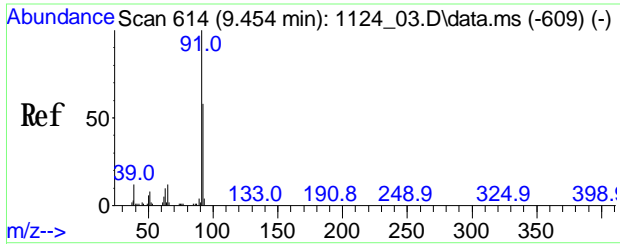
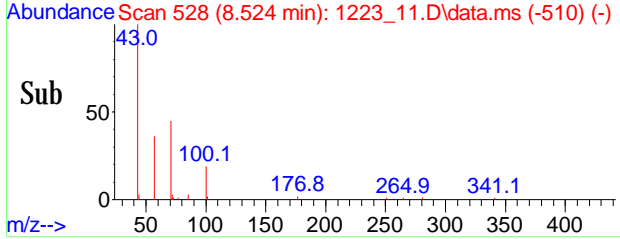
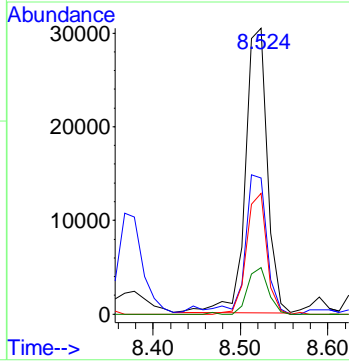
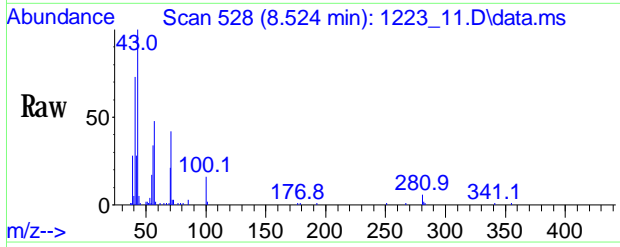
Tgt Ion	Ratio	Resp	Lower	Upper
41	100	40165		
42	12.1	40.0		60.0#
55	41.1	109.9		164.9#





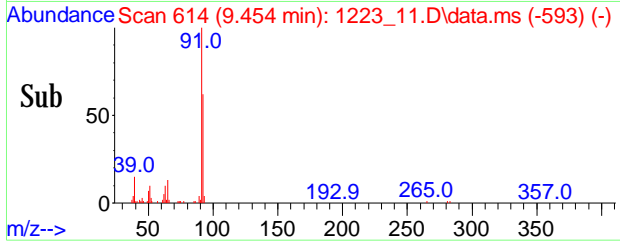
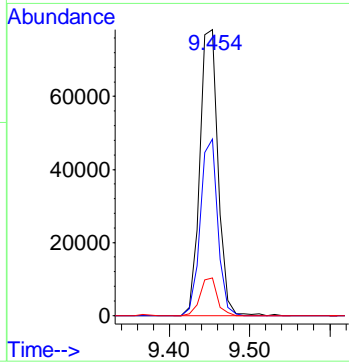
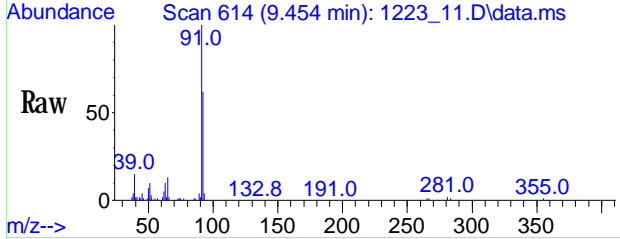
#44
 Heptane
 Conc: 8S 1.290 ppby
 RT: 8.524 min Scan# 528
 Delta R.T. 0.000 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

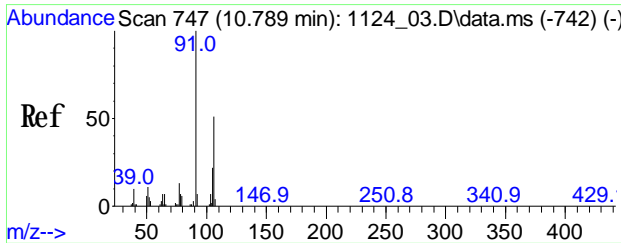
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	53689		
57	50.1	39.4	59.0	
71	39.3	35.8	53.6	
100	15.4	15.1	22.7	



#49
 Toluene
 Conc: 8S 1.848 ppby
 RT: 9.454 min Scan# 614
 Delta R.T. 0.000 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

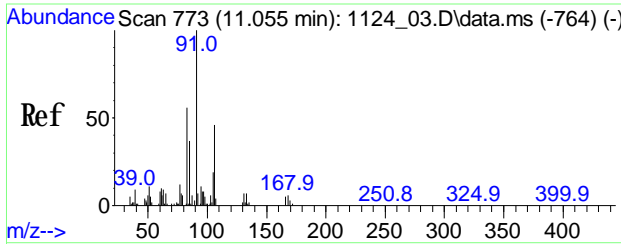
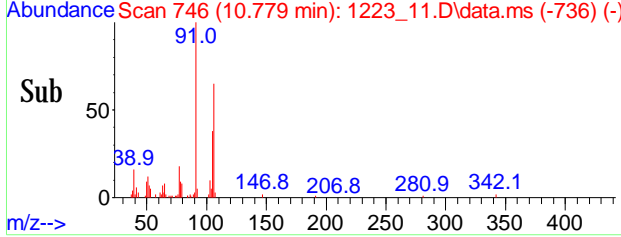
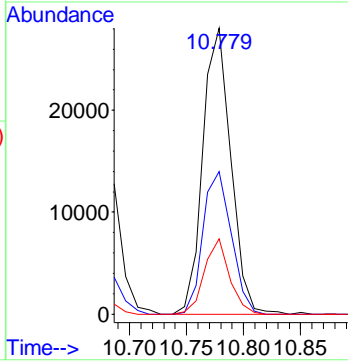
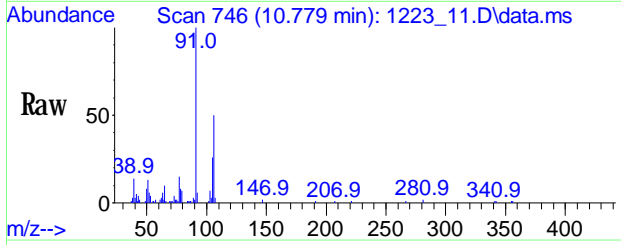
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	125044		
92	58.9	48.2	72.2	
65	12.3	11.2	16.8	





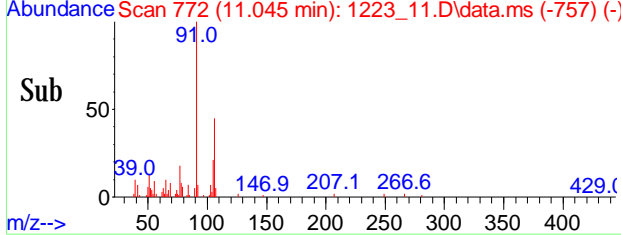
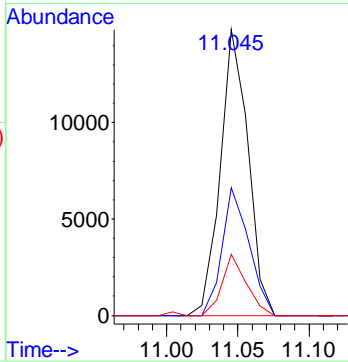
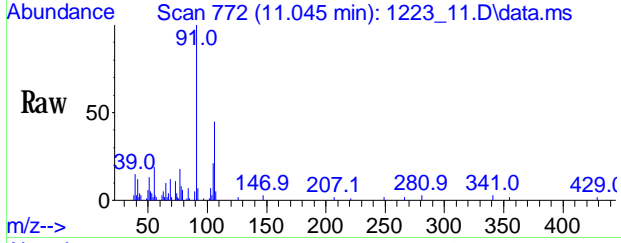
#58
 m p-Xylene
 Conc: 8S 0.746 ppbv
 RT: 10.779 min Scan# 746
 Delta R.T. 0.000 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

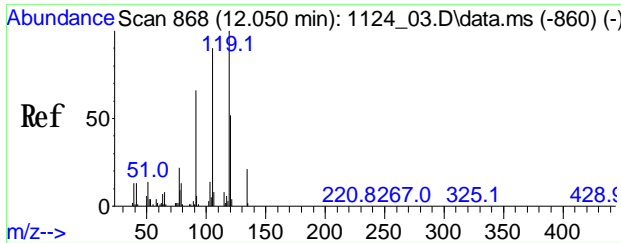
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	47995		
106	50.5	39.5	59.3	
105	23.7	19.0	28.6	



#62
 o-Xylene
 Conc: 8S 0.297 ppbv
 RT: 11.045 min Scan# 772
 Delta R.T. 0.000 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

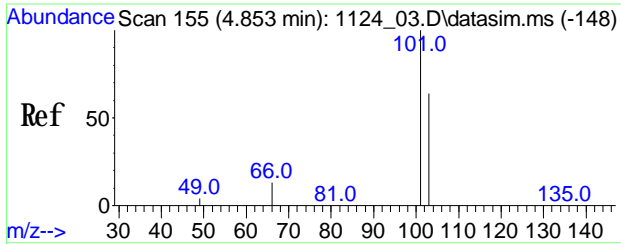
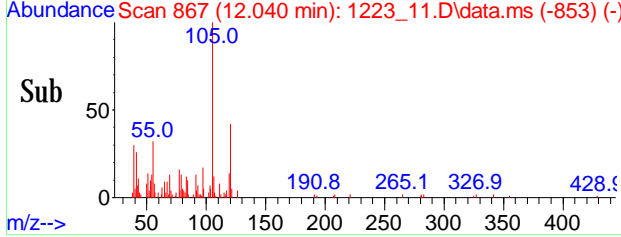
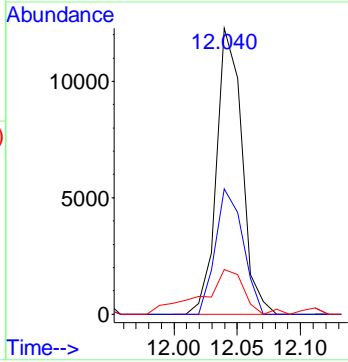
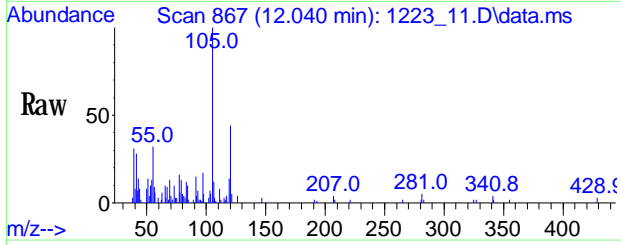
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	20216		
106	43.8	39.4	59.2	
105	19.4	16.0	24.0	





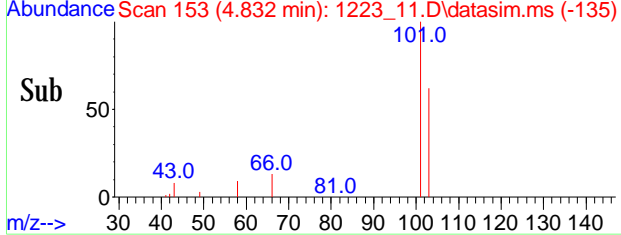
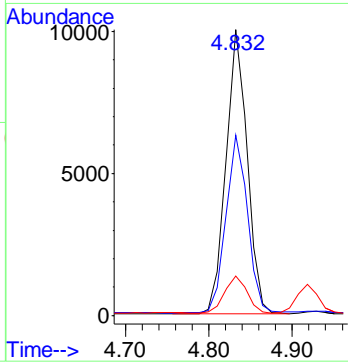
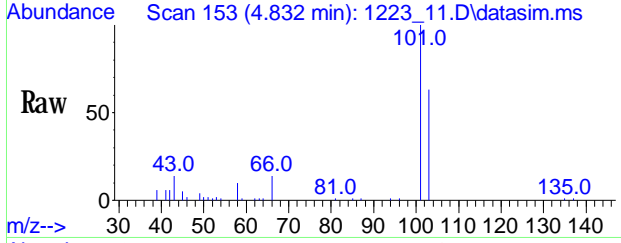
#69
 1,2,4-Trimethylbenzene
 Conc: 8S 0.220 ppbv
 RT: 12.040 min Scan# 867
 Delta R.T. -0.010 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

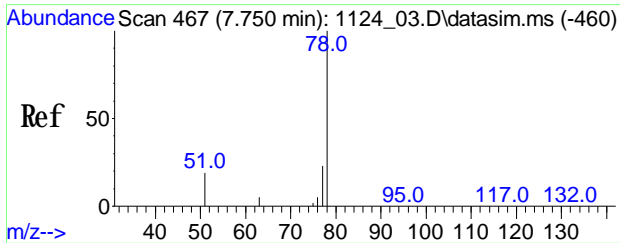
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	17073		
120	47.4	41.3	61.9	
77	25.8	21.7	32.5	



#85
 Trichlorofluoromethane (sim)
 Conc: 8S 0.322 ppbv
 RT: 4.832 min Scan# 153
 Delta R.T. -0.011 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

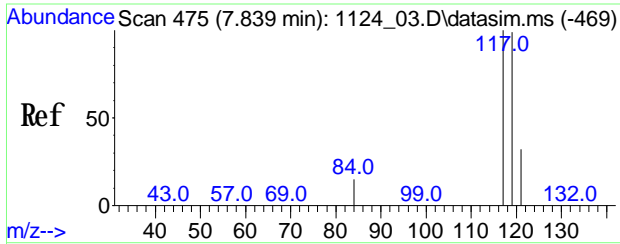
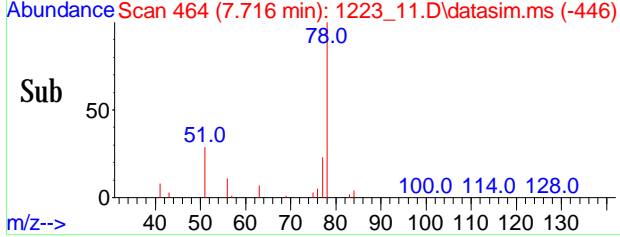
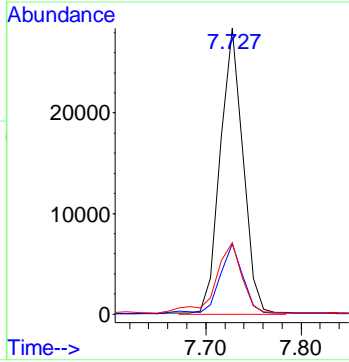
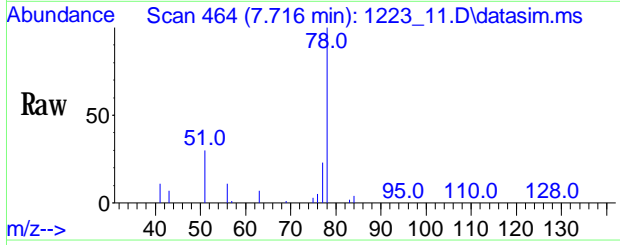
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	17648		
103	63.8	51.3	76.9	
66	13.6	13.2	13.2#	





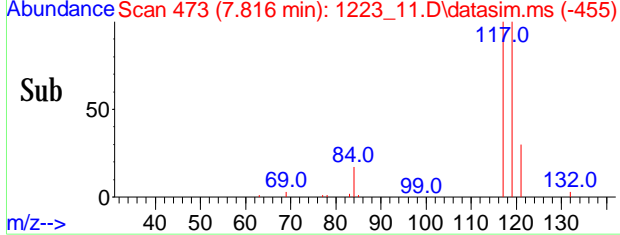
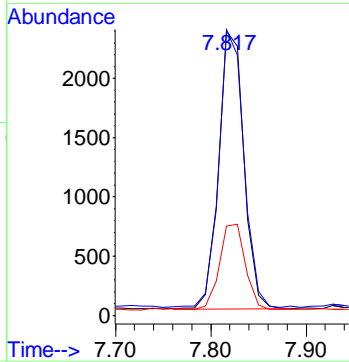
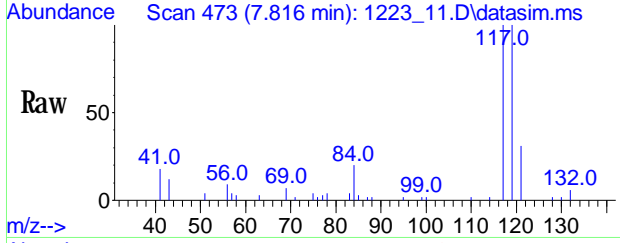
#88
 Benzene(sim)
 Conc: 8S 0.675 ppbv
 RT: 7.722 min Scan# 464
 Delta R.T. 0.000 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

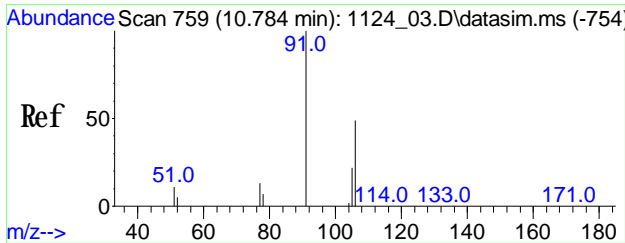
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	40884		
77	26.7	21.4		32.0
51	27.3	19.4		29.2



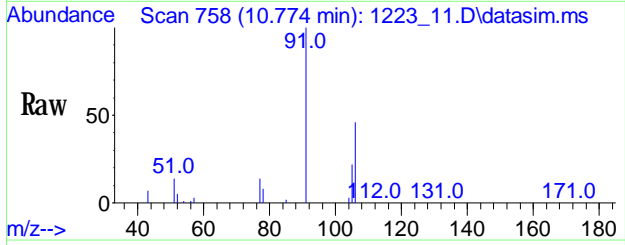
#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.078 ppbv
 RT: 7.816 min Scan# 473
 Delta R.T. 0.000 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4317		
119	98.8	76.8		115.2
121	31.6	25.1		37.7



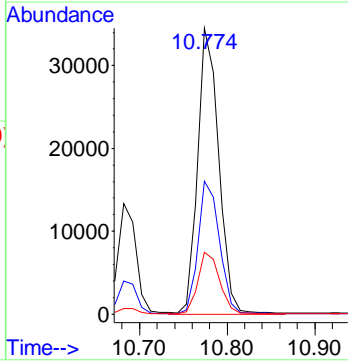
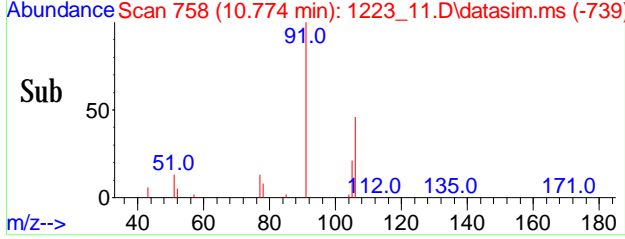


#108
 m p-Xylene(sim)
 Conc: 8S 0.690 ppbv
 RT: 10.779 min Scan# 758
 Delta R.T. 0.000 min
 Lab File: 1223_11.D
 Acq: 23 Dec 2020 10:07 pm



Tgt Ion: 91 Resp: 48090

Ion	Ratio	Lower	Upper
91	100		
106	50.4	44.5	54.3
105	23.6	19.0	28.6



1
AIR ANALYSIS DATA SHEET

CLIENT ID

AA-1 5X

Client: FPMGROUP Lab: Phoenix Env. Labs
SDG No.: GCH37250 Lab Sample ID: CH37252 5X
Canister: 365 Lab File ID: 1223_29.D
Instrument: CHEM20 Column: RTX-1 60M Date Received: 12/23/20
Purge Volume 200 (cc) Date Analyzed: 12/24/20
Matrix: AIR Dilution Factor: 5

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	1.01	U	1.01	1.01	
74-87-3	Chloromethane	2.42	U	2.42	2.42	
64-17-5	Ethanol	124	DS	2.66	2.66	r
67-64-1	Acetone	10.8	X	2.11	2.11	
67-63-0	Isopropylalcohol	7.03	X	2.04	2.04	
78-93-3	Methyl Ethyl Ketone	60.5	D	1.70	1.70	r
110-54-3	Hexane	2.46	X	1.42	1.42	
109-99-9	Tetrahydrofuran	1.70	U	1.70	1.70	
110-82-7	Cyclohexane	2.14	X	1.45	1.45	
142-82-5	Heptane	1.59	X	1.22	1.22	
108-88-3	Toluene	2.37	X	1.33	1.33	
95-47-6	o-Xylene	1.15	U	1.15	1.15	
95-63-6	1,2,4-Trimethylbenzene	1.02	U	1.02	1.02	
75-69-4	Trichlorofluoromethane(sim)	0.890	U	0.890	0.890	
71-43-2	Benzene(sim)	1.57	U	1.57	1.57	
56-23-5	Carbon Tetrachloride(sim)	0.159	U	0.159	0.159	
179601-23-1	m,p-Xylene(sim)	1.15	U	1.15	1.15	

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent
This form 1 and the associated quantitation report are filtered for detected compounds in the undiluted analysis.

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_29.D
 Acq On : 24 Dec 2020 9:57 am
 Operator :
 Client ID : AA-1 5X
 Lab ID : CH37252 5X
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Dec 26 12:11:24 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

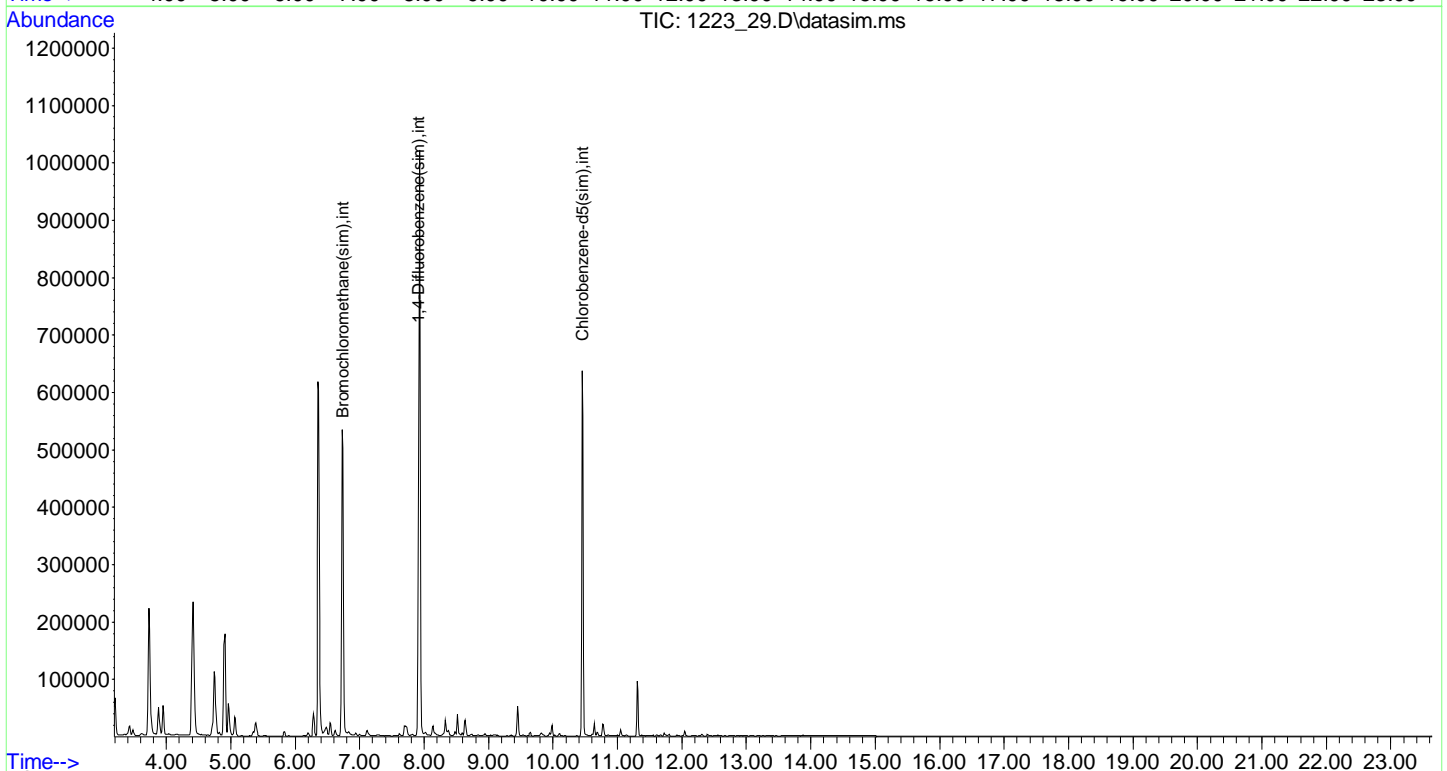
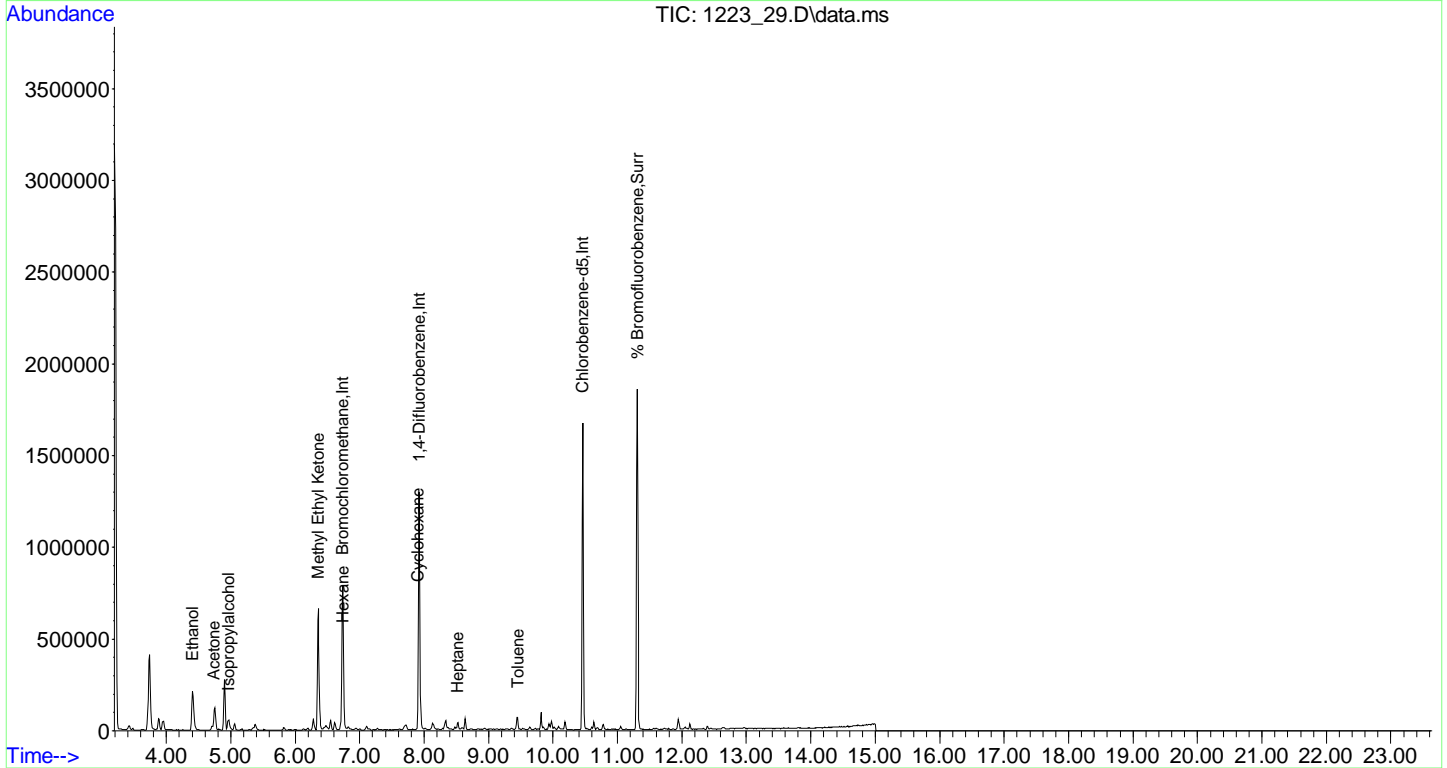
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.735	130	233839	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.922	114	865002	10.000	ng	0.00
54) Chlorobenzene-d5	10.461	82	389809	10.000	ng	0.00
81) Bromchloromethane(sim)	6.741	130	265794	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.922	114	865002	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.461	82	390239	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromfluorobenzene	11.311	95	485443	10.347	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.50%
Target Compounds						
11) Ethanol	4.406	45	291759	24.803	ppbv#	38
12) Acetone	4.740	43	89843	2.152	ppbv#	1
14) Isopropylalcohol	4.966	45	76456	1.407	ppbv	92
26) Methyl Ethyl Ketone	6.356	43	798605	12.100	ppbv#	87
28) Hexane	6.746	57	19817	0.491	ppbv#	37
36) Cyclohexane	7.911	41	11530	0.428	ppbv#	37
44) Heptane	8.524	43	16946	0.317	ppbv#	94
49) Toluene	9.454	91	41173	0.474	ppbv	91

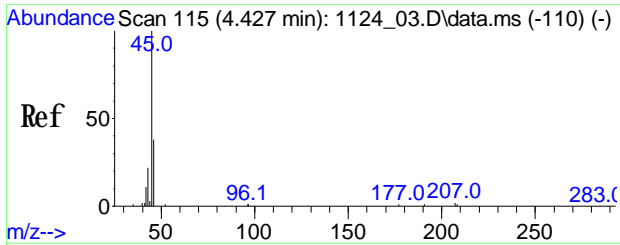
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
Data File : 1223_29.D
Acq On : 24 Dec 2020 9:57 am
Operator :
Client ID : AA-1 5X
Lab ID : CH37252 5X
ALS Vial : 29 Sample Multiplier: 1

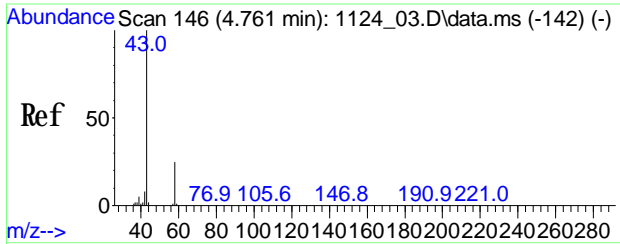
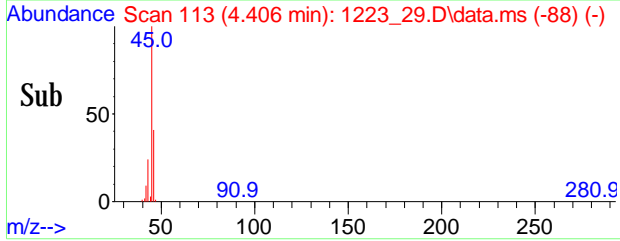
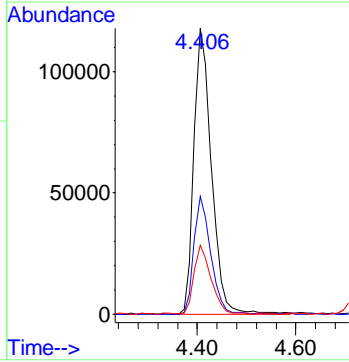
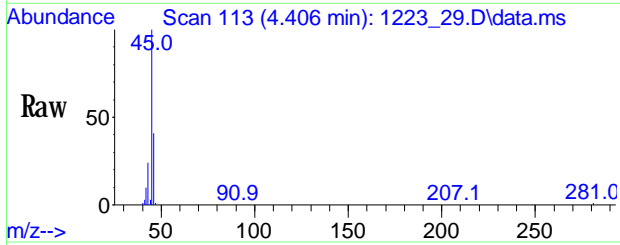
Quant Time: Dec 26 12:11:24 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Mon Dec 14 09:27:51 2020
Response via : Initial Calibration





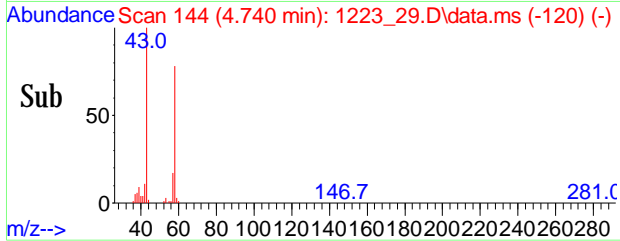
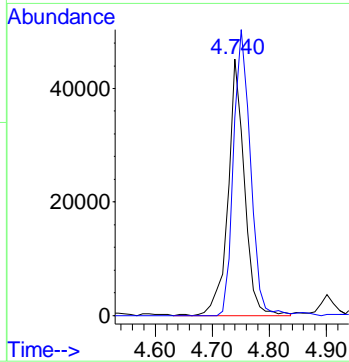
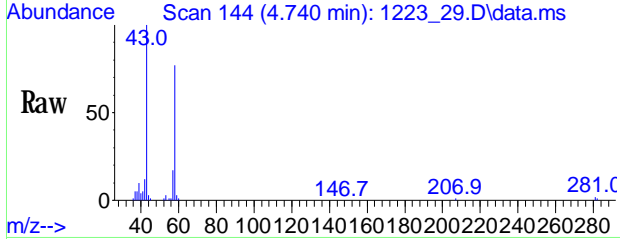
#11
 Ethanol
 Conc: 8S 24.803 ppbv
 RT: 4.406 min Scan# 113
 Delta R.T. -0.032 min
 Lab File: 1223_29.D
 Acq: 24 Dec 2020 9:57 am

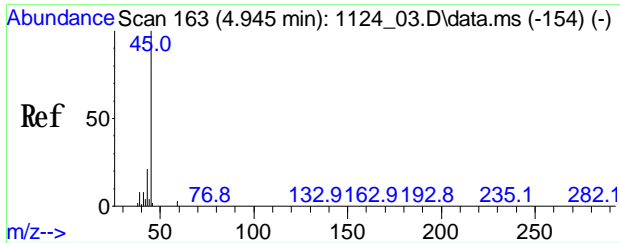
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	291759		
46	39.2	28.8	43.2	
43	23.6	85.8	128.6#	



#12
 Acetone
 Conc: 8S 2.152 ppbv
 RT: 4.740 min Scan# 144
 Delta R.T. -0.043 min
 Lab File: 1223_29.D
 Acq: 24 Dec 2020 9:57 am

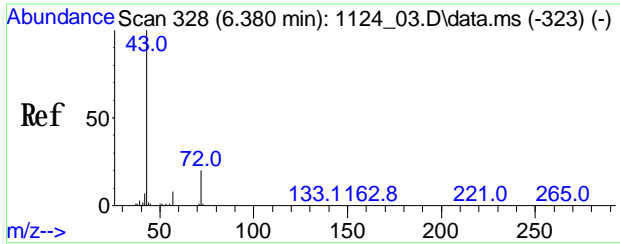
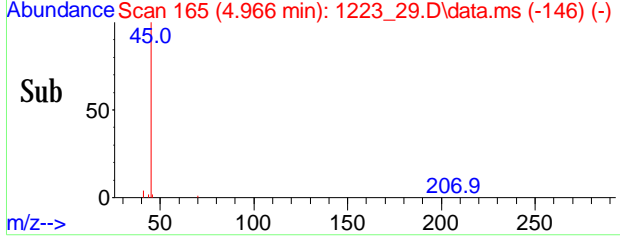
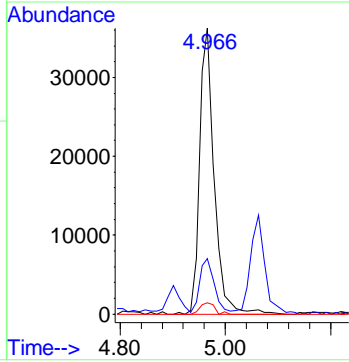
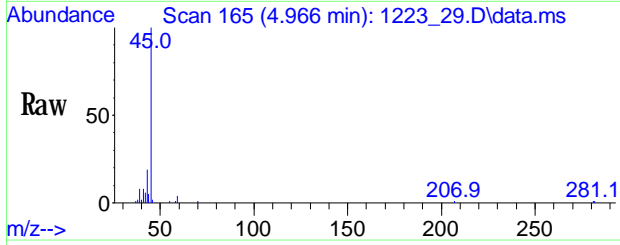
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	89843		
58	114.6	30.2	45.4#	





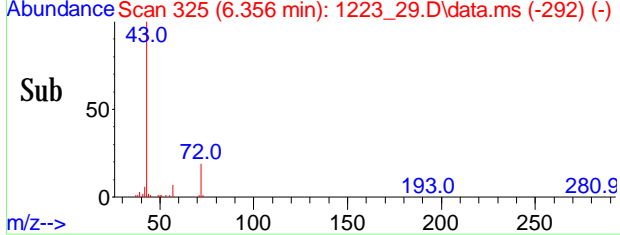
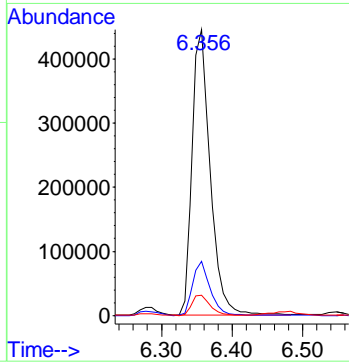
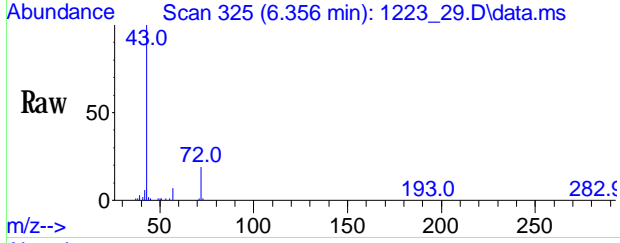
#14
 Isopropyl alcohol
 Conc: 85 1.407 ppbv
 RT: 4.966 min Scan# 165
 Delta R.T. -0.000 min
 Lab File: 1223_29.D
 Acq: 24 Dec 2020 9:57 am

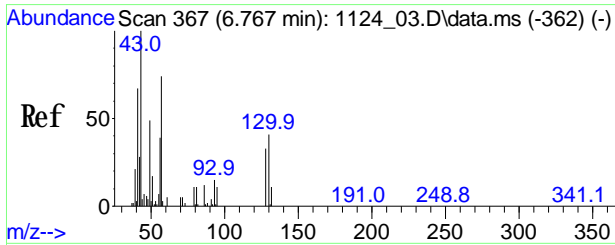
Tgt Ion	Ratio	Resp	Upper
45	100	76456	
43	17.0	16.9	25.3
59	3.7	2.6	3.8



#26
 Methyl Ethyl Ketone
 Conc: 85 12.100 ppbv
 RT: 6.356 min Scan# 325
 Delta R.T. -0.040 min
 Lab File: 1223_29.D
 Acq: 24 Dec 2020 9:57 am

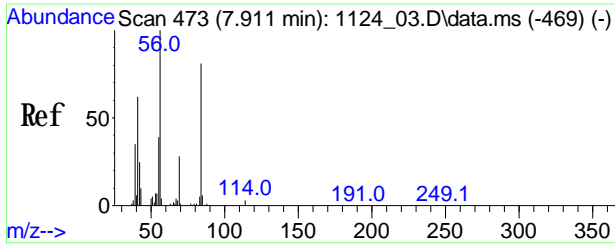
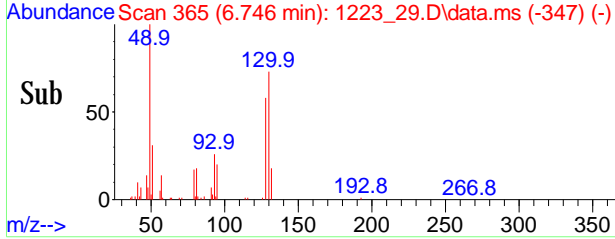
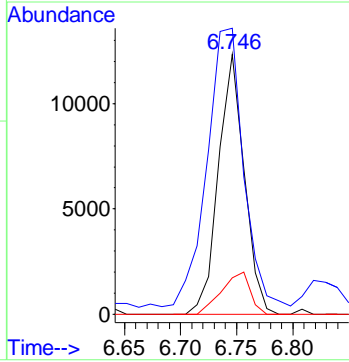
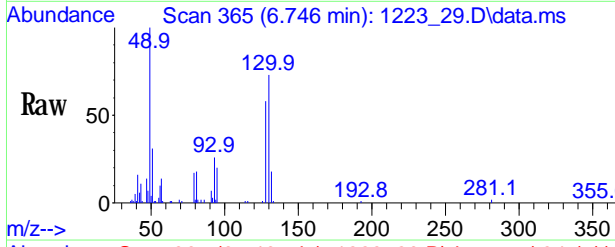
Tgt Ion	Ratio	Resp	Upper
43	100	798605	
72	20.8	11.0	16.4#
57	7.2	7.4	11.0#





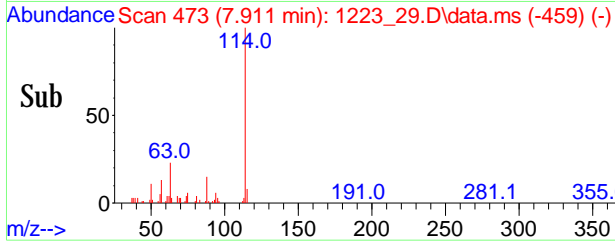
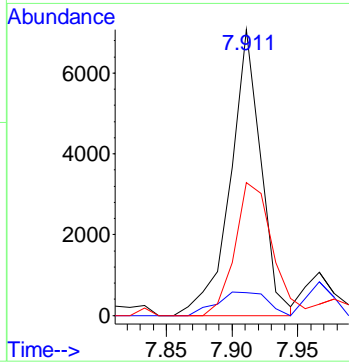
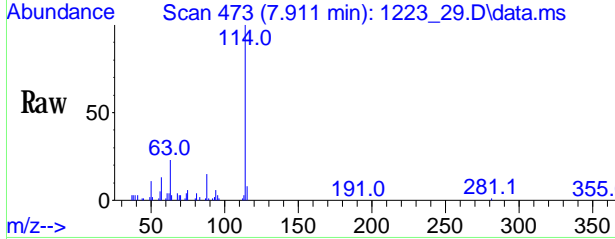
#28
 Hexane
 Conc: 8S 0.491 ppbv
 RT: 6.746 min Scan# 365
 Delta R.T. -0.011 min
 Lab File: 1223_29.D
 Acq: 24 Dec 2020 9:57 am

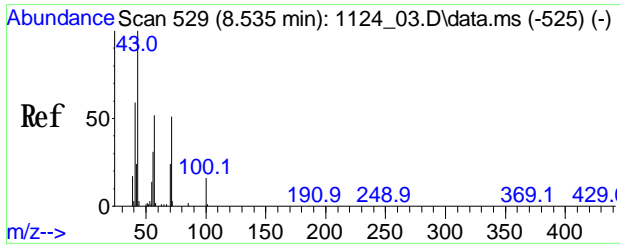
Tgt Ion	Ratio	Resp	Upper
57	100	19817	
41	153.0	69.4	104.0#
86	17.7	11.4	17.2#



#36
 Cyclohexane
 Conc: 8S 0.428 ppbv
 RT: 7.911 min Scan# 473
 Delta R.T. 0.011 min
 Lab File: 1223_29.D
 Acq: 24 Dec 2020 9:57 am

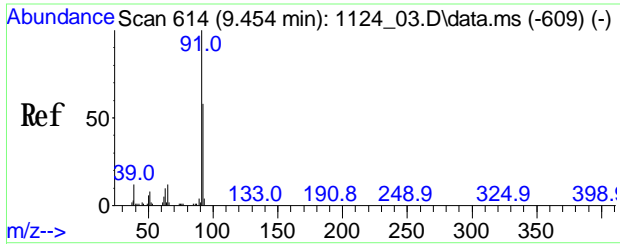
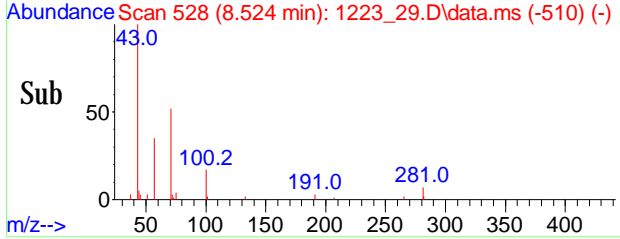
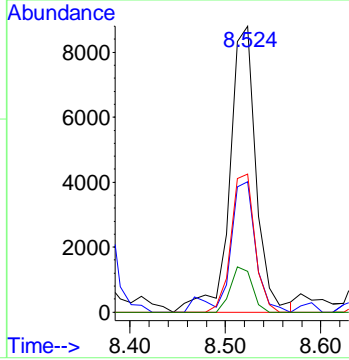
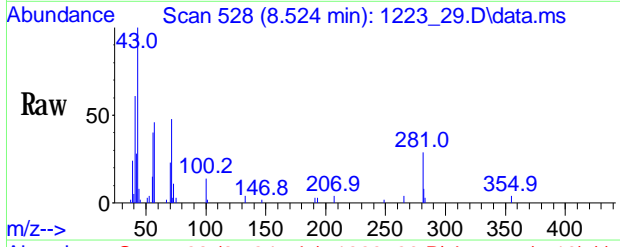
Tgt Ion	Ratio	Resp	Upper
41	100	11530	
42	13.5	40.0	60.0#
55	57.0	109.9	164.9#





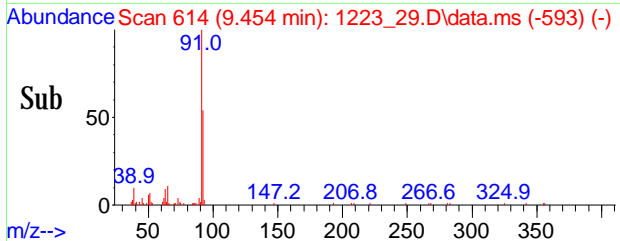
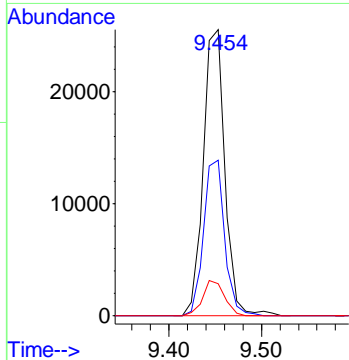
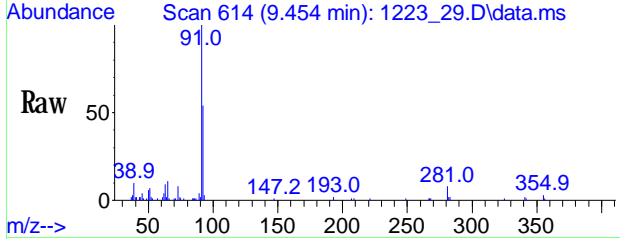
#44
 Heptane
 Conc: 8S 0.317 ppbv
 RT: 8.524 min Scan# 528
 Delta R.T. -0.000 min
 Lab File: 1223_29.D
 Acq: 24 Dec 2020 9:57 am

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	16946		
57	44.5	39.4	59.0	
71	43.6	35.8	53.6	
100	12.9	15.1	22.7	#



#49
 Toluene
 Conc: 8S 0.474 ppbv
 RT: 9.454 min Scan# 614
 Delta R.T. -0.000 min
 Lab File: 1223_29.D
 Acq: 24 Dec 2020 9:57 am

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	41173		
92	52.9	48.2	72.2	
65	12.4	11.2	16.8	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-99

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCH37250	Lab Sample ID:	CH37253
Canister:	28621	Lab File ID:	1223_12.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	Date Received: 12/23/20
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.419		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	50.2	ES	0.531	0.531	r
67-64-1	Acetone	9.45	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.347		0.178	0.178	r
67-63-0	Isopropylalcohol	3.40	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.864	U	0.864	0.864	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.382		0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.573		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-99

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCH37250 Lab Sample ID: CH37253

Canister: 28621 Lab File ID: 1223_12.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 12/23/20

Purge Volume 200 (cc) Date Analyzed: 12/23/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.083		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.098		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.340		0.230	0.230	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_12.D
 Acq On : 23 Dec 2020 10:46 pm
 Operator :
 Client ID : IA-99
 Lab ID : CH37253
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 24 08:28:56 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

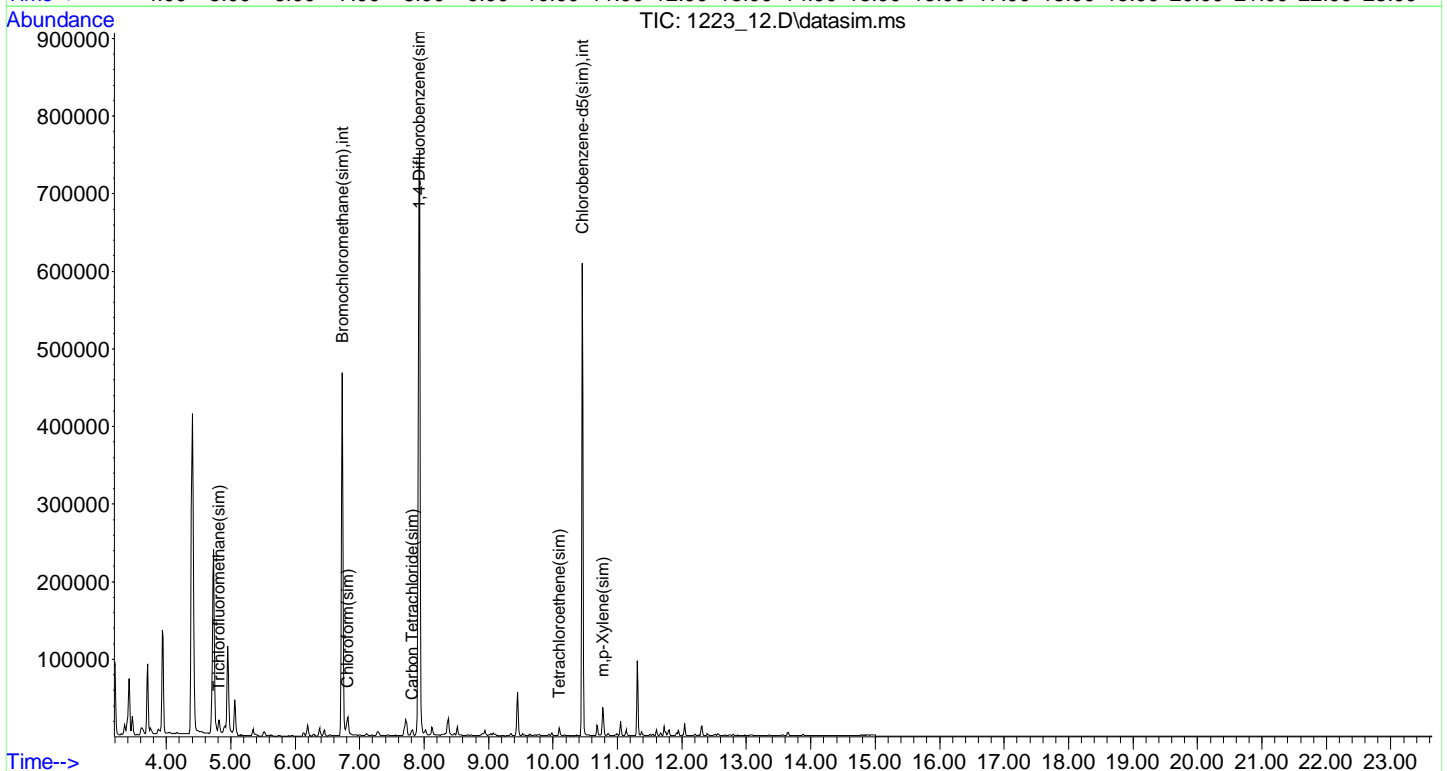
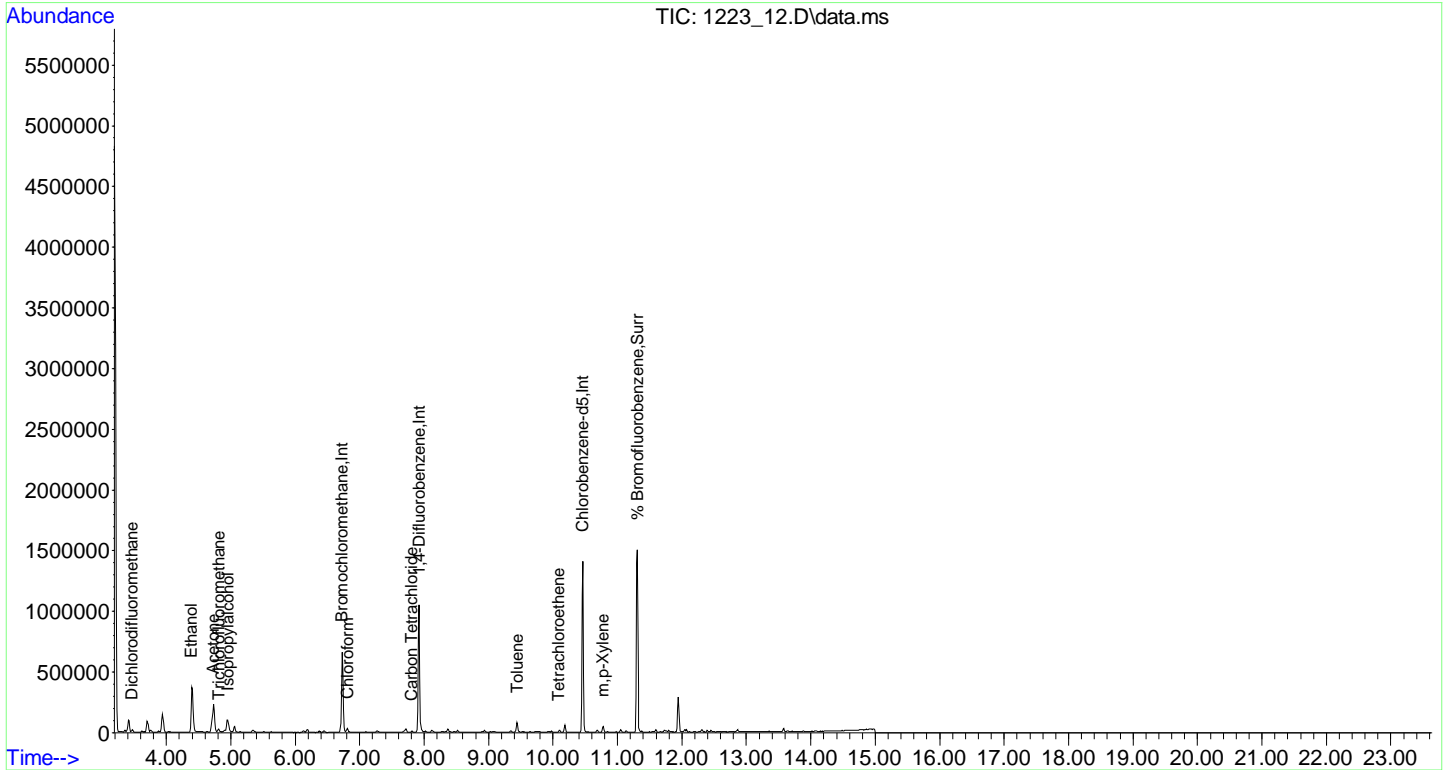
Compound	R.T.	QI on	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.725	130	181671	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.922	114	688273	10.000	ng	0.00
54) Chlorobenzene-d5	10.461	82	331135	10.000	ng	0.00
81) Bromchloromethane(sim)	6.731	130	215232	10.000	ng	#-0.01
96) 1,4-Difluorobenzene(sim)	7.922	114	688273	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.461	82	331135	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromfluorobenzene	11.312	95	396451	9.947	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	99.50%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.468	85	20076	0.419	ppbv	98
11) Ethanol	4.395	45	458562	50.177	ppbv#	39
12) Acetone	4.729	43	306316	9.445	ppbv#	71
13) Trichlorofluoromethane	4.816	101	16957	0.347	ppbv	97
14) Isopropylalcohol	4.956	45	143424	3.396	ppbv	99
29) Chloroform	6.808	83	16021	0.381	ppbv	97
35) Carbon Tetrachloride	7.811	117	4881	0.099	ppbv	97
49) Toluene	9.444	91	39578	0.573	ppbv	98
53) Tetrachloroethene	10.094	166	3204	0.088	ppbv#	86
58) m p-Xylene	10.779	91	25099	0.369	ppbv	94
85) Trichlorofluoromethane...	4.821	101	16922	0.296	ppbv#	99
89) Carbon Tetrachloride(sim)	7.817	117	4793	0.083	ppbv	98
95) Chloroform(sim)	6.814	83	16743	0.344	ppbv	98
105) Tetrachloroethene(sim)	10.100	166	4361	0.098	ppbv	98
108) m p-Xylene(sim)	10.779	91	25099	0.340	ppbv	94

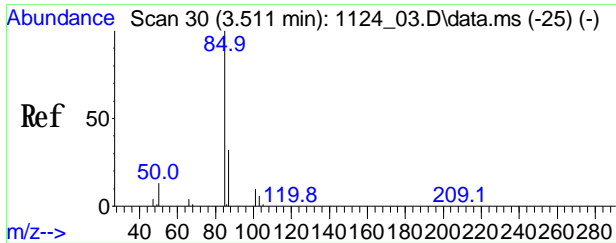
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

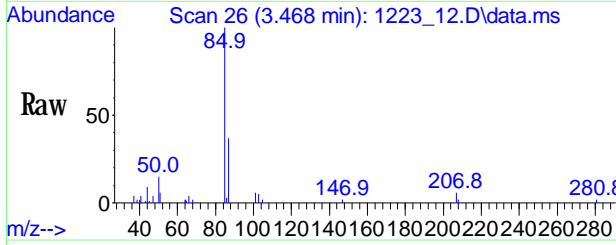
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Data File : 1223_12.D
Acq On : 23 Dec 2020 10:46 pm
Operator :
Client ID : IA-99
Lab ID : CH37253
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 24 08:28:56 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Mon Dec 14 09:27:51 2020
Response via : Initial Calibration

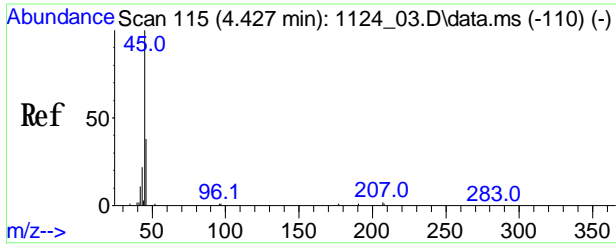
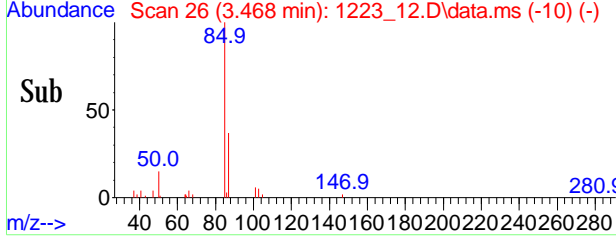
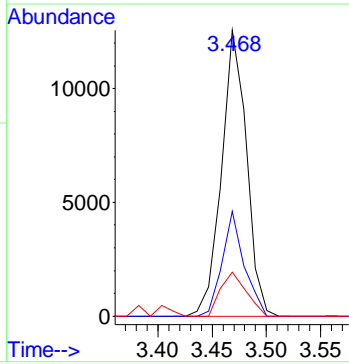




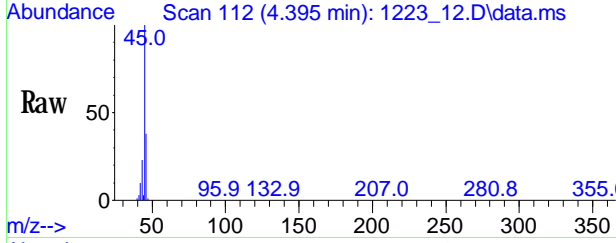
#3
 Dichlorodifluoromethane
 Conc: 8S 0.419 ppbv
 RT: 3.468 min Scan# 26
 Delta R.T. -0.032 min
 Lab File: 1223_12.D
 Acq: 23 Dec 2020 10:46 pm



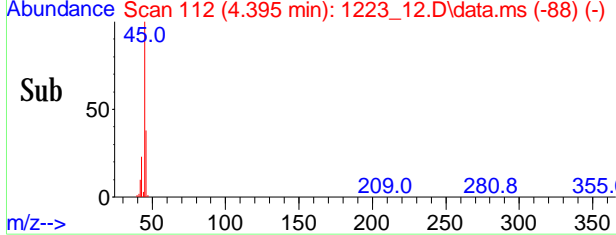
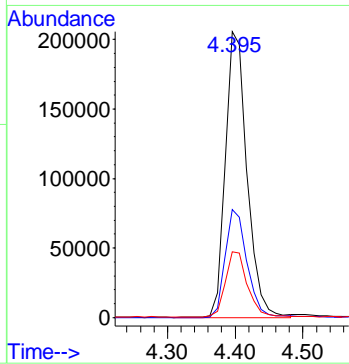
Tgt Ion	Ratio	Resp	Upper
85	100	20076	
87	32.3	25.0	37.6
50	15.8	13.1	19.7

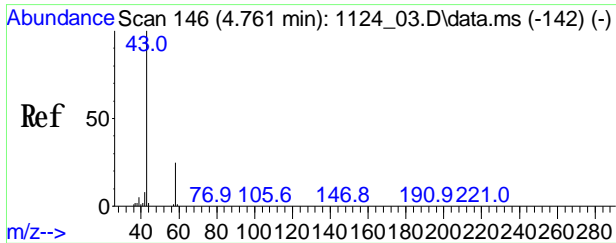


#11
 Ethanol
 Conc: 8S 50.177 ppbv
 RT: 4.395 min Scan# 112
 Delta R.T. -0.043 min
 Lab File: 1223_12.D
 Acq: 23 Dec 2020 10:46 pm



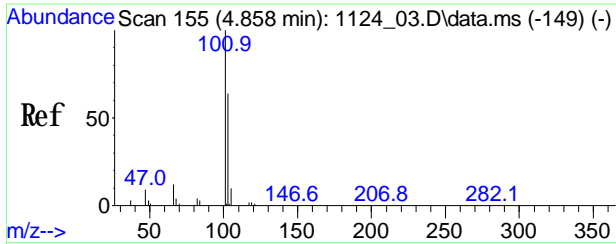
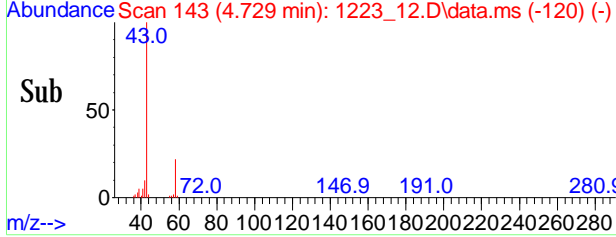
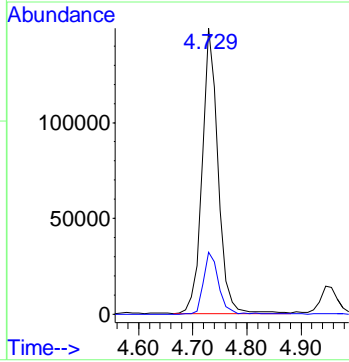
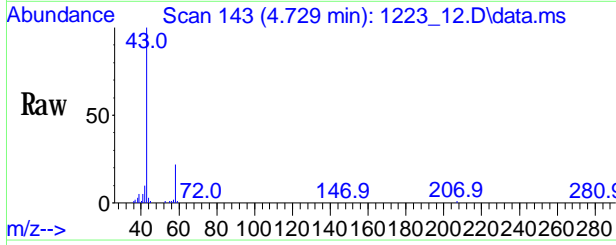
Tgt Ion	Ratio	Resp	Upper
45	100	458562	
46	38.9	28.8	43.2
43	23.5	85.8	128.6#





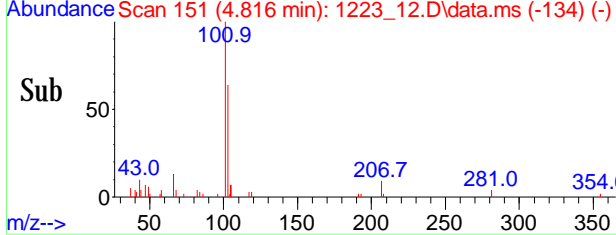
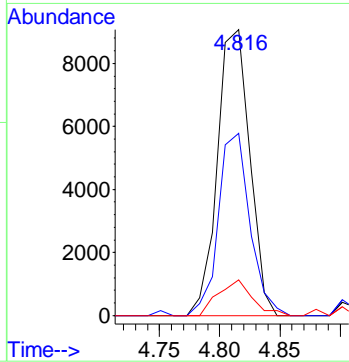
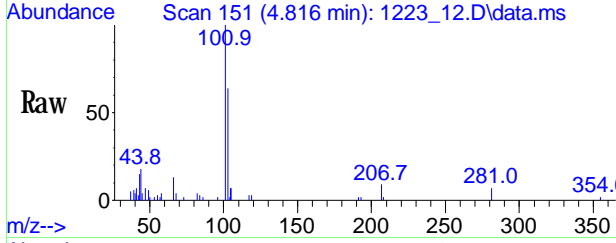
#12
 Acetone
 Conc: 8S 9.445 ppbv
 RT: 4.729 min Scan# 143
 Delta R.T. -0.054 min
 Lab File: 1223_12.D
 Acq: 23 Dec 2020 10:46 pm

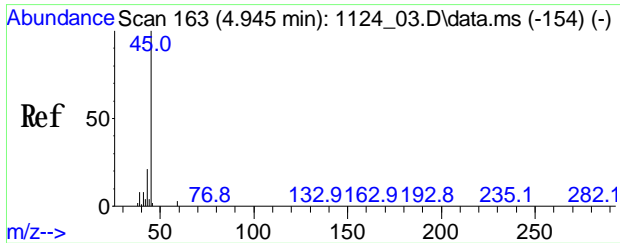
Tgt Ion	Ratio	Resp	Upper
43	100	306316	
58	20.6	30.2	45.4#



#13
 Trichlorofluoromethane
 Conc: 8S 0.347 ppbv
 RT: 4.816 min Scan# 151
 Delta R.T. -0.021 min
 Lab File: 1223_12.D
 Acq: 23 Dec 2020 10:46 pm

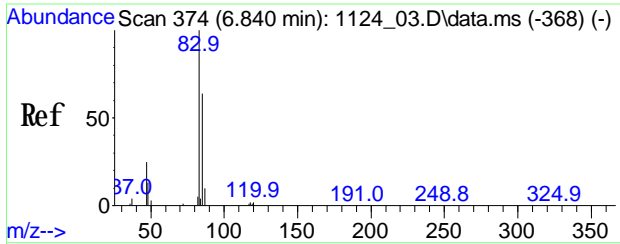
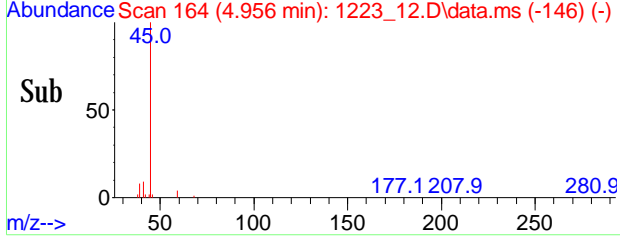
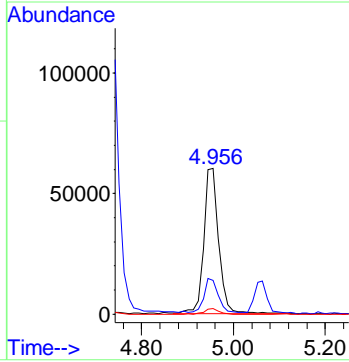
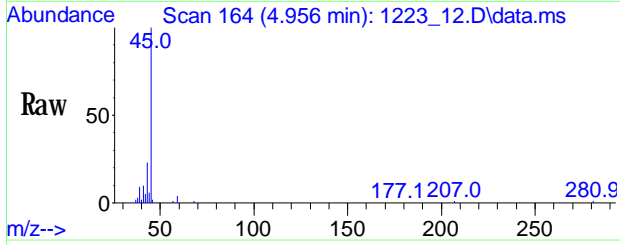
Tgt Ion	Ratio	Resp	Upper
101	100	16957	
103	62.8	52.1	78.1
66	13.1	11.0	16.4





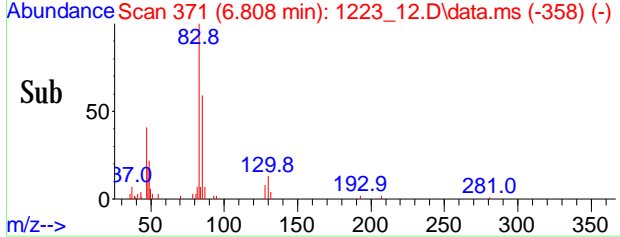
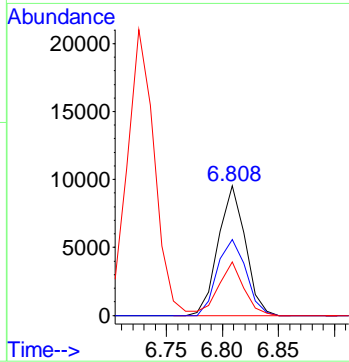
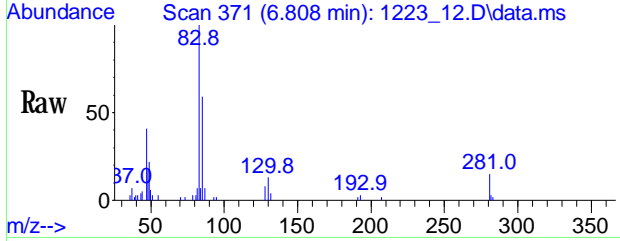
#14
 Isopropylalcohol
 Conc: 8S 3.396 ppbv
 RT: 4.956 min Scan# 164
 Delta R.T. -0.011 min
 Lab File: 1223_12.D
 Acq: 23 Dec 2020 10:46 pm

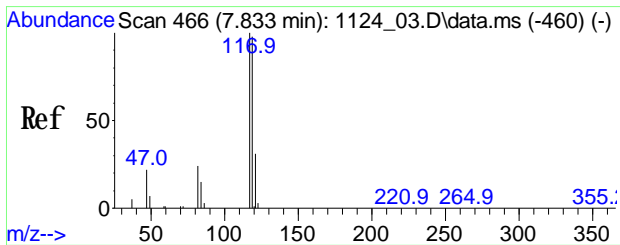
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	143424		
43	21.3	16.9		25.3
59	3.5	2.6		3.8



#29
 Chloroform
 Conc: 8S 0.381 ppbv
 RT: 6.808 min Scan# 371
 Delta R.T. -0.010 min
 Lab File: 1223_12.D
 Acq: 23 Dec 2020 10:46 pm

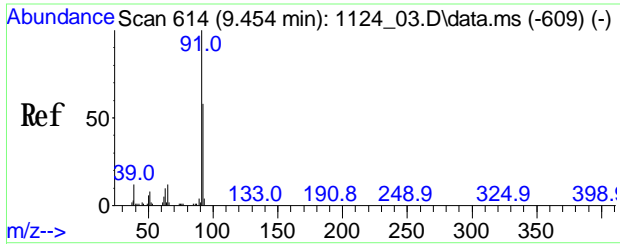
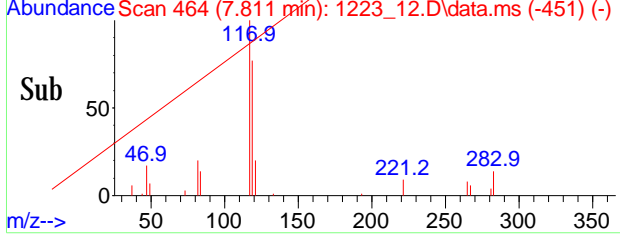
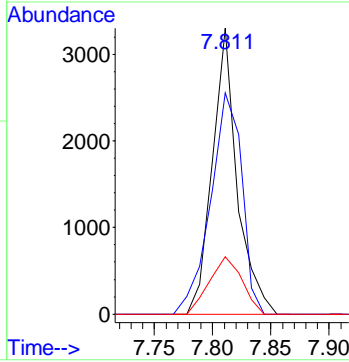
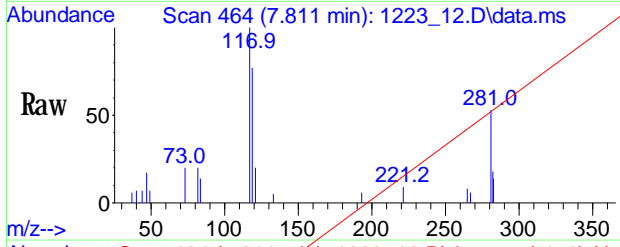
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	16021		
85	62.3	41.7		81.7
47	38.1	14.7		54.7





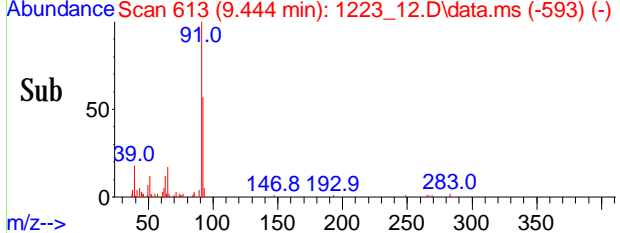
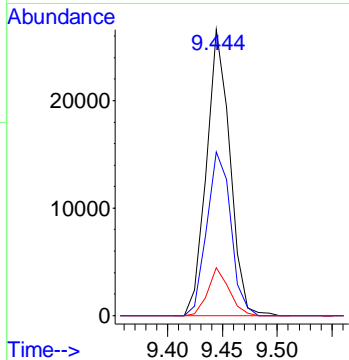
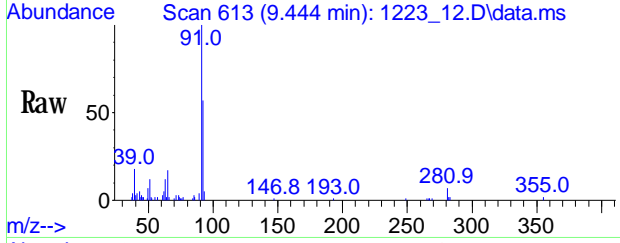
#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 7.811 min Scan# 464
 Delta R.T. 0.000 min
 Lab File: 1223_12.D
 Acq: 23 Dec 2020 10:46 pm

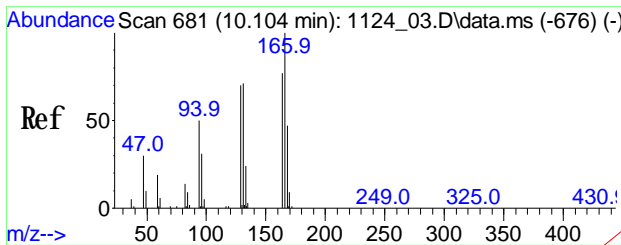
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4881		
119	97.5	78.9		118.9
121	26.4	11.5		51.5



#49
 Toluene
 Conc: 8S 0.573 ppby
 RT: 9.444 min Scan# 613
 Delta R.T. -0.010 min
 Lab File: 1223_12.D
 Acq: 23 Dec 2020 10:46 pm

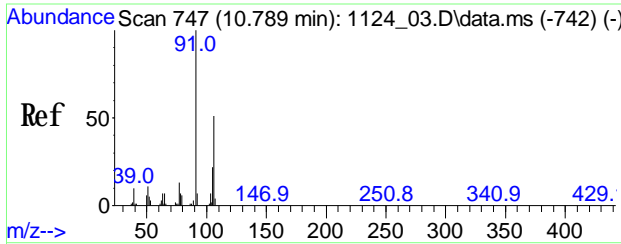
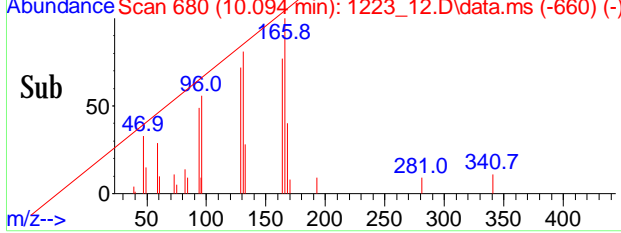
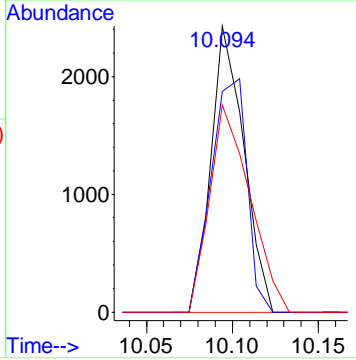
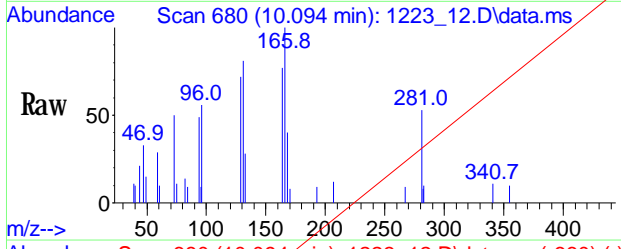
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	39578		
92	58.6	48.2		72.2
65	15.1	11.2		16.8





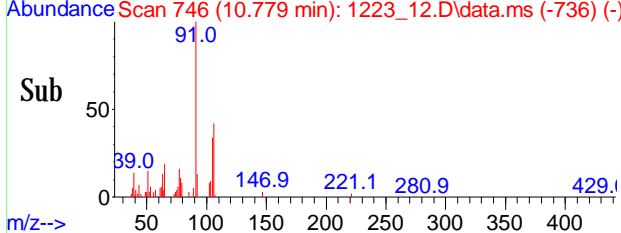
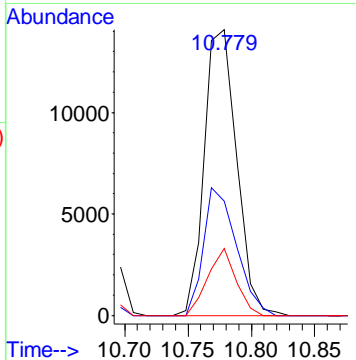
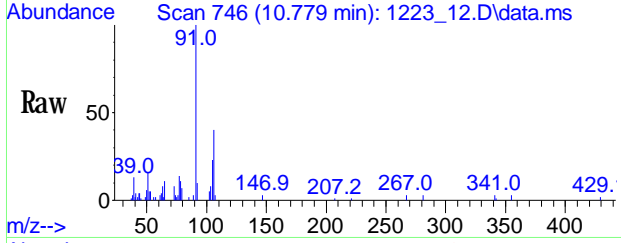
#53
 Tetrachloroethene
 Conc: 8S Below Cal
 RT: 10.094 min Scan# 680
 Delta R.T. -0.010 min
 Lab File: 1223_12.D
 Acq: 23 Dec 2020 10:46 pm

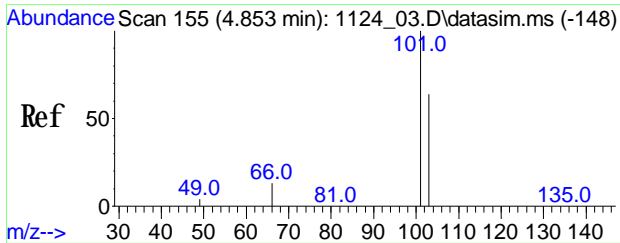
Tgt Ion	Ratio	Resp	Upper
166	100	3204	
164	88.9	64.3	96.5
129	88.7	58.3	87.5#



#58
 m,p-Xylene
 Conc: 8S 0.369 ppby
 RT: 10.779 min Scan# 746
 Delta R.T. 0.000 min
 Lab File: 1223_12.D
 Acq: 23 Dec 2020 10:46 pm

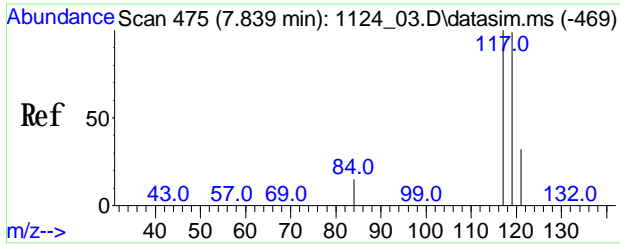
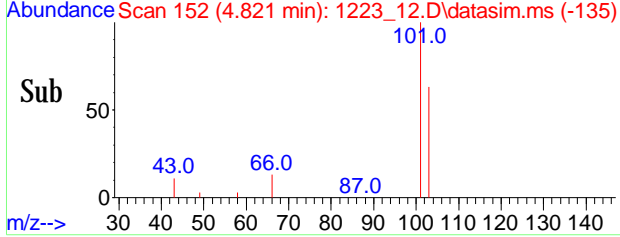
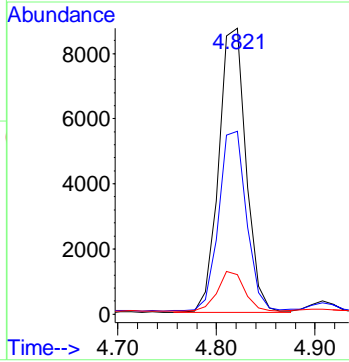
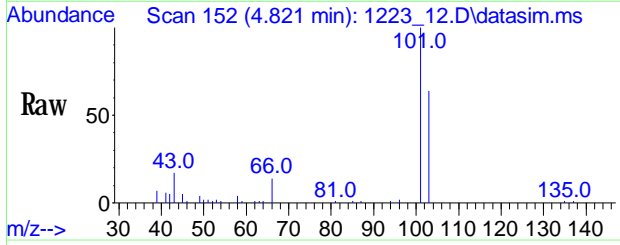
Tgt Ion	Ratio	Resp	Upper
91	100	25099	
106	45.4	39.5	59.3
105	20.4	19.0	28.6





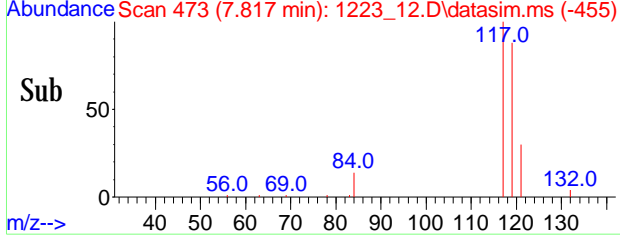
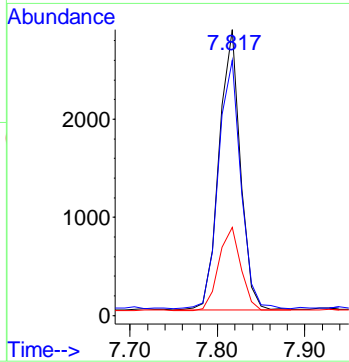
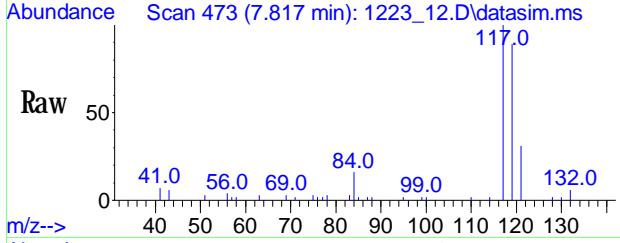
#85
 Trichlorofluoromethane(sim)
 Conc: 8S 0.296 ppbv
 RT: 4.821 min Scan# 152
 Delta R.T. -0.021 min
 Lab File: 1223_12.D
 Acq: 23 Dec 2020 10:46 pm

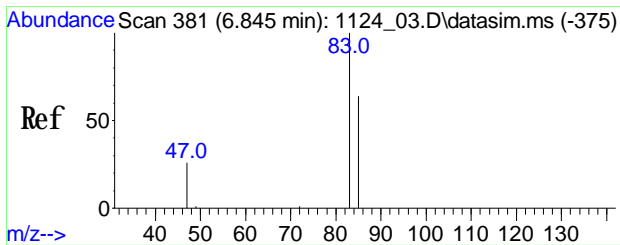
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	16922		
103	64.4	51.3		76.9
66	13.9	13.2		13.2#



#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.083 ppbv
 RT: 7.817 min Scan# 473
 Delta R.T. 0.000 min
 Lab File: 1223_12.D
 Acq: 23 Dec 2020 10:46 pm

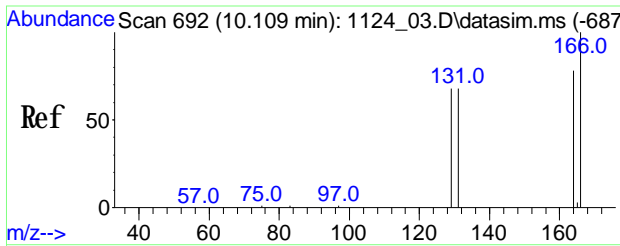
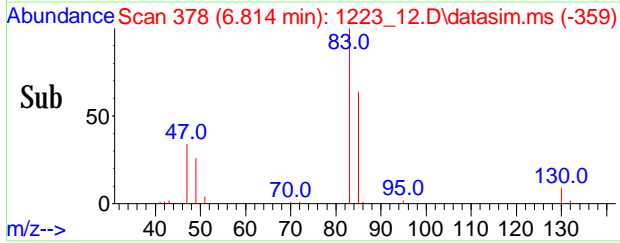
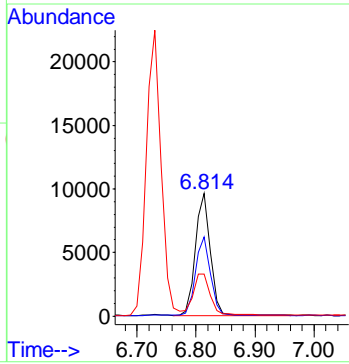
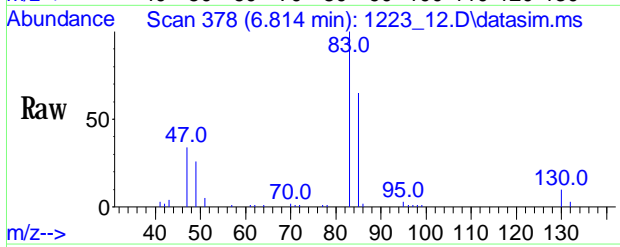
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4793		
119	93.0	76.8		115.2
121	31.2	25.1		37.7





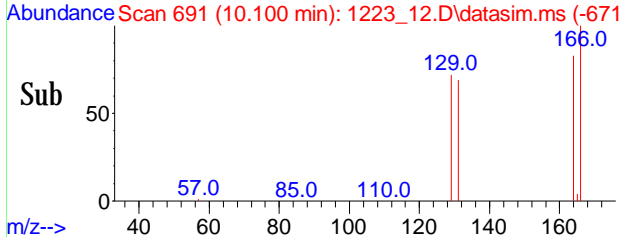
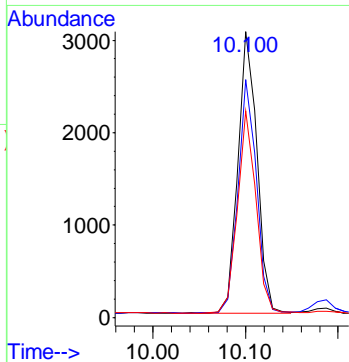
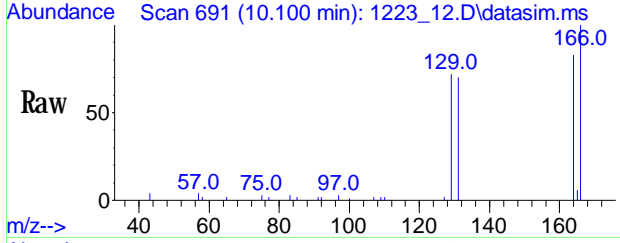
#95
 Chloroform(sim)
 Conc: 8S 0.344 ppbv
 RT: 6.814 min Scan# 378
 Delta R.T. 0.000 min
 Lab File: 1223_12.D
 Acq: 23 Dec 2020 10:46 pm

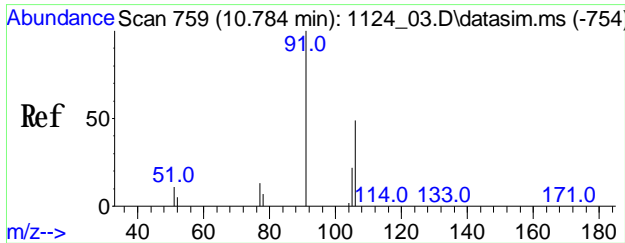
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	16743		
85	64.5	51.4	77.0	
47	39.1	29.2	43.8	



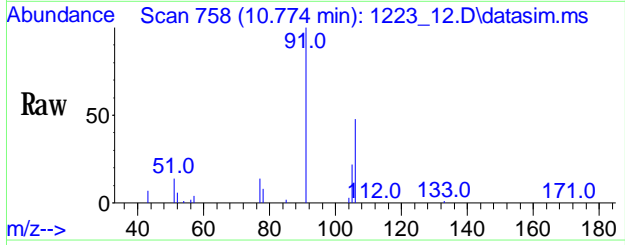
#105
 Tetrachloroethene(sim)
 Conc: 8S 0.098 ppbv
 RT: 10.100 min Scan# 691
 Delta R.T. -0.010 min
 Lab File: 1223_12.D
 Acq: 23 Dec 2020 10:46 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	4361		
164	80.6	58.8	98.8	
129	69.8	50.7	90.7	

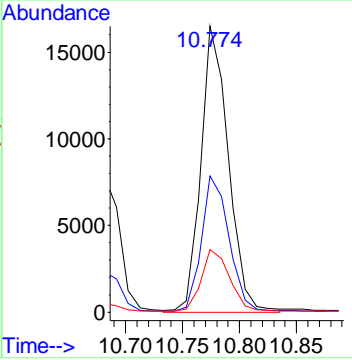
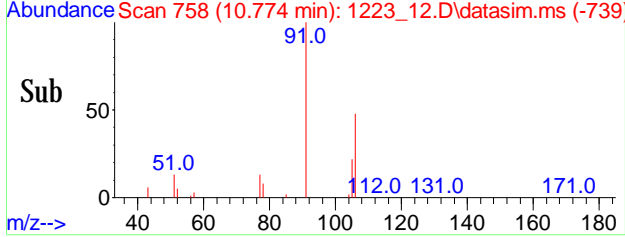




#108
 m p-Xylene (sim)
 Conc: 8S 0.340 ppbv
 RT: 10.779 min Scan# 758
 Delta R.T. 0.000 min
 Lab File: 1223_12.D
 Acq: 23 Dec 2020 10:46 pm



Tgt Ion	Ratio	Resp	Lower	Upper
91	100	25099		
106	45.4		44.5	54.3
105	20.4		19.0	28.6



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-4

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCH37250 Lab Sample ID: CH37254

Canister: 19589 Lab File ID: 1223_13.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 12/23/20

Purge Volume 200 (cc) Date Analyzed: 12/23/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.422		0.202	0.202	r
74-87-3	Chloromethane	0.533		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	16.8	S	0.531	0.531	r
67-64-1	Acetone	5.91	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.340		0.178	0.178	r
67-63-0	Isopropylalcohol	3.77	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.864	U	0.864	0.864	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.473		0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	1.26		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-4

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCH37250 Lab Sample ID: CH37254

Canister: 19589 Lab File ID: 1223_13.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 12/23/20

Purge Volume 200 (cc) Date Analyzed: 12/23/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.083		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.078		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.316		0.230	0.230	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_13.D
 Acq On : 23 Dec 2020 11:27 pm
 Operator :
 Client ID : IA-4
 Lab ID : CH37254
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 24 08:29:00 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

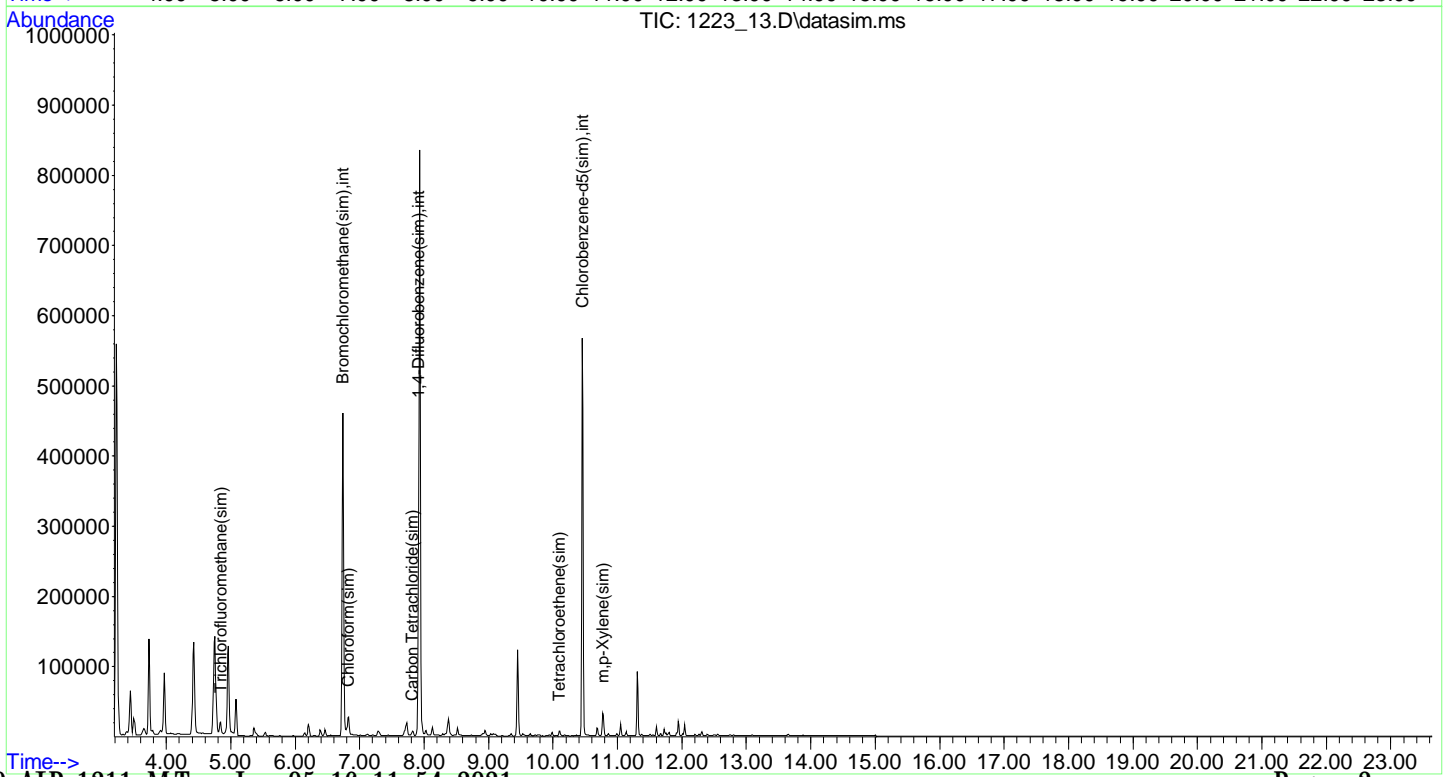
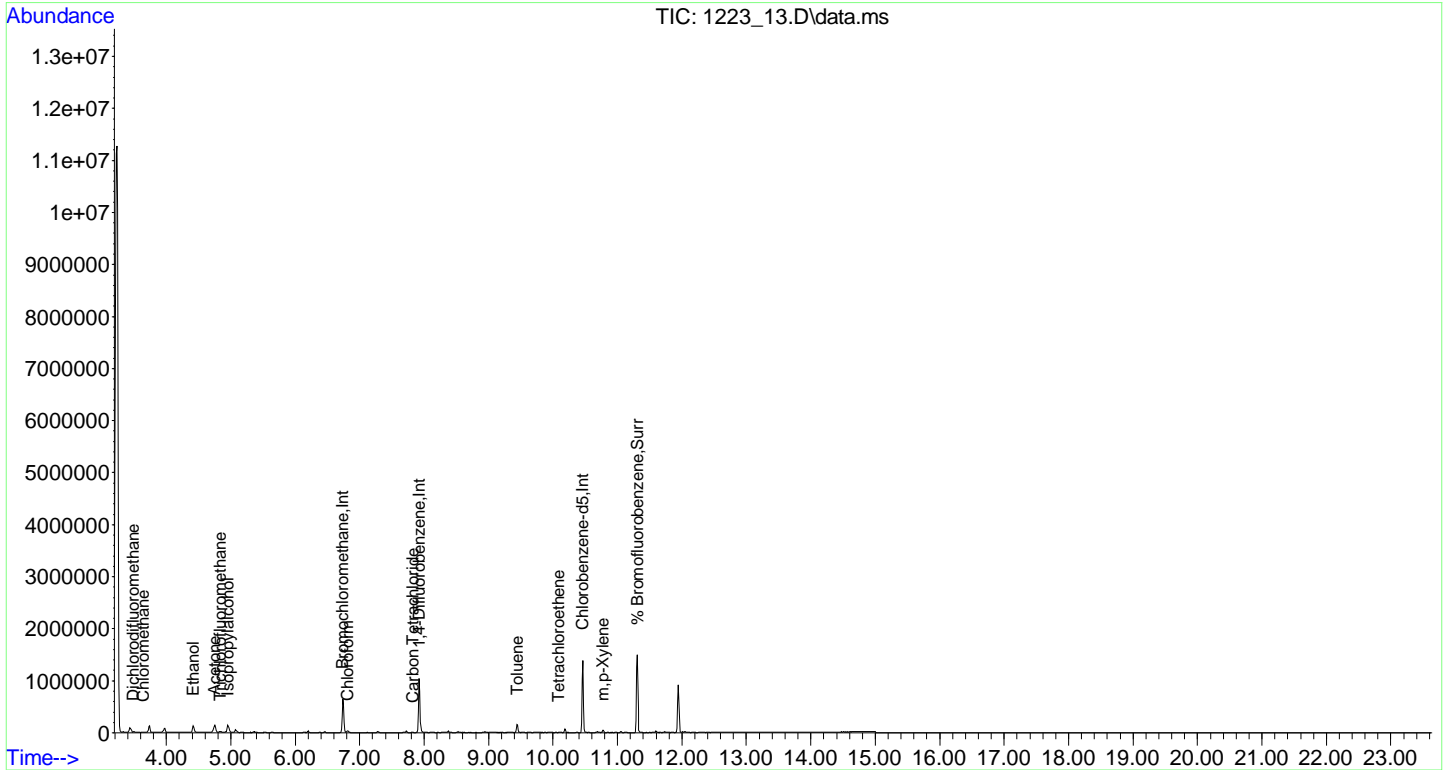
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.735	130	174710	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.922	114	686787	10.000	ng	0.00
54) Chlorobenzene-d5	10.461	82	319169	10.000	ng	0.00
81) Bromchloromethane(sim)	6.741	130	209225	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.922	114	686682	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.461	82	319169	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromfluorobenzene	11.312	95	371503	9.671	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	96.70%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.490	85	19441	0.422	ppbv	94
4) Chloromethane	3.641	50	9643	0.533	ppbv	88
11) Ethanol	4.417	45	147594	16.794	ppbv#	39
12) Acetone	4.751	43	184416	5.913	ppbv#	69
13) Trichlorofluoromethane	4.837	101	15983	0.340	ppbv	94
14) Isopropylalcohol	4.955	45	153090	3.770	ppbv#	96
28) Hexane	6.756	57	8515	0.282	ppbv#	77
29) Chloroform	6.819	83	19095	0.473	ppbv	98
35) Carbon Tetrachloride	7.822	117	4545	0.096	ppbv	92
49) Toluene	9.444	91	86520	1.256	ppbv	98
53) Tetrachloroethene	10.094	166	2548	0.070	ppbv	88
58) m p-Xylene	10.779	91	22444	0.342	ppbv	93
85) Trichlorofluoromethane...	4.843	101	16377	0.294	ppbv#	99
89) Carbon Tetrachloride(sim)	7.816	117	4656	0.082	ppbv	98
95) Chloroform(sim)	6.824	83	19464	0.412	ppbv	98
105) Tetrachloroethene(sim)	10.100	166	3455	0.078	ppbv	98
108) m p-Xylene(sim)	10.779	91	22444	0.316	ppbv	94

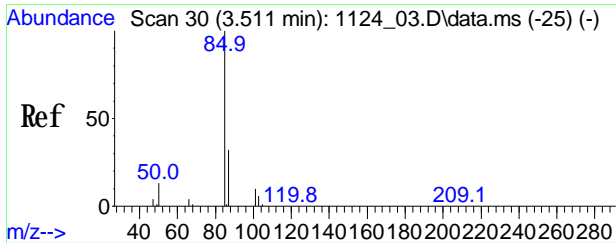
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
Data File : 1223_13.D
Acq On : 23 Dec 2020 11:27 pm
Operator :
Client ID : IA-4
Lab ID : CH37254
ALS Vial : 13 Sample Multiplier: 1

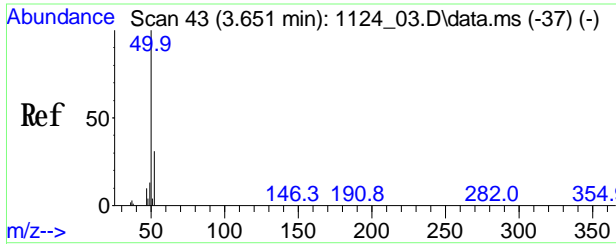
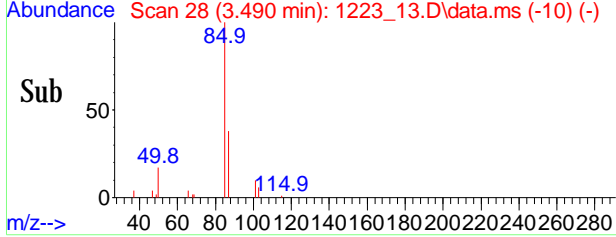
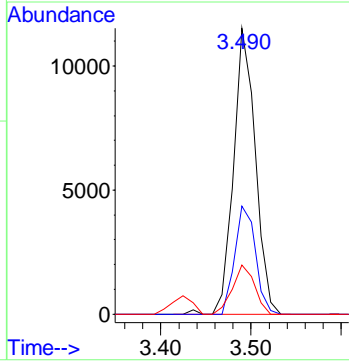
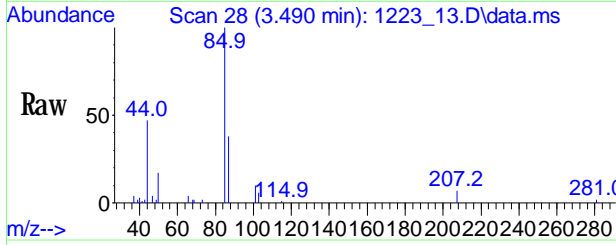
Quant Time: Dec 24 08:29:00 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Mon Dec 14 09:27:51 2020
Response via : Initial Calibration





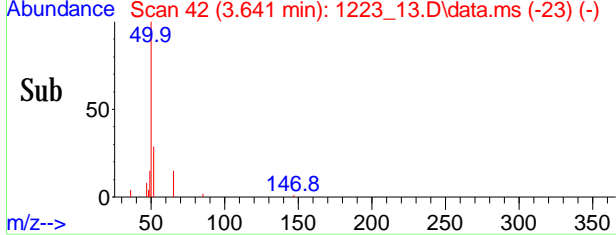
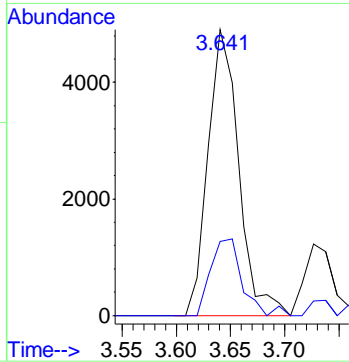
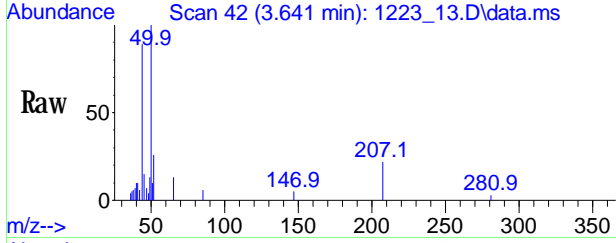
#3
 Dichlorodifluoromethane
 Conc: 8S 0.422 ppby
 RT: 3.490 min Scan# 28
 Delta R.T. -0.011 min
 Lab File: 1223_13.D
 Acq: 23 Dec 2020 11:27 pm

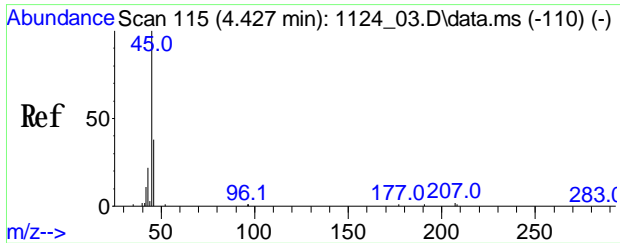
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	19441		
87	36.0	25.0	37.6	
50	17.5	13.1	19.7	



#4
 Chloromethane
 Conc: 8S 0.533 ppby
 RT: 3.641 min Scan# 42
 Delta R.T. -0.000 min
 Lab File: 1223_13.D
 Acq: 23 Dec 2020 11:27 pm

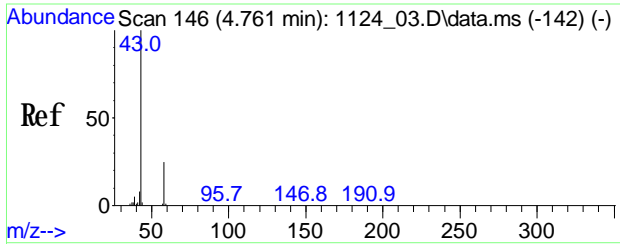
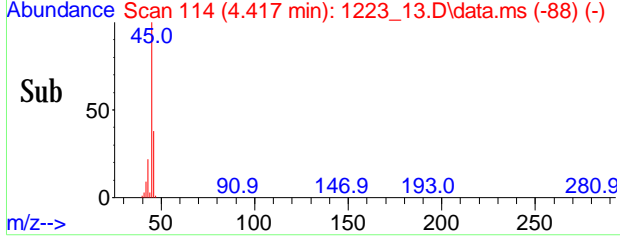
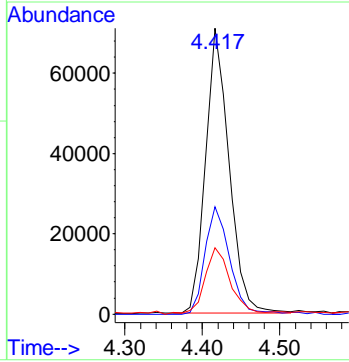
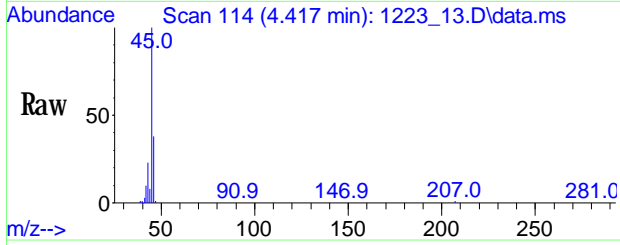
Tgt Ion	Ratio	Resp	Lower	Upper
50	100	9643		
52	27.5	14.7	54.7	





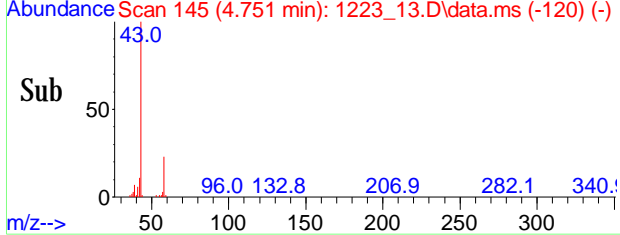
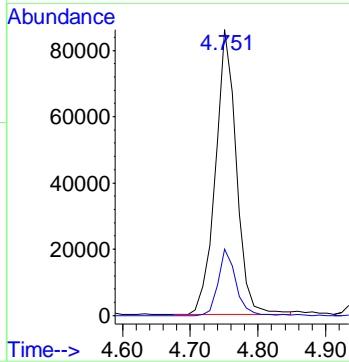
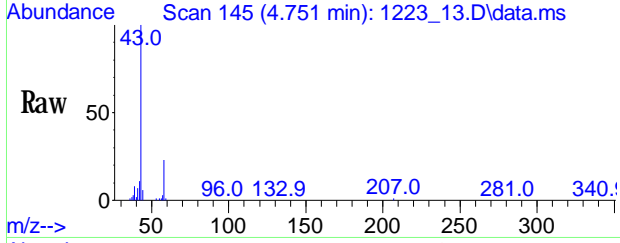
#11
 Ethanol
 Conc: 8S 16.794 ppbv
 RT: 4.417 min Scan# 114
 Delta R.T. -0.022 min
 Lab File: 1223_13.D
 Acq: 23 Dec 2020 11:27 pm

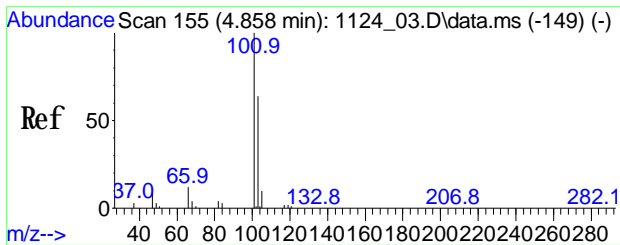
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	147594		
46	40.1	28.8	43.2	
43	25.1	85.8	128.6#	



#12
 Acetone
 Conc: 8S 5.913 ppbv
 RT: 4.751 min Scan# 145
 Delta R.T. -0.032 min
 Lab File: 1223_13.D
 Acq: 23 Dec 2020 11:27 pm

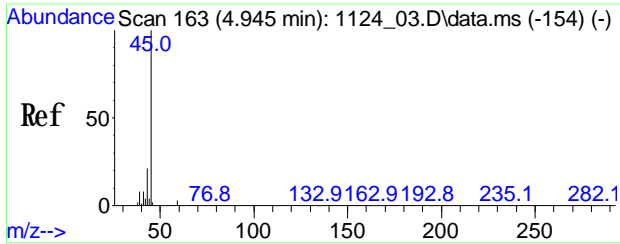
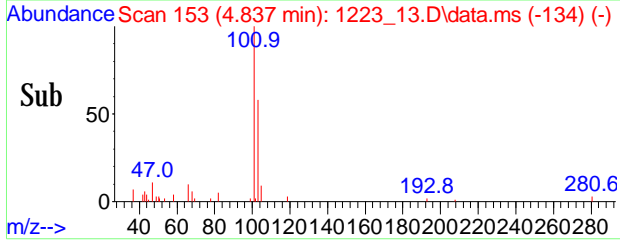
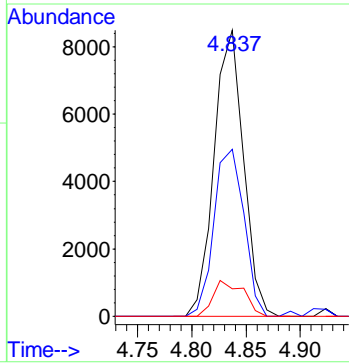
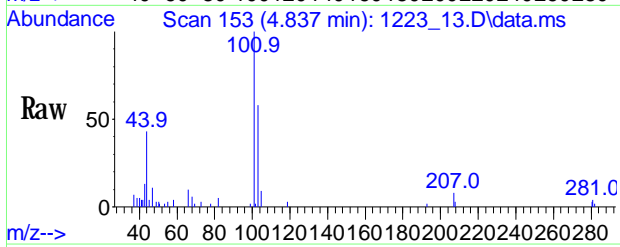
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	184416		
58	19.4	30.2	45.4#	





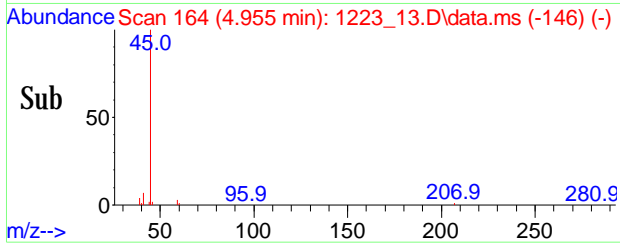
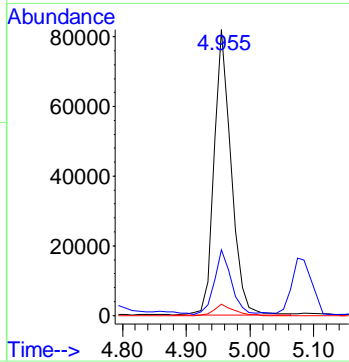
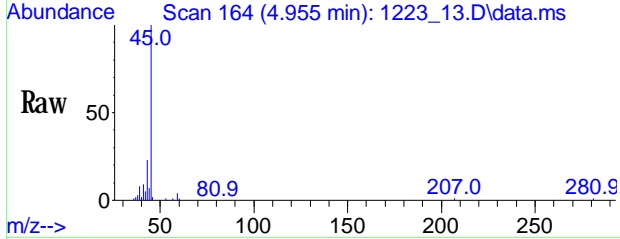
#13
 Trichlorofluoromethane
 Conc: 8S 0.340 ppbv
 RT: 4.837 min Scan# 153
 Delta R.T. -0.000 min
 Lab File: 1223_13.D
 Acq: 23 Dec 2020 11:27 pm

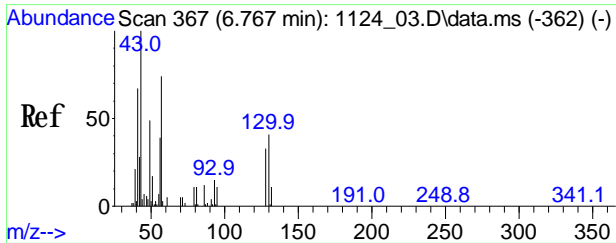
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	15983		
103	59.7	52.1		78.1
66	12.8	11.0		16.4



#14
 Isopropylalcohol
 Conc: 8S 3.770 ppbv
 RT: 4.955 min Scan# 164
 Delta R.T. -0.011 min
 Lab File: 1223_13.D
 Acq: 23 Dec 2020 11:27 pm

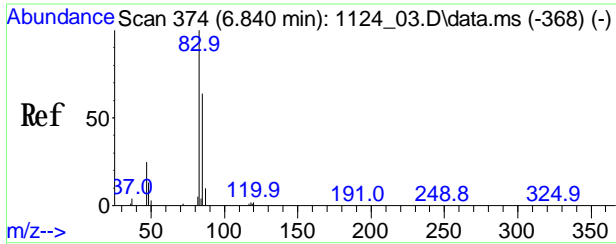
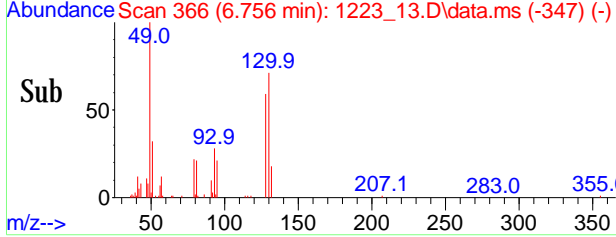
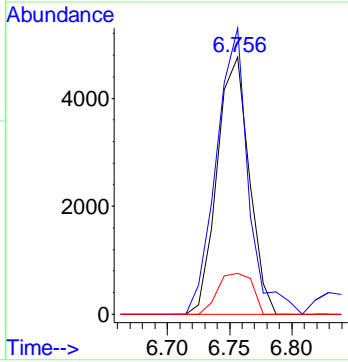
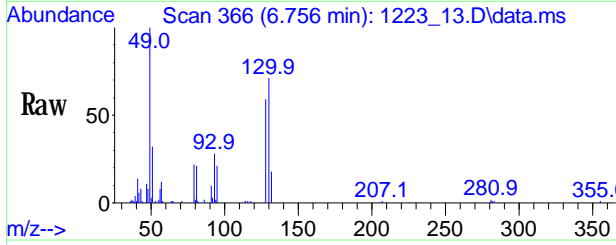
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	153090		
43	22.7	16.9		25.3
59	4.5	2.6		3.8#





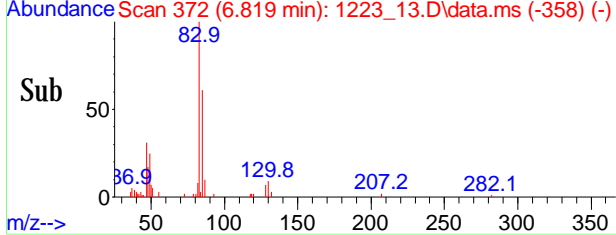
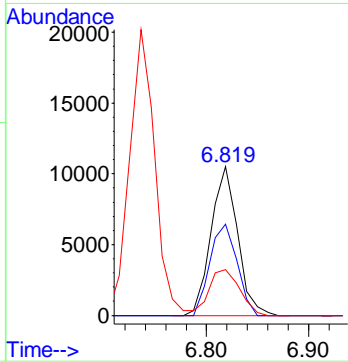
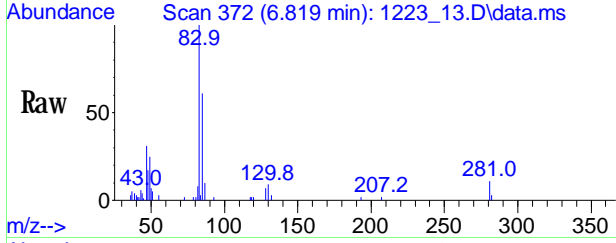
#28
 Hexane
 Conc: 8S 0.282 ppbv
 RT: 6.756 min Scan# 366
 Delta R.T. -0.000 min
 Lab File: 1223_13.D
 Acq: 23 Dec 2020 11:27 pm

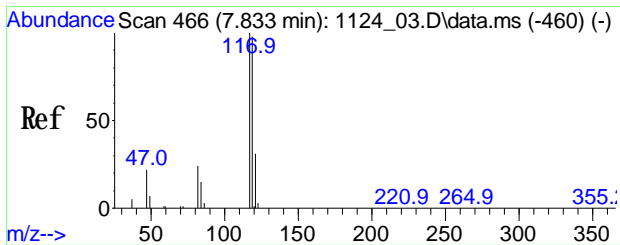
Tgt Ion	Ratio	Resp	Upper
57	100	8515	
41	110.1	69.4	104.0#
86	17.1	11.4	17.2



#29
 Chloroform
 Conc: 8S 0.473 ppbv
 RT: 6.819 min Scan# 372
 Delta R.T. -0.000 min
 Lab File: 1223_13.D
 Acq: 23 Dec 2020 11:27 pm

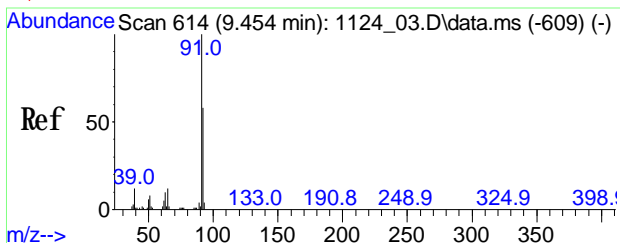
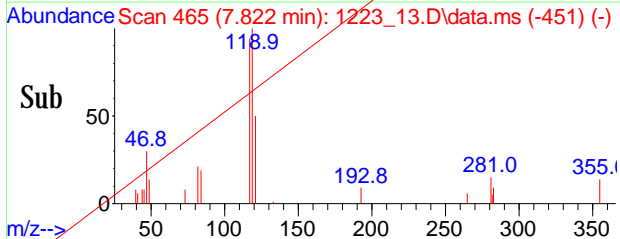
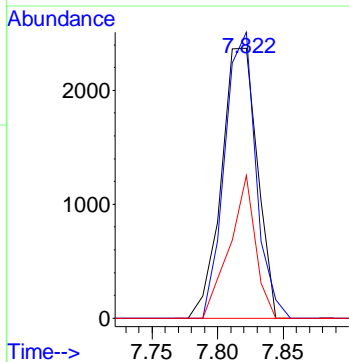
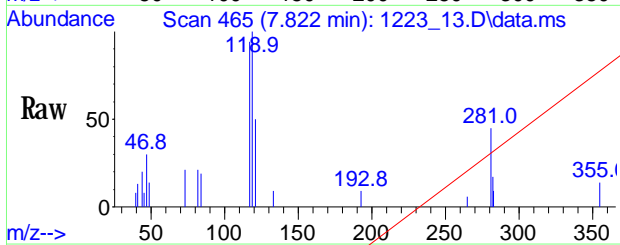
Tgt Ion	Ratio	Resp	Upper
83	100	19095	
85	62.7	41.7	81.7
47	36.3	14.7	54.7





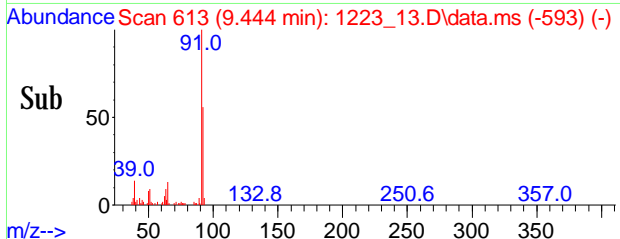
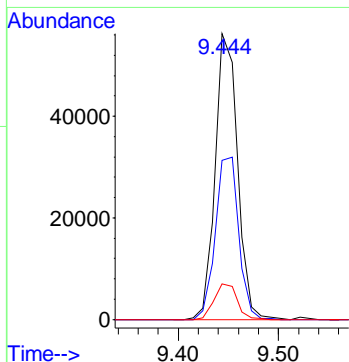
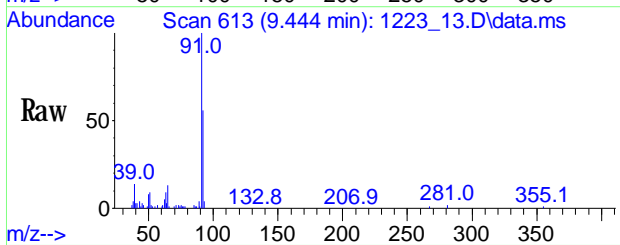
#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 7.822 min Scan# 465
 Delta R.T. 0.011 min
 Lab File: 1223_13.D
 Acq: 23 Dec 2020 11:27 pm

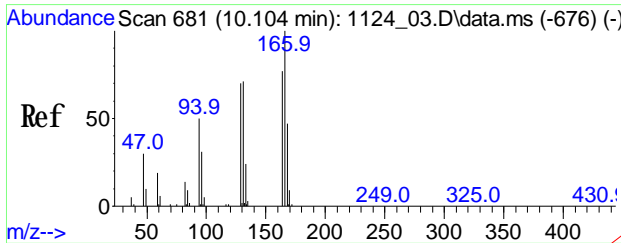
Tgt Ion	Ratio	Resp	Upper
117	100	4545	
119	92.0	78.9	118.9
121	38.1	11.5	51.5



#49
 Toluene
 Conc: 8S 1.256 ppby
 RT: 9.444 min Scan# 613
 Delta R.T. -0.010 min
 Lab File: 1223_13.D
 Acq: 23 Dec 2020 11:27 pm

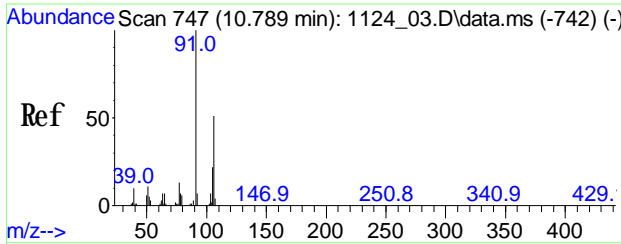
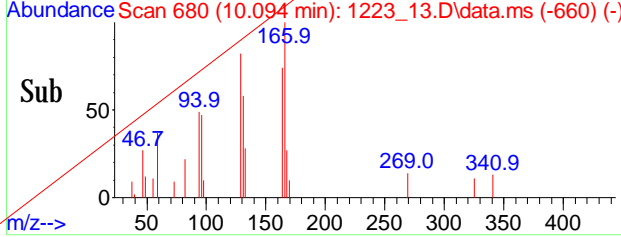
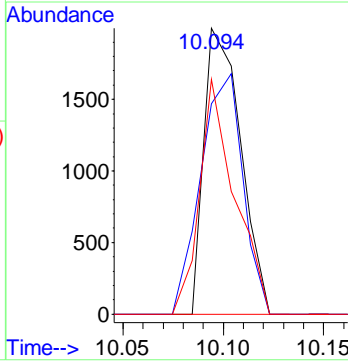
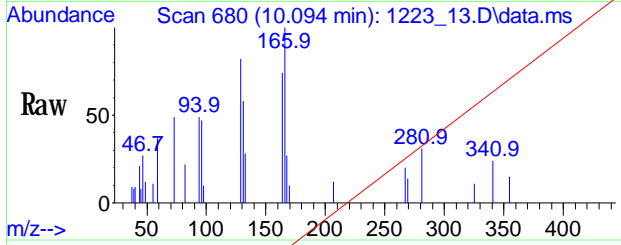
Tgt Ion	Ratio	Resp	Upper
91	100	86520	
92	59.3	48.2	72.2
65	12.7	11.2	16.8





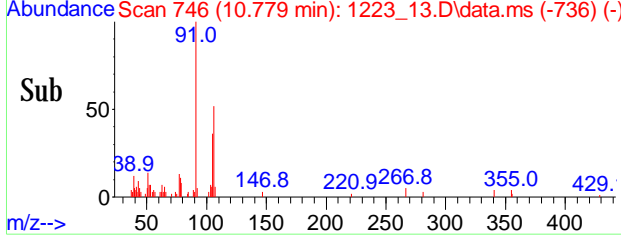
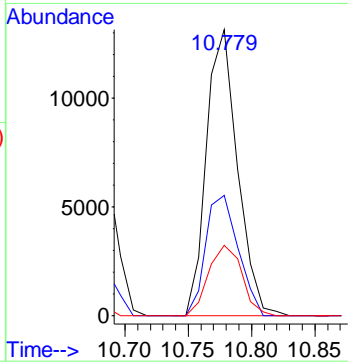
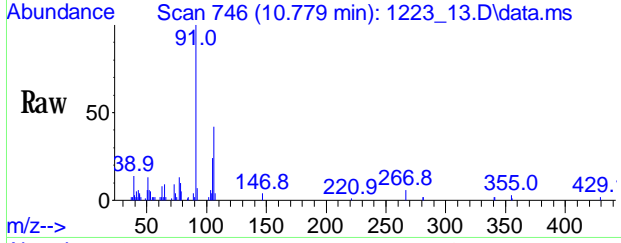
#53
~~Tetrachloroethene~~
 Conc: 8S Below Cal
 RT: 10.094 min Scan# 680
 Delta R.T. -0.010 min
 Lab File: 1223_13.D
 Acq: 23 Dec 2020 11:27 pm

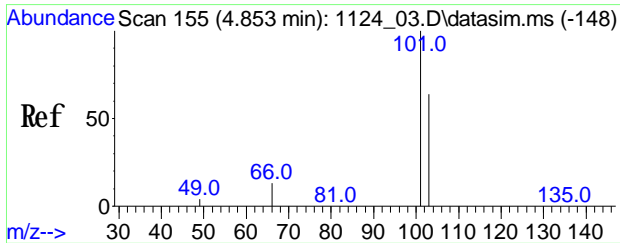
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	2548		
164	96.3	64.3	96.5	
129	78.2	58.3	87.5	



#58
 m,p-Xylene
 Conc: 8S 0.342 ppbv
 RT: 10.779 min Scan# 746
 Delta R.T. -0.000 min
 Lab File: 1223_13.D
 Acq: 23 Dec 2020 11:27 pm

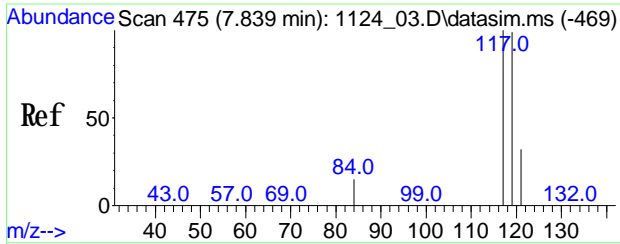
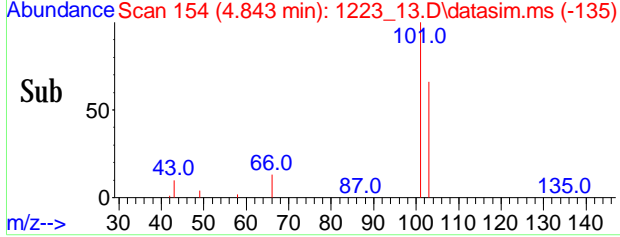
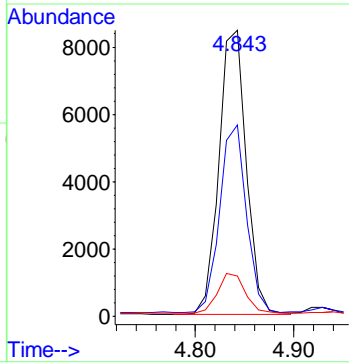
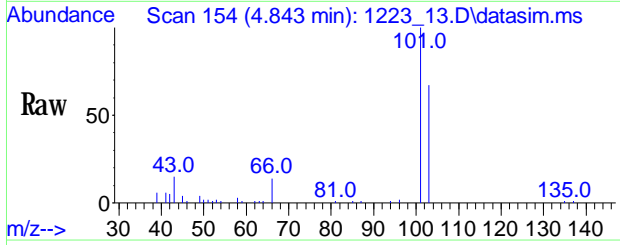
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	22444		
106	44.1	39.5	59.3	
105	26.2	19.0	28.6	





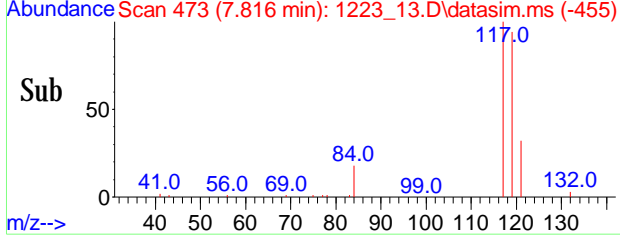
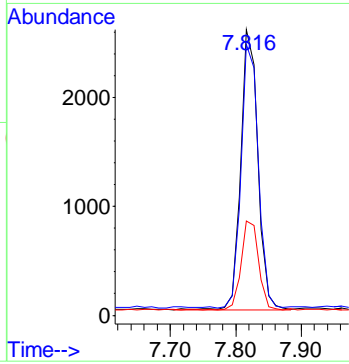
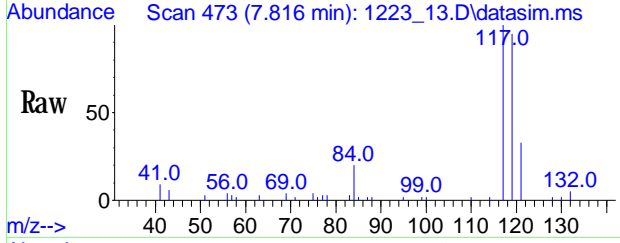
#85
 Trichlorofluoromethane(sim)
 Conc: 8S 0.294 ppbv
 RT: 4.843 min Scan# 154
 Delta R.T. -0.000 min
 Lab File: 1223_13.D
 Acq: 23 Dec 2020 11:27 pm

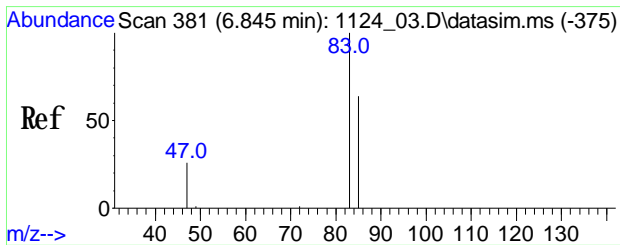
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	16377		
103	64.7	51.3		76.9
66	14.2	13.2		13.2#



#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.082 ppbv
 RT: 7.816 min Scan# 473
 Delta R.T. -0.000 min
 Lab File: 1223_13.D
 Acq: 23 Dec 2020 11:27 pm

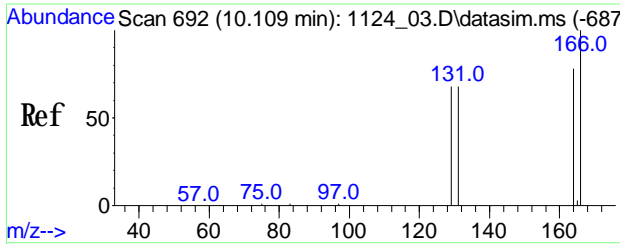
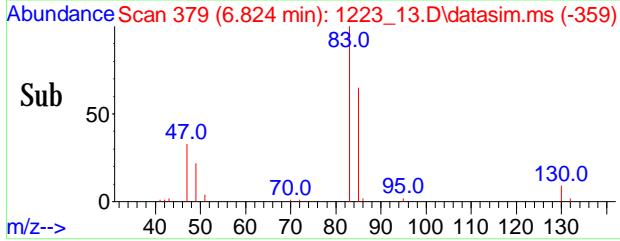
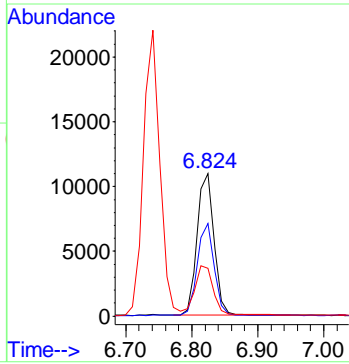
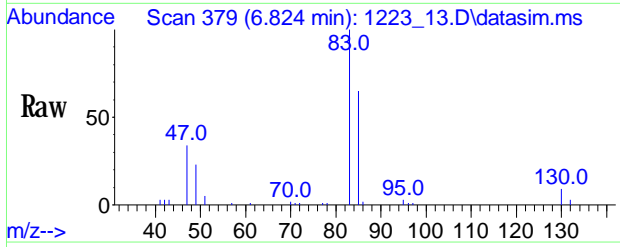
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4656		
119	94.6	76.8		115.2
121	32.8	25.1		37.7





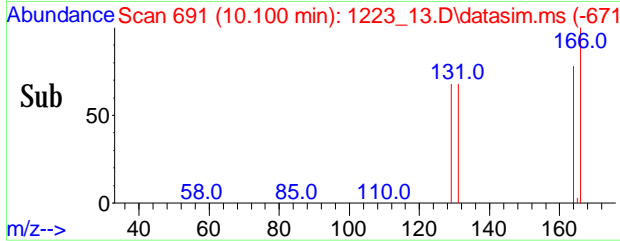
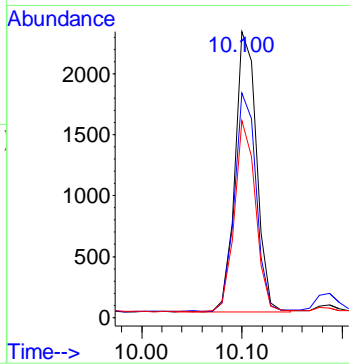
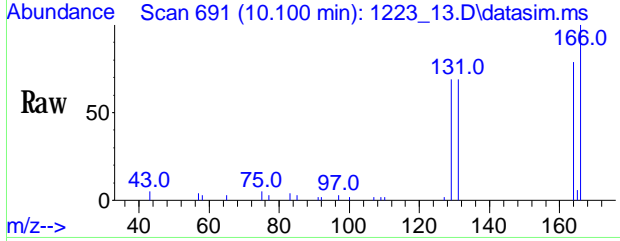
#95
 Chloroform(sim)
 Conc: 8S 0.412 ppbv
 RT: 6.824 min Scan# 379
 Delta R.T. 0.010 min
 Lab File: 1223_13.D
 Acq: 23 Dec 2020 11:27 pm

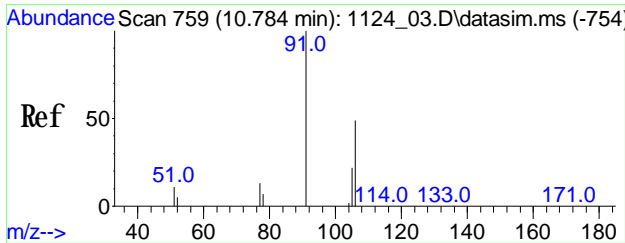
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	19464		
85	63.8	51.4	77.0	
47	38.4	29.2	43.8	



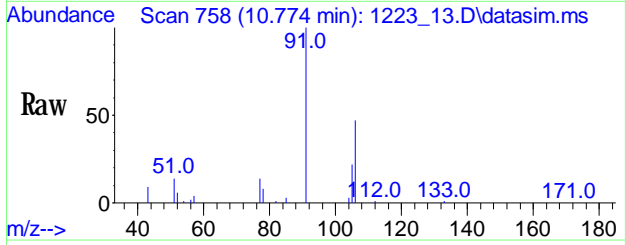
#105
 Tetrachloroethene(sim)
 Conc: 8S 0.078 ppbv
 RT: 10.100 min Scan# 691
 Delta R.T. -0.010 min
 Lab File: 1223_13.D
 Acq: 23 Dec 2020 11:27 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	3455		
164	78.8	58.8	98.8	
129	66.6	50.7	90.7	

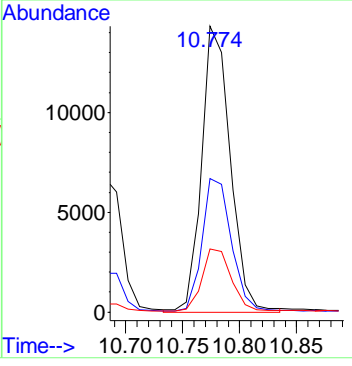
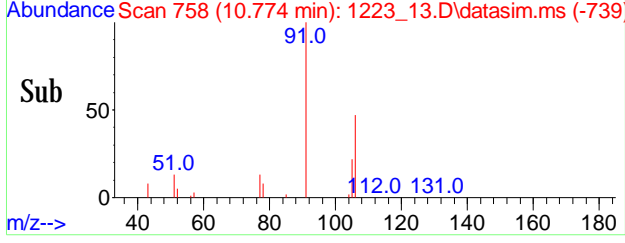




#108
 m p-Xylene (sim)
 Conc: 8S 0.316 ppbv
 RT: 10.779 min Scan# 758
 Delta R.T. -0.000 min
 Lab File: 1223_13.D
 Acq: 23 Dec 2020 11:27 pm



Tgt Ion	Ratio	Resp	Lower	Upper
91	100	22444		
106	44.6	44.5		54.3
105	25.7	19.0		28.6



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-3

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCH37250	Lab Sample ID:	CH37255
Canister:	28596	Lab File ID:	1223_14.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	Date Received: 12/23/20
Matrix:	AIR	Dilution Factor:	1
		Date Analyzed:	12/24/20

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.632		0.202	0.202	r
74-87-3	Chloromethane	0.529		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	41.3	ES	0.531	0.531	r
67-64-1	Acetone	8.78	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.341		0.178	0.178	r
67-63-0	Isopropylalcohol	6.76	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.864	U	0.864	0.864	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.416		0.339	0.339	r
110-54-3	Hexane	0.485	S	0.284	0.284	r
67-66-3	Chloroform	0.812		0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.352		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.951		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene	0.440		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-3

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCH37250	Lab Sample ID:	CH37255
Canister:	28596	Lab File ID:	1223_14.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200 (cc)	Date Received:	12/23/20
Matrix:	AIR	Date Analyzed:	12/24/20
		Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.089		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.108		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_14.D
 Acq On : 24 Dec 2020 12:08 am
 Operator :
 Client ID : IA-3
 Lab ID : CH37255
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 24 08:29:59 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

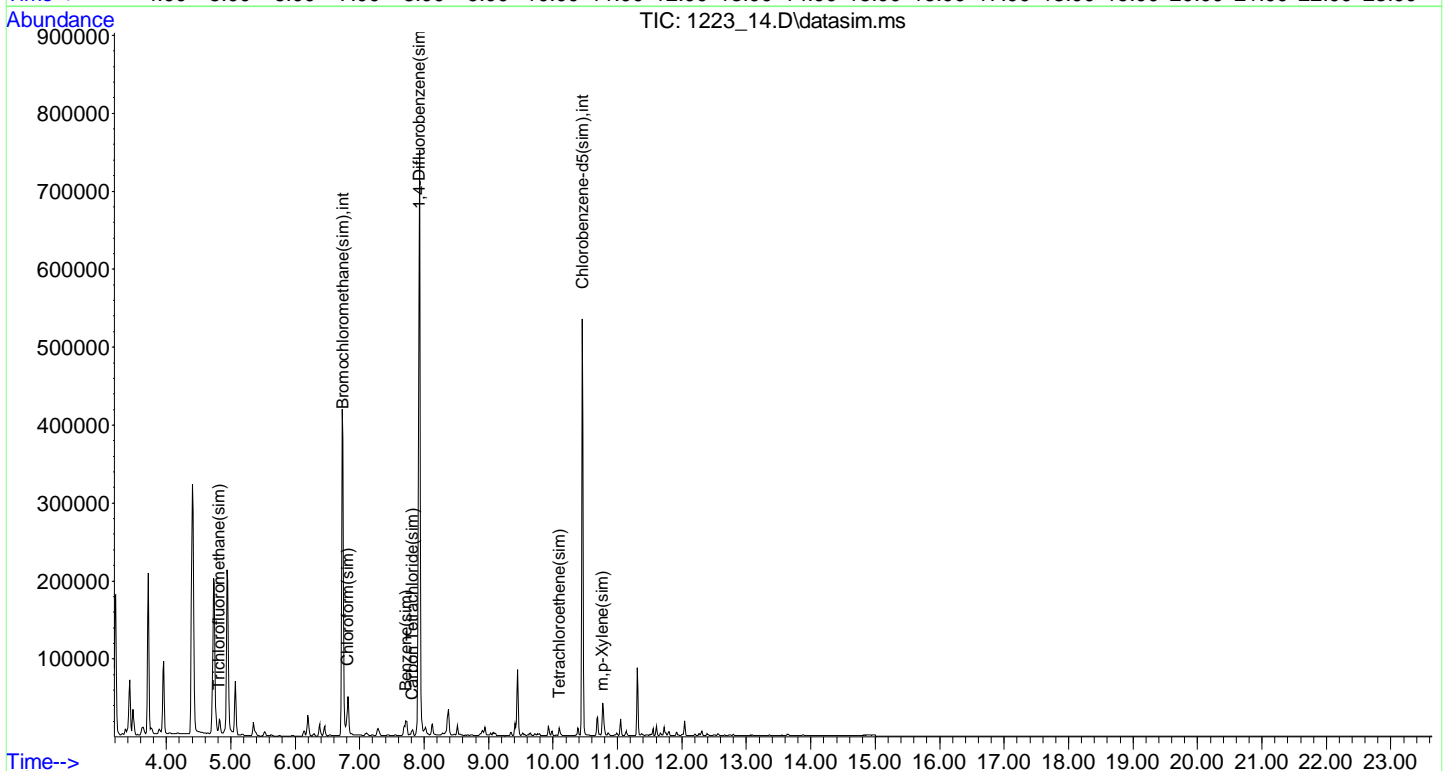
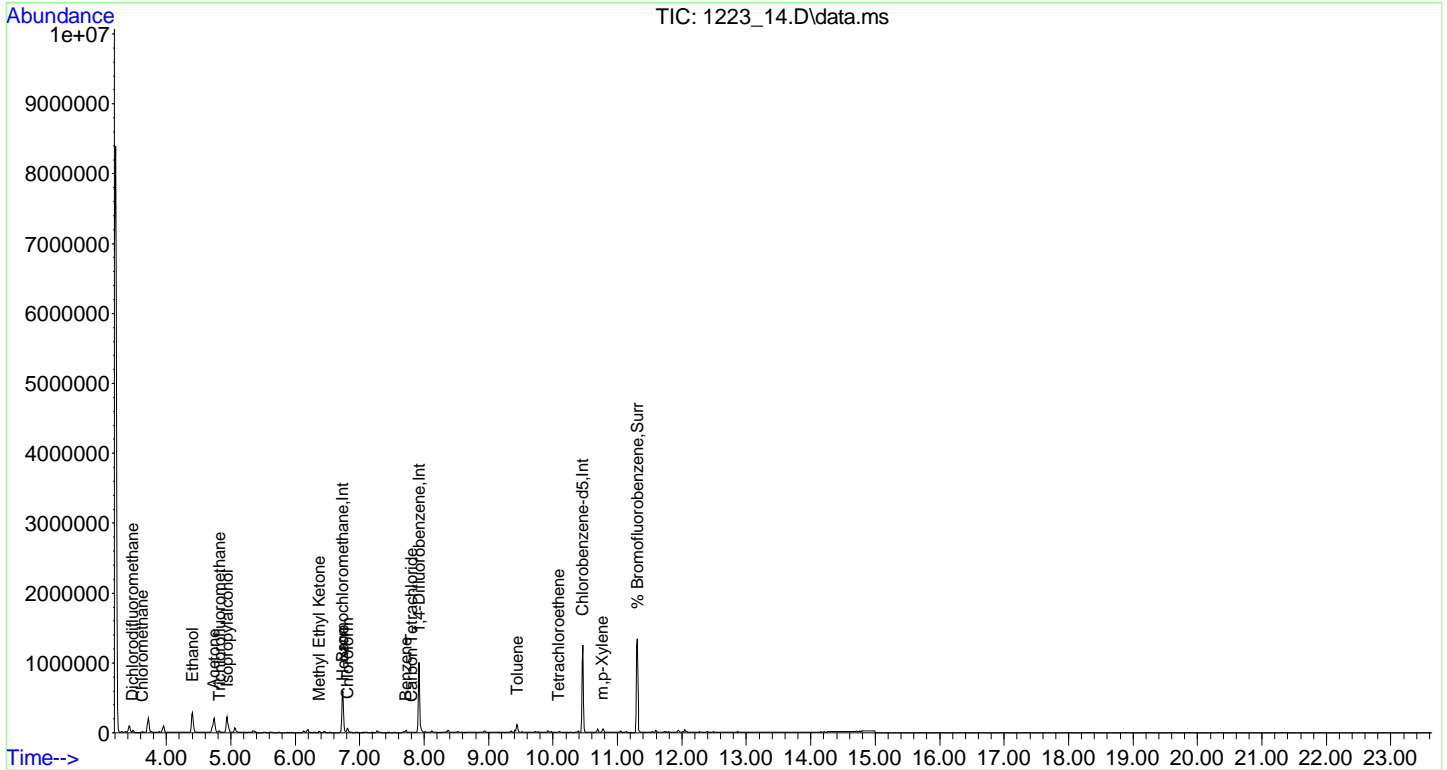
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.736	130	171569	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.922	114	626717	10.000	ng	0.00
54) Chlorobenzene-d5	10.461	82	297369	10.000	ng	0.00
81) Bromchloromethane(sim)	6.741	130	199662	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.922	114	626717	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.461	82	297485	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromfluorobenzene	11.312	95	348008	9.723	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.20%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.479	85	28594	0.632	ppbv	96
4) Chloromethane	3.630	50	9404	0.529	ppbv	89
11) Ethanol	4.406	45	356811	41.342	ppbv#	39
12) Acetone	4.740	43	268822	8.777	ppbv#	69
13) Trichlorofluoromethane	4.826	101	15750	0.341	ppbv#	97
14) Isopropylalcohol	4.945	45	269717	6.763	ppbv	96
26) Methyl Ethyl Ketone	6.372	43	20121	0.416	ppbv#	92
28) Hexane	6.746	57	14358	0.485	ppbv#	79
29) Chloroform	6.808	83	32206	0.812	ppbv	92
34) Benzene	7.722	78	18223	0.352	ppbv	98
35) Carbon Tetrachloride	7.811	117	4489	0.096	ppbv	96
49) Toluene	9.444	91	59810	0.951	ppbv	94
53) Tetrachloroethene	10.094	166	3426	0.104	ppbv	90
58) m p-Xylene	10.768	91	26914	0.440	ppbv	98
85) Trichlorofluoromethane...	4.821	101	16671	0.314	ppbv#	99
88) Benzene(sim)	7.722	78	18223	0.310	ppbv	98
89) Carbon Tetrachloride(sim)	7.816	117	4810	0.089	ppbv	99
95) Chloroform(sim)	6.814	83	36050	0.799	ppbv	100
105) Tetrachloroethene(sim)	10.100	166	4376	0.108	ppbv	97
108) m p-Xylene(sim)	10.768	91	26914	0.406	ppbv	98

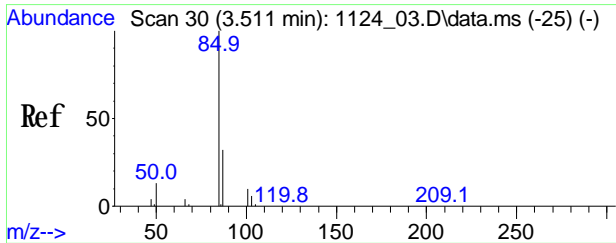
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
Data File : 1223_14.D
Acq On : 24 Dec 2020 12:08 am
Operator :
Client ID : IA-3
Lab ID : CH37255
ALS Vial : 14 Sample Multiplier: 1

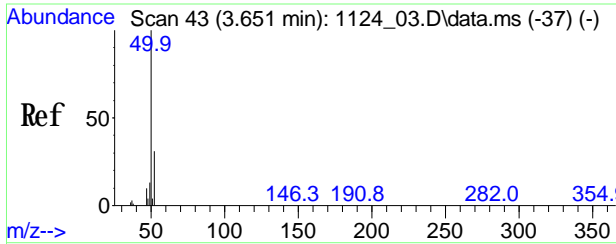
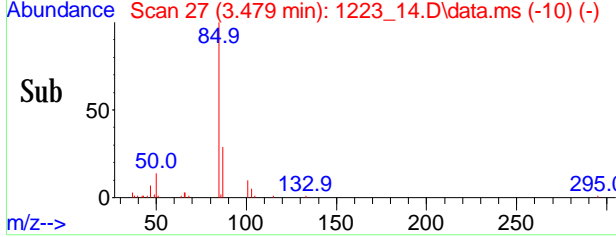
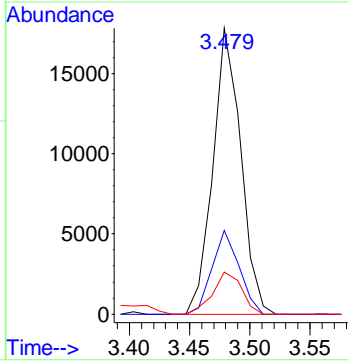
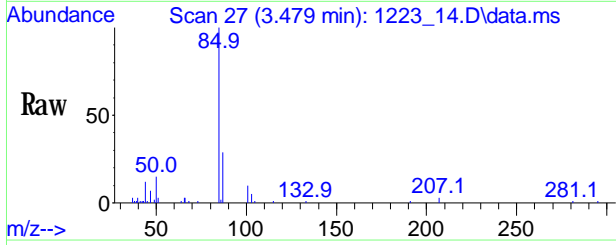
Quant Time: Dec 24 08:29:59 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Mon Dec 14 09:27:51 2020
Response via : Initial Calibration





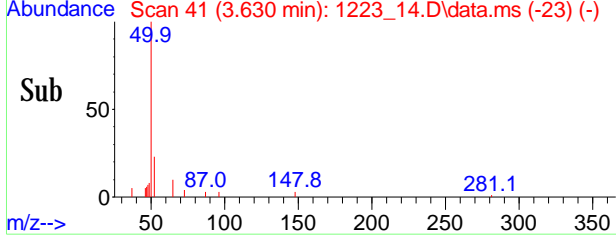
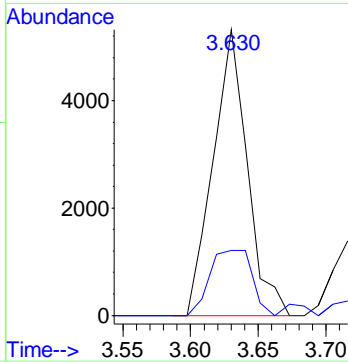
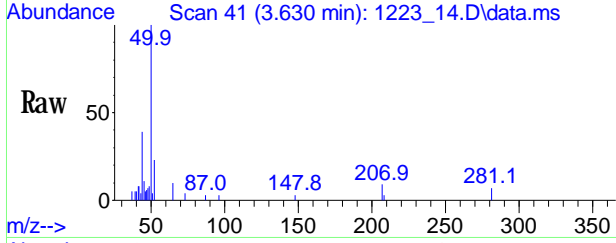
#3
 Dichlorodifluoromethane
 Conc: 8S 0.632 ppbv
 RT: 3.479 min Scan# 27
 Delta R.T. -0.022 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

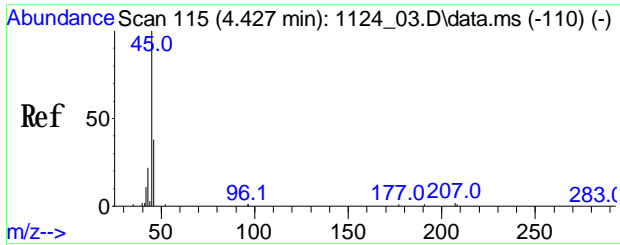
Tgt Ion	Ratio	Resp	Upper
85	100	28594	
87	28.4	25.0	37.6
50	15.3	13.1	19.7



#4
 Chloromethane
 Conc: 8S 0.529 ppbv
 RT: 3.630 min Scan# 41
 Delta R.T. -0.011 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

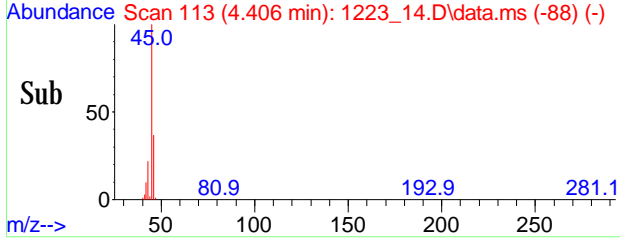
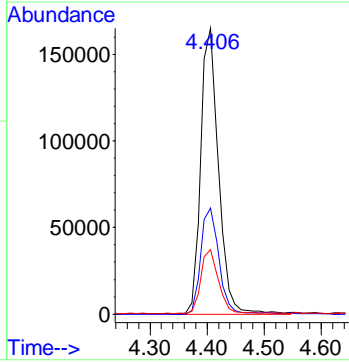
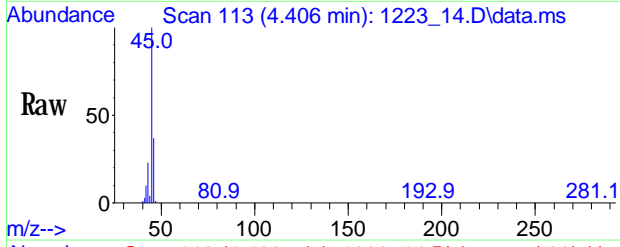
Tgt Ion	Ratio	Resp	Upper
50	100	9404	
52	28.2	14.7	54.7





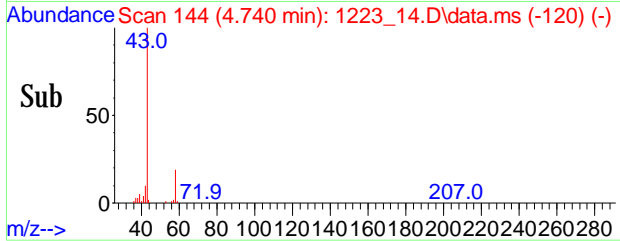
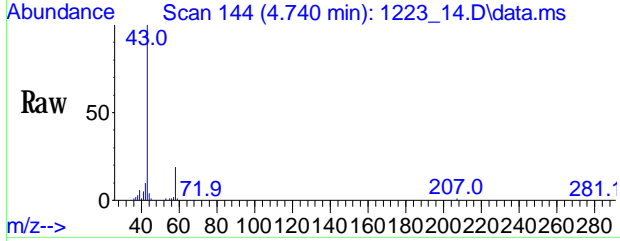
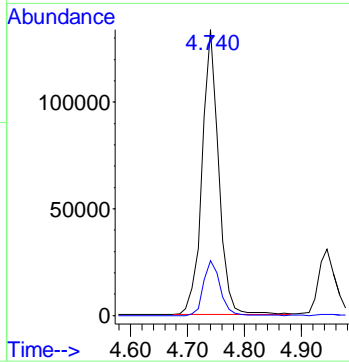
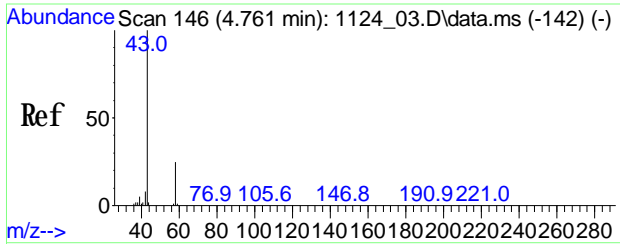
#11
 Ethanol
 Conc: 8S 41.342 ppbv
 RT: 4.406 min Scan# 113
 Delta R.T. -0.032 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

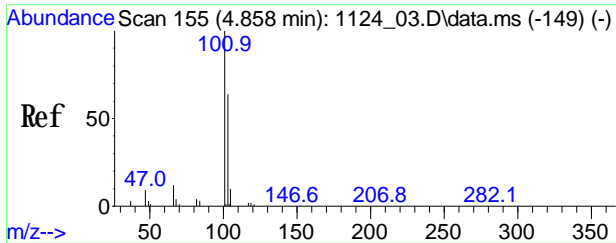
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	356811		
46	37.2	28.8		43.2
43	22.5	85.8		128.6#



#12
 Acetone
 Conc: 8S 8.777 ppbv
 RT: 4.740 min Scan# 144
 Delta R.T. -0.043 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

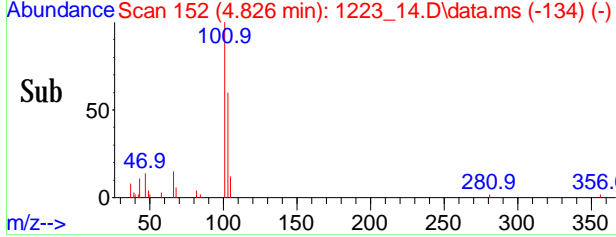
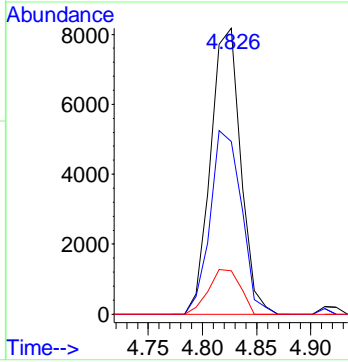
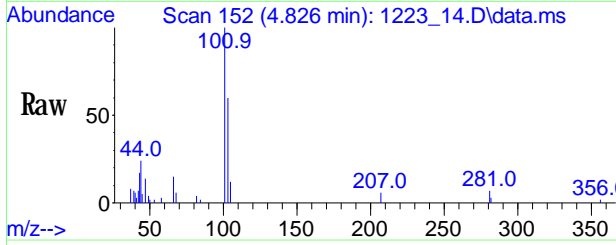
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	268822		
58	19.2	30.2		45.4#





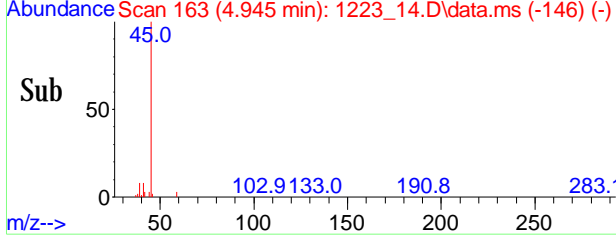
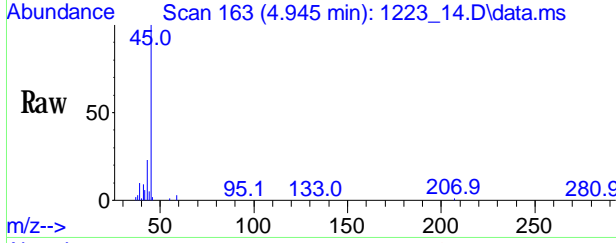
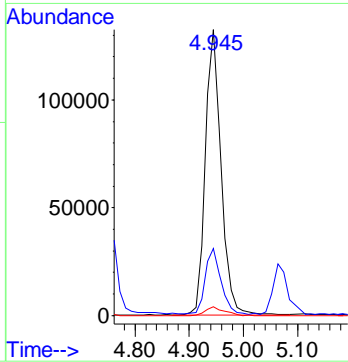
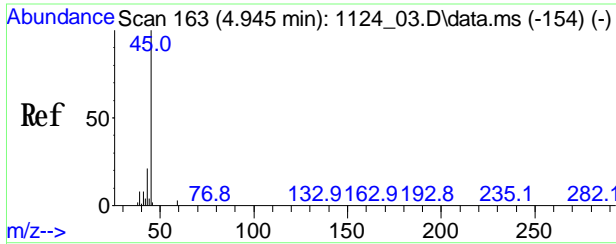
#13
 Trichlorofluoromethane
 Conc: 8S 0.341 ppby
 RT: 4.826 min Scan# 152
 Delta R.T. -0.011 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

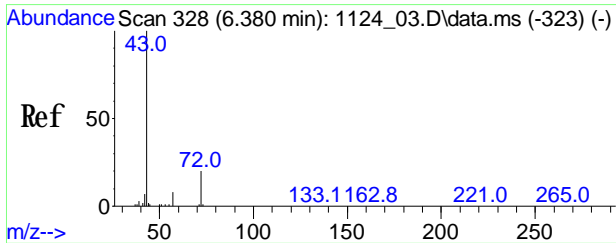
Tgt Ion	Ratio	Resp	Upper
101	100	15750	
103	66.7	52.1	78.1
66	16.5	11.0	16.4#



#14
 Isopropylalcohol
 Conc: 8S 6.763 ppby
 RT: 4.945 min Scan# 163
 Delta R.T. -0.022 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

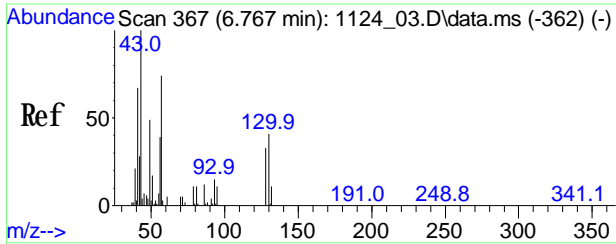
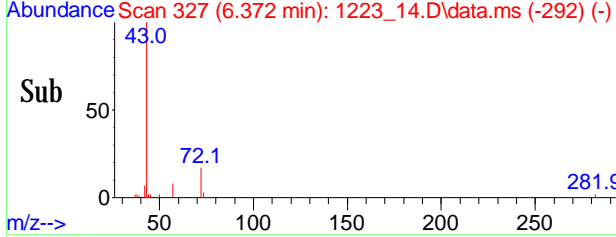
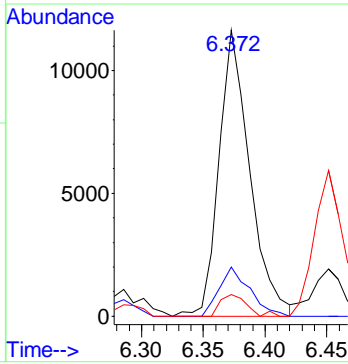
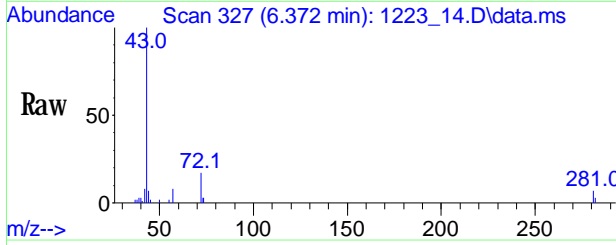
Tgt Ion	Ratio	Resp	Upper
45	100	269717	
43	23.0	16.9	25.3
59	3.5	2.6	3.8





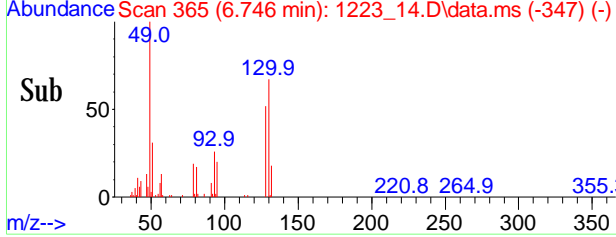
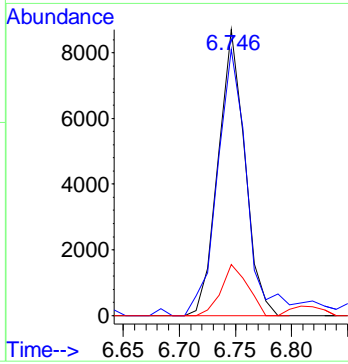
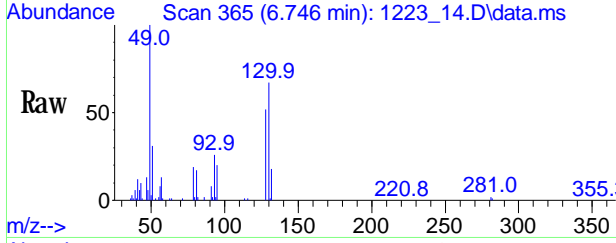
#26
 Methyl Ethyl Ketone
 Conc: 8S 0.416 ppby
 RT: 6.372 min Scan# 327
 Delta R.T. -0.024 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

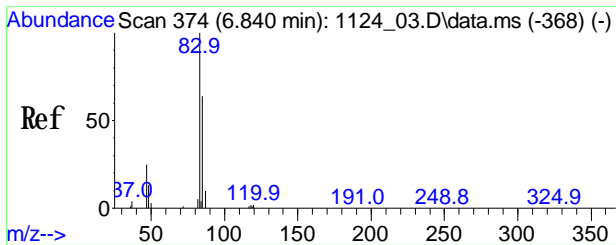
Tgt Ion	Ratio	Resp	Upper
43	100	20121	
72	17.0	11.0	16.4#
57	6.6	7.4	11.0#



#28
 Hexane
 Conc: 8S 0.485 ppby
 RT: 6.746 min Scan# 365
 Delta R.T. -0.010 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

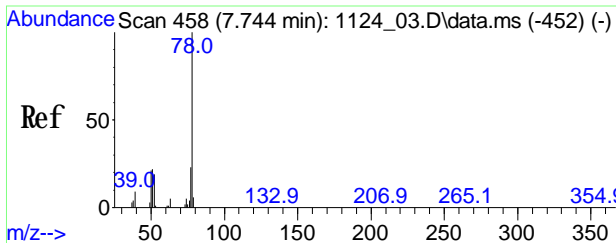
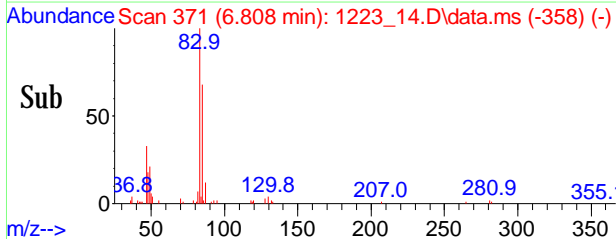
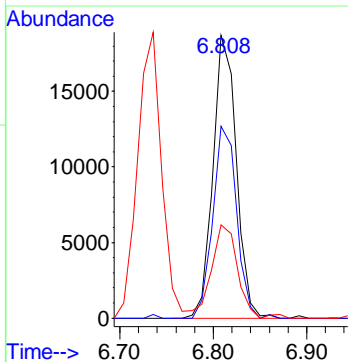
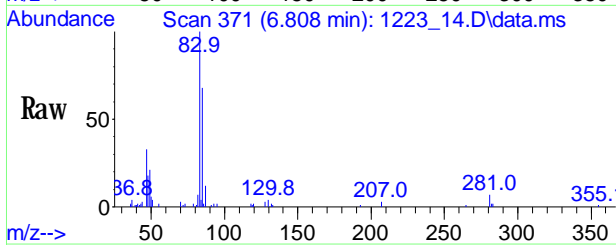
Tgt Ion	Ratio	Resp	Upper
57	100	14358	
41	108.5	69.4	104.0#
86	17.7	11.4	17.2#





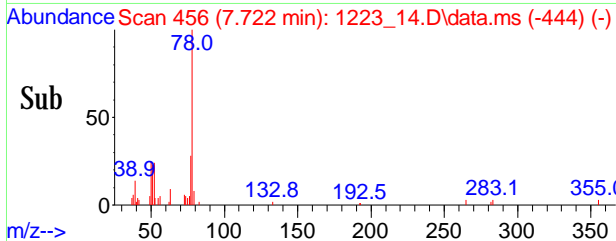
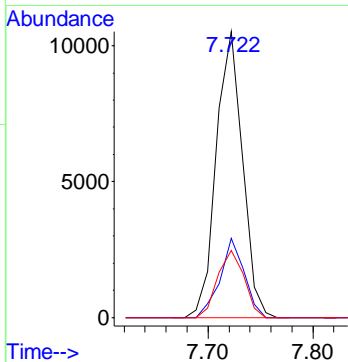
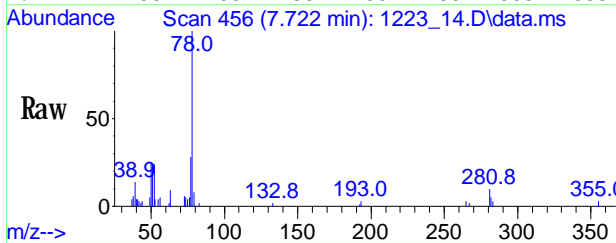
#29
Chloroform
 Conc: 8S 0.812 ppbv
 RT: 6.808 min Scan# 371
 Delta R.T. -0.010 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

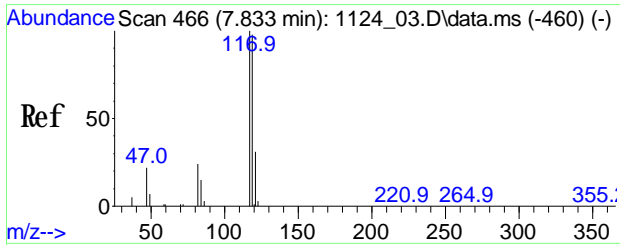
Tgt Ion	Ratio	Resp	Upper
83	100	32206	
85	69.3	41.7	81.7
47	37.6	14.7	54.7



#34
Benzene
 Conc: 8S 0.352 ppbv
 RT: 7.722 min Scan# 456
 Delta R.T. 0.000 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

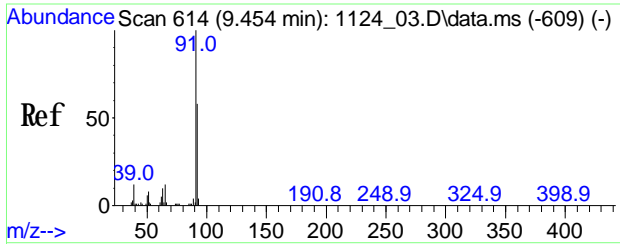
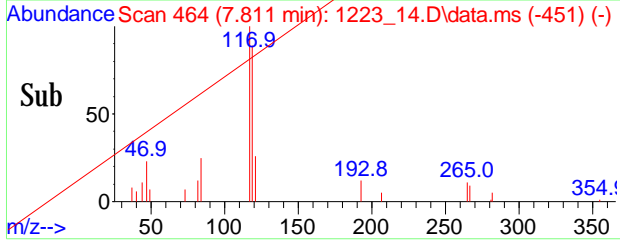
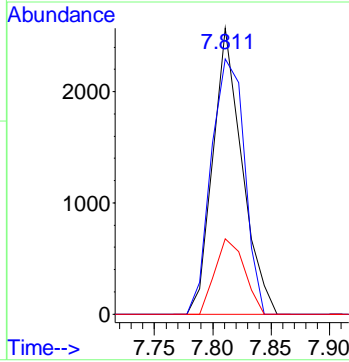
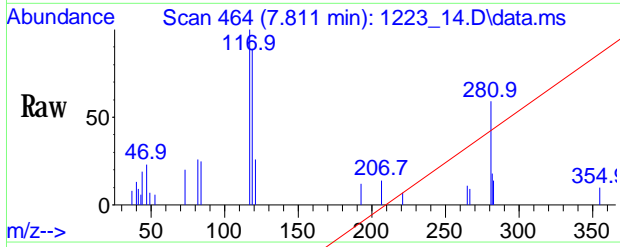
Tgt Ion	Ratio	Resp	Upper
78	100	18223	
77	25.6	21.4	32.0
51	23.6	19.4	29.2





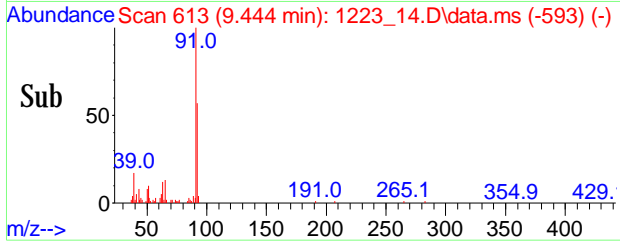
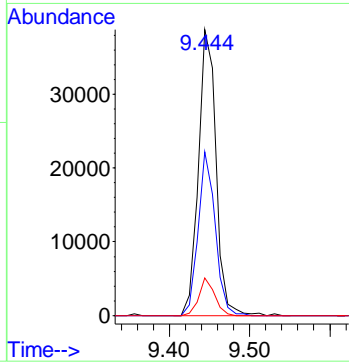
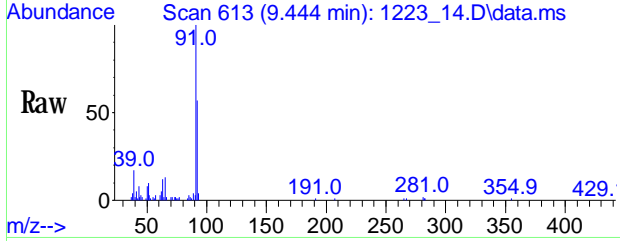
#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 7.811 min Scan# 464
 Delta R.T. 0.000 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

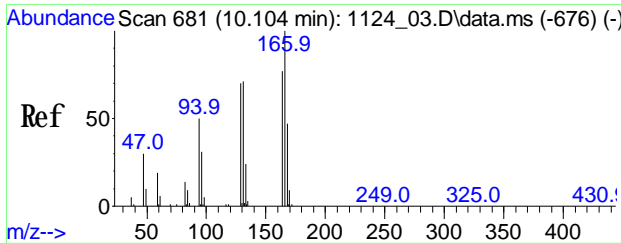
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	117	100	4489		
119	101.1	78.9			118.9
121	26.5	11.5			51.5



#49
 Toluene
 Conc: 8S 0.951 ppby
 RT: 9.444 min Scan# 613
 Delta R.T. -0.010 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

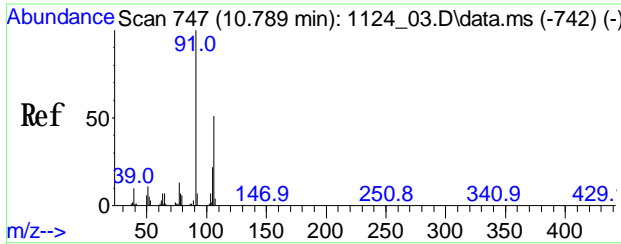
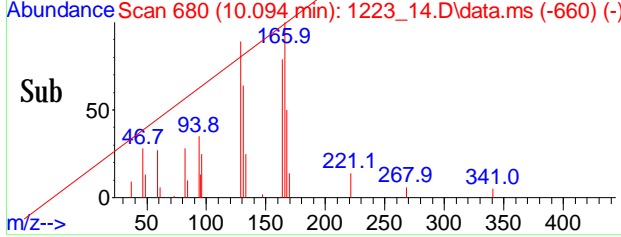
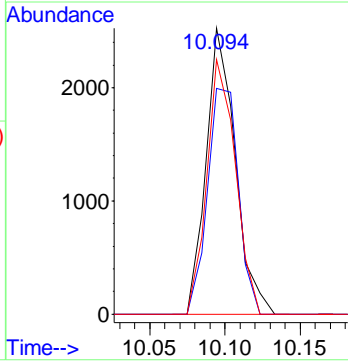
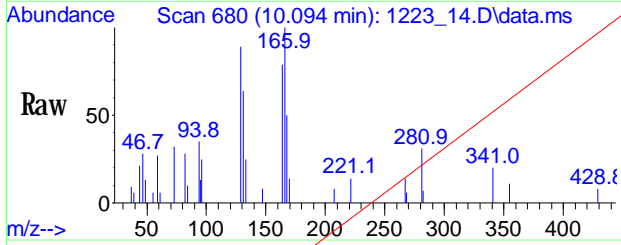
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	91	100	59810		
92	55.3	48.2			72.2
65	11.9	11.2			16.8





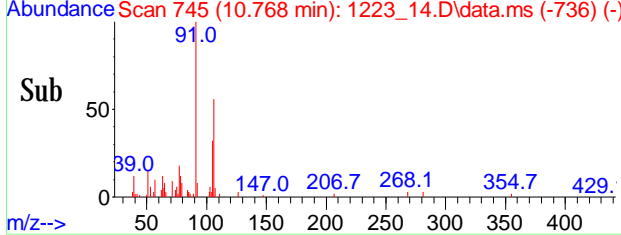
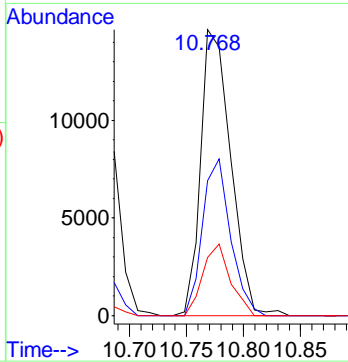
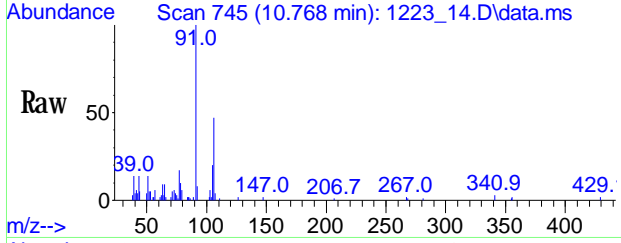
#53
 Tetrachloroethene
 Conc: 8S Below Cal
 RT: 10.094 min Scan# 680
 Delta R.T. -0.010 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

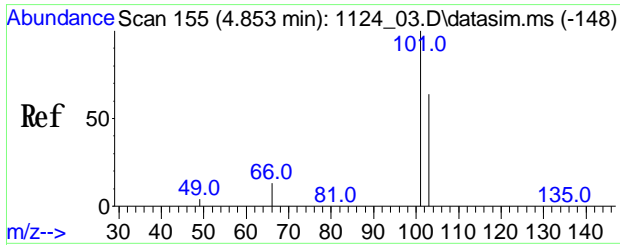
Tgt Ion	Ratio	Resp	Upper
166	100	3426	
164	83.8	64.3	96.5
129	87.3	58.3	87.5



#58
 m,p-Xylene
 Conc: 8S 0.440 ppby
 RT: 10.768 min Scan# 745
 Delta R.T. -0.010 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

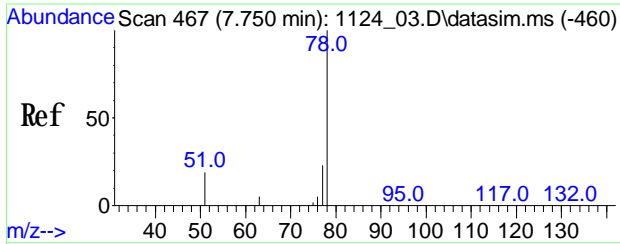
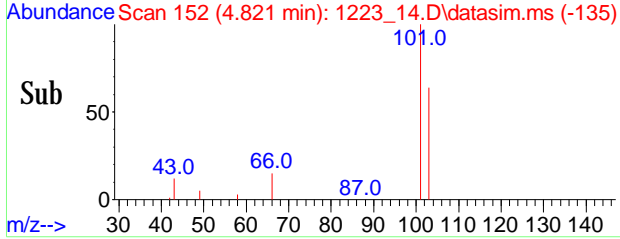
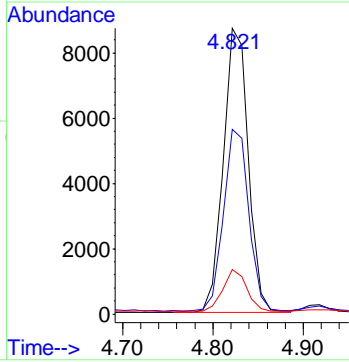
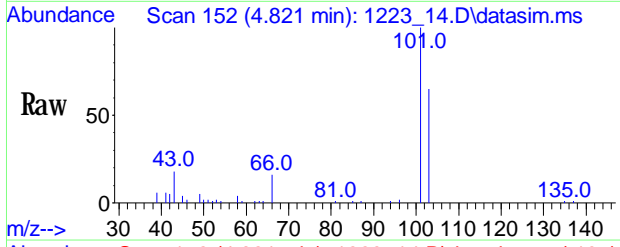
Tgt Ion	Ratio	Resp	Upper
91	100	26914	
106	50.9	39.5	59.3
105	22.9	19.0	28.6





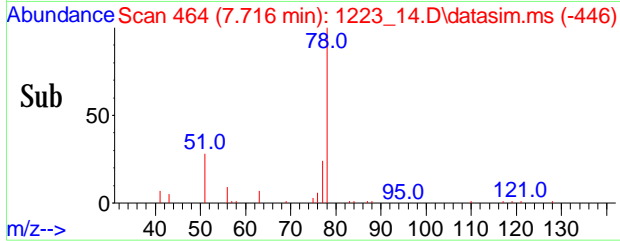
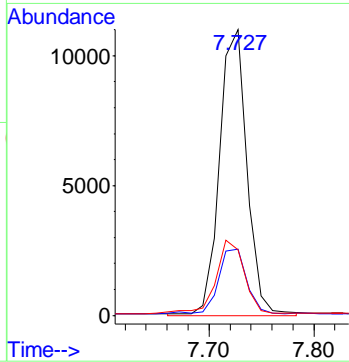
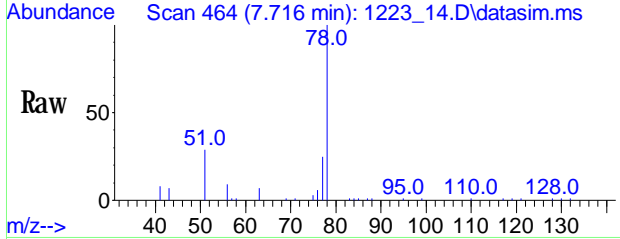
#85
 Trichlorofluoromethane (sim)
 Conc: 8S 0.314 ppbv
 RT: 4.821 min Scan# 152
 Delta R.T. -0.022 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

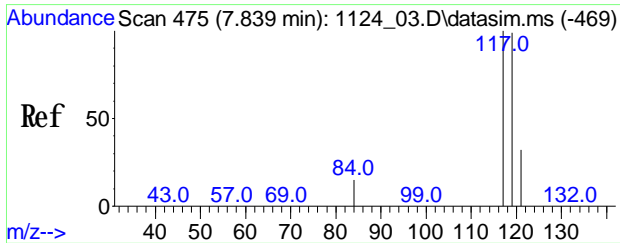
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	16671		
103	64.7	51.3		76.9
66	14.4	13.2		13.2#



#88
 Benzene (sim)
 Conc: 8S 0.310 ppbv
 RT: 7.722 min Scan# 464
 Delta R.T. 0.000 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

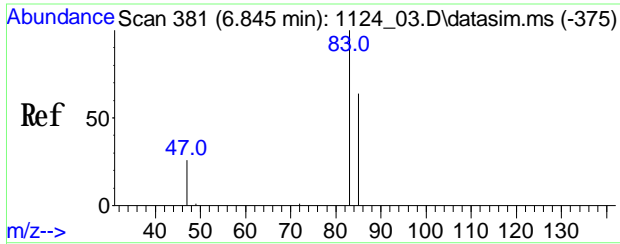
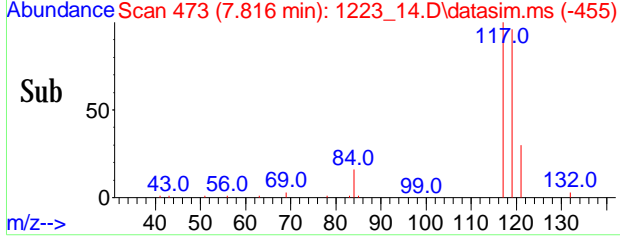
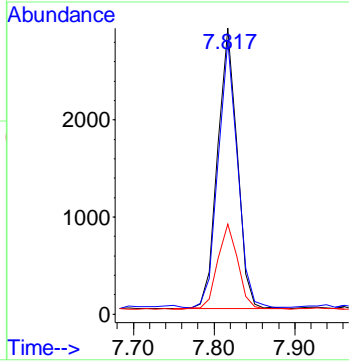
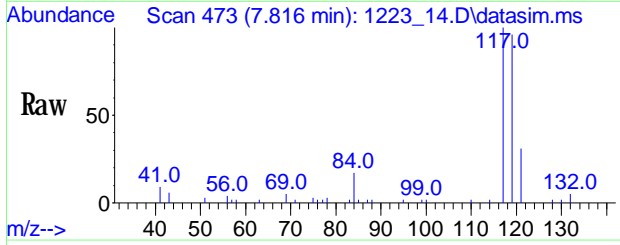
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	18223		
77	25.6	21.4		32.0
51	23.6	19.4		29.2





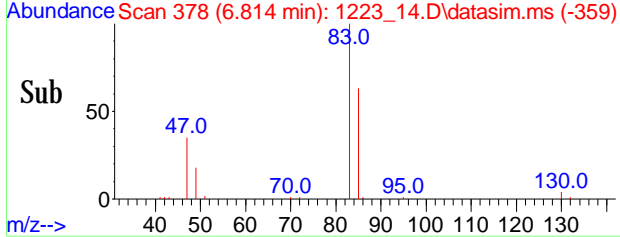
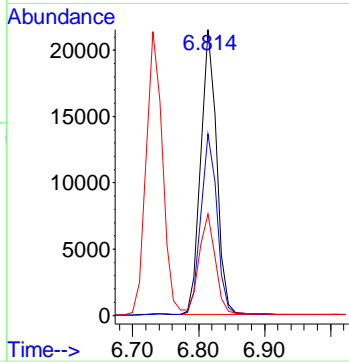
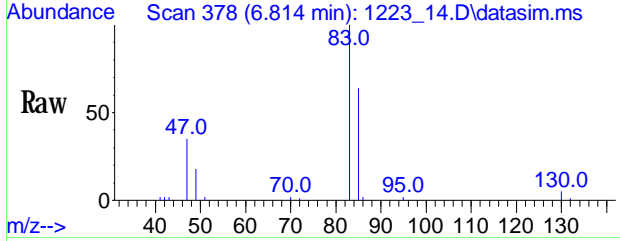
#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.089 ppbv
 RT: 7.816 min Scan# 473
 Delta R.T. 0.000 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

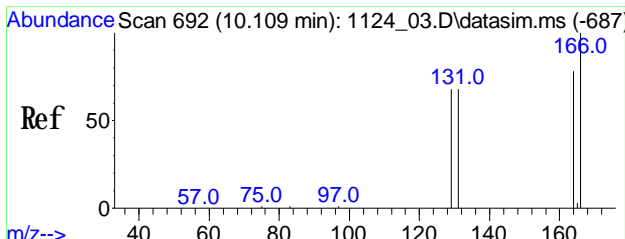
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4810		
119	94.4	76.8		115.2
121	31.4	25.1		37.7



#95
 Chloroform(sim)
 Conc: 8S 0.799 ppbv
 RT: 6.814 min Scan# 378
 Delta R.T. 0.000 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

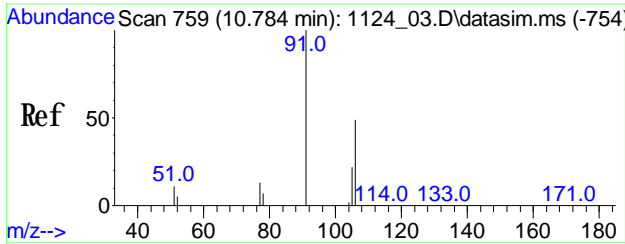
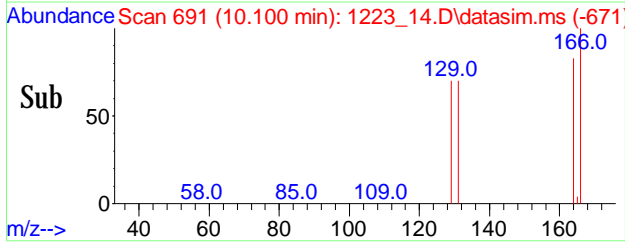
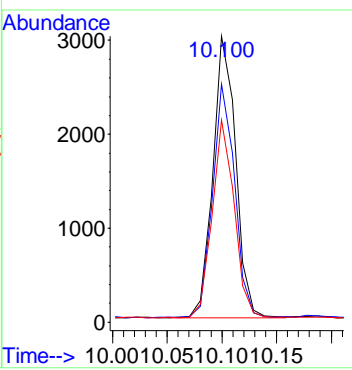
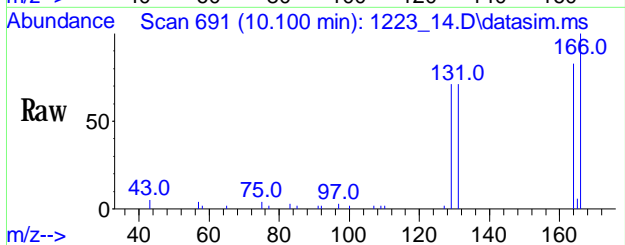
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	36050		
85	64.2	51.4		77.0
47	36.8	29.2		43.8





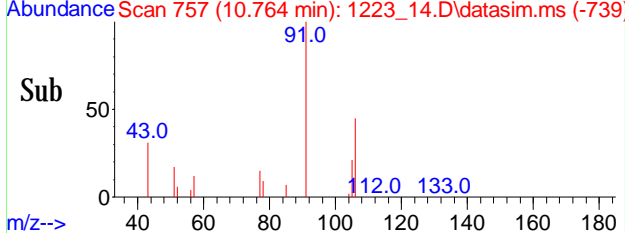
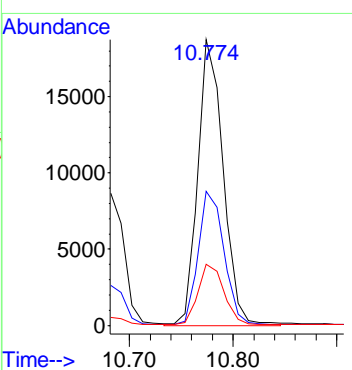
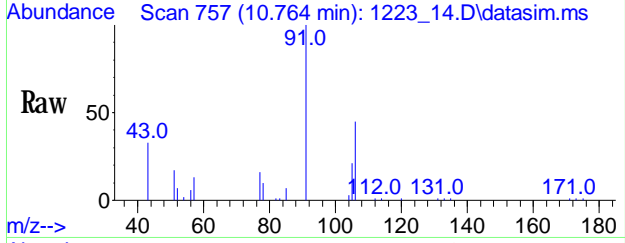
#105
 Tetrachloroethene (sim)
 Conc: 8S 0.108 ppbv
 RT: 10.100 min Scan# 691
 Delta R.T. -0.010 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	4376		
164	80.3	58.8	98.8	
129	68.0	50.7	90.7	



#108
 m p-Xylene (sim)
 Conc: 8S 0.406 ppbv
 RT: 10.768 min Scan# 757
 Delta R.T. -0.010 min
 Lab File: 1223_14.D
 Acq: 24 Dec 2020 12:08 am

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	26914		
106	50.9	44.5	54.3	
105	22.9	19.0	28.6	



Response Factor Report CHEM20

Method Path : H:\AIR2020\CHEM20\METHODS\
Method File : 20_AIR_1211.M
Title : VOA_Standards for 5 point calibration
Last Update : Mon Dec 14 09:27:51 2020
Response Via : Initial Calibration

Calibration Files (Note: Curves (l,l,f,g,qf) display calculated conc and corr. coefficient.)
.035=1211_08.D 0.05=1211_09.D 0.10=1211_10.D 0.2=1211_11.D 0.5=1211_12.D 1.0=1211_18.D 2.5=1211_13.D 5.0=1211_14.D
10=1211_19.D 25=1211_15.D 40=1211_16.D 0.02=1211_07.D

Compound	.035	0.05	0.10	0.2	0.5	1.0	2.5	5.0	10	25	40	0.02	Avg	%RSD
1) Int Bromochloromethane	-----ISTD-----													
2) Propylene	1.024	1.041	0.957	0.930	1.015	0.964	0.930	0.868	0.966	6.01				
3) Dichlorodifluo...	2.746	2.596	2.744	2.438	2.912	2.794	2.443	2.436	2.639	7.07				
4) Chloromethane	1.179	1.064	1.061	0.961	1.099	1.036	0.972	0.909	1.035	8.29				
5) 1,2-Dichlorote...	2.568	2.441	2.653	2.382	2.671	2.582	2.471	2.376	2.518	4.63				
6) Vinyl Chloride	0.953	0.959	1.051	0.908	1.038	1.003	0.963	0.956	0.979	4.90				
7) 1,3-Butadiene	0.783	0.890	0.935	0.802	0.886	0.844	0.801	0.800	0.843	6.59				
8) Bromomethane	1.062	0.770	0.918	0.784	0.865	0.848	0.819	0.832	0.862	10.81				
9) Chloroethane	0.458	0.488	0.495	0.446	0.488	0.467	0.448	0.465	0.469	4.06				
11) Ethanol	0.650	0.605	0.518	0.479	0.475	0.457	0.421	0.420	0.503	16.68				
12) Acetone	1.618	1.976	1.826	1.746	1.905	1.792	1.719	1.698	1.785	6.49				
13) Trichlorofluor...	2.655	2.646	2.664	2.634	2.876	2.795	2.617	2.639	2.691	3.46				
14) Isopropylalcohol	2.599	2.316	2.348	2.180	2.475	2.505	2.094	2.079	2.325	8.38				
15) Acrylonitrile	0.842	0.866	0.777	0.819	0.849	0.830	0.725	0.743	0.806	6.43				
16) 1,1-Dichloroet...	1.737	1.682	1.655	1.630	1.768	1.698	1.628	1.634	1.679	3.14				
17) Methylene Chlo...	1.434	1.412	1.376	1.359	1.466	1.354	1.300	1.273	1.372	4.75				
20) Carbon Disulfide	2.587	2.645	2.517	2.588	2.845	2.713	2.613	2.691	2.650	3.79				
21) Trichlorotrifl...	2.174	2.178	2.028	2.048	2.241	2.130	2.018	2.073	2.111	3.86				
22) Trans-1,2-Dich...	1.590	1.446	1.490	1.461	1.626	1.572	1.513	1.562	1.532	4.22				
23) 1,1-Dichloroet...	1.818	1.812	1.785	1.746	1.941	1.799	1.719	1.777	1.800	3.67				
24) Methyl tert-bu...	3.086	3.122	3.025	2.746	3.154	2.918	2.870	2.856	2.972	4.92				
26) Methyl Ethyl K...	3.229	2.714	2.707	2.790	2.951	2.541	2.811	2.838	2.822	7.18				
27) Cis-1,2-Dichlo...		1.474	1.381	1.410	1.592	1.529	1.470	1.484	1.477	4.75				
28) Hexane	1.952	1.803	1.650	1.641	1.795	1.711	1.628	1.629	1.726	6.71				
29) Chloroform	2.525	2.334	2.221	2.203	2.424	2.306	2.240	2.243	2.312	4.86				
30) Ethyl acetate	0.308	0.342	0.340	0.360	0.360	0.353	0.340	0.349	0.344	4.85				
31) Tetrahydrofuran	1.712	1.422	1.451	1.380	1.589	1.449	1.434	1.409	1.481	7.58				
32) 1,2-Dichloroet...	1.601	1.596	1.512	1.622	1.777	1.717	1.641	1.594	1.632	5.00				
33) 1,1,1-Trichlor...	2.485	2.436	2.414	2.432	2.660	2.543	2.508	2.476	2.494	3.18				
34) Benzene	3.059	2.862	2.996	2.811	3.224	3.044	3.031	3.100	3.016	4.33				
35) Carbon Tetrach...	2.776	2.592	2.671	2.643	2.884	2.744	2.727	2.713	2.719	3.27				
36) Cyclohexane		1.196	1.084	1.138	1.240	1.163	1.123	1.114	1.151	4.61				
37) Int 1,4-Difluorobenzene	-----ISTD-----													
38) 1,2-dichloropr...	0.302	0.308	0.306	0.284	0.333	0.312	0.309	0.306	0.308	4.30				
39) Bromdichlorom...	0.687	0.660	0.642	0.634	0.741	0.694	0.688	0.680	0.678	4.97				
40) Trichloroethene	0.371	0.370	0.371	0.362	0.422	0.393	0.387	0.392	0.384	5.05				
42) 1,4-Dioxane	0.153	0.157	0.177	0.157	0.199	0.185	0.181	0.183	0.174	9.57				
44) Heptane	0.620	0.682	0.589	0.568	0.661	0.612	0.612	0.594	0.617	6.10				
45) cis-1,3-Dichlo...	0.487	0.478	0.463	0.453	0.520	0.490	0.504	0.506	0.488	4.62				
46) 4-Methyl-2-pen...	0.849	0.794	0.738	0.748	0.900	0.859	0.825	0.811	0.816	6.77				
47) trans-1,3-Dich...	0.426	0.452	0.448	0.449	0.503	0.487	0.541	0.493	0.475	7.94				

Response Factor Report CHEM20

Method Path : H:\AIR2020\CHEM20\METHODS\
 Method File : 20_AIR_1211.M

Title : VOA Standards for 5 point calibration

101)	cis-1,3-Dichlo...	0.588	0.561	0.569	0.539	0.534	0.521	0.512		0.738	0.570	12.71
102)	1,1,2-Trichlor...	0.404	0.409	0.360	0.358	0.340	0.331	0.331	0.378	0.487	0.377	13.27
103)	Dibromochlorom...	0.834	0.755	0.793	0.734	0.731	0.715	0.712		0.941	0.777	10.06
104)	1,2-Dibrometh...	0.617	0.581	0.495	0.530	0.501	0.489	0.503	0.587	0.698	0.556	12.78
105)	Tetrachloroeth...	0.686	0.634	0.660	0.601	0.598	0.590	0.577	0.660	0.842	0.648	11.85
106) int	Chlorobenzene-d5(sim)	-----ISTD-----										
107)	Bromform(sim)	1.556	1.530	1.574	1.469	1.449	1.425	1.383		1.918	1.538	10.87
108)	m p-Xylene(sim)	2.397	2.271	2.475	2.187	2.168	2.131	1.966	2.232		2.228	7.09
109)	1,1,2,2-Tetrac...	1.885	1.789	1.733	1.613	1.565	1.570	1.507	1.672	2.270	1.734	13.49
112)	Benzyl chlorid...	1.577	1.765	1.581	1.403	1.356	1.635	1.560	1.950	2.073	1.656	14.30
113)	1,3-Dichlorobe...	1.522	1.366	1.516	1.502	1.441	1.617	1.560	1.882	1.906	1.590	11.71
114)	1,4-Dichlorobe...	1.041	1.270	1.259	1.144	1.172	1.246	1.186	1.503	1.737	1.284	16.43
115)	sec-Butylbenze...	3.044	2.957	2.987	2.776	2.801	2.416	2.381	3.156		2.815	10.12
116)	4-Isopropyltol...	4.334	3.834	3.731	3.457	3.419	3.246	3.172	3.858	5.153	3.801	16.35
117)	1,2-Dichlorobe...	1.591	1.533	1.597	1.508	1.472	1.588	1.529	1.837		1.582	7.10
118)	n-Butylbenzene...	2.633	2.364	2.264	2.219	2.365	2.220	2.251	2.922	3.054	2.477	12.84
119)	1,2,4-Trichlor...	0.718	0.641	0.609	0.572	0.558	0.555	0.429			0.583	15.28
121)	Hexachlorobuta...	2.268	2.041	1.972	1.813	1.786	1.703	1.645	1.842	2.983	2.006	20.55

(#, \$, @)=Out of Range l=linear lf=linear(0,0) q=Quadratic qf=Quadratic(0,0)

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM20
 Heated Purge (Y/N): Y
 GC Column: _____

Client: FPMGROUP
 SDG No.: GCH37250
 Calibration Date From: 12/11/20 23:39
 Calibration Date Thru: 12/12/20 04:37
 Method File: 20_AIR_1211.M

Laboratory File Ids

COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	__ RRF	% RSD
Propylene					1.024	1.041	0.957	0.930	1.015	0.964	0.930	0.868	0.966	6.01
Dichlorodifluoromethane					2.746	2.596	2.744	2.438	2.912	2.794	2.443	2.436	2.639	7.07
Chloromethane					1.179	1.064	1.061	0.961	1.099	1.036	0.972	0.909	1.035	8.29
1,2-Dichlorotetrafluoroethane					2.568	2.441	2.653	2.382	2.671	2.582	2.471	2.376	2.518	4.63
Vinyl Chloride					0.953	0.959	1.051	0.908	1.038	1.003	0.963	0.956	0.979	4.90
1,3-Butadiene					0.783	0.890	0.935	0.802	0.886	0.844	0.801	0.800	0.843	6.59
Bromomethane					1.062	0.770	0.918	0.784	0.865	0.848	0.819	0.832	0.862	10.81
Chloroethane					0.458	0.488	0.495	0.446	0.488	0.467	0.448	0.465	0.469	4.06
Ethanol					0.650	0.605	0.518	0.479	0.475	0.457	0.421	0.420	0.503	16.68
Acetone					1.618	1.976	1.826	1.746	1.905	1.792	1.719	1.698	1.785	6.49
Trichlorofluoromethane					2.655	2.646	2.664	2.634	2.876	2.795	2.617	2.639	2.691	3.46
Isopropylalcohol					2.599	2.316	2.348	2.180	2.475	2.505	2.094	2.079	2.325	8.38
Acrylonitrile					0.842	0.866	0.777	0.819	0.849	0.830	0.725	0.743	0.806	6.43
1,1-Dichloroethene					1.737	1.682	1.655	1.630	1.768	1.698	1.628	1.634	1.679	3.14
Methylene Chloride					1.434	1.412	1.376	1.359	1.466	1.354	1.300	1.273	1.372	4.75
Carbon Disulfide					2.587	2.645	2.517	2.588	2.845	2.713	2.613	2.691	2.650	3.79
Trichlorotrifluoroethane					2.174	2.178	2.028	2.048	2.241	2.130	2.018	2.073	2.111	3.86
Trans-1,2-Dichloroethene					1.590	1.446	1.490	1.461	1.626	1.572	1.513	1.562	1.532	4.22
1,1-Dichloroethane					1.818	1.812	1.785	1.746	1.941	1.799	1.719	1.777	1.800	3.67
Methyl tert-butyl ether(MTBE)					3.086	3.122	3.025	2.746	3.154	2.918	2.870	2.856	2.972	4.92
Methyl Ethyl Ketone					3.229	2.714	2.707	2.790	2.951	2.541	2.811	2.838	2.822	7.18
Cis-1,2-Dichloroethene						1.474	1.381	1.410	1.592	1.529	1.470	1.484	1.477	4.75
Hexane					1.952	1.803	1.650	1.641	1.795	1.711	1.628	1.629	1.726	6.71
Chloroform					2.525	2.334	2.221	2.203	2.424	2.306	2.240	2.243	2.312	4.86
Ethyl acetate					0.308	0.342	0.340	0.360	0.360	0.353	0.340	0.349	0.344	4.85

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM20
 Heated Purge (Y/N): Y
 GC Column: _____

Client: FPMGROUP
 SDG No.: GCH37250
 Calibration Date From: 12/11/20 23:39
 Calibration Date Thru: 12/12/20 04:37
 Method File: 20_AIR_1211.M

Laboratory File Ids

COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	__ RRF	% RSD
Tetrahydrofuran					1.712	1.422	1.451	1.380	1.589	1.449	1.434	1.409	1.481	7.58
1,2-Dichloroethane					1.601	1.596	1.512	1.622	1.777	1.717	1.641	1.594	1.632	5.00
1,1,1-Trichloroethane					2.485	2.436	2.414	2.432	2.660	2.543	2.508	2.476	2.494	3.18
Benzene					3.059	2.862	2.996	2.811	3.224	3.044	3.031	3.100	3.016	4.33
Carbon Tetrachloride					2.776	2.592	2.671	2.643	2.884	2.744	2.727	2.713	2.719	3.27
Cyclohexane						1.196	1.084	1.138	1.240	1.163	1.123	1.114	1.151	4.61
1,2-dichloropropane					0.302	0.308	0.306	0.284	0.333	0.312	0.309	0.306	0.308	4.30
Bromodichloromethane					0.687	0.660	0.642	0.634	0.741	0.694	0.688	0.680	0.678	4.97
Trichloroethene					0.371	0.370	0.371	0.362	0.422	0.393	0.387	0.392	0.384	5.05
1,4-Dioxane					0.153	0.157	0.177	0.157	0.199	0.185	0.181	0.183	0.174	9.57
Heptane					0.620	0.682	0.589	0.568	0.661	0.612	0.612	0.594	0.617	6.10
cis-1,3-Dichloropropene					0.487	0.478	0.463	0.453	0.520	0.490	0.504	0.506	0.488	4.62
4-Methyl-2-pentanone(MIBK)					0.849	0.794	0.738	0.748	0.900	0.859	0.825	0.811	0.816	6.77
trans-1,3-Dichloropropene					0.426	0.452	0.448	0.449	0.503	0.487	0.541	0.493	0.475	7.94
1,1,2-Trichloroethane					0.358	0.340	0.331	0.330	0.378	0.350	0.350	0.362	0.350	4.64
Toluene					0.996	0.966	0.941	0.951	1.077	1.015	1.038	1.040	1.003	4.79
Dibromochloromethane					0.645	0.672	0.647	0.616	0.728	0.687	0.718	0.721	0.679	6.07
2-Hexanone(MBK)					0.630	0.628	0.654	0.671	0.809	0.771	0.792	0.771	0.716	10.76
1,2-Dibromoethane(EDB)					0.530	0.501	0.489	0.503	0.587	0.561	0.569	0.581	0.540	7.30
Tetrachloroethene					0.527	0.523	0.501	0.474	0.560	0.538	0.544	0.547	0.527	5.25
1,1,1,2-Tetrachloroethane					0.985	0.966	1.011	0.976	1.039	0.959	0.886	0.825	0.956	7.23
Chlorobenzene					1.612	1.646	1.695	1.586	1.719	1.607	1.490	1.391	1.593	6.75
Ethylbenzene				3.226	2.737	2.826	2.761	2.585	2.942	2.693	2.492	2.308	2.730	9.67
m,p-Xylene				2.474	2.187	2.167	1.690	1.950	2.223	2.103	1.934	1.777	2.056	11.81
Bromoform					1.235	1.339	1.259	1.221	1.393	1.329	1.243	1.193	1.276	5.42

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM20
 Heated Purge (Y/N): Y
 GC Column: _____

Client: FPMGROUP
 SDG No.: GCH37250
 Calibration Date From: 12/11/20 23:39
 Calibration Date Thru: 12/12/20 04:37
 Method File: 20_AIR_1211.M

Laboratory File Ids

COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	RRF	% RSD
Styrene					1.597	1.520	1.533	1.532	1.721	1.583	1.502	1.416	1.550	5.68
1,1,2,2-Tetrachloroethane					1.520	1.496	1.485	1.441	1.592	1.431	1.382	1.266	1.452	6.75
o-Xylene				2.484	2.152	2.303	2.187	2.093	2.343	2.133	2.011	1.835	2.171	8.80
Isopropylbenzene					3.090	3.083	3.046	2.949	3.249	3.044	2.846	2.514	2.978	7.39
4-Ethyltoluene					2.837	2.825	2.824	2.781	3.325	3.107	2.914	2.615	2.903	7.53
1,3,5-Trimethylbenzene					2.581	2.590	2.315	2.255	2.820	2.577	2.443	2.212	2.474	8.33
1,2,4-Trimethylbenzene					2.604	2.516	2.180	2.165	2.850	2.673	2.554	2.281	2.478	9.95
Benzyl chloride					1.403	1.356	1.635	1.560	1.950	1.994	2.063	1.952	1.739	16.31
1,3-Dichlorobenzene					1.228	1.283	1.389	1.396	1.638	1.580	1.538	1.553	1.451	10.24
1,4-Dichlorobenzene					1.144	1.179	1.245	1.186	1.503	1.471	1.489	1.285	1.313	11.51
sec-Butylbenzene					2.604	2.516	2.180	2.165	2.850	2.673	2.554	2.281	2.478	9.95
4-Isopropyltoluene					3.457	3.408	3.237	3.171	3.854	3.562	3.398	3.018	3.388	7.56
1,2-Dichlorobenzene					1.317	1.345	1.398	1.325	1.638	1.540	1.524	1.400	1.436	8.20
n-Butylbenzene					2.219	2.365	2.220	2.251	2.923	2.815	2.743	2.519	2.507	11.42
1,2,4-Trichlorobenzene	qfi				0.139	0.314	0.640	1.305	5.231	10.760	26.720	38.960	Coef R2	0.99
Hexachlorobutadiene					1.559	1.472	1.369	1.378	1.550	1.393	1.286	1.184	1.399	9.13
1,2-Dichlorotetrafluoroethane(sim)	3.044	2.616	2.690	2.740	2.261	2.184	2.293	2.084	2.387				2.478	12.64
Vinyl Chloride(sim)	1.267	1.055	1.048	1.018	0.919	0.902	0.983	0.868	1.021				1.009	11.64
Bromomethane(sim)	1.184	1.061	0.948	0.830	0.935	0.689	0.809	0.686	0.775				0.880	19.08
Trichlorofluoromethane(sim)		2.886	2.716	2.822	2.574	2.546	2.515	2.445	2.769				2.659	6.03
1,2-Dichloroethane(sim)	1.802	1.697	1.432	1.484	1.409	1.428	1.333	1.420	1.593				1.511	10.21
1,1,1-Trichloroethane(sim)	2.875	2.580	2.448	2.530	2.357	2.328	2.291	2.254	2.575				2.471	7.88
Benzene(sim)	3.870	3.261	3.178	2.870	2.693	2.561	2.641	2.462					2.942	16.01
Carbon Tetrachloride(sim)	3.271	2.755	2.741	2.753	2.568	2.553	2.486	2.463					2.699	9.66
1,1-Dichloroethene(sim)	2.174	1.917	1.593	1.735	1.529	1.505	1.458	1.428	1.585				1.658	14.80

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM20
 Heated Purge (Y/N): Y
 GC Column: _____

Client: FPMGROUP
 SDG No.: GCH37250
 Calibration Date From: 12/11/20 23:39
 Calibration Date Thru: 12/12/20 04:37
 Method File: 20_AIR_1211.M

Laboratory File Ids

COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	__ RRF	% RSD
Trichlorotrifluoroethane(sim)	2.641	2.237	2.135	2.243	2.007	1.973	1.964	1.894	2.146				2.138	10.56
Trans-1,2-Dichloroethene(sim)	1.940	1.636	1.555	1.458	1.400	1.293	1.313	1.279	1.457				1.481	14.15
1,1-Dichloroethane(sim)	2.315	2.029	1.899	1.916	1.764	1.774	1.734	1.701	1.921				1.895	10.07
Cis-1,2-Dichloroethene(sim)	1.913	1.658	1.498	1.396	1.426	1.319	1.222	1.235	1.426				1.455	14.97
Chloroform(sim)	2.799	2.346	2.321	2.318	2.121	2.092	2.038	2.015	2.284				2.259	10.65
1,2-dichloropropane(sim)	0.514	0.422	0.377	0.382	0.342	0.338	0.327	0.323	0.366				0.377	15.98
Bromodichloromethane(sim)	0.941	0.777	0.738	0.842	0.687	0.660	0.641	0.634	0.741				0.740	13.74
Trichloroethene(sim)	0.612	0.530	0.455	0.479	0.436	0.433	0.427	0.415	0.475				0.474	13.21
1,4-Dioxane(sim)		0.230	0.189	0.239	0.153	0.157	0.177	0.157	0.199				0.188	17.76
cis-1,3-Dichloropropene(sim)	0.738	0.588	0.561	0.569	0.539	0.534	0.521	0.512					0.570	12.71
1,1,2-Trichloroethane(sim)	0.487	0.404	0.409	0.360	0.358	0.340	0.331	0.331	0.378				0.377	13.27
Dibromochloromethane(sim)	0.941	0.834	0.755	0.793	0.734	0.731	0.715	0.712					0.777	10.06
1,2-Dibromoethane(EDB)(sim)	0.698	0.617	0.581	0.495	0.530	0.501	0.489	0.503	0.587				0.556	12.78
Tetrachloroethene(sim)	0.842	0.686	0.634	0.660	0.601	0.598	0.590	0.577	0.660	0.627			0.648	11.85
Bromoform(sim)	1.918	1.556	1.530	1.574	1.469	1.449	1.425	1.383					1.538	10.87
m,p-Xylene(sim)		2.397	2.271	2.475	2.187	2.168	2.131	1.966	2.232				2.228	7.09
1,1,2,2-Tetrachloroethane(sim)	2.270	1.885	1.789	1.733	1.613	1.565	1.570	1.507	1.672				1.734	13.49
Benzyl chloride(sim)	2.073	1.577	1.765	1.581	1.403	1.356	1.635	1.560	1.950				1.656	14.30
1,3-Dichlorobenzene(sim)	1.906	1.522	1.366	1.516	1.502	1.441	1.617	1.560	1.882				1.590	11.71
1,4-Dichlorobenzene(sim)	1.737	1.041	1.270	1.259	1.144	1.172	1.246	1.186	1.503				1.284	16.43
sec-Butylbenzene(sim)		3.044	2.957	2.987	2.776	2.801	2.416	2.381	3.156				2.815	10.12
4-Isopropyltoluene(sim)	5.153	4.334	3.834	3.731	3.457	3.419	3.246	3.172	3.858				3.801	16.35
1,2-Dichlorobenzene(sim)		1.591	1.533	1.597	1.508	1.472	1.588	1.529	1.837				1.582	7.10
n-Butylbenzene(sim)	3.054	2.633	2.364	2.264	2.219	2.365	2.220	2.251	2.922				2.477	12.84
1,2,4-Trichlorobenzene(sim)		0.718	0.641	0.609	0.572	0.558	0.555	0.429					0.583	15.28

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix

SDG No.: GCH37250

Instrument ID: CHEM20

Calibration Date From: 12/11/20 23:39

Heated Purge (Y/N): Y

Calibration Date Thru: 12/12/20 04:37

GC Column: _____

Method File: 20_AIR_1211.M

Laboratory File Ids

RRF1	<u>1211_07.D</u>	RRF2	<u>1211_08.D</u>	RRF3	<u>1211_09.D</u>	RRF4	<u>1211_10.D</u>	RRF5	<u>1211_11.D</u>	RRF6	<u>1211_12.D</u>	RRF7	<u>1211_18.D</u>	RRF8	<u>1211_13.D</u>	RRF9	<u>1211_14.D</u>	RRF10	<u>1211_19.D</u>	RRF11	<u>1211_15.D</u>	RRF12	<u>1211_16.D</u>
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COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	__ RRF	% RSD
Hexachlorobutadiene(sim)	2.983	2.268	2.041	1.972	1.813	1.786	1.703	1.645	1.842				2.006	20.55
% Bromofluorobenzene					1.216	1.200	1.222	1.225	1.232	1.224	1.213	1.096	1.204	3.69

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_07.D
 Acq On : 11 Dec 2020 8:08 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 09:20:28 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:19:14 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.735	130	258125	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.922	114	962945	10.000	ng	0.00
54) Chlorobenzene-d5	10.461	82	449576	10.000	ng	0.00
81) Bromchloromethane(sim)	6.741	130	283818	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.922	114	962945	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.461	82	449613	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromfluorobenzene	11.312	95	534163	9.872	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.436	41	2030	0.081	ppbv#	38
3) Dichlorodifluoromethane	3.490	85	3643	0.053	ppbv#	87
4) Chloromethane	3.641	50	1362	0.051	ppbv	96
5) 1,2-Dichlorotetrafluor...	3.727	85	3184	0.049	ppbv#	73
6) Vinyl Chloride	3.824	62	876	0.035	ppbv	98
7) 1,3-Butadiene	3.921	54	1365	0.063	ppbv#	81
8) Bromomethane	4.147	94	1747	0.078	ppbv#	89
9) Chloroethane	4.287	64	557	0.046	ppbv#	38
11) Ethanol	4.449	45	826	0.064	ppbv#	64
12) Acetone	4.794	43	1018	0.022	ppbv#	31
13) Trichlorofluoromethane	4.837	101	1919	0.028	ppbv#	95
14) Isopropylalcohol	4.977	45	1661	0.028	ppbv#	85
15) Acrylonitrile	5.085	53	989	0.048	ppbv#	77
16) 1,1-Dichloroethene	5.270	61	1265	0.029	ppbv#	67
17) Methylene Chloride	5.356	49	995	0.028	ppbv#	43
20) Carbon Disulfide	5.563	76	1859	0.027	ppbv#	69
21) Trichlorotrifluoroethane	5.529	101	1372	0.025	ppbv#	68
22) Trans-1,2-Dichloroethene	5.962	61	1169	0.030	ppbv#	47
23) 1,1-Dichloroethane	6.096	63	1348	0.029	ppbv#	41
24) Methyl tert-butyl ethe...	6.215	73	3182	0.041	ppbv#	74
26) Methyl Ethyl Ketone	6.428	43	3007	0.041	ppbv#	67
27) Cis-1,2-Dichloroethene	6.631	61	1189	0.031	ppbv#	74
28) Hexane	6.756	57	2069	0.046	ppbv#	68
29) Chloroform	6.819	83	2229	0.037	ppbv	96
30) Ethyl acetate	6.798	61	105	0.012	ppbv#	72
31) Tetrahydrofuran	7.100	42	683	0.018	ppbv#	46
32) 1,2-Dichloroethane	7.288	62	688	0.016	ppbv#	32
33) 1,1,1-Trichloroethane	7.433	97	1872	0.029	ppbv	87
34) Benzene	7.733	78	2350	0.030	ppbv#	49
35) Carbon Tetrachloride	7.811	117	1898	0.027	ppbv	96
36) Cyclohexane	7.889	41	1755	0.059	ppbv#	1
38) 1,2-dichloropropane	8.234	63	1154	0.039	ppbv#	54
39) Bromdichloromethane	8.345	83	2485	0.038	ppbv	85
40) Trichloroethene	8.368	130	1016	0.028	ppbv#	69
42) 1,4-Dioxane	8.412	88	104	0.006	ppbv#	1
44) Heptane	8.524	43	2295	0.039	ppbv#	71
45) cis-1,3-Dichloropropene	8.880	75	1578	0.034	ppbv	95
46) 4-Methyl-2-pentanone(M..	8.914	43	2229	0.028	ppbv#	78
47) trans-1,3-Dichloropropene	9.172	75	1593	0.035	ppbv#	67
48) 1,1,2-Trichloroethane	9.289	97	1148	0.034	ppbv#	49
49) Toluene	9.454	91	3146	0.033	ppbv#	96
50) Dibromchloromethane	9.706	129	1844	0.028	ppbv	88
51) 2-Hexanone (MBK)	9.609	43	1115	0.016	ppbv#	57
52) 1,2-Dibromethane (EDB)	9.852	107	1297	0.025	ppbv	94

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_07.D
 Acq On : 11 Dec 2020 8:08 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 09:20:28 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:19:14 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
53) Tetrachloroethene	10.104	166	1157	0.023	ppbv#	84
55) 1,1,1,2-Tetrachloroethane	10.471	131	1547	0.036	ppbv#	83
56) Chlorobenzene	10.492	112	2183	0.030	ppbv#	1
57) Ethylbenzene	10.686	91	3847	0.031	ppbv#	82
58) m p-Xylene	10.779	91	6319	0.068	ppbv	91
59) Bromoform	10.850	173	1317	0.023	ppbv#	90
60) Styrene	10.994	104	1882	0.027	ppbv#	85
61) 1,1,2,2-Tetrachloroethane	11.045	83	2996	0.046	ppbv#	75
62) o-Xylene	11.055	91	3184	0.033	ppbv#	89
65) Isopropylbenzene	11.373	105	3529	0.026	ppbv#	89
67) 4-Ethyltoluene	11.753	105	3284	0.025	ppbv#	81
68) 1,3,5-Trimethylbenzene	11.794	105	3688	0.033	ppbv#	92
69) 1,2,4-Trimethylbenzene	12.050	105	3464	0.031	ppbv#	79
71) Benzyl chloride	12.142	91	1821	0.023	ppbv#	86
72) 1,3-Dichlorobenzene	12.163	146	1561	0.024	ppbv#	58
73) 1,4-Dichlorobenzene	12.194	146	1507	0.026	ppbv#	65
74) sec-Butylbenzene	12.050	105	3464	0.031	ppbv#	68
75) 4-Isopropyltoluene	12.307	119	4634	0.030	ppbv#	85
76) 1,2-Dichlorobenzene	12.420	146	2088	0.032	ppbv	97
77) n-Butylbenzene	12.573	91	3964	0.035	ppbv#	81
78) 1,2,4-Trichlorobenzene	13.559	180	745	0.025	ppbv	92
80) Hexachlorobutadiene	13.877	225	2024	0.032	ppbv	92
82) 1,2-Dichlorotetrafluor...	3.732	85	1728m	0.025	ppbv	80
83) Vinyl Chloride(sim)	3.829	62	719	0.025	ppbv#	79
84) Bromomethane(sim)	4.153	94	672m	0.027	ppbv	82
85) Trichlorofluoromethane...	4.843	101	1852	0.025	ppbv#	96
86) 1,2-Dichloroethane(sim)	7.283	62	1023m	0.024	ppbv	32
87) 1,1,1-Trichloroethane(...)	7.439	97	1632	0.023	ppbv#	93
88) Benzene(sim)	7.727	78	2197m	0.026	ppbv	49
89) Carbon Tetrachloride(sim)	7.816	117	1857	0.024	ppbv	98
90) 1,1-Dichloroethene(sim)	5.276	61	1234m	0.026	ppbv	73
91) Trichlorotrifluoroetha...	5.534	101	1499	0.025	ppbv#	97
92) Trans-1,2-Dichloroetha...	5.976	61	1101m	0.026	ppbv	38
93) 1,1-Dichloroethane(sim)	6.102	63	1314	0.024	ppbv#	91
94) Cis-1,2-Dichloroethene...	6.637	61	1086m	0.026	ppbv	74
95) Chloroform(sim)	6.824	83	1589	0.025	ppbv#	73
97) 1,2-dichloropropane(sim)	8.240	63	989	0.027	ppbv#	74
98) Bromdichloromethane(sim)	8.351	83	1813m	0.025	ppbv	84
99) Trichloroethene(sim)	8.373	130	1179	0.026	ppbv	98
100) 1,4-Dioxane(sim)	8.418	88	527m	0.029	ppbv	1
101) cis-1,3-Dichloropropen...	8.886	75	1422m	0.026	ppbv	95
102) 1,1,2-Trichloroethane(...)	9.294	97	937m	0.026	ppbv	49
103) Dibromochloromethane(sim)	9.712	129	1812	0.024	ppbv	95
104) 1,2-Dibromoethane(EDB)...	9.857	107	1345m	0.025	ppbv	94
105) Tetrachloroethene(sim)	10.109	166	1621	0.026	ppbv	96
107) Bromoform(sim)	10.856	173	1725	0.025	ppbv	98
108) m p-Xylene(sim)	10.784	91	5656m	0.056	ppbv	91
109) 1,1,2,2-Tetrachloroeth...	11.051	83	2041	0.026	ppbv	93
112) Benzyl chloride(sim)	12.148	91	1864m	0.025	ppbv	86
113) 1,3-Dichlorobenzene(sim)	12.158	146	1714	0.024	ppbv	100
114) 1,4-Dichlorobenzene(sim)	12.199	146	1562m	0.027	ppbv	65
115) sec-Butylbenzene(sim)	12.045	105	3512	0.028	ppbv	99
116) 4-Isopropyltoluene(sim)	12.307	119	4634	0.027	ppbv#	85
117) 1,2-Dichlorobenzene(sim)	12.415	146	2039	0.029	ppbv	96
118) n-Butylbenzene(sim)	12.569	91	2746m	0.025	ppbv	81
119) 1,2,4-Trichlorobenzene...	13.554	180	1273	0.049	ppbv	93
121) Hexachlorobutadiene(sim)	13.882	225	2682m	0.030	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
Data File : 1211_07.D
Acq On : 11 Dec 2020 8:08 pm
Operator :
Client ID : ICAL 0.02
Lab ID : 0.02
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 09:20:28 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Dec 14 09:19:14 2020
Response via : Initial Calibration

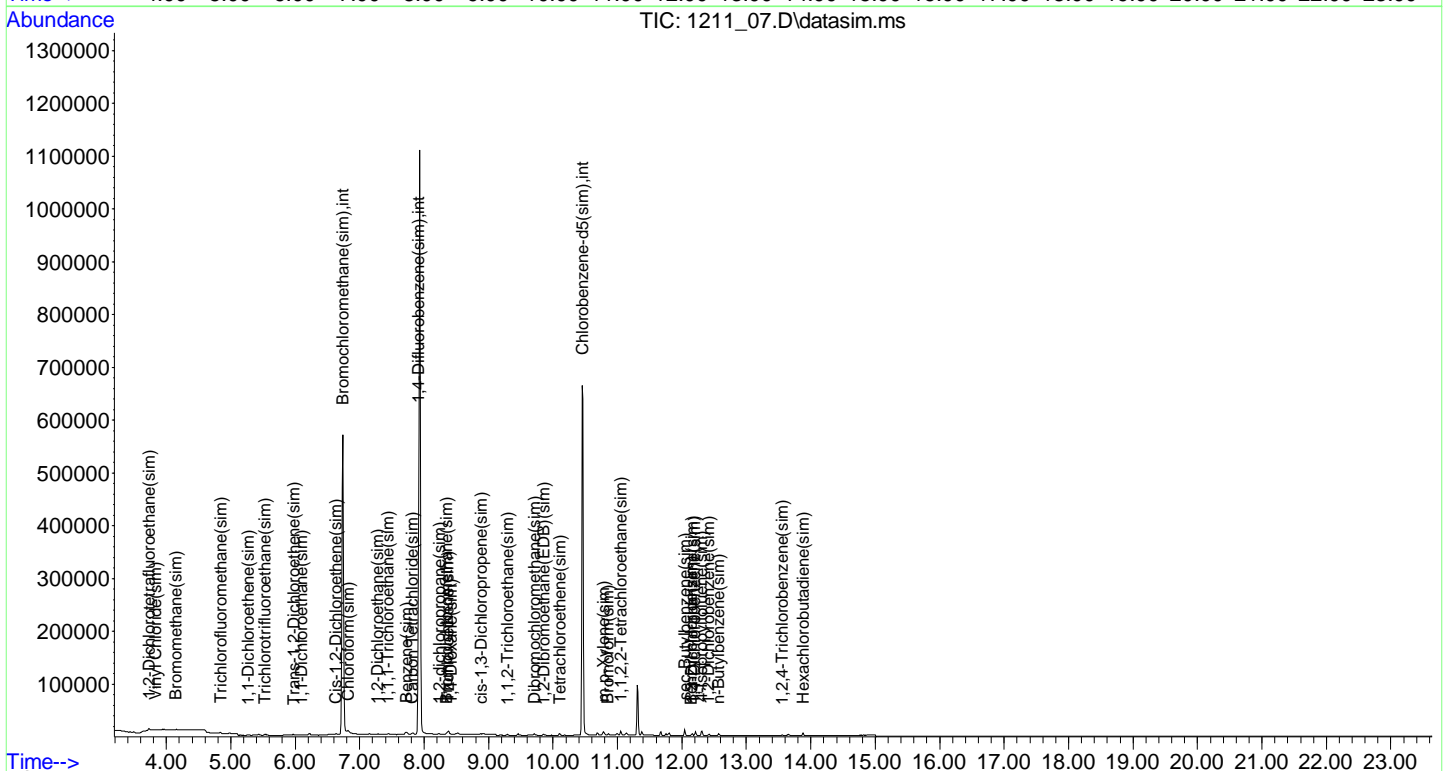
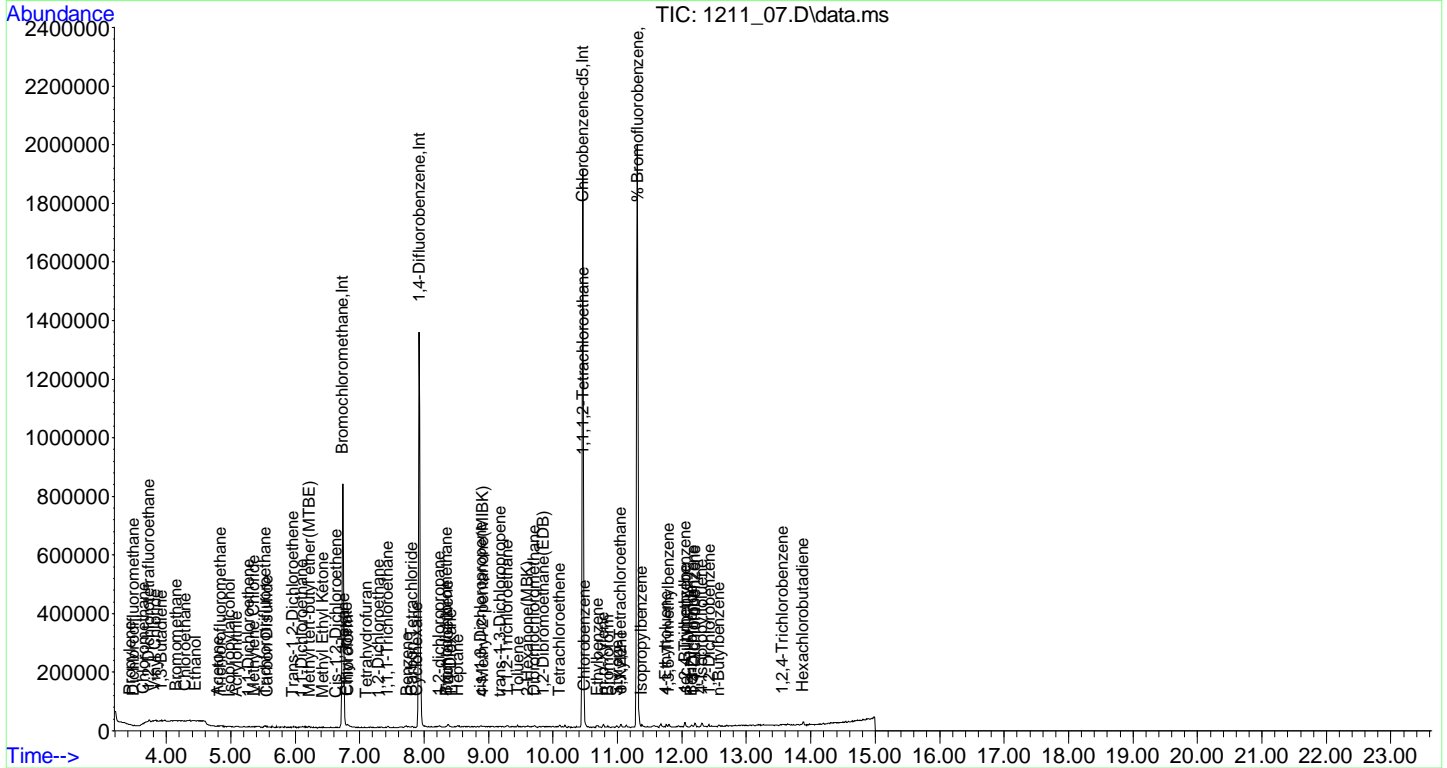
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_07.D
 Acq On : 11 Dec 2020 8:08 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 14 09:20:28 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 14 09:19:14 2020
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_08.D
 Acq On : 11 Dec 2020 9:50 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 14 09:23:08 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:20:38 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.735	130	240458	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.933	114	953845	10.000	ng	0.01
54) Chlorobenzene-d5	10.461	82	449472	10.000	ng	0.00
81) Bromchloromethane(sim)	6.741	130	276792	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.933	114	953575	10.000	ng	0.01
106) Chlorobenzene-d5(sim)	10.461	82	449448	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromfluorobenzene	11.312	95	511926	9.463	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	94.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.447	41	1635	0.070	ppbv#	12
3) Dichlorodifluoromethane	3.511	85	3793	0.060	ppbv#	81
4) Chloromethane	3.651	50	1663	0.067	ppbv	82
5) 1,2-Dichlorotetrafluor...	3.738	85	2710	0.045	ppbv#	63
6) Vinyl Chloride	3.835	62	1206	0.051	ppbv	86
7) 1,3-Butadiene	3.942	54	2299	0.113	ppbv#	59
8) Bromomethane	4.158	94	1623	0.078	ppbv#	35
9) Chloroethane	4.287	64	470	0.042	ppbv#	64
11) Ethanol	4.460	45	1906	0.158	ppbv#	1
12) Acetone	4.794	43	2930	0.068	ppbv#	48
13) Trichlorofluoromethane	4.837	101	2397	0.037	ppbv#	85
14) Isopropylalcohol	4.988	45	3465	0.062	ppbv#	70
15) Acrylonitrile	5.085	53	1004	0.052	ppbv#	70
16) 1,1-Dichloroethene	5.279	61	1786	0.044	ppbv#	74
17) Methylene Chloride	5.356	49	1726	0.052	ppbv#	80
20) Carbon Disulfide	5.563	76	2559	0.040	ppbv	100
21) Trichlorotrifluoroethane	5.537	101	1977	0.039	ppbv#	74
22) Trans-1,2-Dichloroethene	5.970	61	1495	0.041	ppbv#	71
23) 1,1-Dichloroethane	6.104	63	2118	0.049	ppbv#	43
24) Methyl tert-butyl ethe...	6.207	73	4164	0.058	ppbv#	57
26) Methyl Ethyl Ketone	6.420	43	3594	0.053	ppbv#	80
27) Cis-1,2-Dichloroethene	6.631	61	1405	0.040	ppbv	92
28) Hexane	6.756	57	2266	0.055	ppbv#	68
29) Chloroform	6.819	83	2459	0.044	ppbv#	70
30) Ethyl acetate	6.808	61	122	0.015	ppbv#	1
31) Tetrahydrofuran	7.069	42	1494	0.042	ppbv	100
32) 1,2-Dichloroethane	7.287	62	1656	0.042	ppbv#	66
33) 1,1,1-Trichloroethane	7.444	97	2718	0.045	ppbv#	89
34) Benzene	7.733	78	3067	0.042	ppbv#	79
35) Carbon Tetrachloride	7.822	117	2471	0.038	ppbv	86
36) Cyclohexane	7.889	41	1539	0.056	ppbv	87
38) 1,2-dichloropropane	8.234	63	1594	0.054	ppbv#	75
39) Bromdichloromethane	8.345	83	3525	0.054	ppbv#	75
40) Trichloroethene	8.368	130	1783	0.049	ppbv#	65
42) 1,4-Dioxane	8.412	88	524	0.032	ppbv#	1
44) Heptane	8.524	43	2615	0.044	ppbv#	68
45) cis-1,3-Dichloropropene	8.880	75	1886	0.041	ppbv	94
46) 4-Methyl-2-pentanone(M..	8.913	43	3329	0.043	ppbv#	82
47) trans-1,3-Dichloropropene	9.182	75	1888	0.042	ppbv#	91
48) 1,1,2-Trichloroethane	9.289	97	1530	0.046	ppbv#	80
49) Toluene	9.454	91	4696	0.049	ppbv	94
50) Dibromchloromethane	9.706	129	2390	0.037	ppbv#	84
51) 2-Hexanone (MBK)	9.619	43	1975	0.029	ppbv	94
52) 1,2-Dibromethane (EDB)	9.852	107	1996	0.039	ppbv	87

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_08.D
 Acq On : 11 Dec 2020 9:50 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 14 09:23:08 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:20:38 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
53) Tetrachloroethene	10.104	166	1783	0.035	ppbv#	85
55) 1,1,1,2-Tetrachloroethane	10.471	131	2100	0.049	ppbv	92
56) Chlorobenzene	10.492	112	3276	0.046	ppbv#	43
57) Ethylbenzene	10.686	91	5678	0.046	ppbv#	79
58) m p-Xylene	10.789	91	7542	0.082	ppbv	89
59) Bromoform	10.850	173	2125	0.037	ppbv#	90
60) Styrene	10.994	104	2844	0.041	ppbv#	87
61) 1,1,2,2-Tetrachloroethane	11.055	83	3736	0.057	ppbv#	88
62) o-Xylene	11.055	91	5028	0.052	ppbv	97
65) Isopropylbenzene	11.383	105	5065	0.038	ppbv	92
67) 4-Ethyltoluene	11.752	105	4728	0.036	ppbv#	84
68) 1,3,5-Trimethylbenzene	11.794	105	5087	0.046	ppbv#	83
69) 1,2,4-Trimethylbenzene	12.050	105	4719	0.042	ppbv#	83
71) Benzyl chloride	12.142	91	2481	0.032	ppbv#	62
72) 1,3-Dichlorobenzene	12.163	146	2008	0.031	ppbv#	76
73) 1,4-Dichlorobenzene	12.204	146	1637	0.028	ppbv	84
74) sec-Butylbenzene	12.050	105	4719	0.042	ppbv#	76
75) 4-Isopropyltoluene	12.307	119	6895	0.045	ppbv#	80
76) 1,2-Dichlorobenzene	12.419	146	2623	0.041	ppbv	99
77) n-Butylbenzene	12.573	91	4200	0.037	ppbv#	90
78) 1,2,4-Trichlorobenzene	13.558	180	829	0.028	ppbv#	92
80) Hexachlorobutadiene	13.887	225	3102	0.049	ppbv	93
82) 1,2-Dichlorotetrafluor...	3.743	85	2534m	0.037	ppbv	81
83) Vinyl Chloride(sim)	3.829	62	1022m	0.037	ppbv	82
84) Bromomethane(sim)	4.163	94	1028m	0.042	ppbv	63
85) Trichlorofluoromethane...	4.843	101	2796	0.038	ppbv#	97
86) 1,2-Dichloroethane(sim)	7.293	62	1644m	0.039	ppbv	85
87) 1,1,1-Trichloroethane(...)	7.449	97	2499	0.037	ppbv#	92
88) Benzene(sim)	7.727	78	3159m	0.039	ppbv	75
89) Carbon Tetrachloride(sim)	7.828	117	2669	0.036	ppbv	98
90) 1,1-Dichloroethene(sim)	5.284	61	1857m	0.040	ppbv	79
91) Trichlorotrifluoroetha...	5.534	101	2167	0.037	ppbv#	98
92) Trans-1,2-Dichloroethe...	5.976	61	1585m	0.039	ppbv	62
93) 1,1-Dichloroethane(sim)	6.110	63	1966	0.037	ppbv	95
94) Cis-1,2-Dichloroethene...	6.637	61	1606m	0.040	ppbv	84
95) Chloroform(sim)	6.824	83	2273	0.036	ppbv#	87
97) 1,2-dichloropropane(sim)	8.240	63	1408	0.039	ppbv#	77
98) Bromdichloromethane(sim)	8.351	83	2594m	0.037	ppbv	50
99) Trichloroethene(sim)	8.373	130	1769	0.039	ppbv	97
100) 1,4-Dioxane(sim)	8.418	88	767m	0.043	ppbv	76
101) cis-1,3-Dichloropropen...	8.886	75	1961	0.036	ppbv#	30
102) 1,1,2-Trichloroethane(...)	9.294	97	1349m	0.037	ppbv	67
103) Dibromchloromethane(sim)	9.712	129	2783	0.038	ppbv	93
104) 1,2-Dibromoethane(EDB)...	9.857	107	2059m	0.039	ppbv	90
105) Tetrachloroethene(sim)	10.109	166	2289	0.037	ppbv	99
107) Bromoform(sim)	10.856	173	2447	0.035	ppbv	97
108) m p-Xylene(sim)	10.789	91	7542	0.075	ppbv	96
109) 1,1,2,2-Tetrachloroeth...	11.051	83	2965	0.038	ppbv	93
112) Benzyl chloride(sim)	12.142	91	2481	0.033	ppbv#	62
113) 1,3-Dichlorobenzene(sim)	12.158	146	2394	0.033	ppbv	96
114) 1,4-Dichlorobenzene(sim)	12.204	146	1637	0.028	ppbv	88
115) sec-Butylbenzene(sim)	12.045	105	4788	0.038	ppbv	99
116) 4-Isopropyltoluene(sim)	12.302	119	6818m	0.040	ppbv	80
117) 1,2-Dichlorobenzene(sim)	12.425	146	2502	0.035	ppbv	98
118) n-Butylbenzene(sim)	12.569	91	4142m	0.037	ppbv	83
119) 1,2,4-Trichlorobenzene...	13.564	180	1130	0.043	ppbv	92
121) Hexachlorobutadiene(sim)	13.882	225	3567	0.040	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
Data File : 1211_08.D
Acq On : 11 Dec 2020 9:50 pm
Operator :
Client ID : ICAL 0.035
Lab ID : 0.035
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 14 09:23:08 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Dec 14 09:20:38 2020
Response via : Initial Calibration

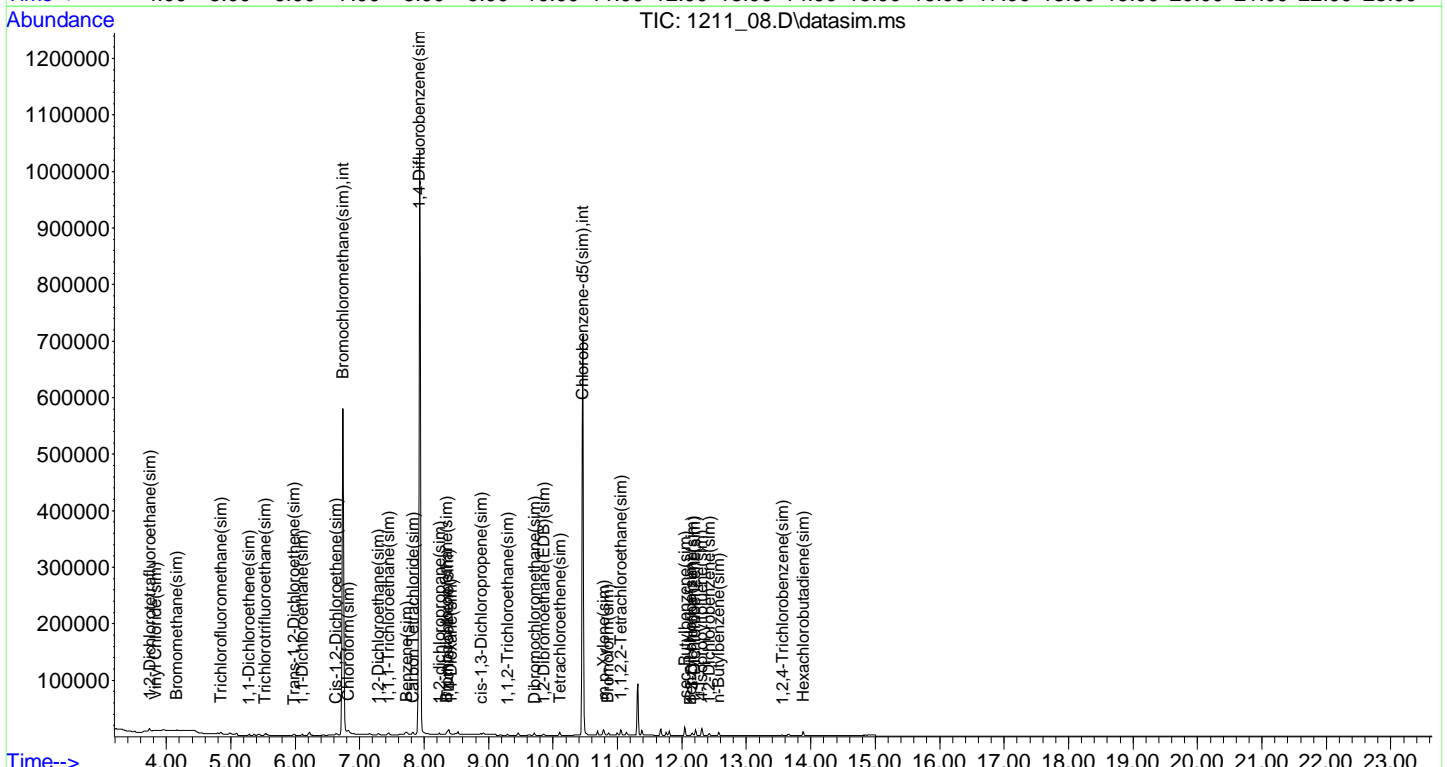
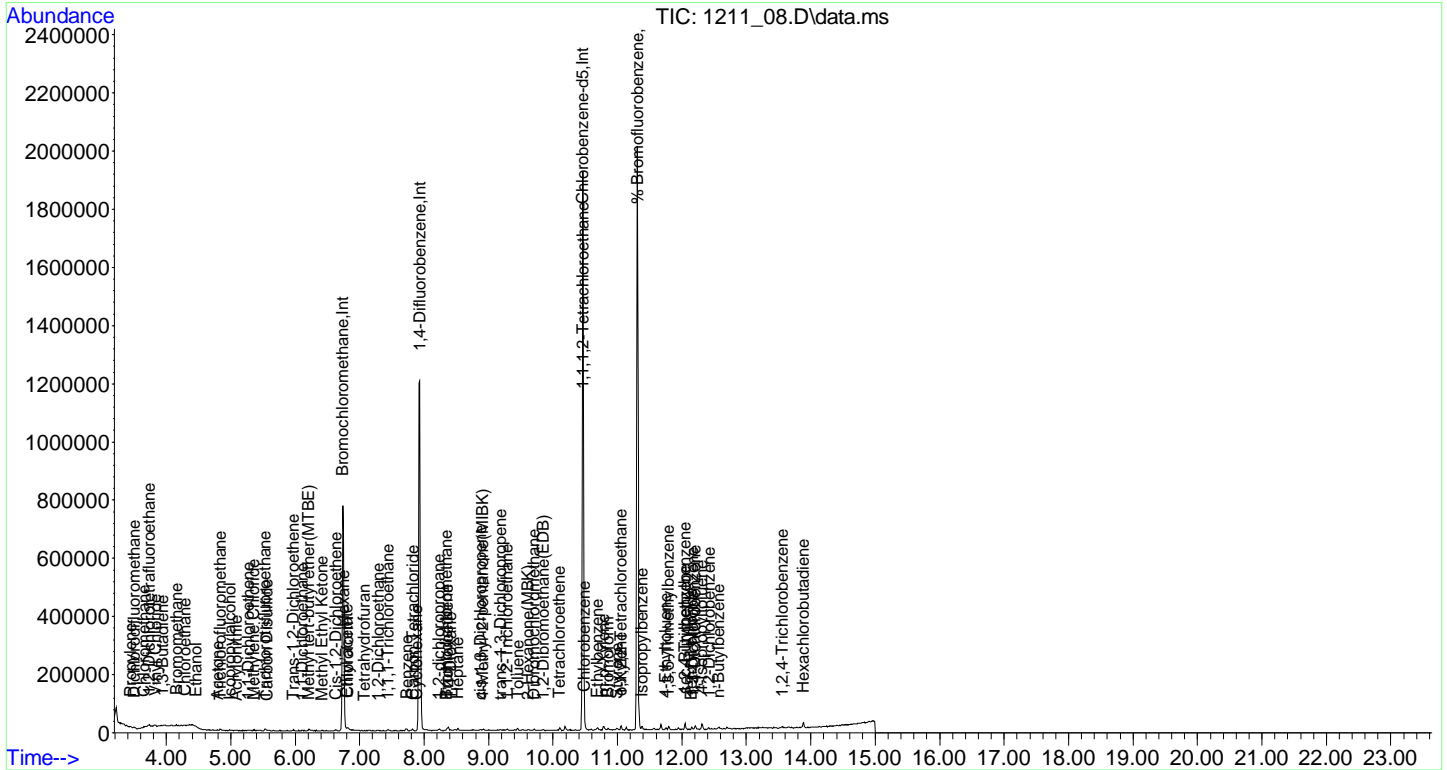
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_08.D
 Acq On : 11 Dec 2020 9:50 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 14 09:23:08 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 14 09:20:38 2020
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_09.D
 Acq On : 11 Dec 2020 10:26 pm
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 14 09:24:12 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:23:16 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	6.735	130	241065	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.922	114	921802	10.000	ng	-0.01
54) Chlorobenzene-d5	10.461	82	428455	10.000	ng	0.00
81) Bromochloromethane(sim)	6.741	130	267043	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.922	114	920550	10.000	ng	-0.01
106) Chlorobenzene-d5(sim)	10.461	82	428455	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.312	95	508923	9.869	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.446	41	2397	0.103	ppbv#	64
3) Dichlorodifluoromethane	3.511	85	3684	0.058	ppbv#	74
4) Chloromethane	3.651	50	1933	0.077	ppbv	77
5) 1,2-Dichlorotetrafluor...	3.738	85	4144	0.068	ppbv#	87
6) Vinyl Chloride	3.835	62	1163	0.049	ppbv#	57
7) 1,3-Butadiene	3.932	54	2127	0.105	ppbv#	68
8) Bromomethane	4.169	94	1467	0.071	ppbv#	80
9) Chloroethane	4.287	64	746	0.066	ppbv#	16
11) Ethanol	4.460	45	988	0.081	ppbv#	1
12) Acetone	4.794	43	3554	0.083	ppbv#	83
13) Trichlorofluoromethane	4.848	101	3181	0.049	ppbv#	95
14) Isopropylalcohol	4.977	45	4219	0.075	ppbv	98
15) Acrylonitrile	5.074	53	1330	0.068	ppbv#	76
16) 1,1-Dichloroethene	5.279	61	2127	0.053	ppbv#	81
17) Methylene Chloride	5.356	49	1954	0.059	ppbv#	71
20) Carbon Disulfide	5.572	76	3708	0.058	ppbv#	63
21) Trichlorotrifluoroethane	5.529	101	2592	0.051	ppbv#	84
22) Trans-1,2-Dichloroethene	5.970	61	2076	0.056	ppbv#	83
23) 1,1-Dichloroethane	6.112	63	3005	0.069	ppbv#	62
24) Methyl tert-butyl ethe...	6.199	73	3711	0.052	ppbv#	78
26) Methyl Ethyl Ketone	6.420	43	2699	0.040	ppbv#	83
27) Cis-1,2-Dichloroethene	6.631	61	2205	0.062	ppbv	88
28) Hexane	6.756	57	2804	0.067	ppbv	100
29) Chloroform	6.819	83	3127	0.056	ppbv	93
30) Ethyl acetate	6.808	61	406	0.049	ppbv#	1
31) Tetrahydrofuran	7.058	42	177	0.005	ppbv	100
32) 1,2-Dichloroethane	7.287	62	1912	0.049	ppbv#	86
33) 1,1,1-Trichloroethane	7.444	97	3038	0.051	ppbv	92
34) Benzene	7.733	78	4243	0.058	ppbv#	82
35) Carbon Tetrachloride	7.822	117	3338	0.051	ppbv	93
36) Cyclohexane	7.911	41	2678	0.097	ppbv#	33
38) 1,2-dichloropropane	8.234	63	1931	0.068	ppbv#	78
39) Bromdichloromethane	8.345	83	3397	0.054	ppbv#	71
40) Trichloroethene	8.368	130	1893	0.054	ppbv	87
42) 1,4-Dioxane	8.412	88	995	0.062	ppbv	88
44) Heptane	8.524	43	4069	0.072	ppbv#	64
45) cis-1,3-Dichloropropene	8.880	75	2433	0.054	ppbv	67
46) 4-Methyl-2-pentanone(M..	8.913	43	3530	0.047	ppbv#	81
47) trans-1,3-Dichloropropene	9.182	75	2470	0.056	ppbv#	73
48) 1,1,2-Trichloroethane	9.289	97	2122	0.066	ppbv#	68
49) Toluene	9.454	91	5305	0.057	ppbv#	95
50) Dibromochloromethane	9.706	129	2911	0.046	ppbv#	91
51) 2-Hexanone (MBK)	9.609	43	2263	0.034	ppbv#	78
52) 1,2-Dibromethane (EDB)	9.851	107	2153	0.043	ppbv	86

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_09.D
 Acq On : 11 Dec 2020 10:26 pm
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 14 09:24:12 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:23:16 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
53) Tetrachloroethene	10.104	166	2390	0.049	ppbv#	91
55) 1,1,1,2-Tetrachloroethane	10.471	131	1989	0.049	ppbv#	95
56) Chlorobenzene	10.492	112	4005	0.059	ppbv#	76
57) Ethylbenzene	10.686	91	6696	0.057	ppbv	94
58) m p-Xylene	10.779	91	8983	0.102	ppbv	93
59) Bromoform	10.850	173	2935	0.054	ppbv	96
60) Styrene	10.994	104	3203	0.048	ppbv#	84
61) 1,1,2,2-Tetrachloroethane	11.055	83	3737	0.060	ppbv	87
62) o-Xylene	11.055	91	5351	0.058	ppbv	94
65) Isopropylbenzene	11.373	105	6860	0.054	ppbv	92
67) 4-Ethyltoluene	11.752	105	6215	0.050	ppbv	92
68) 1,3,5-Trimethylbenzene	11.794	105	6131	0.058	ppbv#	86
69) 1,2,4-Trimethylbenzene	12.050	105	5997	0.056	ppbv	92
71) Benzyl chloride	12.142	91	3782	0.051	ppbv#	73
72) 1,3-Dichlorobenzene	12.153	146	2817	0.045	ppbv	92
73) 1,4-Dichlorobenzene	12.194	146	2446	0.043	ppbv#	88
74) sec-Butylbenzene	12.050	105	5997	0.056	ppbv	94
75) 4-Isopropyltoluene	12.307	119	8214	0.057	ppbv	93
76) 1,2-Dichlorobenzene	12.419	146	3014	0.049	ppbv	99
77) n-Butylbenzene	12.573	91	5065	0.047	ppbv#	90
78) 1,2,4-Trichlorobenzene	13.558	180	1261	0.045	ppbv#	81
80) Hexachlorobutadiene	13.887	225	3825	0.064	ppbv	96
82) 1,2-Dichlorotetrafluor...	3.743	85	3592m	0.054	ppbv	82
83) Vinyl Chloride(sim)	3.840	62	1399	0.052	ppbv	94
84) Bromomethane(sim)	4.163	94	1266m	0.054	ppbv	76
85) Trichlorofluoromethane...	4.853	101	3627	0.051	ppbv#	98
86) 1,2-Dichloroethane(sim)	7.287	62	1912	0.047	ppbv#	85
87) 1,1,1-Trichloroethane(...)	7.449	97	3268	0.050	ppbv#	99
88) Benzene(sim)	7.733	78	4243	0.054	ppbv#	82
89) Carbon Tetrachloride(sim)	7.828	117	3660	0.051	ppbv	96
90) 1,1-Dichloroethene(sim)	5.279	61	2127	0.048	ppbv#	78
91) Trichlorotrifluoroetha...	5.534	101	2851	0.050	ppbv#	98
92) Trans-1,2-Dichloroetha...	5.970	61	2076	0.052	ppbv#	88
93) 1,1-Dichloroethane(sim)	6.110	63	2535	0.050	ppbv	94
94) Cis-1,2-Dichloroethene...	6.637	61	2000m	0.051	ppbv	96
95) Chloroform(sim)	6.824	83	3099	0.051	ppbv	90
97) 1,2-dichloropropane(sim)	8.240	63	1735	0.050	ppbv	96
98) Bromdichloromethane(sim)	8.345	83	3397	0.050	ppbv	87
99) Trichloroethene(sim)	8.373	130	2094	0.048	ppbv	95
100) 1,4-Dioxane(sim)	8.418	88	871m	0.050	ppbv	51
101) cis-1,3-Dichloropropen...	8.874	75	2581	0.049	ppbv	96
102) 1,1,2-Trichloroethane(...)	9.294	97	1882m	0.054	ppbv	58
103) Dibromochloromethane(sim)	9.711	129	3474	0.049	ppbv	94
104) 1,2-Dibromoethane(EDB)...	9.857	107	2672m	0.052	ppbv	83
105) Tetrachloroethene(sim)	10.109	166	2918	0.049	ppbv	97
107) Bromoform(sim)	10.856	173	3278	0.050	ppbv	97
108) m p-Xylene(sim)	10.779	91	9731	0.102	ppbv	98
109) 1,1,2,2-Tetrachloroeth...	11.051	83	3832	0.052	ppbv	98
112) Benzyl chloride(sim)	12.142	91	3782	0.053	ppbv	73
113) 1,3-Dichlorobenzene(sim)	12.158	146	2926m	0.043	ppbv	93
114) 1,4-Dichlorobenzene(sim)	12.199	146	2720m	0.049	ppbv	88
115) sec-Butylbenzene(sim)	12.045	105	6334	0.053	ppbv	99
116) 4-Isopropyltoluene(sim)	12.307	119	8214	0.050	ppbv#	92
117) 1,2-Dichlorobenzene(sim)	12.415	146	3284	0.048	ppbv	96
118) n-Butylbenzene(sim)	12.573	91	5065	0.048	ppbv	91
119) 1,2,4-Trichlorobenzene...	13.554	180	1374	0.055	ppbv	97
121) Hexachlorobutadiene(sim)	13.882	225	4372	0.051	ppbv	97

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
Data File : 1211_09.D
Acq On : 11 Dec 2020 10:26 pm
Operator :
Client ID : ICAL 0.05
Lab ID : 0.05
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 14 09:24:12 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Dec 14 09:23:16 2020
Response via : Initial Calibration

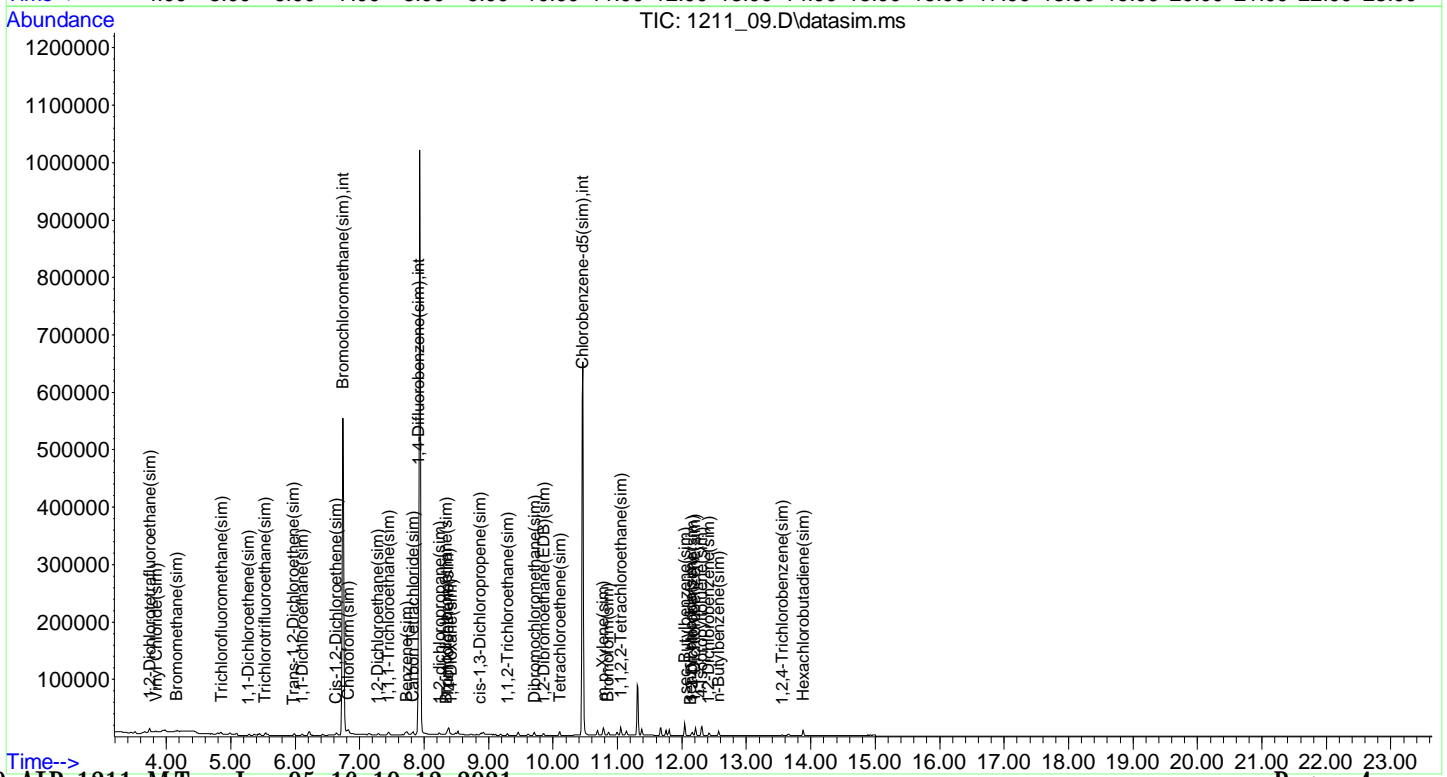
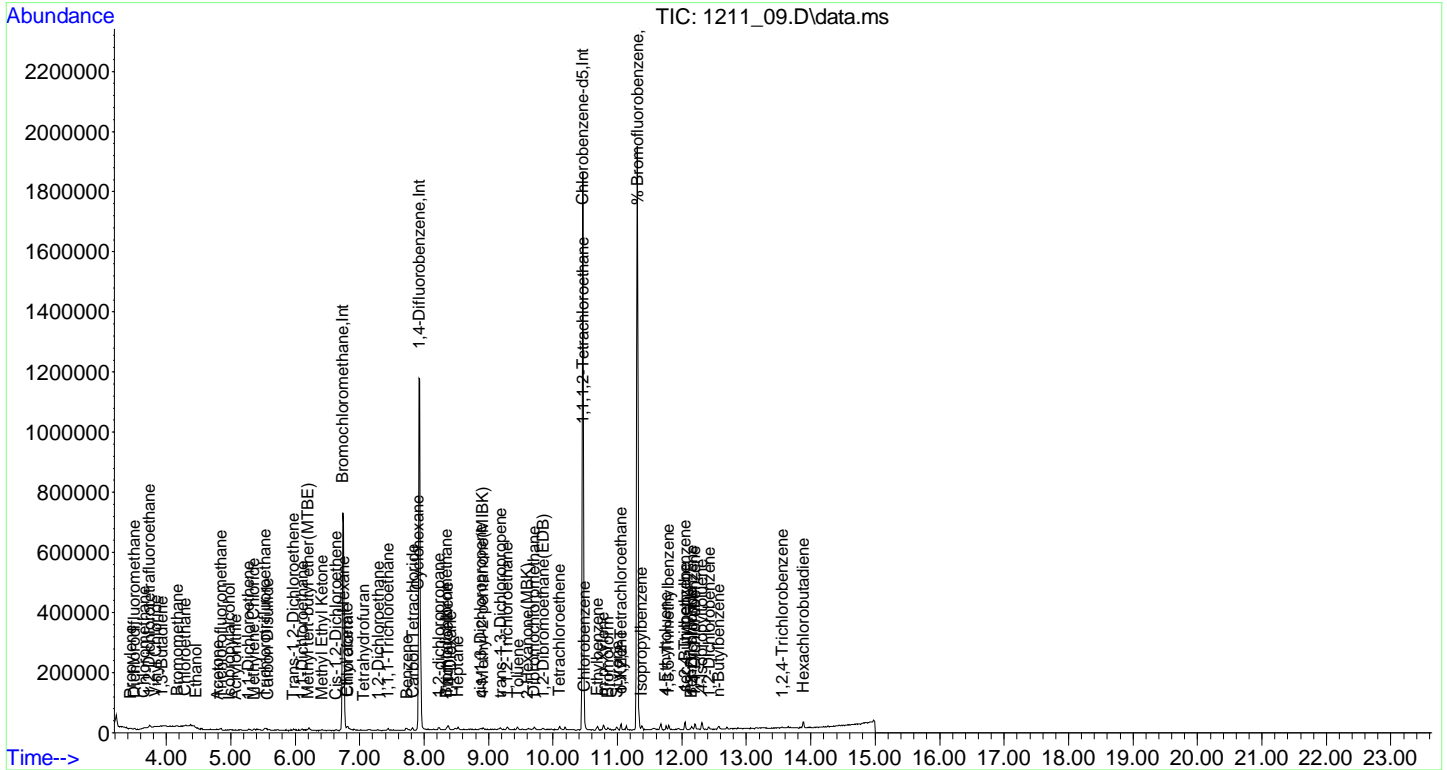
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_09.D
 Acq On : 11 Dec 2020 10:26 pm
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 14 09:24:12 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 14 09:23:16 2020
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_10.D
 Acq On : 11 Dec 2020 11:02 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 14 09:24:33 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:24:25 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.735	130	215823	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.922	114	863614	10.000	ng	0.00
54) Chlorobenzene-d5	10.461	82	407278	10.000	ng	0.00
81) Bromchloromethane(sim)	6.741	130	250279	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.922	114	863614	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.461	82	407149	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromfluorobenzene	11.312	95	487143	9.938	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.447	41	3758	0.180	ppbv	87
3) Dichlorodifluoromethane	3.500	85	6564	0.115	ppbv#	94
4) Chloromethane	3.641	50	3059	0.137	ppbv	85
5) 1,2-Dichlorotetrafluor...	3.738	85	6857	0.126	ppbv	98
6) Vinyl Chloride	3.835	62	2308	0.109	ppbv	83
7) 1,3-Butadiene	3.932	54	2728	0.150	ppbv#	65
8) Bromomethane	4.158	94	2077	0.112	ppbv#	53
9) Chloroethane	4.287	64	1417	0.140	ppbv#	37
11) Ethanol	4.449	45	2227	0.205	ppbv#	81
12) Acetone	4.794	43	5132	0.133	ppbv	98
13) Trichlorofluoromethane	4.848	101	6428	0.111	ppbv#	94
14) Isopropylalcohol	4.977	45	6989	0.139	ppbv	97
15) Acrylonitrile	5.085	53	2264	0.130	ppbv#	91
16) 1,1-Dichloroethene	5.279	61	4342	0.120	ppbv#	82
17) Methylene Chloride	5.356	49	3559	0.120	ppbv	88
20) Carbon Disulfide	5.563	76	6508	0.114	ppbv	94
21) Trichlorotrifluoroethane	5.537	101	5010	0.110	ppbv	91
22) Trans-1,2-Dichloroethene	5.978	61	3650	0.110	ppbv	93
23) 1,1-Dichloroethane	6.104	63	4526	0.117	ppbv	87
24) Methyl tert-butyl ethe...	6.191	73	8132	0.127	ppbv#	77
26) Methyl Ethyl Ketone	6.404	43	8615	0.141	ppbv#	83
27) Cis-1,2-Dichloroethene	6.631	61	3493	0.110	ppbv	89
28) Hexane	6.767	57	4629	0.124	ppbv#	90
29) Chloroform	6.819	83	5669	0.114	ppbv	85
30) Ethyl acetate	6.819	61	923	0.124	ppbv#	50
31) Tetrahydrofuran	7.006	42	733	0.023	ppbv	100
32) 1,2-Dichloroethane	7.287	62	3714	0.105	ppbv	91
33) 1,1,1-Trichloroethane	7.444	97	6234	0.116	ppbv	92
34) Benzene	7.722	78	7184	0.110	ppbv#	87
35) Carbon Tetrachloride	7.822	117	6334	0.108	ppbv	97
36) Cyclohexane	7.889	41	3028	0.122	ppbv	94
38) 1,2-dichloropropane	8.234	63	2827	0.106	ppbv	91
39) Bromdichloromethane	8.345	83	7273	0.124	ppbv	84
40) Trichloroethene	8.368	130	3480	0.105	ppbv	99
42) 1,4-Dioxane	8.401	88	2066	0.137	ppbv#	85
44) Heptane	8.524	43	6533	0.123	ppbv#	91
45) cis-1,3-Dichloropropene	8.880	75	4606	0.109	ppbv#	73
46) 4-Methyl-2-pentanone(M..	8.913	43	7704	0.109	ppbv#	97
47) trans-1,3-Dichloropropene	9.182	75	3872	0.094	ppbv#	88
48) 1,1,2-Trichloroethane	9.289	97	3230	0.107	ppbv	85
49) Toluene	9.454	91	9010	0.104	ppbv	95
50) Dibromchloromethane	9.706	129	6197	0.106	ppbv#	90
51) 2-Hexanone (MBK)	9.589	43	5833	0.094	ppbv#	92
52) 1,2-Dibromethane (EDB)	9.852	107	4490	0.096	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_10.D
 Acq On : 11 Dec 2020 11:02 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 14 09:24:33 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:24:25 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
53) Tetrachloroethene	10.104	166	5151	0.113	ppbv	87
55) 1,1,1,2-Tetrachloroethane	10.471	131	4583	0.118	ppbv	97
56) Chlorobenzene	10.481	112	7367	0.114	ppbv#	48
57) Ethylbenzene	10.686	91	13137	0.118	ppbv	93
58) m p-Xylene	10.779	91	20150	0.241	ppbv	89
59) Bromoform	10.850	173	5948	0.114	ppbv	92
60) Styrene	10.994	104	6181	0.098	ppbv#	91
61) 1,1,2,2-Tetrachloroethane	11.045	83	7346	0.124	ppbv	98
62) o-Xylene	11.045	91	10117	0.114	ppbv	94
65) Isopropylbenzene	11.373	105	13111	0.108	ppbv	96
67) 4-Ethyltoluene	11.752	105	12225	0.103	ppbv#	93
68) 1,3,5-Trimethylbenzene	11.794	105	12152	0.121	ppbv	97
69) 1,2,4-Trimethylbenzene	12.050	105	11483	0.114	ppbv#	93
71) Benzyl chloride	12.142	91	6435	0.091	ppbv#	84
72) 1,3-Dichlorobenzene	12.153	146	5027	0.085	ppbv#	88
73) 1,4-Dichlorobenzene	12.194	146	5124	0.096	ppbv#	82
74) sec-Butylbenzene	12.050	105	11483	0.114	ppbv#	93
75) 4-Isopropyltoluene	12.296	119	15191	0.110	ppbv	95
76) 1,2-Dichlorobenzene	12.419	146	5382	0.092	ppbv	88
77) n-Butylbenzene	12.563	91	9216	0.090	ppbv	94
78) 1,2,4-Trichlorobenzene	13.548	180	1590	0.059	ppbv#	60
80) Hexachlorobutadiene	13.877	225	6403	0.112	ppbv	95
82) 1,2-Dichlorotetrafluor...	3.738	85	6857	0.111	ppbv	92
83) Vinyl Chloride(sim)	3.829	62	2549	0.101	ppbv	97
84) Bromomethane(sim)	4.158	94	2077	0.094	ppbv#	59
85) Trichlorofluoromethane...	4.843	101	7062	0.106	ppbv#	99
86) 1,2-Dichloroethane(sim)	7.287	62	3714	0.098	ppbv	91
87) 1,1,1-Trichloroethane(...)	7.449	97	6333	0.102	ppbv#	99
88) Benzene(sim)	7.722	78	7184	0.098	ppbv#	87
89) Carbon Tetrachloride(sim)	7.828	117	6889	0.102	ppbv	99
90) 1,1-Dichloroethene(sim)	5.279	61	4342	0.105	ppbv#	82
91) Trichlorotrifluoroetha...	5.534	101	5613	0.105	ppbv#	98
92) Trans-1,2-Dichloroethe...	5.978	61	3650	0.098	ppbv	93
93) 1,1-Dichloroethane(sim)	6.110	63	4796	0.101	ppbv	99
94) Cis-1,2-Dichloroethene...	6.631	61	3493	0.096	ppbv	97
95) Chloroform(sim)	6.824	83	5802	0.103	ppbv#	92
97) 1,2-dichloropropane(sim)	8.229	63	3296	0.101	ppbv	97
98) Bromdichloromethane(sim)	8.345	83	7273	0.114	ppbv	92
99) Trichloroethene(sim)	8.373	130	4138	0.101	ppbv	98
100) 1,4-Dioxane(sim)	8.401	88	2066	0.127	ppbv#	96
101) cis-1,3-Dichloropropen...	8.874	75	4912	0.100	ppbv	99
102) 1,1,2-Trichloroethane(...)	9.289	97	3109	0.095	ppbv	93
103) Dibromchloromethane(sim)	9.712	129	6852	0.102	ppbv	98
104) 1,2-Dibromoethane(EDB)...	9.852	107	4274	0.089	ppbv#	72
105) Tetrachloroethene(sim)	10.109	166	5704	0.102	ppbv	98
107) Bromoform(sim)	10.856	173	6409	0.102	ppbv	99
108) m p-Xylene(sim)	10.779	91	20150	0.222	ppbv	94
109) 1,1,2,2-Tetrachloroeth...	11.051	83	7054	0.100	ppbv	97
112) Benzyl chloride(sim)	12.142	91	6435	0.095	ppbv	84
113) 1,3-Dichlorobenzene(sim)	12.158	146	6173	0.095	ppbv	95
114) 1,4-Dichlorobenzene(sim)	12.194	146	5124	0.098	ppbv	90
115) sec-Butylbenzene(sim)	12.045	105	12163	0.106	ppbv	99
116) 4-Isopropyltoluene(sim)	12.296	119	15191	0.098	ppbv	96
117) 1,2-Dichlorobenzene(sim)	12.415	146	6503	0.101	ppbv	98
118) n-Butylbenzene(sim)	12.563	91	9216	0.091	ppbv	93
119) 1,2,4-Trichlorobenzene...	13.554	180	2479	0.104	ppbv	99
121) Hexachlorobutadiene(sim)	13.882	225	8027	0.098	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
Data File : 1211_10.D
Acq On : 11 Dec 2020 11:02 pm
Operator :
Client ID : ICAL 0.1
Lab ID : 0.10
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 14 09:24:33 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Dec 14 09:24:25 2020
Response via : Initial Calibration

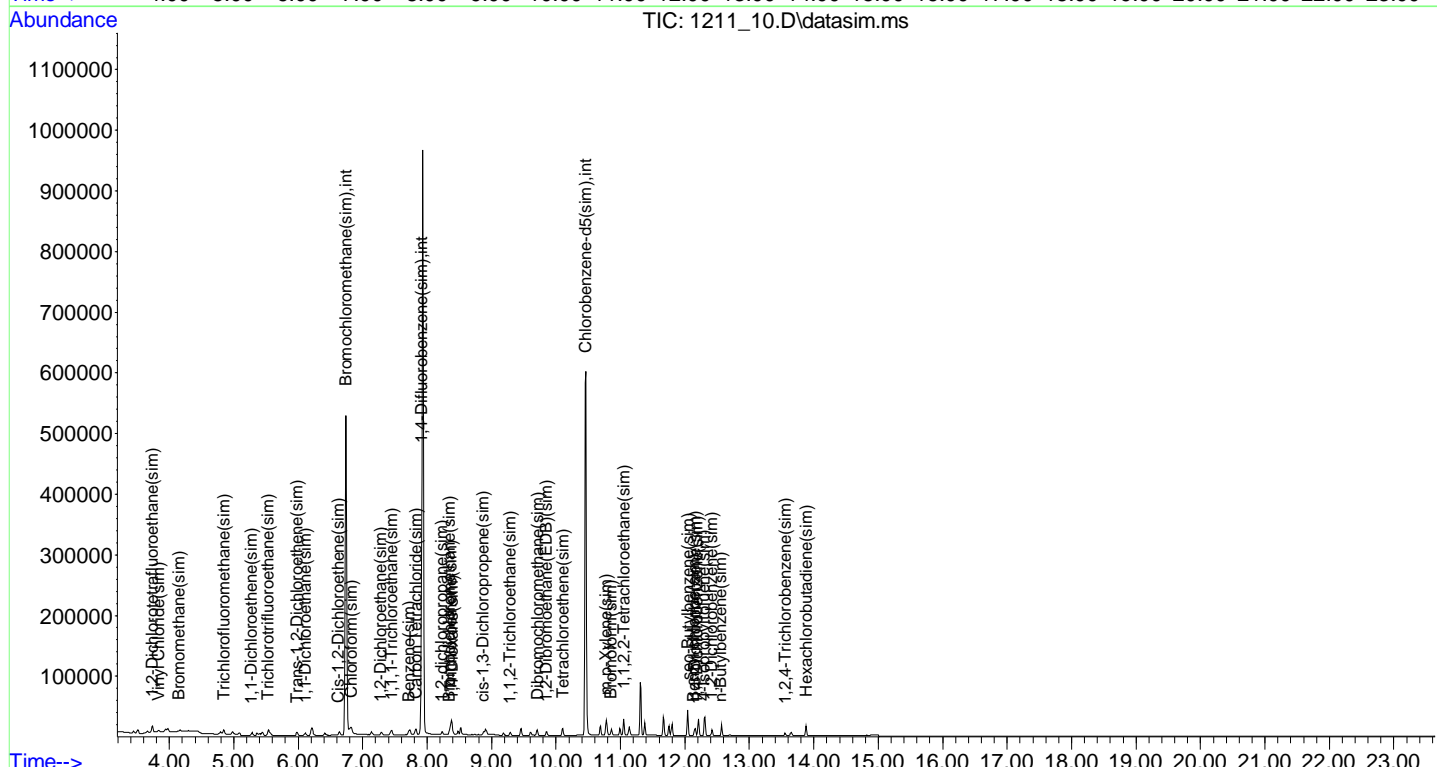
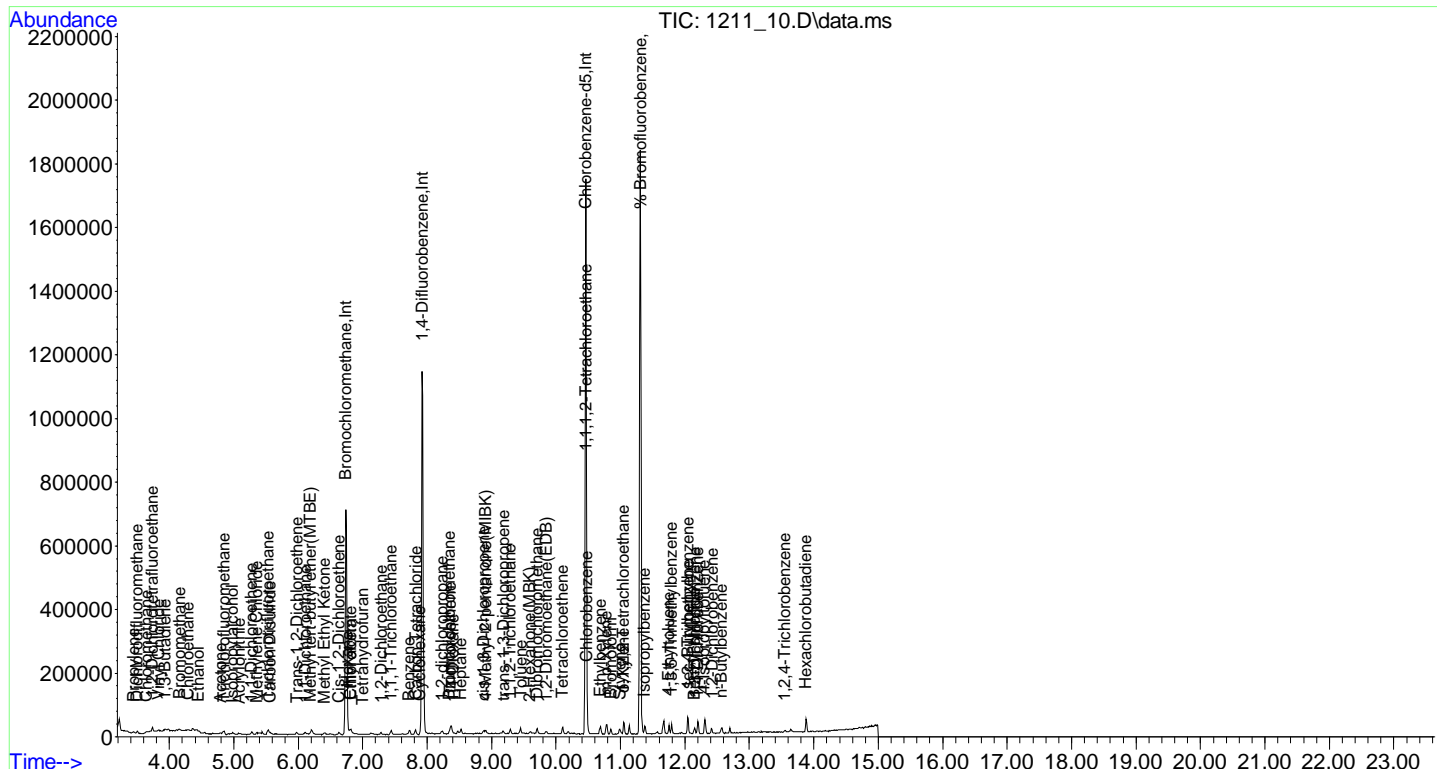
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_10.D
 Acq On : 11 Dec 2020 11:02 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 14 09:24:33 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 14 09:24:25 2020
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_11.D
 Acq On : 11 Dec 2020 11:39 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.2
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 14 09:18:53 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:18:42 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.735	130	216368	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.922	114	850278	10.000	ng	0.00
54) Chlorobenzene-d5	10.461	82	399915	10.000	ng	0.00
81) Bromchloromethane(sim)	6.741	130	245787	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.922	114	850278	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.461	82	399915	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromfluorobenzene	11.312	95	486222	10.116	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.447	41	4431	0.212	ppbv#	73
3) Dichlorodifluoromethane	3.500	85	11884	0.208	ppbv	97
4) Chloromethane	3.641	50	5104	0.228	ppbv	90
5) 1,2-Dichlorotetrafluor...	3.727	85	11114	0.204	ppbv	93
6) Vinyl Chloride	3.824	62	4125	0.195	ppbv	86
7) 1,3-Butadiene	3.932	54	3388	0.186	ppbv#	63
8) Bromomethane	4.147	94	4597	0.246	ppbv#	66
9) Chloroethane	4.287	64	1981	0.195	ppbv	95
11) Ethanol	4.438	45	2812	0.258	ppbv#	49
12) Acetone	4.783	43	7002	0.181	ppbv#	71
13) Trichlorofluoromethane	4.837	101	11490	0.197	ppbv	98
14) Isopropylalcohol	4.966	45	11245	0.224	ppbv	92
15) Acrylonitrile	5.074	53	3642	0.209	ppbv#	92
16) 1,1-Dichloroethene	5.279	61	7518	0.207	ppbv	92
17) Methylene Chloride	5.356	49	6205	0.209	ppbv	92
20) Carbon Disulfide	5.555	76	11193	0.195	ppbv	97
21) Trichlorotrifluoroethane	5.529	101	9406	0.206	ppbv	92
22) Trans-1,2-Dichloroethene	5.970	61	6880	0.208	ppbv	87
23) 1,1-Dichloroethane	6.104	63	7868	0.202	ppbv	94
24) Methyl tert-butyl ethe...	6.183	73	13355	0.208	ppbv	91
26) Methyl Ethyl Ketone	6.396	43	13972	0.229	ppbv	97
27) Cis-1,2-Dichloroethene	6.631	61	7010	0.219	ppbv	95
28) Hexane	6.756	57	8446	0.226	ppbv	96
29) Chloroform	6.819	83	10926	0.218	ppbv	96
30) Ethyl acetate	6.788	61	1333	0.179	ppbv#	46
31) Tetrahydrofuran	7.121	42	7409	0.231	ppbv	95
32) 1,2-Dichloroethane	7.277	62	6926	0.196	ppbv	96
33) 1,1,1-Trichloroethane	7.444	97	10755	0.199	ppbv	98
34) Benzene	7.722	78	13239	0.203	ppbv	98
35) Carbon Tetrachloride	7.811	117	12012	0.204	ppbv	100
36) Cyclohexane	7.900	41	5077	0.204	ppbv#	67
38) 1,2-dichloropropane	8.234	63	5142	0.197	ppbv	94
39) Bromdichloromethane	8.345	83	11685	0.203	ppbv	98
40) Trichloroethene	8.368	130	6304	0.193	ppbv	90
42) 1,4-Dioxane	8.390	88	2598	0.176	ppbv#	98
44) Heptane	8.524	43	10543	0.201	ppbv#	93
45) cis-1,3-Dichloropropene	8.880	75	8280	0.200	ppbv	93
46) 4-Methyl-2-pentanone(M..	8.902	43	14445	0.208	ppbv	94
47) trans-1,3-Dichloropropene	9.172	75	7239	0.179	ppbv	92
48) 1,1,2-Trichloroethane	9.289	97	6083	0.204	ppbv	97
49) Toluene	9.454	91	16945	0.199	ppbv	98
50) Dibromchloromethane	9.706	129	10973	0.190	ppbv	93
51) 2-Hexanone (MBK)	9.589	43	10707	0.176	ppbv#	91
52) 1,2-Dibromethane (EDB)	9.852	107	9019	0.196	ppbv	97

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_11.D
 Acq On : 11 Dec 2020 11:39 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.2
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 14 09:18:53 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:18:42 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
53) Tetrachloroethene	10.104	166	8970	0.200	ppbv	98
55) 1,1,1,2-Tetrachloroethane	10.471	131	7876	0.206	ppbv	96
56) Chlorobenzene	10.481	112	12897	0.202	ppbv#	63
57) Ethylbenzene	10.686	91	21888	0.200	ppbv	98
58) m p-Xylene	10.779	91	34977	0.425	ppbv	99
59) Bromoform	10.850	173	9876	0.193	ppbv	97
60) Styrene	10.994	104	12776	0.206	ppbv	97
61) 1,1,2,2-Tetrachloroethane	11.045	83	12155	0.209	ppbv	100
62) o-Xylene	11.045	91	17216	0.198	ppbv	95
65) Isopropylbenzene	11.373	105	24716	0.208	ppbv	97
67) 4-Ethyltoluene	11.753	105	22692	0.195	ppbv	99
68) 1,3,5-Trimethylbenzene	11.794	105	20642	0.209	ppbv	97
69) 1,2,4-Trimethylbenzene	12.050	105	20830	0.210	ppbv	92
71) Benzyl chloride	12.142	91	11219	0.161	ppbv	96
72) 1,3-Dichlorobenzene	12.153	146	9822	0.169	ppbv	90
73) 1,4-Dichlorobenzene	12.194	146	9149	0.174	ppbv#	85
74) sec-Butylbenzene	12.050	105	20830	0.210	ppbv	96
75) 4-Isopropyltoluene	12.296	119	27654	0.204	ppbv	98
76) 1,2-Dichlorobenzene	12.409	146	10532	0.183	ppbv	92
77) n-Butylbenzene	12.563	91	17749	0.177	ppbv	97
78) 1,2,4-Trichlorobenzene	13.548	180	3916	0.149	ppbv	100
80) Hexachlorobutadiene	13.877	225	12468	0.223	ppbv	94
82) 1,2-Dichlorotetrafluor...	3.727	85	11113	0.182	ppbv	93
83) Vinyl Chloride(sim)	3.829	62	4519	0.182	ppbv	98
84) Bromomethane(sim)	4.147	94	4597	0.213	ppbv#	66
85) Trichlorofluoromethane...	4.843	101	12653	0.194	ppbv#	100
86) 1,2-Dichloroethane(sim)	7.277	62	6926	0.187	ppbv	96
87) 1,1,1-Trichloroethane(...)	7.439	97	11584	0.191	ppbv#	99
88) Benzene(sim)	7.722	78	13239	0.183	ppbv	98
89) Carbon Tetrachloride(sim)	7.816	117	12623	0.190	ppbv	99
90) 1,1-Dichloroethene(sim)	5.279	61	7518	0.184	ppbv	92
91) Trichlorotrifluoroetha...	5.534	101	9867	0.188	ppbv#	99
92) Trans-1,2-Dichloroethe...	5.970	61	6880	0.189	ppbv	87
93) 1,1-Dichloroethane(sim)	6.110	63	8669	0.186	ppbv	99
94) Cis-1,2-Dichloroethene...	6.631	61	7010	0.196	ppbv	95
95) Chloroform(sim)	6.814	83	10427	0.188	ppbv	97
97) 1,2-dichloropropane(sim)	8.229	63	5824	0.182	ppbv	99
98) Bromdichloromethane(sim)	8.345	83	11685	0.186	ppbv	98
99) Trichloroethene(sim)	8.373	130	7420	0.184	ppbv	98
100) 1,4-Dioxane(sim)	8.390	88	2598	0.163	ppbv#	98
101) cis-1,3-Dichloropropen...	8.874	75	9174	0.189	ppbv	99
102) 1,1,2-Trichloroethane(...)	9.289	97	6083	0.190	ppbv	97
103) Dibromchloromethane(sim)	9.712	129	12488	0.189	ppbv	99
104) 1,2-Dibromoethane(EDB)...	9.852	107	9019	0.191	ppbv	97
105) Tetrachloroethene(sim)	10.109	166	10220	0.186	ppbv	99
107) Bromoform(sim)	10.856	173	11753	0.191	ppbv	100
108) m p-Xylene(sim)	10.779	91	34977	0.393	ppbv	99
109) 1,1,2,2-Tetrachloroeth...	11.051	83	12903	0.186	ppbv	100
112) Benzyl chloride(sim)	12.142	91	11219	0.169	ppbv	96
113) 1,3-Dichlorobenzene(sim)	12.158	146	12012	0.189	ppbv	99
114) 1,4-Dichlorobenzene(sim)	12.194	146	9149	0.178	ppbv	86
115) sec-Butylbenzene(sim)	12.045	105	22206	0.197	ppbv	99
116) 4-Isopropyltoluene(sim)	12.296	119	27654	0.182	ppbv	98
117) 1,2-Dichlorobenzene(sim)	12.415	146	12062	0.191	ppbv	100
118) n-Butylbenzene(sim)	12.563	91	17749	0.179	ppbv	97
119) 1,2,4-Trichlorobenzene...	13.554	180	4577	0.196	ppbv	100
121) Hexachlorobutadiene(sim)	13.882	225	14504	0.181	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
Data File : 1211_11.D
Acq On : 11 Dec 2020 11:39 pm
Operator :
Client ID : ICAL 0.2
Lab ID : 0.2
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 14 09:18:53 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Dec 14 09:18:42 2020
Response via : Initial Calibration

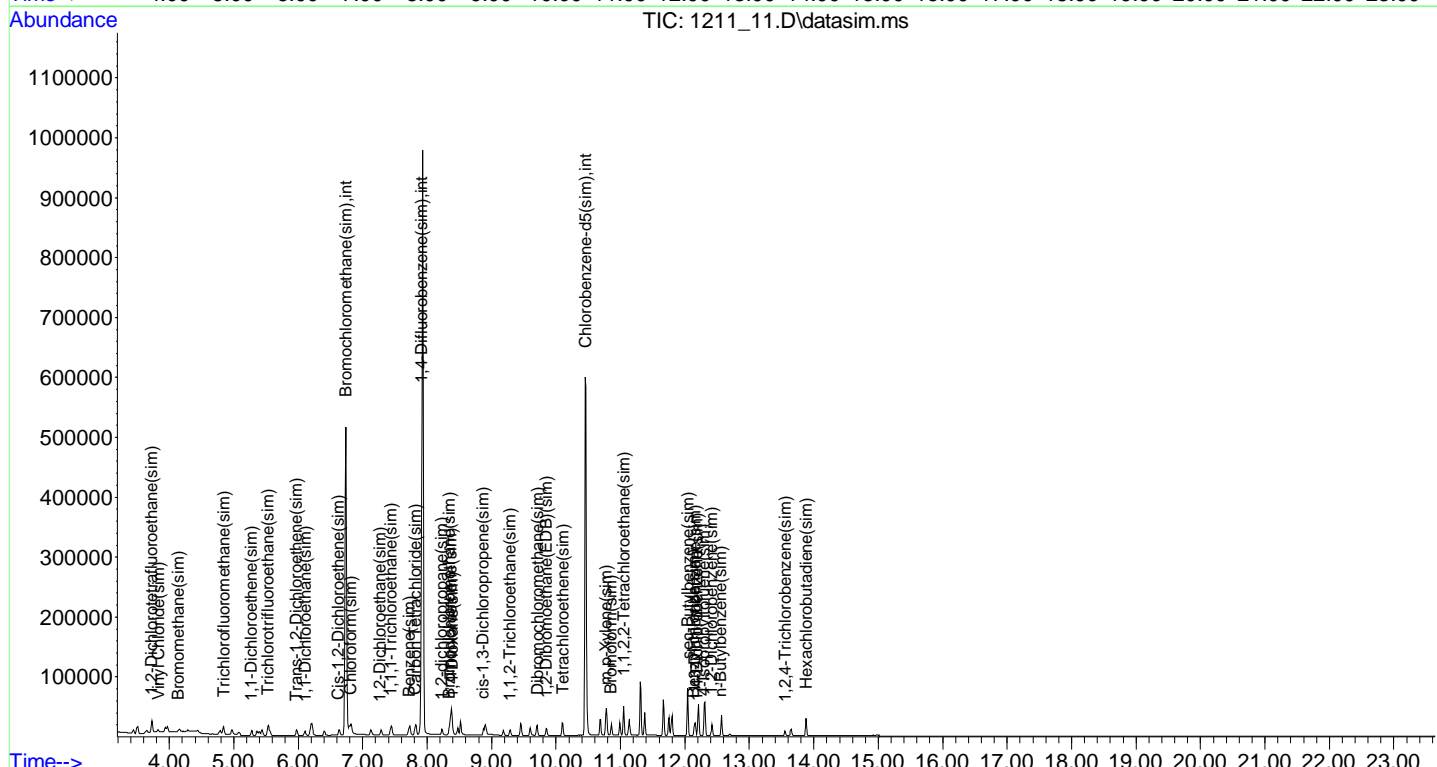
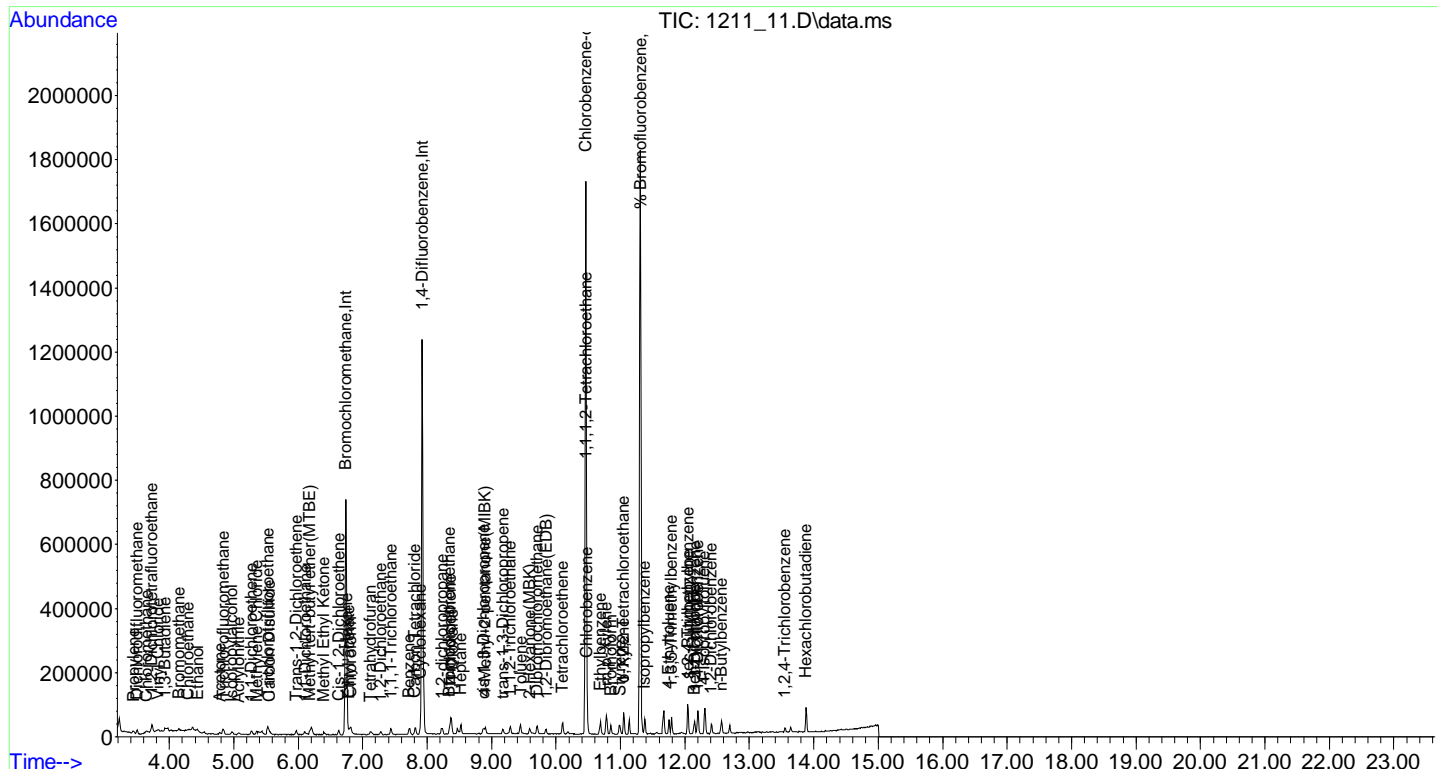
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_11.D
 Acq On : 11 Dec 2020 11:39 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.2
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 14 09:18:53 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 14 09:18:42 2020
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_12.D
 Acq On : 12 Dec 2020 12:17 am
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.50
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 14 09:18:27 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:18:15 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.735	130	212281	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.922	114	811712	10.000	ng	0.00
54) Chlorobenzene-d5	10.461	82	387143	10.000	ng	0.00
81) Bromchloromethane(sim)	6.741	130	237255	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.922	114	811712	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.461	82	387051	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromfluorobenzene	11.312	95	464587	9.983	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.414	41	11046	0.539	ppbv	95
3) Dichlorodifluoromethane	3.479	85	27558	0.492	ppbv	99
4) Chloromethane	3.619	50	11292	0.514	ppbv	94
5) 1,2-Dichlorotetrafluor...	3.705	85	25911	0.485	ppbv	99
6) Vinyl Chloride	3.802	62	10183	0.490	ppbv	95
7) 1,3-Butadiene	3.921	54	9448	0.528	ppbv#	92
8) Bromomethane	4.126	94	8175	0.447	ppbv#	74
9) Chloroethane	4.266	64	5179	0.520	ppbv	86
11) Ethanol	4.438	45	6421	0.601	ppbv#	75
12) Acetone	4.772	43	20974	0.553	ppbv	94
13) Trichlorofluoromethane	4.826	101	28085	0.492	ppbv	97
14) Isopropylalcohol	4.966	45	24584	0.498	ppbv#	90
15) Acrylonitrile	5.063	53	9193	0.537	ppbv	90
16) 1,1-Dichloroethene	5.262	61	17851	0.501	ppbv	94
17) Methylene Chloride	5.348	49	14985	0.515	ppbv	98
20) Carbon Disulfide	5.546	76	28069	0.499	ppbv	99
21) Trichlorotrifluoroethane	5.520	101	23118	0.516	ppbv	97
22) Trans-1,2-Dichloroethene	5.962	61	15343	0.472	ppbv	94
23) 1,1-Dichloroethane	6.096	63	19230	0.503	ppbv	98
24) Methyl tert-butyl ethe...	6.175	73	33138	0.525	ppbv	98
26) Methyl Ethyl Ketone	6.388	43	28802	0.481	ppbv#	97
27) Cis-1,2-Dichloroethene	6.631	61	15646	0.499	ppbv	96
28) Hexane	6.746	57	19138	0.522	ppbv	97
29) Chloroform	6.808	83	24770	0.505	ppbv	96
30) Ethyl acetate	6.787	61	3635	0.498	ppbv	95
31) Tetrahydrofuran	7.110	42	15090	0.480	ppbv	98
32) 1,2-Dichloroethane	7.277	62	16936	0.489	ppbv	97
33) 1,1,1-Trichloroethane	7.433	97	25860	0.488	ppbv	99
34) Benzene	7.722	78	30379	0.474	ppbv	97
35) Carbon Tetrachloride	7.811	117	27516	0.477	ppbv	95
36) Cyclohexane	7.889	41	12699	0.520	ppbv#	76
38) 1,2-dichloropropane	8.223	63	12507	0.501	ppbv	96
39) Bromdichloromethane	8.345	83	26777	0.486	ppbv	99
40) Trichloroethene	8.368	130	15028	0.483	ppbv	96
42) 1,4-Dioxane	8.390	88	6362	0.450	ppbv#	79
44) Heptane	8.524	43	27667	0.552	ppbv	94
45) cis-1,3-Dichloropropene	8.869	75	19391	0.490	ppbv	99
46) 4-Methyl-2-pentanone(M..	8.902	43	32237	0.487	ppbv	98
47) trans-1,3-Dichloropropene	9.172	75	18339	0.476	ppbv	92
48) 1,1,2-Trichloroethane	9.289	97	13815	0.486	ppbv	98
49) Toluene	9.454	91	39201	0.481	ppbv	99
50) Dibromchloromethane	9.706	129	27280	0.495	ppbv	93
51) 2-Hexanone (MBK)	9.589	43	25500	0.439	ppbv	97
52) 1,2-Dibromethane (EDB)	9.851	107	20327	0.464	ppbv	97

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_12.D
 Acq On : 12 Dec 2020 12:17 am
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.50
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 14 09:18:27 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:18:15 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
53) Tetrachloroethene	10.104	166	21234	0.497	ppbv	97
55) 1,1,1,2-Tetrachloroethane	10.471	131	18707	0.506	ppbv	90
56) Chlorobenzene	10.481	112	31868	0.517	ppbv	83
57) Ethylbenzene	10.686	91	54700	0.518	ppbv	99
58) m p-Xylene	10.779	91	83896	1.054	ppbv	98
59) Bromoform	10.850	173	25914	0.524	ppbv	98
60) Styrene	10.984	104	29417	0.490	ppbv	98
61) 1,1,2,2-Tetrachloroethane	11.045	83	28963	0.515	ppbv	95
62) o-Xylene	11.045	91	44589	0.530	ppbv	99
65) Isopropylbenzene	11.373	105	59677	0.518	ppbv	98
67) 4-Ethyltoluene	11.752	105	54689	0.487	ppbv	98
68) 1,3,5-Trimethylbenzene	11.794	105	50129	0.523	ppbv	99
69) 1,2,4-Trimethylbenzene	12.040	105	48711	0.508	ppbv	96
71) Benzyl chloride	12.142	91	26243	0.390	ppbv	99
72) 1,3-Dichlorobenzene	12.153	146	24832	0.442	ppbv	96
73) 1,4-Dichlorobenzene	12.194	146	22816	0.449	ppbv	96
74) sec-Butylbenzene	12.040	105	48711	0.508	ppbv	99
75) 4-Isopropyltoluene	12.296	119	65966	0.503	ppbv	97
76) 1,2-Dichlorobenzene	12.409	146	26035	0.468	ppbv	100
77) n-Butylbenzene	12.563	91	45771	0.472	ppbv	96
78) 1,2,4-Trichlorobenzene	13.548	180	8561	0.318	ppbv	94
80) Hexachlorobutadiene	13.877	225	28498	0.526	ppbv	97
82) 1,2-Dichlorotetrafluor...	3.705	85	25911	0.441	ppbv	99
83) Vinyl Chloride(sim)	3.808	62	10695	0.447	ppbv	99
84) Bromomethane(sim)	4.126	94	8175	0.392	ppbv#	74
85) Trichlorofluoromethane...	4.821	101	30200	0.479	ppbv#	100
86) 1,2-Dichloroethane(sim)	7.277	62	16936	0.472	ppbv	97
87) 1,1,1-Trichloroethane(...)	7.439	97	27613	0.471	ppbv#	99
88) Benzene(sim)	7.722	78	30379	0.435	ppbv	97
89) Carbon Tetrachloride(sim)	7.816	117	30280	0.473	ppbv	99
90) 1,1-Dichloroethene(sim)	5.262	61	17851	0.454	ppbv	93
91) Trichlorotrifluoroetha...	5.526	101	23404	0.461	ppbv#	99
92) Trans-1,2-Dichloroetha...	5.962	61	15343	0.437	ppbv	94
93) 1,1-Dichloroethane(sim)	6.102	63	21043	0.468	ppbv	100
94) Cis-1,2-Dichloroethene...	6.631	61	15646	0.453	ppbv	96
95) Chloroform(sim)	6.814	83	24819	0.463	ppbv	99
97) 1,2-dichloropropane(sim)	8.229	63	13703	0.448	ppbv	99
98) Bromdichloromethane(sim)	8.345	83	26777	0.446	ppbv	99
99) Trichloroethene(sim)	8.373	130	17591	0.457	ppbv	100
100) 1,4-Dioxane(sim)	8.390	88	6362	0.418	ppbv#	79
101) cis-1,3-Dichloropropen...	8.874	75	21680	0.468	ppbv	100
102) 1,1,2-Trichloroethane(...)	9.289	97	13815	0.451	ppbv	98
103) Dibromchloromethane(sim)	9.711	129	29684	0.471	ppbv	100
104) 1,2-Dibromoethane(EDB)...	9.851	107	20327	0.451	ppbv	97
105) Tetrachloroethene(sim)	10.100	166	24270	0.462	ppbv	99
107) Bromoform(sim)	10.856	173	28042	0.471	ppbv	100
108) m p-Xylene(sim)	10.779	91	83896	0.973	ppbv	99
109) 1,1,2,2-Tetrachloroeth...	11.051	83	30292	0.451	ppbv	100
112) Benzyl chloride(sim)	12.142	91	26243	0.410	ppbv	99
113) 1,3-Dichlorobenzene(sim)	12.158	146	27885	0.453	ppbv	100
114) 1,4-Dichlorobenzene(sim)	12.194	146	22684	0.456	ppbv	97
115) sec-Butylbenzene(sim)	12.045	105	54212	0.498	ppbv	96
116) 4-Isopropyltoluene(sim)	12.296	119	66163	0.450	ppbv	97
117) 1,2-Dichlorobenzene(sim)	12.415	146	28482	0.465	ppbv	99
118) n-Butylbenzene(sim)	12.563	91	45771	0.477	ppbv	96
119) 1,2,4-Trichlorobenzene...	13.554	180	10805	0.479	ppbv	99
121) Hexachlorobutadiene(sim)	13.882	225	34560	0.445	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
Data File : 1211_12.D
Acq On : 12 Dec 2020 12:17 am
Operator :
Client ID : ICAL 0.5
Lab ID : 0.50
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 14 09:18:27 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Dec 14 09:18:15 2020
Response via : Initial Calibration

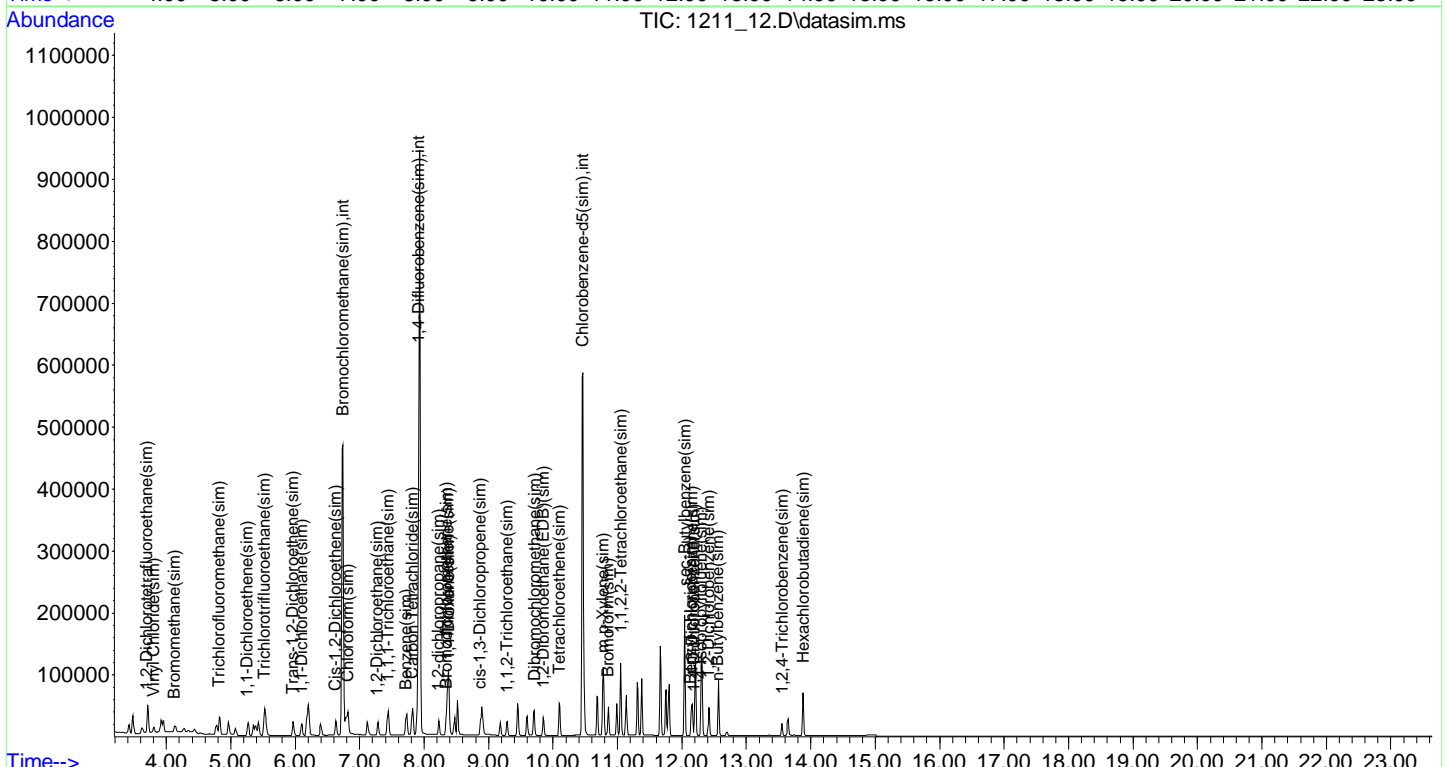
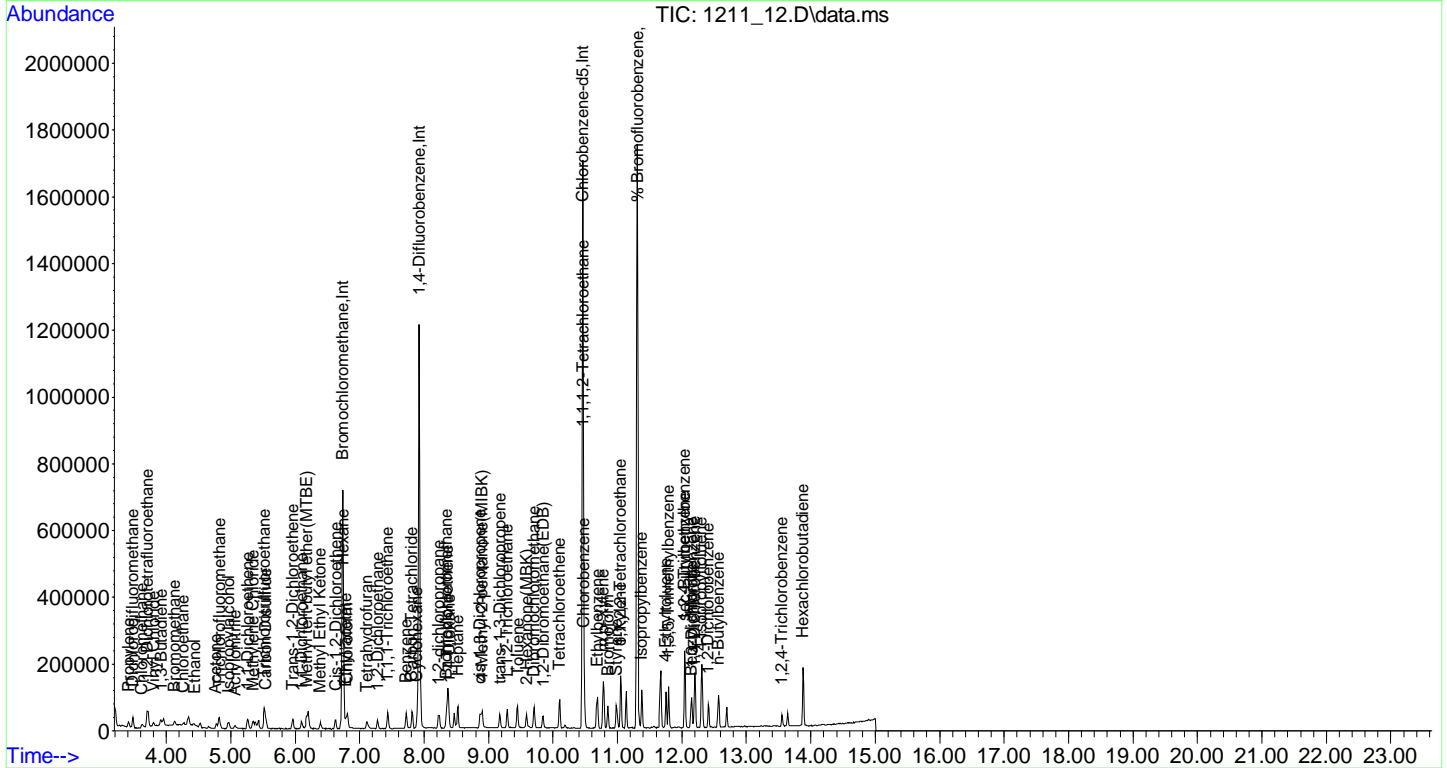
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_12.D
 Acq On : 12 Dec 2020 12:17 am
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.50
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 14 09:18:27 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 14 09:18:15 2020
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_13.D
 Acq On : 12 Dec 2020 12:55 am
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 14 09:18:06 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:17:55 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.735	130	206699	10.000	ng	-0.01
37) 1,4-Difluorobenzene	7.922	114	822522	10.000	ng	-0.01
54) Chlorobenzene-d5	10.461	82	400798	10.000	ng	0.00
81) Bromchloromethane(sim)	6.741	130	236015	10.000	ng	#-0.01
96) 1,4-Difluorobenzene(sim)	7.922	114	822333	10.000	ng	-0.01
106) Chlorobenzene-d5(sim)	10.461	82	400798	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromfluorobenzene	11.311	95	491119	10.233	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.30%
Target Compounds						
						Qvalue
2) Propylene	3.425	41	48074	2.407	ppbv	98
3) Dichlorodifluoromethane	3.479	85	125978	2.310	ppbv	99
4) Chloromethane	3.619	50	49682	2.321	ppbv	98
5) 1,2-Dichlorotetrafluor...	3.705	85	123096	2.365	ppbv	98
6) Vinyl Chloride	3.802	62	46943	2.320	ppbv	100
7) 1,3-Butadiene	3.910	54	41442	2.379	ppbv	97
8) Bromomethane	4.126	94	40492	2.272	ppbv	98
9) Chloroethane	4.266	64	23025	2.374	ppbv	96
11) Ethanol	4.417	45	24730	2.378	ppbv	96
12) Acetone	4.751	43	90235	2.445	ppbv	99
13) Trichlorofluoromethane	4.826	101	136099	2.447	ppbv	99
14) Isopropylalcohol	4.934	45	112628	2.344	ppbv	96
15) Acrylonitrile	5.052	53	42307	2.539	ppbv	97
16) 1,1-Dichloroethene	5.262	61	84234	2.427	ppbv	99
17) Methylene Chloride	5.348	49	70207	2.476	ppbv	95
20) Carbon Disulfide	5.546	76	133752	2.442	ppbv	99
21) Trichlorotrifluoroethane	5.520	101	105838	2.425	ppbv	97
22) Trans-1,2-Dichloroethene	5.962	61	75495	2.384	ppbv	98
23) 1,1-Dichloroethane	6.096	63	90218	2.425	ppbv	100
24) Methyl tert-butyl ethe...	6.151	73	141882	2.310	ppbv	98
26) Methyl Ethyl Ketone	6.372	43	144165	2.471	ppbv	94
27) Cis-1,2-Dichloroethene	6.631	61	72880	2.387	ppbv	97
28) Hexane	6.746	57	84782	2.376	ppbv	99
29) Chloroform	6.819	83	113816	2.382	ppbv	99
30) Ethyl acetate	6.767	61	18591	2.614	ppbv	97
31) Tetrahydrofuran	7.090	42	71313	2.330	ppbv	100
32) 1,2-Dichloroethane	7.277	62	83792	2.483	ppbv	98
33) 1,1,1-Trichloroethane	7.433	97	125688	2.438	ppbv	98
34) Benzene	7.722	78	145267	2.330	ppbv	100
35) Carbon Tetrachloride	7.822	117	136573	2.430	ppbv	96
36) Cyclohexane	7.900	41	58789	2.471	ppbv	96
38) 1,2-dichloropropane	8.223	63	58496	2.312	ppbv	98
39) Bromdichloromethane	8.345	83	130278	2.336	ppbv	97
40) Trichloroethene	8.368	130	74457	2.360	ppbv	98
42) 1,4-Dioxane	8.379	88	32331	2.258	ppbv	93
44) Heptane	8.524	43	116869	2.302	ppbv	99
45) cis-1,3-Dichloropropene	8.869	75	93201	2.324	ppbv	98
46) 4-Methyl-2-pentanone(M..	8.891	43	153727	2.292	ppbv	99
47) trans-1,3-Dichloropropene	9.172	75	92346	2.365	ppbv	93
48) 1,1,2-Trichloroethane	9.289	97	67948	2.360	ppbv	99
49) Toluene	9.454	91	195640	2.371	ppbv	99
50) Dibromchloromethane	9.706	129	126708	2.268	ppbv	98
51) 2-Hexanone (MBK)	9.580	43	137983	2.344	ppbv	99
52) 1,2-Dibromethane (EDB)	9.851	107	103411	2.327	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_13.D
 Acq On : 12 Dec 2020 12:55 am
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 14 09:18:06 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:17:55 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
53) Tetrachloroethene	10.104	166	97536	2.251	ppbv	97
55) 1,1,1,2-Tetrachloroethane	10.471	131	97799	2.553	ppbv	96
56) Chlorobenzene	10.481	112	158877	2.488	ppbv	98
57) Ethylbenzene	10.686	91	259058	2.368	ppbv	100
58) m p-Xylene	10.779	91	390829	4.743	ppbv	97
59) Bromoform	10.850	173	122295	2.391	ppbv	100
60) Styrene	10.983	104	153505	2.470	ppbv	100
61) 1,1,2,2-Tetrachloroethane	11.045	83	144342	2.481	ppbv	98
62) o-Xylene	11.045	91	209673	2.409	ppbv	99
65) Isopropylbenzene	11.373	105	295475	2.476	ppbv	99
67) 4-Ethyltoluene	11.752	105	278617	2.394	ppbv	99
68) 1,3,5-Trimethylbenzene	11.793	105	225995	2.279	ppbv	100
69) 1,2,4-Trimethylbenzene	12.040	105	216895	2.184	ppbv	98
71) Benzyl chloride	12.142	91	156268	2.242	ppbv	99
72) 1,3-Dichlorobenzene	12.153	146	139849	2.405	ppbv	98
73) 1,4-Dichlorobenzene	12.194	146	118859	2.259	ppbv	98
74) sec-Butylbenzene	12.040	105	216895	2.184	ppbv	94
75) 4-Isopropyltoluene	12.296	119	317778	2.340	ppbv	99
76) 1,2-Dichlorobenzene	12.409	146	132738	2.307	ppbv	99
77) n-Butylbenzene	12.563	91	225562	2.245	ppbv	99
78) 1,2,4-Trichlorobenzene	13.548	180	37129	1.220	ppbv	99
80) Hexachlorobutadiene	13.877	225	138097	2.463	ppbv	100
82) 1,2-Dichlorotetrafluor...	3.705	85	122952	2.103	ppbv	98
83) Vinyl Chloride(sim)	3.808	62	51214	2.151	ppbv	99
84) Bromomethane(sim)	4.126	94	40492	1.950	ppbv	98
85) Trichlorofluoromethane...	4.821	101	144277	2.299	ppbv#	100
86) 1,2-Dichloroethane(sim)	7.277	62	83792	2.350	ppbv	98
87) 1,1,1-Trichloroethane(...)	7.439	97	133008	2.281	ppbv#	99
88) Benzene(sim)	7.722	78	145263	2.092	ppbv	100
89) Carbon Tetrachloride(sim)	7.816	117	145307	2.281	ppbv	100
90) 1,1-Dichloroethene(sim)	5.262	61	84234	2.152	ppbv	99
91) Trichlorotrifluoroetha...	5.526	101	111737	2.215	ppbv#	100
92) Trans-1,2-Dichloroetha...	5.962	61	75495	2.160	ppbv	98
93) 1,1-Dichloroethane(sim)	6.102	63	100345	2.244	ppbv	100
94) Cis-1,2-Dichloroethene...	6.631	61	72880	2.123	ppbv	97
95) Chloroform(sim)	6.814	83	118866	2.229	ppbv	99
97) 1,2-dichloropropane(sim)	8.228	63	66389	2.143	ppbv	99
98) Bromdichloromethane(sim)	8.345	83	130278	2.141	ppbv	97
99) Trichloroethene(sim)	8.373	130	85307	2.190	ppbv	100
100) 1,4-Dioxane(sim)	8.379	88	32331	2.095	ppbv	93
101) cis-1,3-Dichloropropen...	8.874	75	105212	2.244	ppbv	100
102) 1,1,2-Trichloroethane(...)	9.289	97	67948	2.189	ppbv	99
103) Dibromchloromethane(sim)	9.711	129	146416	2.292	ppbv	100
104) 1,2-Dibromethane(EDB)...	9.851	107	103411	2.263	ppbv	99
105) Tetrachloroethene(sim)	10.100	166	118577	2.227	ppbv	99
107) Bromoform(sim)	10.856	173	138565	2.248	ppbv	100
108) m p-Xylene(sim)	10.779	91	394000	4.412	ppbv	97
109) 1,1,2,2-Tetrachloroeth...	11.051	83	151026	2.173	ppbv	100
112) Benzyl chloride(sim)	12.142	91	156268	2.355	ppbv	99
113) 1,3-Dichlorobenzene(sim)	12.158	146	156337	2.453	ppbv	100
114) 1,4-Dichlorobenzene(sim)	12.194	146	118859	2.310	ppbv	98
115) sec-Butylbenzene(sim)	12.045	105	238581	2.115	ppbv	93
116) 4-Isopropyltoluene(sim)	12.296	119	317809	2.086	ppbv	99
117) 1,2-Dichlorobenzene(sim)	12.415	146	153163	2.416	ppbv	100
118) n-Butylbenzene(sim)	12.563	91	225562	2.272	ppbv	99
119) 1,2,4-Trichlorobenzene...	13.554	180	42974	1.838	ppbv	100
121) Hexachlorobutadiene(sim)	13.882	225	164797	2.050	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
Data File : 1211_13.D
Acq On : 12 Dec 2020 12:55 am
Operator :
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 14 09:18:06 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Dec 14 09:17:55 2020
Response via : Initial Calibration

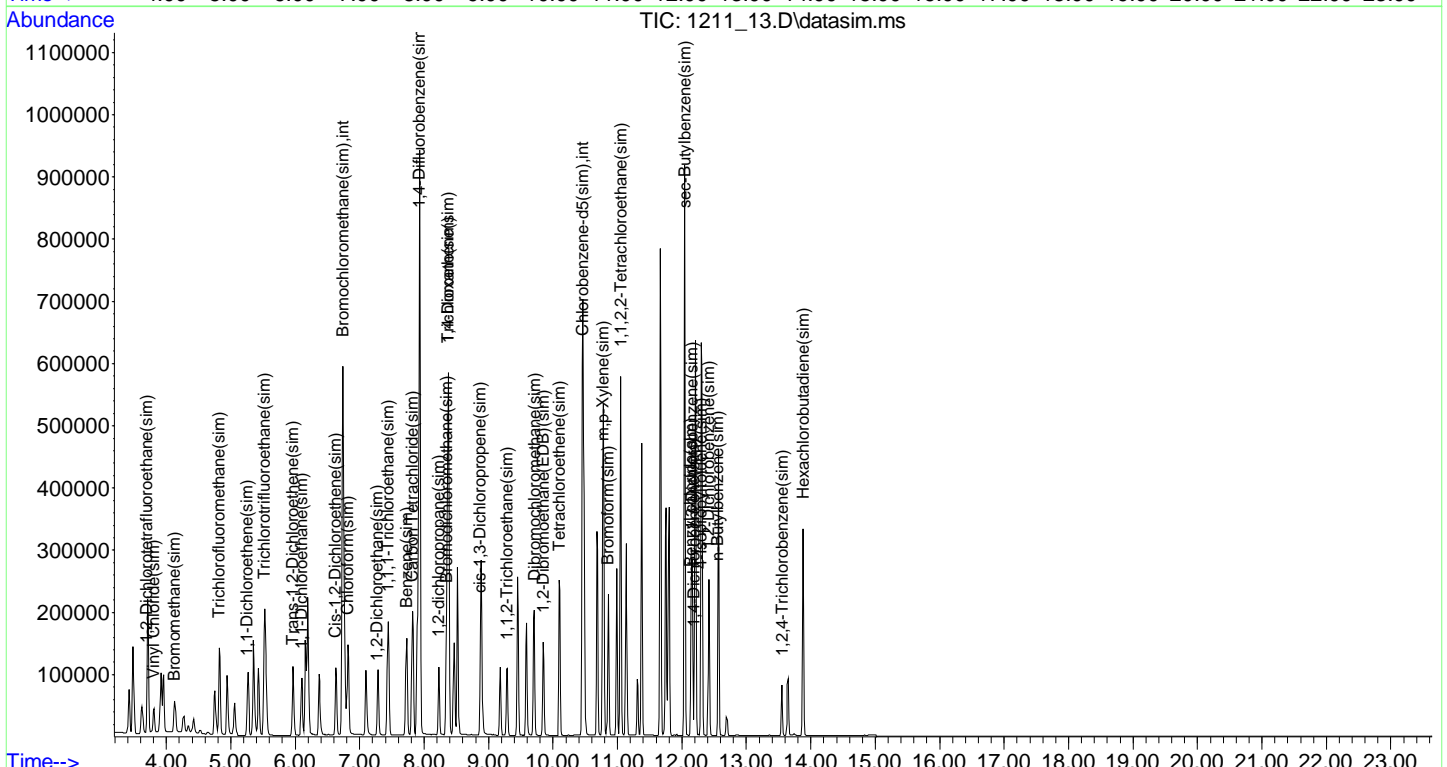
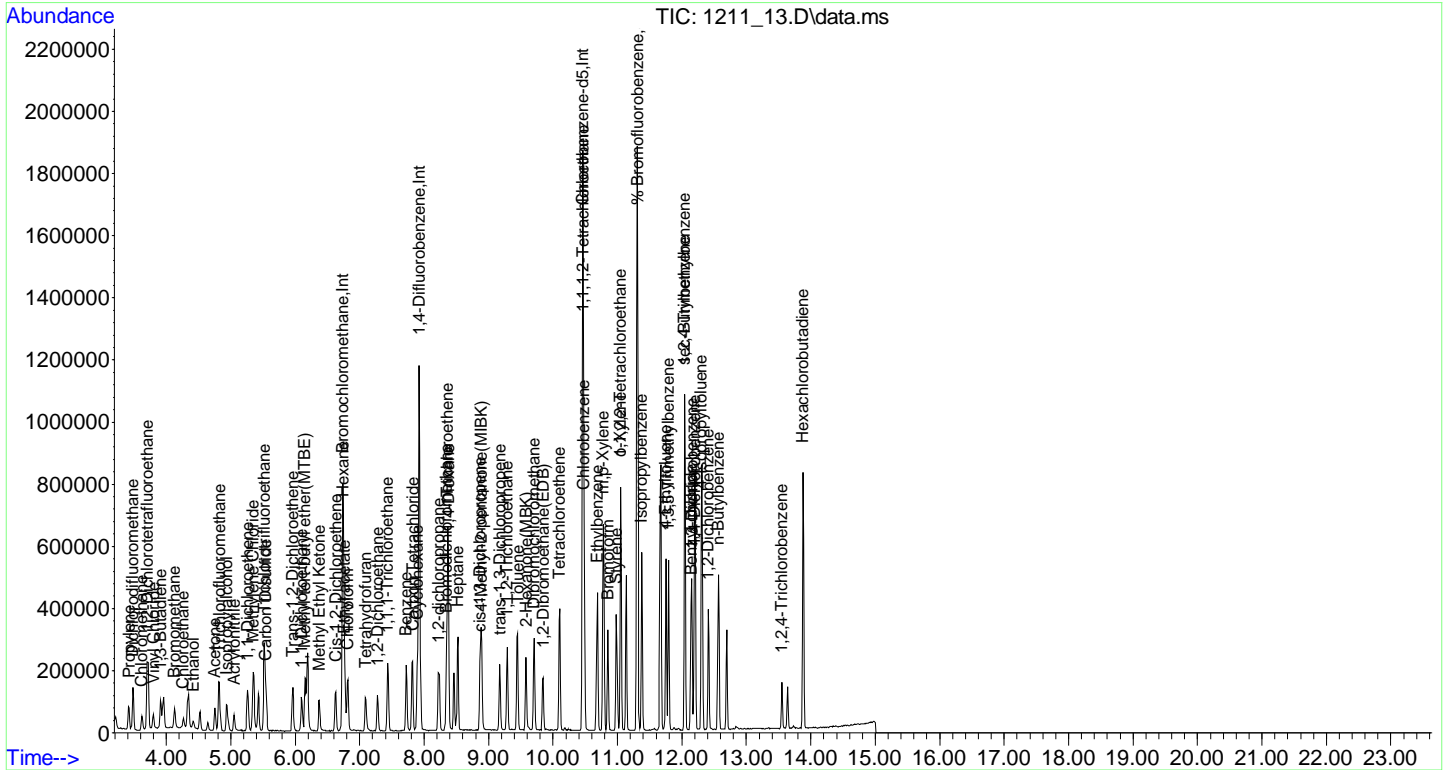
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
Data File : 1211_13.D
Acq On : 12 Dec 2020 12:55 am
Operator :
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 14 09:18:06 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Mon Dec 14 09:17:55 2020
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_14.D
 Acq On : 12 Dec 2020 1:31 am
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 14 09:14:57 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:14:46 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.746	130	208968	10.000	ng	0.01
37) 1,4-Difluorobenzene	7.934	114	812093	10.000	ng	0.01
54) Chlorobenzene-d5	10.461	82	411173	10.000	ng	0.00
81) Bromchloromethane(sim)	6.752	130	233211	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	7.934	114	812093	10.000	ng	0.01
106) Chlorobenzene-d5(sim)	10.461	82	411173	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromfluorobenzene	11.312	95	506525	9.764	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.60%
Target Compounds						
						Qvalue
2) Propylene	3.425	41	106081	5.254	ppbv	93
3) Dichlorodifluoromethane	3.490	85	304295	5.519	ppbv#	95
4) Chloromethane	3.630	50	114807	5.306	ppbv	99
5) 1,2-Dichlorotetrafluor...	3.716	85	279074	5.304	ppbv	97
6) Vinyl Chloride	3.813	62	108477	5.302	ppbv	98
7) 1,3-Butadiene	3.921	54	92569	5.257	ppbv#	90
8) Bromomethane	4.136	94	90357	5.015	ppbv#	94
9) Chloroethane	4.277	64	50964	5.197	ppbv	91
11) Ethanol	4.417	45	49593	4.718	ppbv	93
12) Acetone	4.751	43	199068	5.336	ppbv	93
13) Trichlorofluoromethane	4.826	101	300484	5.344	ppbv	99
14) Isopropylalcohol	4.934	45	258620	5.324	ppbv#	90
15) Acrylonitrile	5.063	53	88713	5.265	ppbv	98
16) 1,1-Dichloroethene	5.270	61	184772	5.266	ppbv	90
17) Methylene Chloride	5.357	49	153170	5.344	ppbv	89
20) Carbon Disulfide	5.555	76	297217	5.368	ppbv	94
21) Trichlorotrifluoroethane	5.529	101	234118	5.307	ppbv	96
22) Trans-1,2-Dichloroethene	5.970	61	169841	5.304	ppbv	96
23) 1,1-Dichloroethane	6.104	63	202772	5.392	ppbv	97
24) Methyl tert-butyl ethe...	6.152	73	329496	5.305	ppbv	94
26) Methyl Ethyl Ketone	6.365	43	308318	5.227	ppbv	96
27) Cis-1,2-Dichloroethene	6.631	61	166301	5.387	ppbv	96
28) Hexane	6.756	57	187501	5.199	ppbv#	82
29) Chloroform	6.819	83	253240	5.242	ppbv	94
30) Ethyl acetate	6.767	61	37661	5.239	ppbv#	85
31) Tetrahydrofuran	7.090	42	166023	5.366	ppbv	95
32) 1,2-Dichloroethane	7.288	62	185702	5.444	ppbv#	93
33) 1,1,1-Trichloroethane	7.444	97	277949	5.332	ppbv	95
34) Benzene	7.733	78	336855	5.345	ppbv#	93
35) Carbon Tetrachloride	7.822	117	301367	5.304	ppbv	97
36) Cyclohexane	7.900	41	129518	5.385	ppbv	96
38) 1,2-dichloropropane	8.234	63	135162	5.410	ppbv#	68
39) Bromdichloromethane	8.346	83	300729	5.460	ppbv	97
40) Trichloroethene	8.368	130	171539	5.508	ppbv	97
42) 1,4-Dioxane	8.368	88	80955	5.726	ppbv	95
44) Heptane	8.524	43	268541	5.357	ppbv	98
45) cis-1,3-Dichloropropene	8.880	75	211058	5.330	ppbv	98
46) 4-Methyl-2-pentanone(M..	8.891	43	365347	5.516	ppbv	96
47) trans-1,3-Dichloropropene	9.172	75	204312	5.299	ppbv	97
48) 1,1,2-Trichloroethane	9.289	97	153562	5.403	ppbv	94
49) Toluene	9.454	91	437408	5.369	ppbv	97
50) Dibromchloromethane	9.706	129	295530	5.357	ppbv	99
51) 2-Hexanone (MBK)	9.580	43	328628	5.653	ppbv	93
52) 1,2-Dibromethane (EDB)	9.852	107	238476	5.436	ppbv	93

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_14.D
 Acq On : 12 Dec 2020 1:31 am
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 14 09:14:57 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:14:46 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
53) Tetrachloroethene	10.104	166	227503	5.317	ppbv	97
55) 1,1,1,2-Tetrachloroethane	10.471	131	213633	5.436	ppbv	100
56) Chlorobenzene	10.482	112	353491	5.396	ppbv	97
57) Ethylbenzene	10.686	91	604768	5.388	ppbv	91
58) m p-Xylene	10.779	91	913832	10.809	ppbv	97
59) Bromoform	10.850	173	286370	5.457	ppbv	98
60) Styrene	10.984	104	353748	5.549	ppbv	98
61) 1,1,2,2-Tetrachloroethane	11.045	83	327319	5.484	ppbv#	87
62) o-Xylene	11.045	91	481764	5.396	ppbv	96
65) Isopropylbenzene	11.373	105	667927	5.456	ppbv	94
67) 4-Ethyltoluene	11.753	105	683608	5.726	ppbv	95
68) 1,3,5-Trimethylbenzene	11.794	105	579763	5.699	ppbv	95
69) 1,2,4-Trimethylbenzene	12.040	105	585965	5.751	ppbv	93
71) Benzyl chloride	12.143	91	400971	5.608	ppbv	95
72) 1,3-Dichlorobenzene	12.153	146	336816	5.647	ppbv	98
73) 1,4-Dichlorobenzene	12.194	146	308907	5.723	ppbv	96
74) sec-Butylbenzene	12.040	105	585965	5.751	ppbv	95
75) 4-Isopropyltoluene	12.296	119	792228	5.687	ppbv	97
76) 1,2-Dichlorobenzene	12.409	146	336749	5.704	ppbv	99
77) n-Butylbenzene	12.563	91	600830	5.829	ppbv	95
78) 1,2,4-Trichlorobenzene	13.548	180	156880	4.449	ppbv	94
80) Hexachlorobutadiene	13.877	225	318672	5.541	ppbv	96
82) 1,2-Dichlorotetrafluor...	3.716	85	278384	4.818	ppbv	98
83) Vinyl Chloride(sim)	3.819	62	119087	5.061	ppbv	98
84) Bromomethane(sim)	4.136	94	90357	4.404	ppbv#	94
85) Trichlorofluoromethane...	4.832	101	322901	5.207	ppbv#	98
86) 1,2-Dichloroethane(sim)	7.288	62	185702	5.271	ppbv#	93
87) 1,1,1-Trichloroethane(...)	7.449	97	300274	5.211	ppbv#	98
88) Benzene(sim)	7.733	78	336855	4.910	ppbv#	93
89) Carbon Tetrachloride(sim)	7.828	117	327339	5.201	ppbv	98
90) 1,1-Dichloroethene(sim)	5.270	61	184772	4.778	ppbv	90
91) Trichlorotrifluoroetha...	5.535	101	250200	5.019	ppbv#	96
92) Trans-1,2-Dichloroetha...	5.970	61	169841	4.917	ppbv	96
93) 1,1-Dichloroethane(sim)	6.110	63	224009	5.070	ppbv	96
94) Cis-1,2-Dichloroethene...	6.631	61	166301	4.902	ppbv	96
95) Chloroform(sim)	6.824	83	266341	5.055	ppbv#	95
97) 1,2-dichloropropane(sim)	8.229	63	148604	4.858	ppbv#	64
98) Bromdichloromethane(sim)	8.346	83	300729	5.004	ppbv	97
99) Trichloroethene(sim)	8.373	130	192938	5.015	ppbv	98
100) 1,4-Dioxane(sim)	8.368	88	80955	5.311	ppbv	95
101) cis-1,3-Dichloropropen...	8.875	75	239288	5.168	ppbv	98
102) 1,1,2-Trichloroethane(...)	9.289	97	153562	5.010	ppbv	94
103) Dibromchloromethane(sim)	9.712	129	335552	5.318	ppbv	100
104) 1,2-Dibromoethane(EDB)...	9.852	107	238476	5.285	ppbv	93
105) Tetrachloroethene(sim)	10.110	166	268050	5.098	ppbv	100
107) Bromoform(sim)	10.856	173	328615	5.196	ppbv	98
108) m p-Xylene(sim)	10.779	91	917834	10.018	ppbv	97
109) 1,1,2,2-Tetrachloroeth...	11.051	83	343697	4.821	ppbv	99
112) Benzyl chloride(sim)	12.143	91	400971	5.890	ppbv	95
113) 1,3-Dichlorobenzene(sim)	12.158	146	386966	5.918	ppbv	99
114) 1,4-Dichlorobenzene(sim)	12.194	146	308907	5.851	ppbv	97
115) sec-Butylbenzene(sim)	12.046	105	648857	5.606	ppbv	95
116) 4-Isopropyltoluene(sim)	12.296	119	793218	5.076	ppbv	97
117) 1,2-Dichlorobenzene(sim)	12.415	146	377680	5.807	ppbv	99
118) n-Butylbenzene(sim)	12.563	91	600819	5.899	ppbv	95
119) 1,2,4-Trichlorobenzene...	13.554	180	184889	7.709	ppbv	98
121) Hexachlorobutadiene(sim)	13.882	225	378681	4.592	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
Data File : 1211_14.D
Acq On : 12 Dec 2020 1:31 am
Operator :
Client ID : ICAL 5
Lab ID : 5.0
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 14 09:14:57 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Dec 14 09:14:46 2020
Response via : Initial Calibration

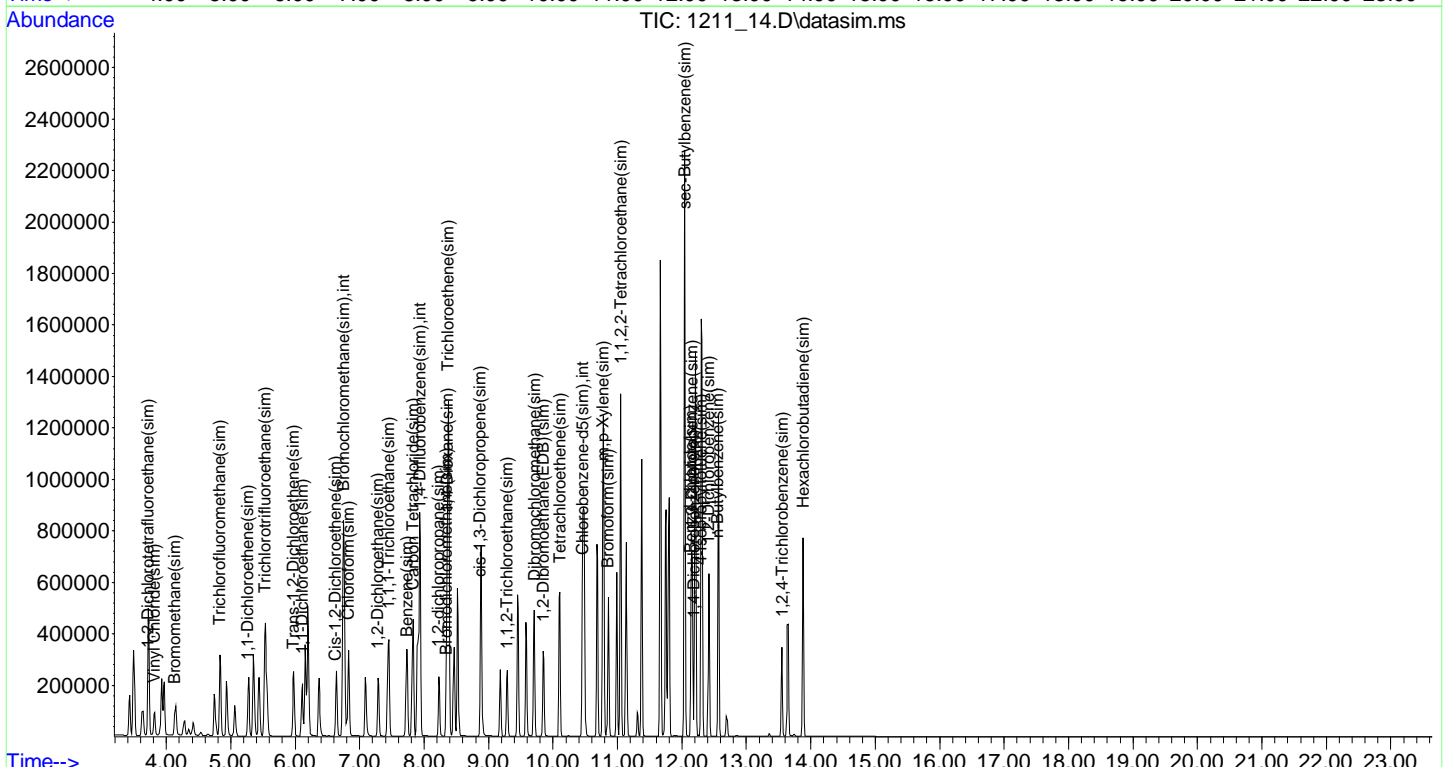
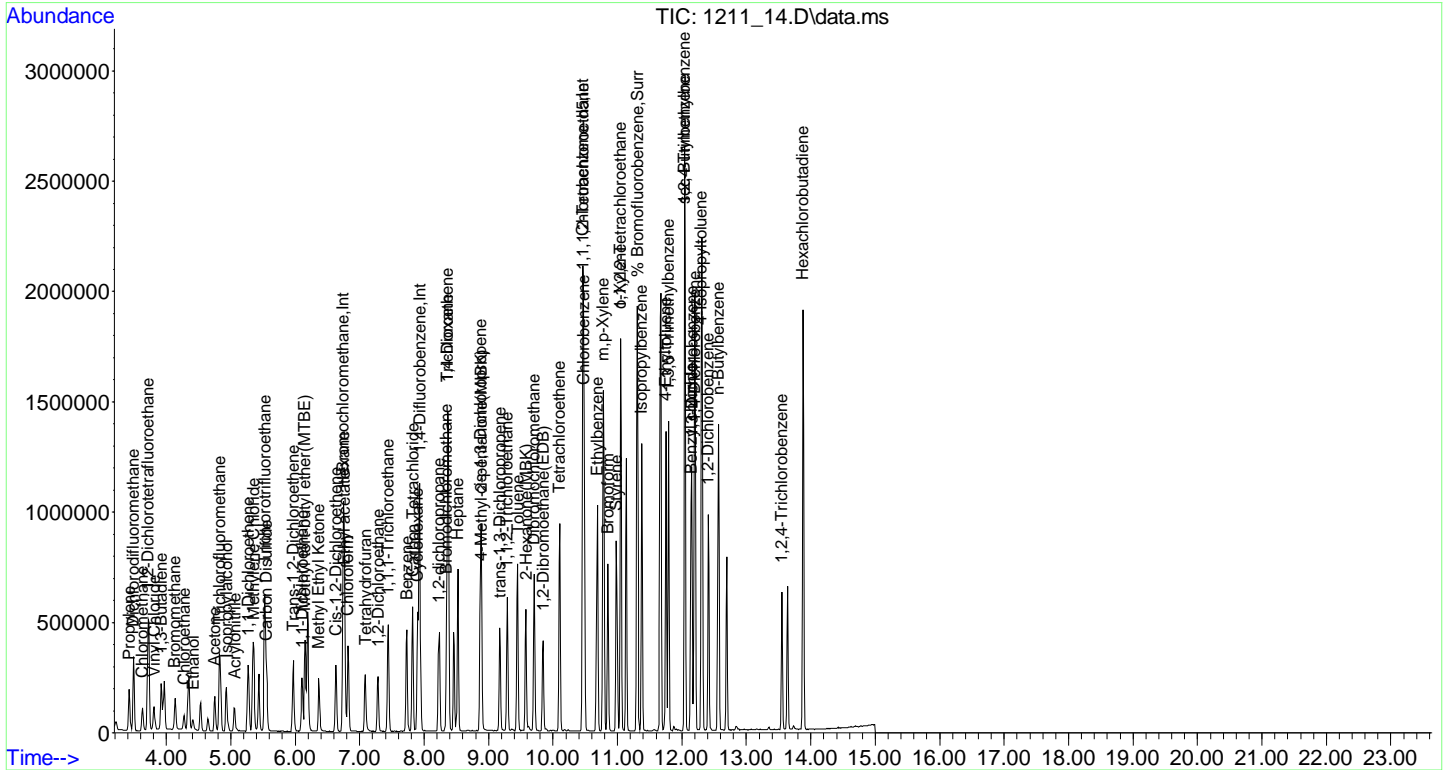
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_14.D
 Acq On : 12 Dec 2020 1:31 am
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 14 09:14:57 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 14 09:14:46 2020
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_15.D
 Acq On : 12 Dec 2020 2:09 am
 Operator :
 Client ID : ICAL 25
 Lab ID : 25
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 14 09:16:26 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:16:18 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.746	130	221482	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.933	114	867257	10.000	ng	0.00
54) Chlorobenzene-d5	10.461	82	503843	10.000	ng	0.00
81) Bromchloromethane(sim)	6.752	130	247692	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.933	114	867257	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.461	82	503843	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromfluorobenzene	11.312	95	611257	9.848	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.50%
Target Compounds						
					Qvalue	
2) Propylene	3.414	41	515182	24.073	ppbv	97
3) Dichlorodifluoromethane	3.479	85	1352570	23.144	ppbv	100
4) Chloromethane	3.619	50	538321	23.475	ppbv	98
5) 1,2-Dichlorotetrafluor...	3.716	85	1368108	24.533	ppbv	100
6) Vinyl Chloride	3.802	62	533053	24.583	ppbv	98
7) 1,3-Butadiene	3.921	54	443248	23.750	ppbv	99
8) Bromomethane	4.136	94	453641	23.755	ppbv	96
9) Chloroethane	4.277	64	247919	23.853	ppbv	98
11) Ethanol	4.406	45	233194	20.930	ppbv	97
12) Acetone	4.740	43	951927	24.077	ppbv	100
13) Trichlorofluoromethane	4.837	101	1448967	24.313	ppbv	99
14) Isopropylalcohol	4.923	45	1159393	22.519	ppbv	99
15) Acrylonitrile	5.063	53	401309	22.472	ppbv	99
16) 1,1-Dichloroethene	5.270	61	901361	24.238	ppbv	98
17) Methylene Chloride	5.357	49	719929	23.696	ppbv	100
20) Carbon Disulfide	5.563	76	1447060	24.656	ppbv	99
21) Trichlorotrifluoroethane	5.529	101	1117144	23.891	ppbv	98
22) Trans-1,2-Dichloroethene	5.978	61	837626	24.682	ppbv	98
23) 1,1-Dichloroethane	6.112	63	951707	23.879	ppbv	98
24) Methyl tert-butyl ethe...	6.144	73	1588920	24.138	ppbv	97
26) Methyl Ethyl Ketone	6.364	43	1556650	24.902	ppbv	98
27) Cis-1,2-Dichloroethene	6.642	61	814023	24.879	ppbv	98
28) Hexane	6.756	57	901413	23.581	ppbv	98
29) Chloroform	6.829	83	1240232	24.222	ppbv	98
30) Ethyl acetate	6.767	61	188016	24.676	ppbv	96
31) Tetrahydrofuran	7.079	42	793929	24.210	ppbv	99
32) 1,2-Dichloroethane	7.288	62	908424	25.126	ppbv	99
33) 1,1,1-Trichloroethane	7.444	97	1388875	25.140	ppbv	97
34) Benzene	7.733	78	1678274	25.124	ppbv	99
35) Carbon Tetrachloride	7.822	117	1509924	25.075	ppbv	99
36) Cyclohexane	7.900	41	621699	24.386	ppbv	98
38) 1,2-dichloropropane	8.234	63	669417	25.090	ppbv	98
39) Bromdichloromethane	8.357	83	1491446	25.358	ppbv	100
40) Trichloroethene	8.379	130	838193	25.200	ppbv	99
42) 1,4-Dioxane	8.368	88	392754	26.012	ppbv	98
44) Heptane	8.524	43	1327815	24.805	ppbv	100
45) cis-1,3-Dichloropropene	8.880	75	1092752	25.841	ppbv	99
46) 4-Methyl-2-pentanone(M..	8.880	43	1787854	25.277	ppbv	99
47) trans-1,3-Dichloropropene	9.182	75	1172884	28.482	ppbv	94
48) 1,1,2-Trichloroethane	9.289	97	759873	25.035	ppbv	99
49) Toluene	9.454	91	2250082	25.862	ppbv	98
50) Dibromchloromethane	9.706	129	1555662	26.407	ppbv	100
51) 2-Hexanone (MBK)	9.580	43	1717163	27.661	ppbv	99
52) 1,2-Dibromethane (EDB)	9.852	107	1233844	26.334	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_15.D
 Acq On : 12 Dec 2020 2:09 am
 Operator :
 Client ID : ICAL 25
 Lab ID : 25
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 14 09:16:26 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:16:18 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
53) Tetrachloroethene	10.104	166	1179281	25.809	ppbv	99
55) 1,1,1,2-Tetrachloroethane	10.471	131	1115526	23.164	ppbv	99
56) Chlorobenzene	10.492	112	1876470	23.374	ppbv	98
57) Ethylbenzene	10.686	91	3138812	22.820	ppbv	99
58) m p-Xylene	10.779	91	4872601	47.035	ppbv	99
59) Bromoform	10.850	173	1565459	24.345	ppbv	99
60) Styrene	10.994	104	1891532	24.214	ppbv	100
61) 1,1,2,2-Tetrachloroethane	11.045	83	1741261	23.807	ppbv	99
62) o-Xylene	11.055	91	2533522	23.158	ppbv	100
65) Isopropylbenzene	11.373	105	3585177	23.897	ppbv	99
67) 4-Ethyltoluene	11.753	105	3670219	25.089	ppbv	100
68) 1,3,5-Trimethylbenzene	11.794	105	3077120	24.685	ppbv	100
69) 1,2,4-Trimethylbenzene	12.050	105	3216711	25.765	ppbv	98
71) Benzyl chloride	12.143	91	2598291	29.654	ppbv	99
72) 1,3-Dichlorobenzene	12.153	146	1937610	26.512	ppbv	100
73) 1,4-Dichlorobenzene	12.194	146	1875580	28.357	ppbv	99
74) sec-Butylbenzene	12.050	105	3216711	25.765	ppbv	97
75) 4-Isopropyltoluene	12.307	119	4279585	25.069	ppbv	100
76) 1,2-Dichlorobenzene	12.420	146	1919480	26.535	ppbv	99
77) n-Butylbenzene	12.563	91	3454589	27.353	ppbv	99
78) 1,2,4-Trichlorobenzene	13.548	180	1125147	29.264	ppbv	99
80) Hexachlorobutadiene	13.877	225	1620094	22.987	ppbv	99
82) 1,2-Dichlorotetrafluor...	3.716	85	1364767	22.238	ppbv	100
83) Vinyl Chloride(sim)	3.808	62	586576	23.471	ppbv	100
84) Bromomethane(sim)	4.136	94	453641	20.819	ppbv	96
85) Trichlorofluoromethane...	4.843	101	1541587	23.406	ppbv#	100
86) 1,2-Dichloroethane(sim)	7.288	62	908649	24.281	ppbv	99
87) 1,1,1-Trichloroethane(...)	7.449	97	1476693	24.130	ppbv#	100
88) Benzene(sim)	7.733	78	1678387	23.032	ppbv	99
89) Carbon Tetrachloride(sim)	7.828	117	1621128	24.253	ppbv	100
90) 1,1-Dichloroethene(sim)	5.270	61	901361	21.946	ppbv	98
91) Trichlorotrifluoroetha...	5.535	101	1202164	22.704	ppbv#	100
92) Trans-1,2-Dichloroetha...	5.978	61	837626	22.831	ppbv	98
93) 1,1-Dichloroethane(sim)	6.118	63	1078843	22.988	ppbv	100
94) Cis-1,2-Dichloroethene...	6.642	61	814023	22.592	ppbv	98
95) Chloroform(sim)	6.835	83	1314024	23.480	ppbv	100
97) 1,2-dichloropropane(sim)	8.240	63	741963	22.714	ppbv	99
98) Bromdichloromethane(sim)	8.357	83	1491446	23.237	ppbv	100
99) Trichloroethene(sim)	8.373	130	944482	22.988	ppbv	99
100) 1,4-Dioxane(sim)	8.368	88	392754	24.126	ppbv	98
101) cis-1,3-Dichloropropen...	8.875	75	1205109	24.370	ppbv	100
102) 1,1,2-Trichloroethane(...)	9.289	97	759873	23.214	ppbv	99
103) Dibromchloromethane(sim)	9.712	129	1744087	25.883	ppbv	100
104) 1,2-Dibromoethane(EDB)...	9.852	107	1233844	25.604	ppbv	98
105) Tetrachloroethene(sim)	10.110	166	1387664	24.711	ppbv	100
107) Bromoform(sim)	10.856	173	1795103	23.164	ppbv	100
108) m p-Xylene(sim)	10.779	91	4876892	43.440	ppbv	99
109) 1,1,2,2-Tetrachloroeth...	11.051	83	1823807	20.878	ppbv	100
112) Benzyl chloride(sim)	12.143	91	2598108	31.147	ppbv	99
113) 1,3-Dichlorobenzene(sim)	12.158	146	2216689	27.665	ppbv	100
114) 1,4-Dichlorobenzene(sim)	12.194	146	1875580	28.991	ppbv	99
115) sec-Butylbenzene(sim)	12.046	105	3479056	24.531	ppbv	99
116) 4-Isopropyltoluene(sim)	12.307	119	4281247	22.358	ppbv	100
117) 1,2-Dichlorobenzene(sim)	12.415	146	2157530	27.073	ppbv	100
118) n-Butylbenzene(sim)	12.563	91	3453309	27.670	ppbv	99
119) 1,2,4-Trichlorobenzene...	13.554	180	1314659	44.731	ppbv	99
121) Hexachlorobutadiene(sim)	13.882	225	1908818	18.889	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
Data File : 1211_15.D
Acq On : 12 Dec 2020 2:09 am
Operator :
Client ID : ICAL 25
Lab ID : 25
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 14 09:16:26 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Dec 14 09:16:18 2020
Response via : Initial Calibration

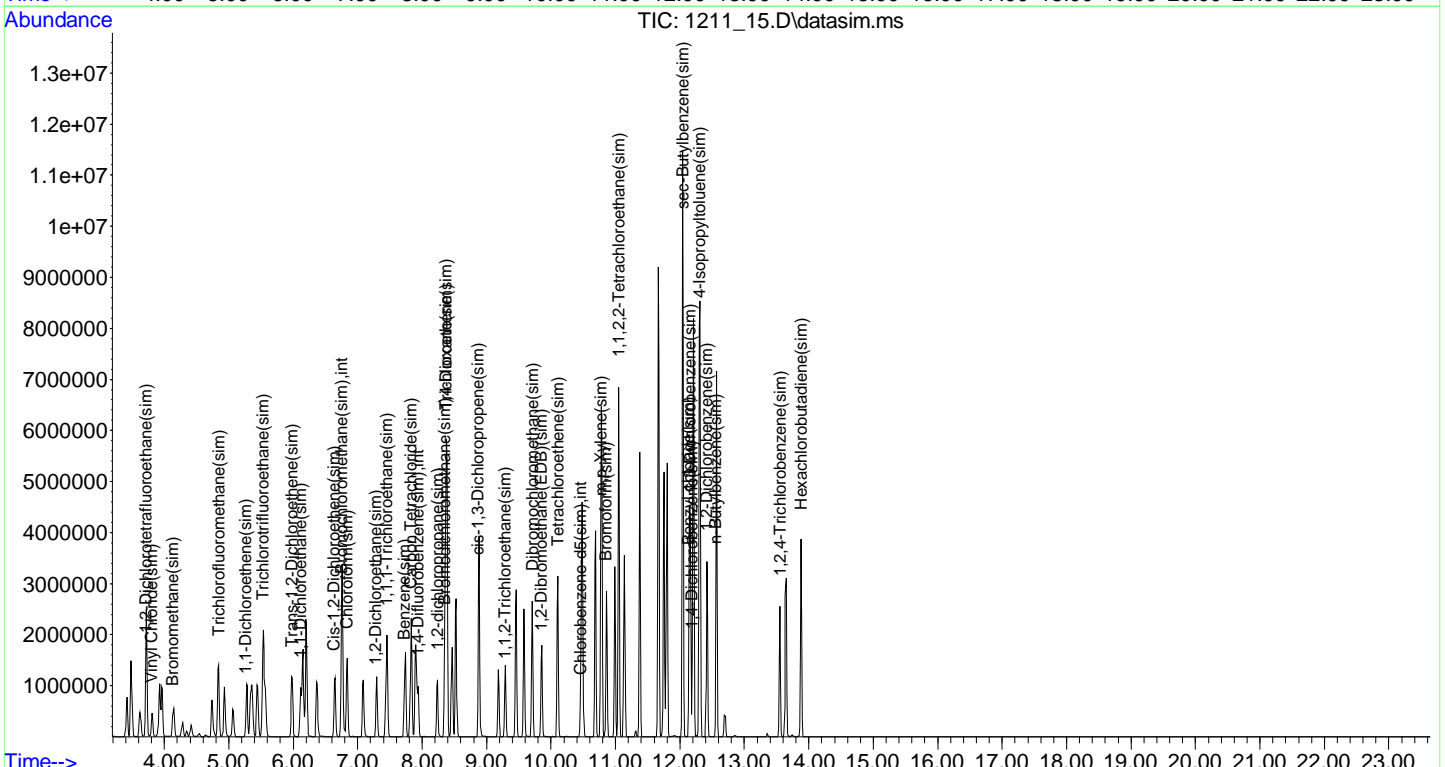
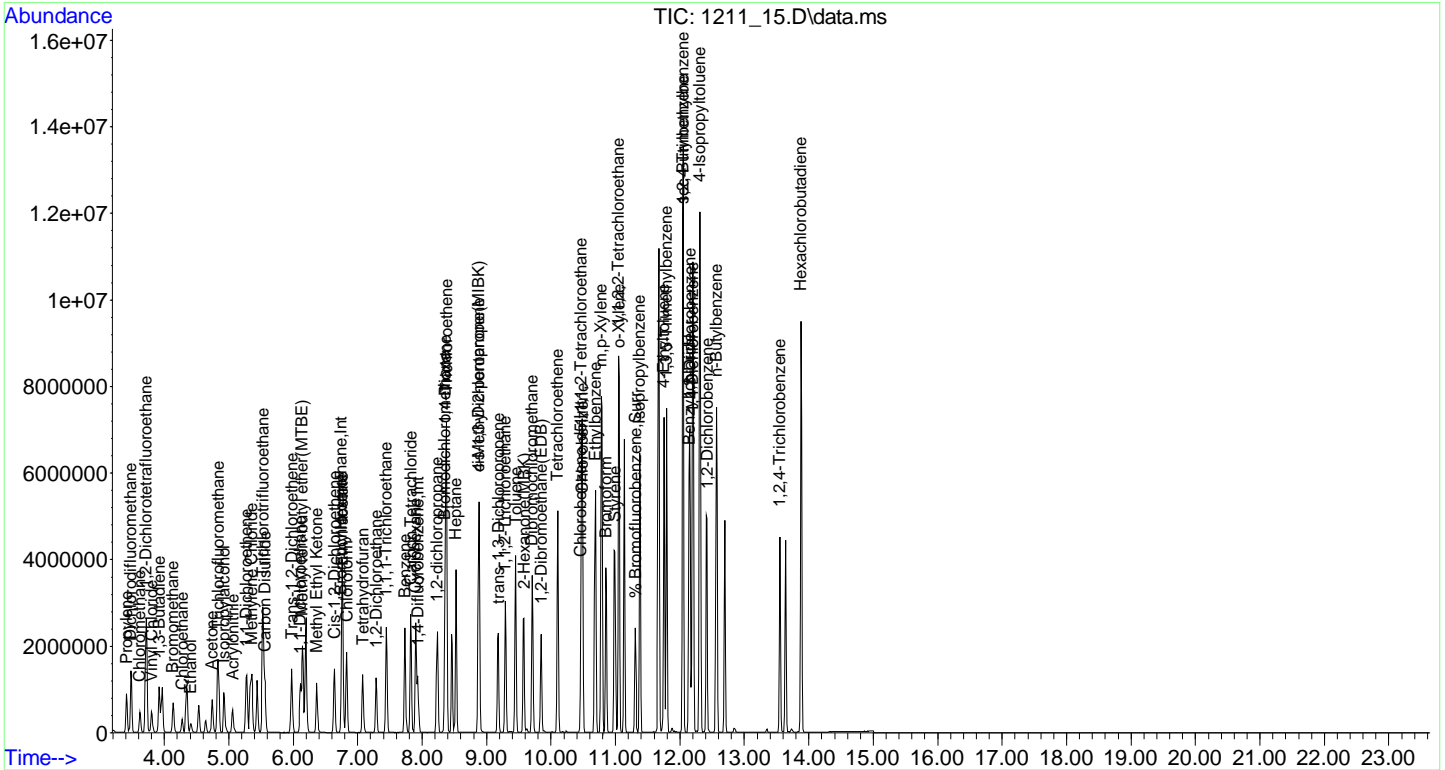
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_15.D
 Acq On : 12 Dec 2020 2:09 am
 Operator :
 Client ID : ICAL 25
 Lab ID : 25
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 14 09:16:26 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 14 09:16:18 2020
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_16.D
 Acq On : 12 Dec 2020 2:49 am
 Operator :
 Client ID : ICAL 40
 Lab ID : 40
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 14 09:16:46 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:16:37 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.756	130	252498	10.000	ng	0.01
37) 1,4-Difluorobenzene	7.933	114	987992	10.000	ng	0.00
54) Chlorobenzene-d5	10.461	82	614141	10.000	ng	0.00
81) Bromchloromethane(sim)	6.751	130	284193	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.933	114	987992	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.461	82	614141	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromfluorobenzene	11.311	95	673250	8.967	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	89.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.414	41	876676	35.933	ppbv	98
3) Dichlorodifluoromethane	3.479	85	2459857	36.921	ppbv	100
4) Chloromethane	3.619	50	918437	35.131	ppbv	99
5) 1,2-Dichlorotetrafluor...	3.716	85	2399294	37.739	ppbv	98
6) Vinyl Chloride	3.802	62	965687	39.065	ppbv	99
7) 1,3-Butadiene	3.921	54	807674	37.961	ppbv	98
8) Bromomethane	4.136	94	840257	38.595	ppbv	99
9) Chloroethane	4.276	64	469533	39.627	ppbv	100
11) Ethanol	4.417	45	424170	33.395	ppbv	99
12) Acetone	4.740	43	1714915	38.046	ppbv	98
13) Trichlorofluoromethane	4.837	101	2665729	39.236	ppbv	99
14) Isopropylalcohol	4.923	45	2100117	35.781	ppbv	99
15) Acrylonitrile	5.063	53	750700	36.874	ppbv	97
16) 1,1-Dichloroethene	5.279	61	1650379	38.927	ppbv	98
17) Methylene Chloride	5.365	49	1285701	37.121	ppbv	95
20) Carbon Disulfide	5.563	76	2717957	40.623	ppbv	100
21) Trichlorotrifluoroethane	5.529	101	2093786	39.276	ppbv	99
22) Trans-1,2-Dichloroethene	5.978	61	1577130	40.764	ppbv	99
23) 1,1-Dichloroethane	6.112	63	1794641	39.497	ppbv	99
24) Methyl tert-butyl ethe...	6.144	73	2884145	38.433	ppbv	99
26) Methyl Ethyl Ketone	6.364	43	2866046	40.216	ppbv	96
27) Cis-1,2-Dichloroethene	6.642	61	1499288	40.193	ppbv	98
28) Hexane	6.756	57	1645195	37.751	ppbv	99
29) Chloroform	6.829	83	2265719	38.815	ppbv	99
30) Ethyl acetate	6.767	61	352328	40.560	ppbv	99
31) Tetrahydrofuran	7.079	42	1422593	38.052	ppbv	98
32) 1,2-Dichloroethane	7.287	62	1609829	39.056	ppbv	99
33) 1,1,1-Trichloroethane	7.444	97	2500338	39.699	ppbv	99
34) Benzene	7.733	78	3131237	41.116	ppbv	99
35) Carbon Tetrachloride	7.822	117	2740281	39.917	ppbv	99
36) Cyclohexane	7.900	41	1125241	38.715	ppbv	99
38) 1,2-dichloropropane	8.234	63	1209602	39.797	ppbv	98
39) Bromdichloromethane	8.357	83	2687325	40.108	ppbv	98
40) Trichloroethene	8.379	130	1547753	40.846	ppbv	99
42) 1,4-Dioxane	8.368	88	724959	42.147	ppbv	98
44) Heptane	8.524	43	2347286	38.491	ppbv	99
45) cis-1,3-Dichloropropene	8.880	75	2001095	41.538	ppbv	99
46) 4-Methyl-2-pentanone(M..	8.880	43	3205495	39.782	ppbv	98
47) trans-1,3-Dichloropropene	9.182	75	1947966	41.524	ppbv	95
48) 1,1,2-Trichloroethane	9.289	97	1429965	41.354	ppbv	98
49) Toluene	9.454	91	4110688	41.474	ppbv	99
50) Dibromchloromethane	9.706	129	2850097	42.468	ppbv	99
51) 2-Hexanone (MBK)	9.580	43	3047500	43.092	ppbv	98
52) 1,2-Dibromethane (EDB)	9.851	107	2297386	43.042	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_16.D
 Acq On : 12 Dec 2020 2:49 am
 Operator :
 Client ID : ICAL 40
 Lab ID : 40
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 14 09:16:46 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:16:37 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
53) Tetrachloroethene	10.104	166	2160667	41.509	ppbv	99
55) 1,1,1,2-Tetrachloroethane	10.471	131	2025595	34.507	ppbv	98
56) Chlorobenzene	10.492	112	3418145	34.931	ppbv	99
57) Ethylbenzene	10.686	91	5670667	33.823	ppbv	99
58) m p-Xylene	10.789	91	8730838	69.142	ppbv	99
59) Bromoform	10.861	173	2930186	37.385	ppbv	99
60) Styrene	10.994	104	3478867	36.535	ppbv	98
61) 1,1,2,2-Tetrachloroethane	11.045	83	3110823	34.893	ppbv	100
62) o-Xylene	11.055	91	4507915	33.805	ppbv	99
65) Isopropylbenzene	11.373	105	6176344	33.775	ppbv	98
67) 4-Ethyltoluene	11.752	105	6423705	36.025	ppbv	99
68) 1,3,5-Trimethylbenzene	11.793	105	5433695	35.761	ppbv	99
69) 1,2,4-Trimethylbenzene	12.050	105	5603499	36.821	ppbv	99
71) Benzyl chloride	12.142	91	4795187	44.899	ppbv	99
72) 1,3-Dichlorobenzene	12.163	146	3814217	42.815	ppbv	100
73) 1,4-Dichlorobenzene	12.194	146	3157419	39.163	ppbv	100
74) sec-Butylbenzene	12.050	105	5603499	36.821	ppbv	99
75) 4-Isopropyltoluene	12.307	119	7414467	35.633	ppbv	99
76) 1,2-Dichlorobenzene	12.419	146	3438708	38.999	ppbv	99
77) n-Butylbenzene	12.573	91	6187512	40.193	ppbv	100
78) 1,2,4-Trichlorobenzene	13.548	180	2144664	42.167	ppbv	100
80) Hexachlorobutadiene	13.877	225	2907707	33.846	ppbv	99
82) 1,2-Dichlorotetrafluor...	3.716	85	2397318	34.046	ppbv	98
83) Vinyl Chloride(sim)	3.808	62	1063849	37.101	ppbv	100
84) Bromomethane(sim)	4.136	94	840257	33.609	ppbv	99
85) Trichlorofluoromethane...	4.842	101	2821558	37.337	ppbv#	100
86) 1,2-Dichloroethane(sim)	7.287	62	1609829	37.493	ppbv	99
87) 1,1,1-Trichloroethane(...)	7.449	97	2687956	38.281	ppbv#	100
88) Benzene(sim)	7.733	78	3131237	37.450	ppbv	99
89) Carbon Tetrachloride(sim)	7.828	117	2924920	38.137	ppbv	100
90) 1,1-Dichloroethene(sim)	5.279	61	1650379	35.023	ppbv	98
91) Trichlorotrifluoroetha...	5.534	101	2240119	36.873	ppbv#	100
92) Trans-1,2-Dichloroetha...	5.978	61	1577130	37.466	ppbv	99
93) 1,1-Dichloroethane(sim)	6.118	63	1999100	37.125	ppbv	100
94) Cis-1,2-Dichloroethene...	6.642	61	1499288	36.266	ppbv	98
95) Chloroform(sim)	6.835	83	2406128	37.473	ppbv	99
97) 1,2-dichloropropane(sim)	8.240	63	1361629	36.591	ppbv	98
98) Bromdichloromethane(sim)	8.357	83	2687325	36.752	ppbv	98
99) Trichloroethene(sim)	8.384	130	1715640	36.655	ppbv	100
100) 1,4-Dioxane(sim)	8.368	88	724959	39.091	ppbv	98
101) cis-1,3-Dichloropropen...	8.874	75	2210211	39.233	ppbv	100
102) 1,1,2-Trichloroethane(...)	9.289	97	1429965	38.347	ppbv	98
103) Dibromchloromethane(sim)	9.711	129	3154240	41.089	ppbv	100
104) 1,2-Dibromoethane(EDB)...	9.851	107	2297386	41.848	ppbv	99
105) Tetrachloroethene(sim)	10.109	166	2500485	39.086	ppbv	100
107) Bromoform(sim)	10.856	173	3266367	34.579	ppbv	100
108) m p-Xylene(sim)	10.789	91	8735658	63.836	ppbv	99
109) 1,1,2,2-Tetrachloroeth...	11.051	83	3275149	30.759	ppbv	100
112) Benzyl chloride(sim)	12.142	91	4795187	47.162	ppbv	99
113) 1,3-Dichlorobenzene(sim)	12.158	146	3961252	40.559	ppbv	99
114) 1,4-Dichlorobenzene(sim)	12.194	146	3157490	40.040	ppbv	100
115) sec-Butylbenzene(sim)	12.045	105	6040981	34.946	ppbv	99
116) 4-Isopropyltoluene(sim)	12.307	119	7414748	31.767	ppbv	99
117) 1,2-Dichlorobenzene(sim)	12.415	146	3866265	39.801	ppbv	99
118) n-Butylbenzene(sim)	12.573	91	6187512	40.675	ppbv	100
119) 1,2,4-Trichlorobenzene...	13.554	180	2471705	68.996	ppbv	100
121) Hexachlorobutadiene(sim)	13.882	225	3378052	27.424	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
Data File : 1211_16.D
Acq On : 12 Dec 2020 2:49 am
Operator :
Client ID : ICAL 40
Lab ID : 40
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 14 09:16:46 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Dec 14 09:16:37 2020
Response via : Initial Calibration

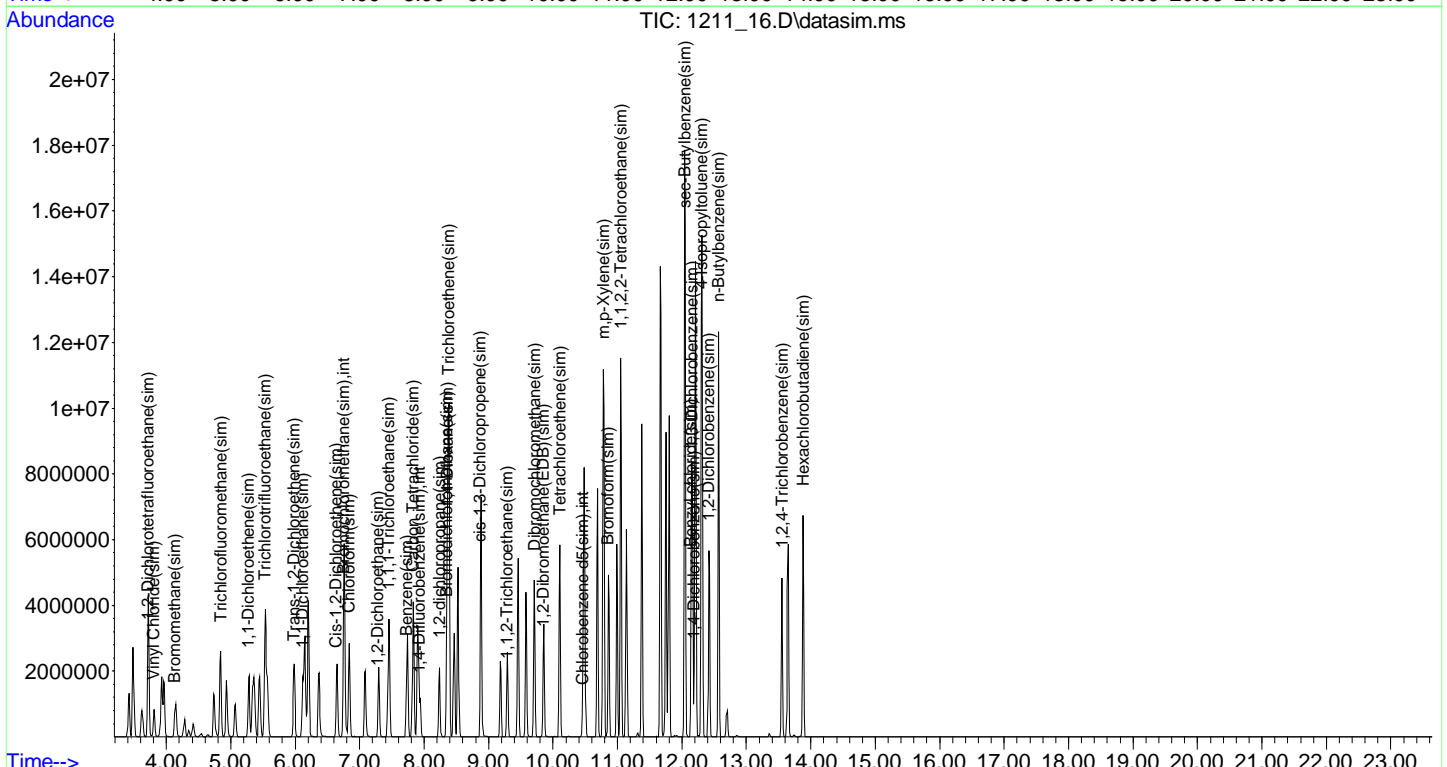
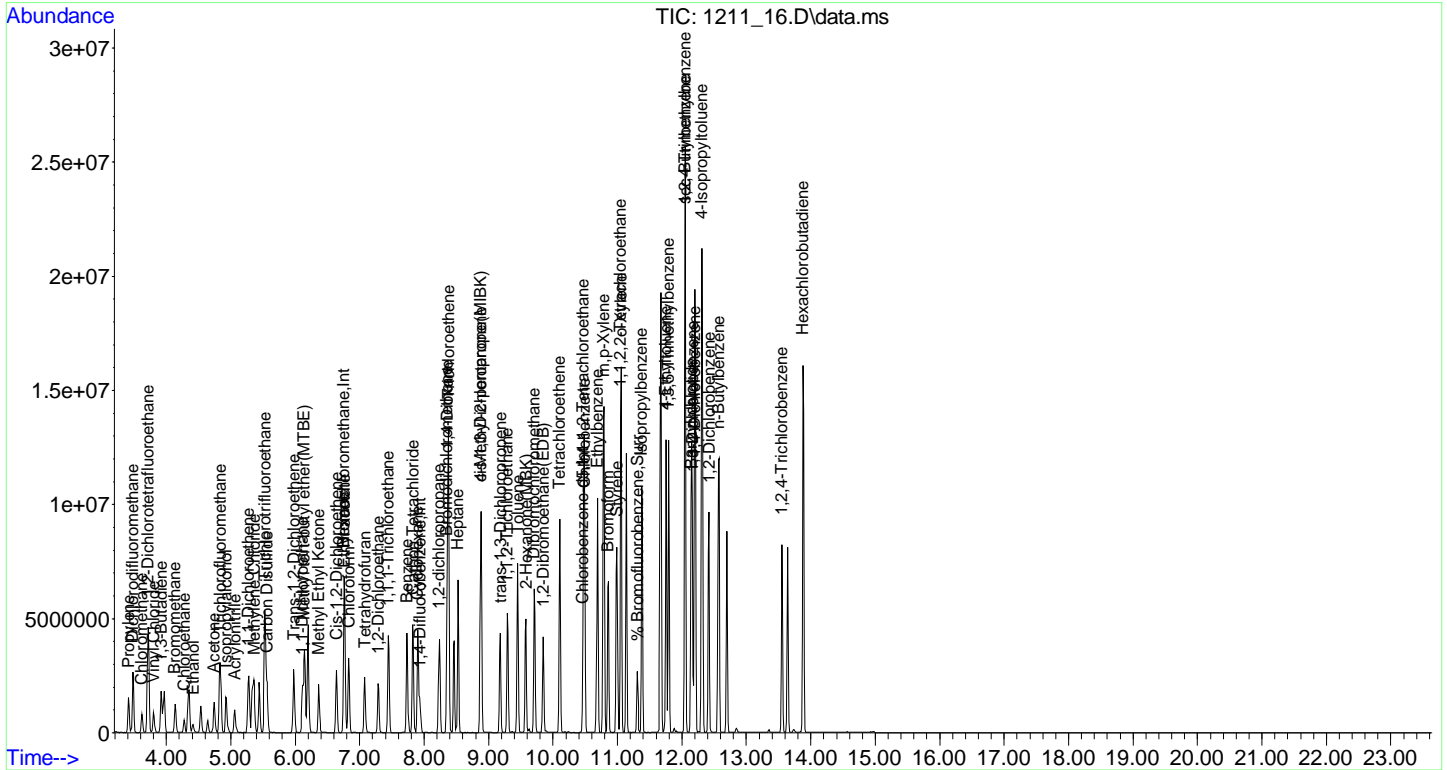
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_16.D
 Acq On : 12 Dec 2020 2:49 am
 Operator :
 Client ID : ICAL 40
 Lab ID : 40
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 14 09:16:46 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 14 09:16:37 2020
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_18.D
 Acq On : 12 Dec 2020 4:00 am
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0ppb cc
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 14 09:29:50 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.736	130	235082	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.922	114	926042	10.000	ng	0.00
54) Chlorobenzene-d5	10.461	82	436832	10.000	ng	0.00
81) Bromchloromethane(sim)	6.741	130	266522	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.922	114	926042	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.461	82	436736	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromfluorobenzene	11.312	95	533764	10.152	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.50%
Target Compounds						
						Qvalue
2) Propylene	3.436	41	22775	1.003	ppbv#	77
3) Dichlorodifluoromethane	3.501	85	64518	1.040	ppbv	97
4) Chloromethane	3.641	50	24953	1.025	ppbv	95
5) 1,2-Dichlorotetrafluor...	3.727	85	62360	1.054	ppbv	92
6) Vinyl Chloride	3.813	62	24710	1.074	ppbv	83
7) 1,3-Butadiene	3.932	54	21990	1.110	ppbv#	63
8) Bromomethane	4.147	94	21578	1.065	ppbv	86
9) Chloroethane	4.277	64	11638	1.055	ppbv	87
11) Ethanol	4.428	45	12187	1.031	ppbv#	64
12) Acetone	4.772	43	41052	0.978	ppbv#	84
13) Trichlorofluoromethane	4.837	101	62622	0.990	ppbv	99
14) Isopropylalcohol	4.956	45	55467	1.015	ppbv	94
15) Acrylonitrile	5.063	53	18266	0.964	ppbv#	83
16) 1,1-Dichloroethene	5.270	61	38896	0.985	ppbv	89
17) Methylene Chloride	5.357	49	32359	1.003	ppbv	94
20) Carbon Disulfide	5.555	76	59383	0.953	ppbv	99
21) Trichlorotrifluoroethane	5.529	101	47686	0.961	ppbv	93
22) Trans-1,2-Dichloroethene	5.970	61	35022	0.972	ppbv	86
23) 1,1-Dichloroethane	6.104	63	41952	0.992	ppbv	93
24) Methyl tert-butyl ethe...	6.167	73	68209	0.976	ppbv	90
26) Methyl Ethyl Ketone	6.380	43	64798	0.977	ppbv#	94
27) Cis-1,2-Dichloroethene	6.631	61	32581	0.938	ppbv	96
28) Hexane	6.756	57	38780	0.956	ppbv	99
29) Chloroform	6.819	83	52205	0.961	ppbv	94
30) Ethyl acetate	6.777	61	8001	0.989	ppbv#	59
31) Tetrahydrofuran	7.111	42	34114	0.980	ppbv	96
32) 1,2-Dichloroethane	7.277	62	35555	0.927	ppbv#	92
33) 1,1,1-Trichloroethane	7.444	97	56751	0.968	ppbv	97
34) Benzene	7.722	78	70435	0.993	ppbv	93
35) Carbon Tetrachloride	7.822	117	62785	0.982	ppbv	95
36) Cyclohexane	7.900	41	25886	0.957	ppbv#	63
38) 1,2-dichloropropane	8.234	63	28377	0.996	ppbv	93
39) Bromdichloromethane	8.346	83	59463	0.947	ppbv	98
40) Trichloroethene	8.368	130	34397	0.968	ppbv	94
42) 1,4-Dioxane	8.379	88	16412	1.018	ppbv#	80
44) Heptane	8.524	43	54120	0.947	ppbv	97
45) cis-1,3-Dichloropropene	8.869	75	42862	0.949	ppbv	94
46) 4-Methyl-2-pentanone(M..	8.891	43	68364	0.905	ppbv#	92
47) trans-1,3-Dichloropropene	9.172	75	41510	0.944	ppbv	91
48) 1,1,2-Trichloroethane	9.289	97	30606	0.944	ppbv	95
49) Toluene	9.454	91	87157	0.938	ppbv	99
50) Dibromchloromethane	9.706	129	59886	0.952	ppbv	95
51) 2-Hexanone (MBK)	9.580	43	60571	0.914	ppbv#	90
52) 1,2-Dibromethane (EDB)	9.852	107	45254	0.905	ppbv	96

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_18.D
 Acq On : 12 Dec 2020 4:00 am
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0ppb cc
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 14 09:29:50 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
53) Tetrachloroethene	10.104	166	46414	0.951	ppbv	98
55) 1,1,1,2-Tetrachloroethane	10.471	131	44140	1.057	ppbv	96
56) Chlorobenzene	10.481	112	74015	1.063	ppbv#	59
57) Ethylbenzene	10.686	91	120591	1.011	ppbv	97
58) m p-Xylene	10.779	91	184574	2.055	ppbv	98
59) Bromoform	10.850	173	54979	0.986	ppbv	99
60) Styrene	10.984	104	66947	0.988	ppbv	95
61) 1,1,2,2-Tetrachloroethane	11.045	83	64860	1.023	ppbv	94
62) o-Xylene	11.045	91	95524	1.007	ppbv	92
65) Isopropylbenzene	11.373	105	133021	1.023	ppbv	98
67) 4-Ethyltoluene	11.753	105	123345	0.973	ppbv	99
68) 1,3,5-Trimethylbenzene	11.794	105	101129	0.936	ppbv	99
69) 1,2,4-Trimethylbenzene	12.040	105	95199	0.879	ppbv	94
71) Benzyl chloride	12.143	91	71413	0.940	ppbv	98
72) 1,3-Dichlorobenzene	12.153	146	60667	0.957	ppbv	96
73) 1,4-Dichlorobenzene	12.194	146	54396	0.949	ppbv	90
74) sec-Butylbenzene	12.040	105	95199	0.879	ppbv	96
75) 4-Isopropyltoluene	12.296	119	141377	0.955	ppbv	97
76) 1,2-Dichlorobenzene	12.409	146	61045	0.973	ppbv	90
77) n-Butylbenzene	12.563	91	96958	0.885	ppbv	97
78) 1,2,4-Trichlorobenzene	13.548	180	19765	0.640	ppbv	97
80) Hexachlorobutadiene	13.877	225	59773	0.978	ppbv	98
82) 1,2-Dichlorotetrafluor...	3.727	85	61164	0.926	ppbv	93
83) Vinyl Chloride(sim)	3.819	62	26235	0.976	ppbv	97
84) Bromomethane(sim)	4.147	94	21578	0.920	ppbv#	81
85) Trichlorofluoromethane...	4.832	101	67071	0.946	ppbv#	100
86) 1,2-Dichloroethane(sim)	7.277	62	35555	0.883	ppbv#	92
87) 1,1,1-Trichloroethane(...)	7.439	97	61094	0.928	ppbv#	99
88) Benzene(sim)	7.722	78	70435	0.898	ppbv	93
89) Carbon Tetrachloride(sim)	7.817	117	66310	0.922	ppbv	99
90) 1,1-Dichloroethene(sim)	5.270	61	38896	0.880	ppbv	89
91) Trichlorotrifluoroetha...	5.535	101	52396	0.920	ppbv#	100
92) Trans-1,2-Dichloroetha...	5.970	61	35022	0.887	ppbv	86
93) 1,1-Dichloroethane(sim)	6.110	63	46249	0.916	ppbv	99
94) Cis-1,2-Dichloroethene...	6.631	61	32581	0.840	ppbv	96
95) Chloroform(sim)	6.824	83	54347	0.903	ppbv	96
97) 1,2-dichloropropane(sim)	8.229	63	30264	0.868	ppbv	98
98) Bromdichloromethane(sim)	8.346	83	59342	0.866	ppbv	97
99) Trichloroethene(sim)	8.373	130	39583	0.902	ppbv	99
100) 1,4-Dioxane(sim)	8.379	88	16412	0.944	ppbv#	80
101) cis-1,3-Dichloropropen...	8.875	75	48220	0.913	ppbv	99
102) 1,1,2-Trichloroethane(...)	9.289	97	30606	0.876	ppbv	95
103) Dibromchloromethane(sim)	9.712	129	66216	0.920	ppbv	99
104) 1,2-Dibromoethane(EDB)...	9.852	107	45254	0.879	ppbv	96
105) Tetrachloroethene(sim)	10.100	166	54632	0.911	ppbv	98
107) Bromoform(sim)	10.856	173	62237	0.927	ppbv	100
108) m p-Xylene(sim)	10.779	91	186070	1.912	ppbv	98
109) 1,1,2,2-Tetrachloroeth...	11.051	83	68576	0.906	ppbv	99
112) Benzyl chloride(sim)	12.143	91	71413	0.988	ppbv	98
113) 1,3-Dichlorobenzene(sim)	12.158	146	70628	1.017	ppbv	99
114) 1,4-Dichlorobenzene(sim)	12.194	146	54396	0.970	ppbv	90
115) sec-Butylbenzene(sim)	12.046	105	105491	0.858	ppbv	96
116) 4-Isopropyltoluene(sim)	12.296	119	141747	0.854	ppbv	97
117) 1,2-Dichlorobenzene(sim)	12.415	146	69322	1.004	ppbv	99
118) n-Butylbenzene(sim)	12.563	91	96958	0.896	ppbv	97
119) 1,2,4-Trichlorobenzene...	13.554	180	24243	0.952	ppbv	99
121) Hexachlorobutadiene(sim)	13.882	225	74355	0.849	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
Data File : 1211_18.D
Acq On : 12 Dec 2020 4:00 am
Operator :
Client ID : ICAL 1
Lab ID : 1.0ppb cc
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 14 09:29:50 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Dec 14 09:27:51 2020
Response via : Initial Calibration

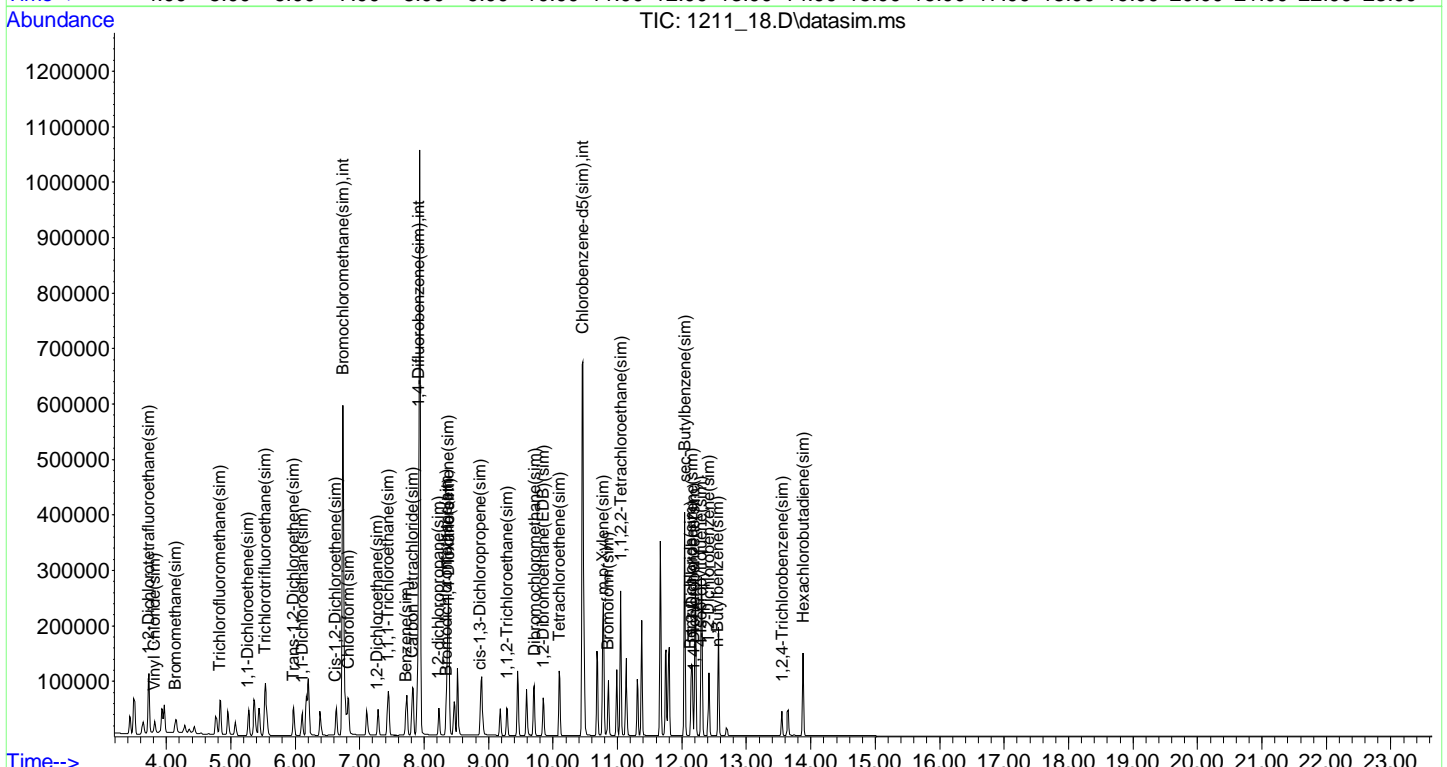
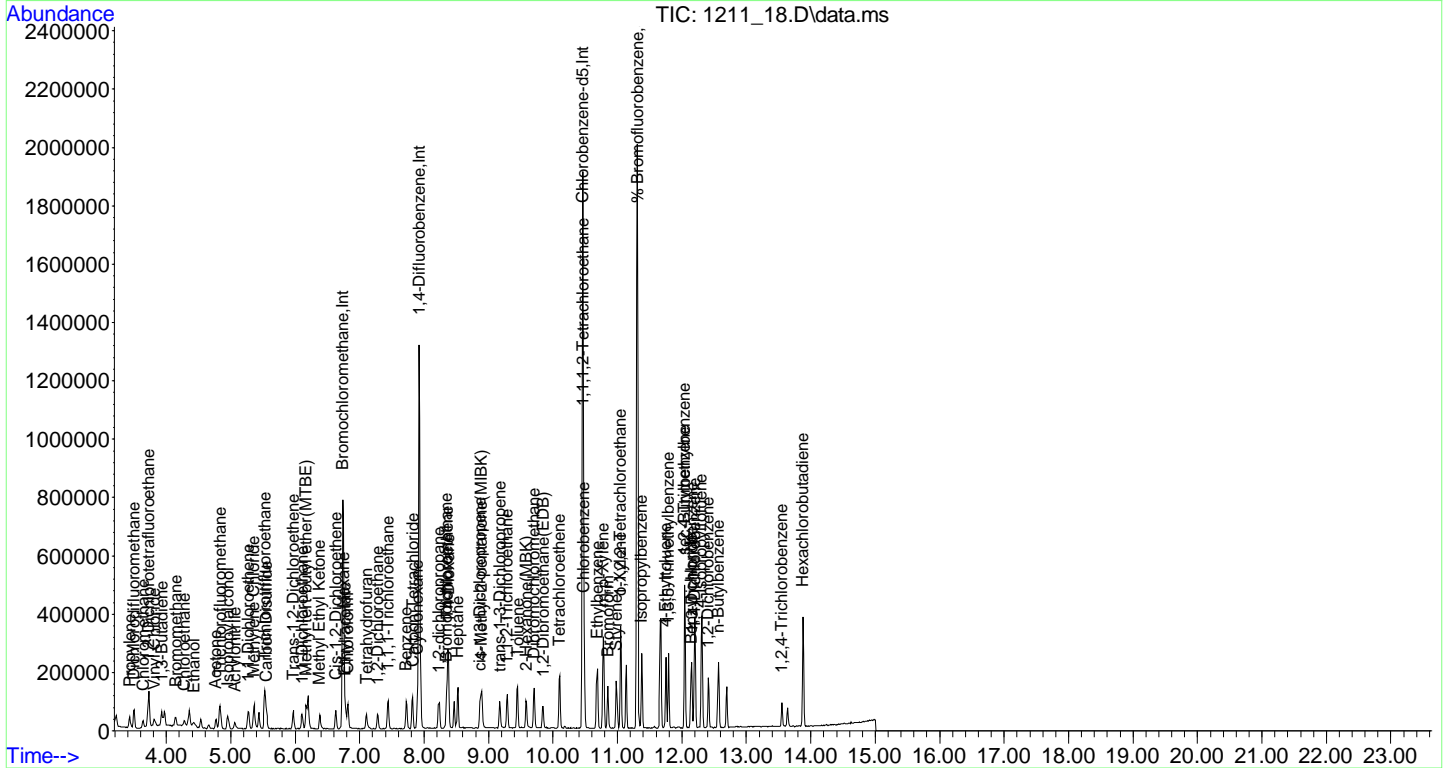
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
Data File : 1211_18.D
Acq On : 12 Dec 2020 4:00 am
Operator :
Client ID : ICAL 1
Lab ID : 1.Oppb cc
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 14 09:29:50 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Mon Dec 14 09:27:51 2020
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_19.D
 Acq On : 12 Dec 2020 4:37 am
 Operator :
 Client ID : ICAL 10
 Lab ID : 10ppb.cc
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 14 09:30:21 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.746	130	220688	10.000	ng	0.01
37) 1,4-Difluorobenzene	7.933	114	872677	10.000	ng	0.01
54) Chlorobenzene-d5	10.461	82	459150	10.000	ng	0.00
81) Bromchloromethane(sim)	6.751	130	251218	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	7.933	114	872677	10.000	ng	0.01
106) Chlorobenzene-d5(sim)	10.461	82	459246	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromfluorobenzene	11.311	95	562013	10.170	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.317	41	761	0.036	ppbv	94
3) Dichlorodifluoromethane	3.490	85	616513	10.587	ppbv#	97
4) Chloromethane	3.630	50	228708	10.009	ppbv	95
5) 1,2-Dichlorotetrafluor...	3.716	85	569724	10.253	ppbv	96
6) Vinyl Chloride	3.802	62	221343	10.245	ppbv	83
7) 1,3-Butadiene	3.921	54	186361	10.022	ppbv#	65
8) Bromomethane	4.136	94	187087	9.832	ppbv#	82
9) Chloroethane	4.276	64	103145	9.960	ppbv	84
11) Ethanol	4.417	45	100816	9.081	ppbv#	39
12) Acetone	4.740	43	395514	10.039	ppbv#	83
13) Trichlorofluoromethane	4.837	101	616873	10.388	ppbv	99
14) Isopropylalcohol	4.923	45	542201	10.569	ppbv	94
15) Acrylonitrile	5.063	53	183119	10.291	ppbv	86
16) 1,1-Dichloroethene	5.270	61	374828	10.115	ppbv#	86
17) Methylene Chloride	5.356	49	298770	9.869	ppbv	96
20) Carbon Disulfide	5.563	76	598757	10.239	ppbv	97
21) Trichlorotrifluoroethane	5.529	101	470167	10.091	ppbv	92
22) Trans-1,2-Dichloroethene	5.970	61	346934	10.260	ppbv	87
23) 1,1-Dichloroethane	6.104	63	397099	9.999	ppbv	93
24) Methyl tert-butyl ethe...	6.152	73	644052	9.819	ppbv	90
26) Methyl Ethyl Ketone	6.364	43	558885	8.973	ppbv#	89
27) Cis-1,2-Dichloroethene	6.631	61	337434	10.350	ppbv	99
28) Hexane	6.756	57	377612	9.914	ppbv	99
29) Chloroform	6.829	83	508826	9.973	ppbv	94
30) Ethyl acetate	6.767	61	77804	10.248	ppbv#	53
31) Tetrahydrofuran	7.079	42	319679	9.783	ppbv	93
32) 1,2-Dichloroethane	7.287	62	379001	10.520	ppbv	96
33) 1,1,1-Trichloroethane	7.444	97	561158	10.194	ppbv	95
34) Benzene	7.733	78	671868	10.094	ppbv	95
35) Carbon Tetrachloride	7.822	117	605621	10.093	ppbv	98
36) Cyclohexane	7.900	41	256706	10.105	ppbv#	51
38) 1,2-dichloropropane	8.234	63	272246	10.141	ppbv	92
39) Bromdichloromethane	8.345	83	605874	10.237	ppbv	96
40) Trichloroethene	8.368	130	342953	10.247	ppbv	93
42) 1,4-Dioxane	8.368	88	161306	10.617	ppbv#	84
44) Heptane	8.524	43	533651	9.907	ppbv	97
45) cis-1,3-Dichloropropene	8.880	75	427512	10.047	ppbv	93
46) 4-Methyl-2-pentanone(M..	8.880	43	750052	10.539	ppbv	93
47) trans-1,3-Dichloropropene	9.172	75	424673	10.249	ppbv	93
48) 1,1,2-Trichloroethane	9.289	97	305760	10.011	ppbv	95
49) Toluene	9.454	91	886137	10.122	ppbv	99
50) Dibromchloromethane	9.706	129	599874	10.120	ppbv	98
51) 2-Hexanone (MBK)	9.580	43	672933	10.773	ppbv#	89
52) 1,2-Dibromethane (EDB)	9.851	107	489991	10.393	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_19.D
 Acq On : 12 Dec 2020 4:37 am
 Operator :
 Client ID : ICAL 10
 Lab ID : 10ppb cc
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 14 09:30:21 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
53) Tetrachloroethene	10.104	166	469264	10.206	ppbv	99
55) 1,1,1,2-Tetrachloroethane	10.471	131	440536	10.038	ppbv	98
56) Chlorobenzene	10.481	112	738021	10.088	ppbv#	55
57) Ethylbenzene	10.686	91	1236511	9.865	ppbv	99
58) m p-Xylene	10.779	91	1931379	20.458	ppbv	97
59) Bromoform	10.850	173	610041	10.410	ppbv	98
60) Styrene	10.984	104	726936	10.211	ppbv	98
61) 1,1,2,2-Tetrachloroethane	11.045	83	657072	9.858	ppbv	97
62) o-Xylene	11.045	91	979253	9.822	ppbv	96
65) Isopropylbenzene	11.373	105	1397659	10.223	ppbv	96
67) 4-Ethyltoluene	11.752	105	1426499	10.700	ppbv	99
68) 1,3,5-Trimethylbenzene	11.793	105	1183141	10.415	ppbv	96
69) 1,2,4-Trimethylbenzene	12.040	105	1227518	10.789	ppbv	96
71) Benzyl chloride	12.142	91	915518	11.466	ppbv	98
72) 1,3-Dichlorobenzene	12.153	146	725313	10.890	ppbv	95
73) 1,4-Dichlorobenzene	12.194	146	675387	11.205	ppbv	89
74) sec-Butylbenzene	12.040	105	1227518	10.789	ppbv	95
75) 4-Isopropyltoluene	12.296	119	1635564	10.514	ppbv	97
76) 1,2-Dichlorobenzene	12.409	146	707115	10.727	ppbv	91
77) n-Butylbenzene	12.563	91	1292388	11.229	ppbv	99
78) 1,2,4-Trichlorobenzene	13.548	180	374045	10.764	ppbv	95
80) Hexachlorobutadiene	13.877	225	639614	9.958	ppbv	97
82) 1,2-Dichlorotetrafluor...	3.716	85	569521	9.150	ppbv	96
83) Vinyl Chloride(sim)	3.808	62	242024	9.548	ppbv	96
84) Bromomethane(sim)	4.136	94	187087	8.465	ppbv#	77
85) Trichlorofluoromethane...	4.832	101	656250	9.824	ppbv#	99
86) 1,2-Dichloroethane(sim)	7.287	62	379001	9.986	ppbv	96
87) 1,1,1-Trichloroethane(...)	7.449	97	606139	9.766	ppbv#	99
88) Benzene(sim)	7.733	78	671868	9.091	ppbv	95
89) Carbon Tetrachloride(sim)	7.828	117	662978	9.779	ppbv	100
90) 1,1-Dichloroethene(sim)	5.270	61	374828	8.998	ppbv#	86
91) Trichlorotrifluoroetha...	5.534	101	503130	9.369	ppbv#	100
92) Trans-1,2-Dichloroethe...	5.970	61	346934	9.323	ppbv	87
93) 1,1-Dichloroethane(sim)	6.110	63	449388	9.441	ppbv	99
94) Cis-1,2-Dichloroethene...	6.631	61	337434	9.233	ppbv	99
95) Chloroform(sim)	6.824	83	539691	9.508	ppbv	96
97) 1,2-dichloropropane(sim)	8.228	63	300811	9.152	ppbv	98
98) Bromdichloromethane(sim)	8.345	83	605874	9.381	ppbv	95
99) Trichloroethene(sim)	8.373	130	388938	9.408	ppbv	99
100) 1,4-Dioxane(sim)	8.368	88	161306	9.847	ppbv#	84
101) cis-1,3-Dichloropropen...	8.874	75	487724	9.802	ppbv	99
102) 1,1,2-Trichloroethane(...)	9.289	97	305760	9.283	ppbv	95
103) Dibromchloromethane(sim)	9.711	129	688992	10.161	ppbv	99
104) 1,2-Dibromethane(EDB)...	9.851	107	489991	10.105	ppbv	99
105) Tetrachloroethene(sim)	10.109	166	547328	9.686	ppbv	99
107) Bromoform(sim)	10.856	173	690099	9.770	ppbv	100
108) m p-Xylene(sim)	10.779	91	1933383	18.893	ppbv	97
109) 1,1,2,2-Tetrachloroeth...	11.051	83	712193	8.945	ppbv	100
112) Benzyl chloride(sim)	12.142	91	915518	12.041	ppbv	98
113) 1,3-Dichlorobenzene(sim)	12.158	146	831601	11.387	ppbv	99
114) 1,4-Dichlorobenzene(sim)	12.194	146	675387	11.453	ppbv	89
115) sec-Butylbenzene(sim)	12.045	105	1349800	10.442	ppbv	96
116) 4-Isopropyltoluene(sim)	12.296	119	1635921	9.373	ppbv	97
117) 1,2-Dichlorobenzene(sim)	12.415	146	806690	11.105	ppbv	99
118) n-Butylbenzene(sim)	12.563	91	1292388	11.361	ppbv	99
119) 1,2,4-Trichlorobenzene...	13.554	180	439041	16.389	ppbv	99
121) Hexachlorobutadiene(sim)	13.882	225	764706	8.302	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
Data File : 1211_19.D
Acq On : 12 Dec 2020 4:37 am
Operator :
Client ID : ICAL 10
Lab ID : 10ppb cc
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 14 09:30:21 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Dec 14 09:27:51 2020
Response via : Initial Calibration

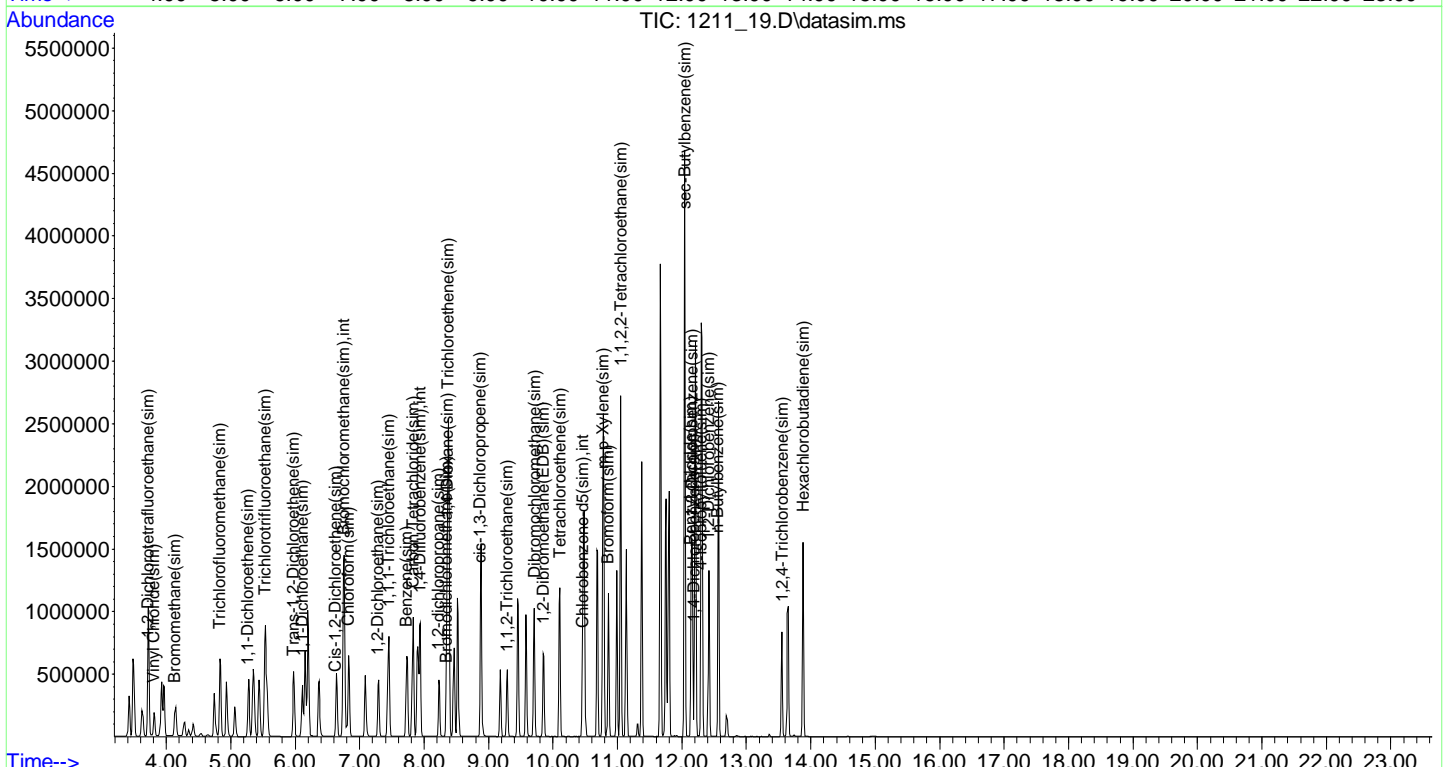
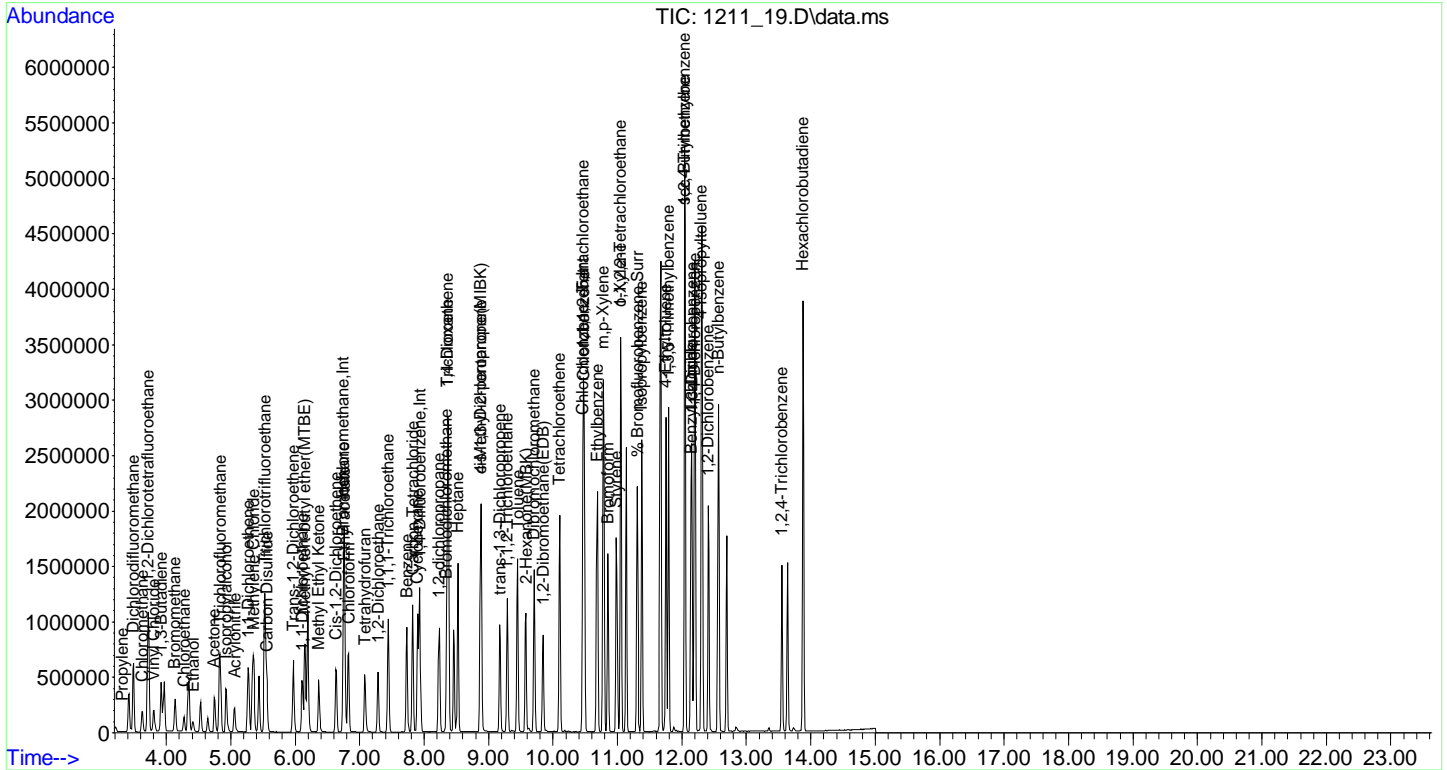
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\11\
 Data File : 1211_19.D
 Acq On : 12 Dec 2020 4:37 am
 Operator :
 Client ID : ICAL 10
 Lab ID : 10ppb cc
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 14 09:30:21 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH37250
 Instrument: CHEM20 Calibration Date: 12/23/20 Time: 15:30
 Lab File Id: 1223_02.D Init. Calib. Date(s): 12/11/20 12/12/20
 Heated Purge (Y/N): Y Init. Calib. Times: 20:08 04:37
 GC Column: RTX-1 60M Method File: 20_AIR_1211.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Propylene	0.966	1.098		-13.7	30
Dichlorodifluoromethane	2.639	2.964		-12.3	30
Chloromethane	1.035	1.005		2.9	30
1,2-Dichlorotetrafluoroethane	2.518	2.493		1.0	30
Vinyl Chloride	0.979	0.906		7.5	30
1,3-Butadiene	0.843	0.837		0.7	30
Bromomethane	0.862	0.890		-3.2	30
Chloroethane	0.469	0.475		-1.3	30
Ethanol	0.503	0.611		-21.5	30
Acetone	1.785	2.236		-25.3	30
Trichlorofluoromethane	2.691	3.361		-24.9	30
Isopropylalcohol	2.325	2.688		-15.6	30
Acrylonitrile	0.806	0.843		-4.6	30
1,1-Dichloroethene	1.679	1.841		-9.6	30
Methylene Chloride	1.372	1.490		-8.6	30
Carbon Disulfide	2.650	2.487		6.2	30
Trichlorotrifluoroethane	2.111	2.151		-1.9	30
Trans-1,2-Dichloroethene	1.532	1.461		4.6	30
1,1-Dichloroethane	1.800	1.811		-0.6	30
Methyl tert-butyl ether(MTBE)	2.972	2.796		5.9	30
Methyl Ethyl Ketone	2.822	2.499		11.4	30
Cis-1,2-Dichloroethene	1.477	1.419		3.9	30
Hexane	1.726	1.589		7.9	30
Chloroform	2.312	2.351		-1.7	30
Ethyl acetate	0.344	0.312		9.3	30
Tetrahydrofuran	1.481	1.325		10.5	30
1,2-Dichloroethane	1.632	1.825		-11.8	30
1,1,1-Trichloroethane	2.494	2.664		-6.8	30
Benzene	3.016	2.628		12.9	30
Carbon Tetrachloride	2.719	2.796		-2.8	30
Cyclohexane	1.151	1.217		-5.7	30
1,2-dichloropropane	0.308	0.272		11.7	30
Bromodichloromethane	0.678	0.655		3.4	30
Trichloroethene	0.384	0.375		2.3	30
1,4-Dioxane	0.174	0.162		6.9	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
 %D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
 (#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH37250
 Instrument: CHEM20 Calibration Date: 12/23/20 Time: 15:30
 Lab File Id: 1223_02.D Init. Calib. Date(s): 12/11/20 12/12/20
 Heated Purge (Y/N): Y Init. Calib. Times: 20:08 04:37
 GC Column: RTX-1 60M Method File: 20_AIR_1211.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Heptane	0.617	0.600		2.8	30
cis-1,3-Dichloropropene	0.488	0.439		10.0	30
4-Methyl-2-pentanone(MIBK)	0.816	0.707		13.4	30
trans-1,3-Dichloropropene	0.475	0.441		7.2	30
1,1,2-Trichloroethane	0.350	0.316		9.7	30
Toluene	1.003	0.896		10.7	30
Dibromochloromethane	0.679	0.621		8.5	30
2-Hexanone(MBK)	0.716	0.613		14.4	30
1,2-Dibromoethane(EDB)	0.540	0.469		13.1	30
Tetrachloroethene	0.527	0.482		8.5	30
1,1,1,2-Tetrachloroethane	0.956	1.039		-8.7	30
Chlorobenzene	1.593	1.584		0.6	30
Ethylbenzene	2.730	2.669		2.2	30
m,p-Xylene	2.056	1.597		22.3	30
Bromoform	1.276	1.154		9.6	30
Styrene	1.550	1.370		11.6	30
1,1,2,2-Tetrachloroethane	1.452	1.357		6.5	30
o-Xylene	2.171	2.142		1.3	30
Isopropylbenzene	2.978	2.972		0.2	30
4-Ethyltoluene	2.903	2.720		6.3	30
1,3,5-Trimethylbenzene	2.474	2.247		9.2	30
1,2,4-Trimethylbenzene	2.478	2.102		15.2	30
Benzyl chloride	1.739	1.360		21.8	30
1,3-Dichlorobenzene	1.451	1.344		7.4	30
1,4-Dichlorobenzene	1.313	1.197		8.8	30
sec-Butylbenzene	2.478	2.102		15.2	30
4-Isopropyltoluene	3.388	3.208		5.3	30
1,2-Dichlorobenzene	1.436	1.298		9.6	30
n-Butylbenzene	2.507	2.141		14.6	30
1,2,4-Trichlorobenzene qfi	1.000	0.43		57.0 #	20
Hexachlorobutadiene	1.399	1.463		-4.6	30
1,2-Dichlorotetrafluoroethane(sim)	2.478	2.133		13.9	30
Vinyl Chloride(sim)	1.009	0.920		8.8	30
Bromomethane(sim)	0.880	0.761		13.5	30
Trichlorofluoromethane(sim)	2.659	3.161		-18.9	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH37250
 Instrument: CHEM20 Calibration Date: 12/23/20 Time: 15:30
 Lab File Id: 1223_02.D Init. Calib. Date(s): 12/11/20 12/12/20
 Heated Purge (Y/N): Y Init. Calib. Times: 20:08 04:37
 GC Column: RTX-1 60M Method File: 20_AIR_1211.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
1,2-Dichloroethane(sim)	1.511	1.561		-3.3	30
1,1,1-Trichloroethane(sim)	2.471	2.534		-2.5	30
Benzene(sim)	2.942	2.248		23.6	30
Carbon Tetrachloride(sim)	2.699	2.761		-2.3	30
1,1-Dichloroethene(sim)	1.658	1.574		5.1	30
Trichlorotrifluoroethane(sim)	2.138	2.019		5.6	30
Trans-1,2-Dichloroethene(sim)	1.481	1.249		15.7	30
1,1-Dichloroethane(sim)	1.895	1.718		9.3	30
Cis-1,2-Dichloroethene(sim)	1.455	1.214		16.6	30
Chloroform(sim)	2.259	2.150		4.8	30
1,2-dichloropropane(sim)	0.377	0.313		17.0	30
Bromodichloromethane(sim)	0.740	0.653		11.8	30
Trichloroethene(sim)	0.474	0.430		9.3	30
1,4-Dioxane(sim)	0.188	0.162		13.8	30
cis-1,3-Dichloropropene(sim)	0.570	0.502		11.9	30
1,1,2-Trichloroethane(sim)	0.377	0.313		17.0	30
Dibromochloromethane(sim)	0.777	0.711		8.5	30
1,2-Dibromoethane(EDB)(sim)	0.556	0.469		15.6	30
Tetrachloroethene(sim)	0.648	0.614		5.2	30
Bromoform(sim)	1.538	1.356		11.8	30
m,p-Xylene(sim)	2.228	2.009		9.8	30
1,1,1,2-Tetrachloroethane(sim)	1.734	1.466		15.5	30
Benzyl chloride(sim)	1.656	1.360		17.9	30
1,3-Dichlorobenzene(sim)	1.590	1.599		-0.6	30
1,4-Dichlorobenzene(sim)	1.284	1.197		6.8	30
sec-Butylbenzene(sim)	2.815	2.443		13.2	30
4-Isopropyltoluene(sim)	3.801	3.208		15.6	30
1,2-Dichlorobenzene(sim)	1.582	1.569		0.8	30
n-Butylbenzene(sim)	2.477	2.141		13.6	30
1,2,4-Trichlorobenzene(sim)	0.583	0.397		31.9 #	30
Hexachlorobutadiene(sim)	2.006	1.925		4.0	30
% Bromofluorobenzene	1.204	1.267		-5.2	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
 %D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
 (#) Maximum %D not met.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_02.D
 Acq On : 23 Dec 2020 3:30 pm
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb cc - 1.0ppb cc
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 24 08:16:29 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Mn. RRF : 0.000 Mn. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%
1 Int	Bromochloromethane	1.000	1.000	0.0	86
2	Propylene	0.966	1.098	-13.7	
3	Dichlorodifluoromethane	2.639	2.964	-12.3	
4	Chloromethane	1.035	1.005	2.9	
5	1,2-Dichlorotetrafluoroetha	2.518	2.493	1.0	
6	Vinyl Chloride	0.979	0.906	7.5	
7	1,3-Butadiene	0.843	0.837	0.7	
8	Bromomethane	0.862	0.890	-3.2	
9	Chloroethane	0.469	0.475	-1.3	
11	Ethanol	0.503	0.611	-21.5	
12	Acetone	1.785	2.236	-25.3	
13	Trichlorofluoromethane	2.691	3.361	-24.9	
14	Isopropylalcohol	2.325	2.688	-15.6	
15	Acrylonitrile	0.806	0.843	-4.6	
16	1,1-Dichloroethene	1.679	1.841	-9.6	
17	Methylene Chloride	1.372	1.490	-8.6	
20	Carbon Disulfide	2.650	2.487	6.2	
21	Trichlorotrifluoroethane	2.111	2.151	-1.9	
22	Trans-1,2-Dichloroethene	1.532	1.461	4.6	
23	1,1-Dichloroethane	1.800	1.811	-0.6	
24	Methyl tert-butyl ether (MTB)	2.972	2.796	5.9	
26	Methyl Ethyl Ketone	2.822	2.499	11.4	
27	Cis-1,2-Dichloroethene	1.477	1.419	3.9	
28	Hexane	1.726	1.589	7.9	
29	Chloroform	2.312	2.351	-1.7	
30	Ethyl acetate	0.344	0.312	9.3	
31	Tetrahydrofuran	1.481	1.325	10.5	
32	1,2-Dichloroethane	1.632	1.825	-11.8	
33	1,1,1-Trichloroethane	2.494	2.664	-6.8	
34	Benzene	3.016	2.628	12.9	
35	Carbon Tetrachloride	2.719	2.796	-2.8	
36	Cyclohexane	1.151	1.217	-5.7	
37 Int	1,4-Difluorobenzene	1.000	1.000	0.0	84
38	1,2-dichloropropane	0.308	0.272	11.7	
39	Bromdichloromethane	0.678	0.655	3.4	
40	Trichloroethene	0.384	0.375	2.3	
42	1,4-Dioxane	0.174	0.162	6.9	
44	Heptane	0.617	0.600	2.8	
45	cis-1,3-Dichloropropene	0.488	0.439	10.0	
46	4-Methyl-2-pentanone (MBK)	0.816	0.707	13.4	
47	trans-1,3-Dichloropropene	0.475	0.441	7.2	
48	1,1,2-Trichloroethane	0.350	0.316	9.7	
49	Toluene	1.003	0.896	10.7	
50	Dibromochloromethane	0.679	0.621	8.5	
51	2-Hexanone (MBK)	0.716	0.613	14.4	
52	1,2-Dibromethane (EDB)	0.540	0.469	13.1	
53	Tetrachloroethene	0.527	0.482	8.5	
54 Int	Chlorobenzene-d5	1.000	1.000	0.0	83
55	1,1,1,2-Tetrachloroethane	0.956	1.039	-8.7	
56	Chlorobenzene	1.593	1.584	0.6	
57	Ethylbenzene	2.730	2.669	2.2	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_02.D
 Acq On : 23 Dec 2020 3:30 pm
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb cc - 1.0ppb cc
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 24 08:16:29 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Mn. RRF : 0.000 Mn. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%
58	m p-Xylene	2.056	1.597	22.3	
59	Bromform	1.276	1.154	9.6	
60	Styrene	1.550	1.370	11.6	
61	1, 1, 2, 2-Tetrachloroethane	1.452	1.357	6.5	
62	o-Xylene	2.171	2.142	1.3	
63	Surr % Bromofluorobenzene	1.204	1.267	-5.2	
65	Isopropylbenzene	2.978	2.972	0.2	
67	4-Ethyltoluene	2.903	2.720	6.3	
68	1, 3, 5-Trimethylbenzene	2.474	2.247	9.2	
69	1, 2, 4-Trimethylbenzene	2.478	2.102	15.2	
71	Benzyl chloride	1.739	1.360	21.8	
72	1, 3-Dichlorobenzene	1.451	1.344	7.4	
73	1, 4-Dichlorobenzene	1.313	1.197	8.8	
74	sec-Butylbenzene	2.478	2.102	15.2	
75	4-Isopropyltoluene	3.388	3.208	5.3	
76	1, 2-Dichlorobenzene	1.436	1.298	9.6	
77	n-Butylbenzene	2.507	2.141	14.6	
78	qf 1, 2, 4-Trichlorobenzene	1.000	0.431	56.9#	
80	Hexachlorobutadiene	1.399	1.463	-4.6	
81	int Bromochloromethane(sim)	1.000	1.000	0.0	89
82	1, 2-Dichlorotetrafluoroetha	2.478	2.133	13.9	
83	Vinyl Chloride(sim)	1.009	0.920	8.8	
84	Bromomethane(sim)	0.880	0.761	13.5	
85	Trichlorofluoromethane(sim)	2.659	3.161	-18.9	
86	1, 2-Dichloroethane(sim)	1.511	1.561	-3.3	
87	1, 1, 1-Trichloroethane(sim)	2.471	2.534	-2.5	
88	Benzene(sim)	2.942	2.248	23.6	
89	Carbon Tetrachloride(sim)	2.699	2.761	-2.3	
90	1, 1-Dichloroethene(sim)	1.658	1.574	5.1	
91	Trichlorotrifluoroethane(si	2.138	2.019	5.6	
92	Trans-1, 2-Dichloroethene(si	1.481	1.249	15.7	
93	1, 1-Dichloroethane(sim)	1.895	1.718	9.3	
94	Cis-1, 2-Dichloroethene(sim)	1.455	1.214	16.6	
95	Chloroform(sim)	2.259	2.150	4.8	
96	int 1, 4-Difluorobenzene(sim)	1.000	1.000	0.0	84
97	1, 2-dichloropropane(sim)	0.377	0.313	17.0	
98	Bromdichloromethane(sim)	0.740	0.653	11.8	
99	Trichloroethene(sim)	0.474	0.430	9.3	
100	1, 4-Dioxane(sim)	0.188	0.162	13.8	
101	cis-1, 3-Dichloropropene(sim)	0.570	0.502	11.9	
102	1, 1, 2-Trichloroethane(sim)	0.377	0.313	17.0	
103	Dibromochloromethane(sim)	0.777	0.711	8.5	
104	1, 2-Dibromethane(EDB)(sim)	0.556	0.469	15.6	
105	Tetrachloroethene(sim)	0.648	0.614	5.2	
106	int Chlorobenzene-d5(sim)	1.000	1.000	0.0	83
107	Bromform(sim)	1.538	1.356	11.8	
108	m p-Xylene(sim)	2.228	2.009	9.8	
109	1, 1, 2, 2-Tetrachloroethane(s	1.734	1.466	15.5	
112	Benzyl chloride(sim)	1.656	1.360	17.9	
113	1, 3-Dichlorobenzene(sim)	1.590	1.599	-0.6	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_02.D
 Acq On : 23 Dec 2020 3:30 pm
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb cc - 1.0ppb cc
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 24 08:16:29 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Mn. RRF : 0.000 Mn. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%
114	1,4-Dichlorobenzene(sim)	1.284	1.197	6.8
115	sec-Butylbenzene(sim)	2.815	2.443	13.2
116	4-Isopropyltoluene(sim)	3.801	3.208	15.6
117	1,2-Dichlorobenzene(sim)	1.582	1.569	0.8
118	n-Butylbenzene(sim)	2.477	2.141	13.6
119	1,2,4-Trichlorobenzene(sim)	0.583	0.397	31.9#
121	Hexachlorobutadiene(sim)	2.006	1.925	4.0

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
 Laboratory Warning Limits Out = 0

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_02.D
 Acq On : 23 Dec 2020 3:30 pm
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb cc - 1.0ppb cc
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 24 08:16:29 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	6.735	130	202582	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.922	114	773773	10.000	ng	0.00
54) Chlorobenzene-d5	10.461	82	360460	10.000	ng	0.00
81) Bromochloromethane(sim)	6.741	130	236858	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.922	114	773773	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.461	82	360460	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.312	95	456805	10.529	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	105.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.436	41	22245	1.136	ppbv#	77
3) Dichlorodifluoromethane	3.500	85	60043	1.123	ppbv	95
4) Chloromethane	3.630	50	20365	0.971	ppbv	92
5) 1,2-Dichlorotetrafluor...	3.727	85	50512	0.990	ppbv	95
6) Vinyl Chloride	3.813	62	18352	0.925	ppbv	87
7) 1,3-Butadiene	3.932	54	16949	0.993	ppbv#	69
8) Bromomethane	4.136	94	18021	1.032	ppbv#	85
9) Chloroethane	4.277	64	9628	1.013	ppbv	84
11) Ethanol	4.427	45	12383	1.215	ppbv#	39
12) Acetone	4.762	43	45289	1.252	ppbv#	74
13) Trichlorofluoromethane	4.826	101	68097	1.249	ppbv	99
14) Isopropylalcohol	4.956	45	54463	1.157	ppbv#	86
15) Acrylonitrile	5.063	53	17075	1.045	ppbv#	85
16) 1,1-Dichloroethene	5.270	61	37289	1.096	ppbv#	85
17) Methylene Chloride	5.348	49	30185	1.086	ppbv#	85
20) Carbon Disulfide	5.555	76	50386	0.939	ppbv#	94
21) Trichlorotrifluoroethane	5.520	101	43584	1.019	ppbv	91
22) Trans-1,2-Dichloroethene	5.970	61	29595	0.953	ppbv#	84
23) 1,1-Dichloroethane	6.104	63	36685	1.006	ppbv	96
24) Methyl tert-butyl ethe...	6.167	73	56645	0.941	ppbv	97
26) Methyl Ethyl Ketone	6.380	43	50626	0.885	ppbv#	92
27) Cis-1,2-Dichloroethene	6.631	61	28746	0.961	ppbv	98
28) Hexane	6.746	57	32194	0.921	ppbv	92
29) Chloroform	6.819	83	47629	1.017	ppbv	99
30) Ethyl acetate	6.777	61	6315	0.906	ppbv#	58
31) Tetrahydrofuran	7.110	42	26834	0.895	ppbv	98
32) 1,2-Dichloroethane	7.277	62	36963	1.118	ppbv	98
33) 1,1,1-Trichloroethane	7.433	97	53977	1.068	ppbv	96
34) Benzene	7.722	78	53237	0.871	ppbv	98
35) Carbon Tetrachloride	7.822	117	56637	1.028	ppbv	99
36) Cyclohexane	7.900	41	24655	1.057	ppbv#	54
38) 1,2-dichloropropane	8.234	63	21015	0.883	ppbv#	85
39) Bromdichloromethane	8.345	83	50679	0.966	ppbv	99
40) Trichloroethene	8.368	130	29015	0.978	ppbv	90
42) 1,4-Dioxane	8.379	88	12536	0.931	ppbv#	73
44) Heptane	8.524	43	46462	0.973	ppbv	92
45) cis-1,3-Dichloropropene	8.869	75	33988	0.901	ppbv	92
46) 4-Methyl-2-pentanone(M..	8.891	43	54691	0.867	ppbv	95
47) trans-1,3-Dichloropropene	9.172	75	34129	0.929	ppbv	92
48) 1,1,2-Trichloroethane	9.289	97	24451	0.903	ppbv	94
49) Toluene	9.454	91	69328	0.893	ppbv	98
50) Dibromochloromethane	9.706	129	48079	0.915	ppbv	96
51) 2-Hexanone (MBK)	9.580	43	47434	0.856	ppbv#	94
52) 1,2-Dibromethane (EDB)	9.852	107	36325	0.869	ppbv	96

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_02.D
 Acq On : 23 Dec 2020 3:30 pm
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb cc - 1.0ppb cc
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 24 08:16:29 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
53) Tetrachloroethene	10.104	166	37279	0.914	ppbv	95
55) 1,1,1,2-Tetrachloroethane	10.471	131	37465	1.087	ppbv	96
56) Chlorobenzene	10.481	112	57091	0.994	ppbv#	65
57) Ethylbenzene	10.686	91	96192	0.978	ppbv	97
58) m p-Xylene	10.779	91	143907	1.942	ppbv	99
59) Bromoform	10.850	173	41613	0.905	ppbv	94
60) Styrene	10.984	104	49372	0.883	ppbv	98
61) 1,1,2,2-Tetrachloroethane	11.045	83	48919	0.935	ppbv	96
62) o-Xylene	11.045	91	77195	0.986	ppbv	92
65) Isopropylbenzene	11.373	105	107132	0.998	ppbv	100
67) 4-Ethyltoluene	11.753	105	98051	0.937	ppbv	98
68) 1,3,5-Trimethylbenzene	11.794	105	80982	0.908	ppbv	98
69) 1,2,4-Trimethylbenzene	12.040	105	75769	0.848	ppbv	91
71) Benzyl chloride	12.142	91	49031	0.782	ppbv	98
72) 1,3-Dichlorobenzene	12.153	146	48444	0.927	ppbv	95
73) 1,4-Dichlorobenzene	12.194	146	43162	0.912	ppbv	88
74) sec-Butylbenzene	12.040	105	75769	0.848	ppbv	90
75) 4-Isopropyltoluene	12.307	119	115631	0.947	ppbv	100
76) 1,2-Dichlorobenzene	12.409	146	46780	0.904	ppbv	93
77) n-Butylbenzene	12.563	91	77166	0.854	ppbv	99
78) 1,2,4-Trichlorobenzene	13.548	180	10952	0.431	ppbv	97
80) Hexachlorobutadiene	13.877	225	52722	1.046	ppbv	95
82) 1,2-Dichlorotetrafluor...	3.727	85	50510	0.861	ppbv	95
83) Vinyl Chloride(sim)	3.819	62	21802	0.912	ppbv	96
84) Bromomethane(sim)	4.136	94	18021	0.865	ppbv#	80
85) Trichlorofluoromethane...	4.832	101	74873	1.189	ppbv#	100
86) 1,2-Dichloroethane(sim)	7.277	62	36963	1.033	ppbv	98
87) 1,1,1-Trichloroethane(...)	7.439	97	60022	1.026	ppbv#	99
88) Benzene(sim)	7.722	78	53237	0.764	ppbv	98
89) Carbon Tetrachloride(sim)	7.816	117	65401	1.023	ppbv	100
90) 1,1-Dichloroethene(sim)	5.270	61	37289	0.949	ppbv#	84
91) Trichlorotrifluoroetha...	5.526	101	47815	0.944	ppbv#	99
92) Trans-1,2-Dichloroetha...	5.970	61	29595	0.844	ppbv#	84
93) 1,1-Dichloroethane(sim)	6.110	63	40686	0.907	ppbv	99
94) Cis-1,2-Dichloroethene...	6.631	61	28746	0.834	ppbv	98
95) Chloroform(sim)	6.824	83	50926	0.952	ppbv	99
97) 1,2-dichloropropane(sim)	8.229	63	24249	0.832	ppbv	85
98) Bromdichloromethane(sim)	8.345	83	50531	0.882	ppbv	98
99) Trichloroethene(sim)	8.373	130	33283	0.908	ppbv	98
100) 1,4-Dioxane(sim)	8.379	88	12536	0.863	ppbv#	74
101) cis-1,3-Dichloropropen...	8.874	75	38812	0.880	ppbv	98
102) 1,1,2-Trichloroethane(...)	9.289	97	24216	0.829	ppbv	95
103) Dibromchloromethane(sim)	9.712	129	55038	0.915	ppbv	99
104) 1,2-Dibromoethane(EDB)...	9.852	107	36325	0.845	ppbv	96
105) Tetrachloroethene(sim)	10.100	166	47542	0.949	ppbv	98
107) Bromoform(sim)	10.856	173	48866	0.881	ppbv	100
108) m p-Xylene(sim)	10.779	91	144866	1.804	ppbv	99
109) 1,1,2,2-Tetrachloroeth...	11.051	83	52841	0.846	ppbv	99
112) Benzyl chloride(sim)	12.142	91	49031	0.822	ppbv	98
113) 1,3-Dichlorobenzene(sim)	12.158	146	57643	1.006	ppbv	99
114) 1,4-Dichlorobenzene(sim)	12.194	146	43162	0.933	ppbv	88
115) sec-Butylbenzene(sim)	12.045	105	88075	0.868	ppbv	94
116) 4-Isopropyltoluene(sim)	12.307	119	115631	0.844	ppbv	100
117) 1,2-Dichlorobenzene(sim)	12.415	146	56544	0.992	ppbv	99
118) n-Butylbenzene(sim)	12.563	91	77166	0.864	ppbv	99
119) 1,2,4-Trichlorobenzene...	13.554	180	14328	0.681	ppbv	99
121) Hexachlorobutadiene(sim)	13.882	225	69406	0.960	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
Data File : 1223_02.D
Acq On : 23 Dec 2020 3:30 pm
Operator :
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 24 08:16:29 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Dec 14 09:27:51 2020
Response via : Initial Calibration

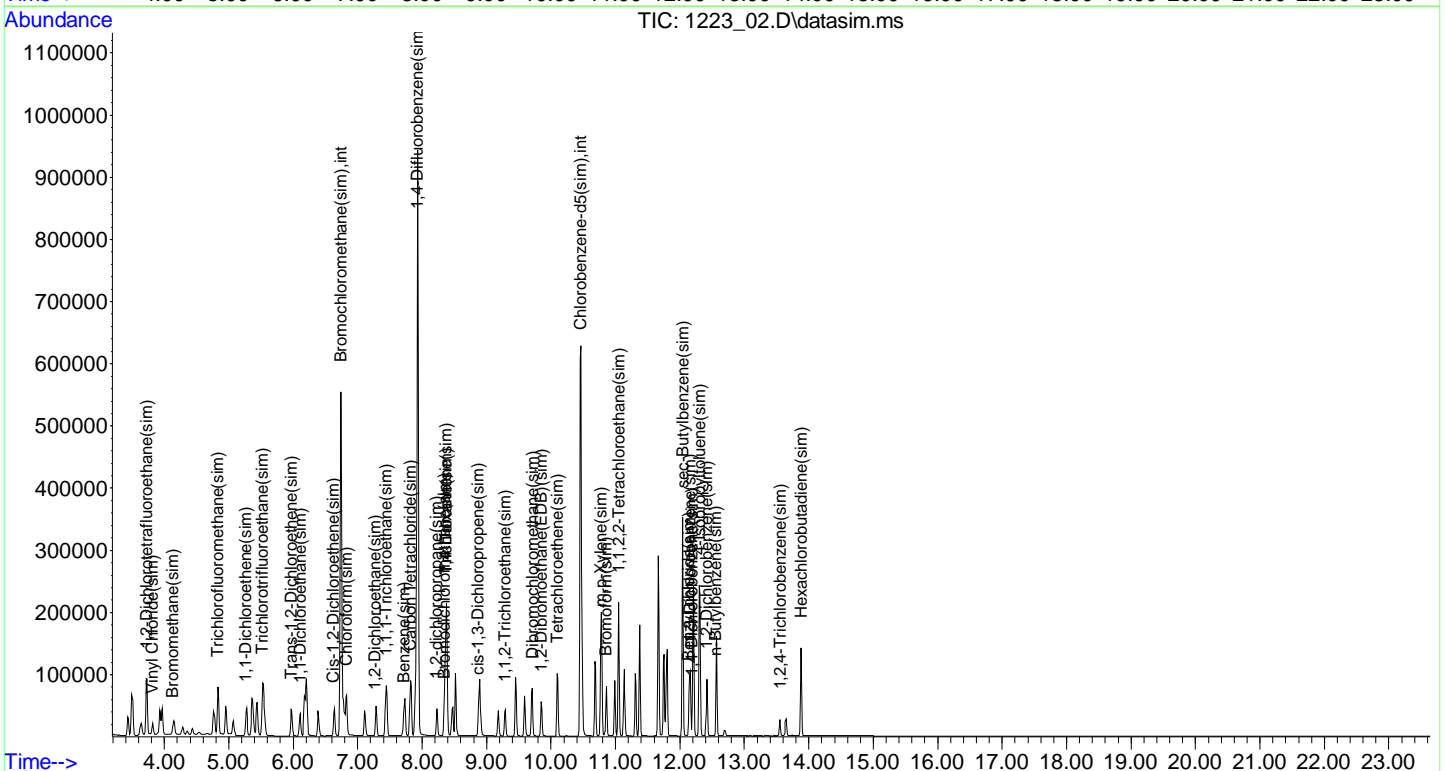
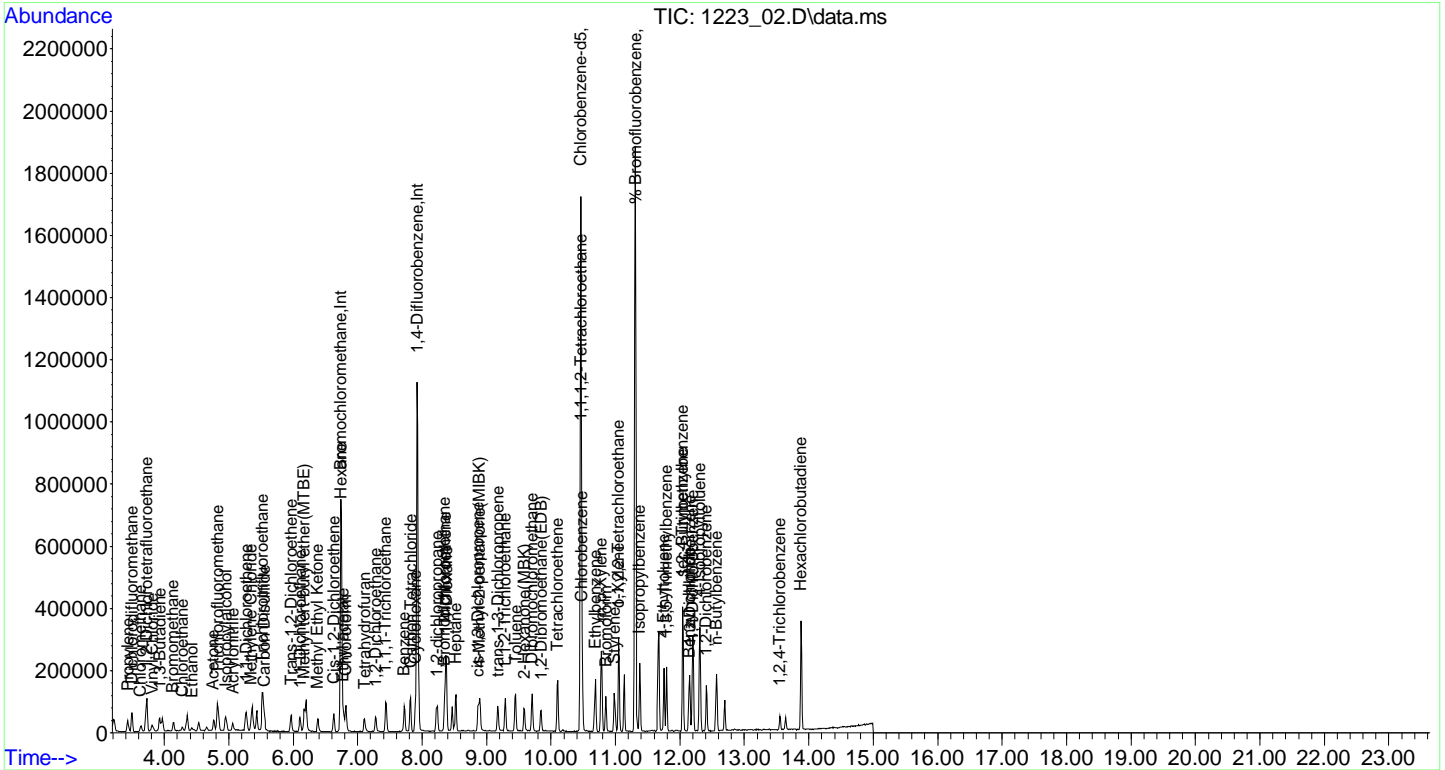
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
Data File : 1223_02.D
Acq On : 23 Dec 2020 3:30 pm
Operator :
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.Oppb cc - 1.Oppb cc
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 24 08:16:29 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Mon Dec 14 09:27:51 2020
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CH37250 LCS

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCH37250	Lab Sample ID:	CH37250 LCS
Canister:	LCS	Lab File ID:	1223_04.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	Date Received: 12/23/20
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	13.0		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	12.8		0.202	0.202	r
74-87-3	Chloromethane	13.4		0.485	0.485	r
76-14-2	1,2-Dichlorotetrafluoroethane	14.0		0.143	0.143	r
75-01-4	Vinyl Chloride	13.3		0.078	0.078	r
106-99-0	1,3-Butadiene	12.4		0.452	0.452	r
74-83-9	Bromomethane	11.5		0.258	0.258	r
75-00-3	Chloroethane	11.3		0.379	0.379	r
64-17-5	Ethanol	3.98		0.531	0.531	r
67-64-1	Acetone	12.4		0.421	0.421	r
75-69-4	Trichlorofluoromethane	13.5		0.178	0.178	r
67-63-0	Isopropylalcohol	6.28		0.407	0.407	r
107-13-1	Acrylonitrile	10.7		0.461	0.461	r
75-35-4	1,1-Dichloroethene	12.0		0.051	0.051	r
75-09-2	Methylene Chloride	10.7		0.864	0.864	r
75-15-0	Carbon Disulfide	9.54		0.321	0.321	r
76-13-1	Trichlorotrifluoroethane	10.7		0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene	10.1		0.252	0.252	r
75-34-3	1,1-Dichloroethane	10.0		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	10.1		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	9.93		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	10.4		0.051	0.051	r
110-54-3	Hexane	9.40		0.284	0.284	r
67-66-3	Chloroform	10.2		0.205	0.205	r
141-78-6	Ethyl acetate	10.6		0.278	0.278	r
109-99-9	Tetrahydrofuran	9.25		0.339	0.339	r
107-06-2	1,2-Dichloroethane	11.6		0.247	0.247	r
71-55-6	1,1,1-Trichloroethane	11.1		0.183	0.183	r
71-43-2	Benzene	9.38		0.313	0.313	r
56-23-5	Carbon Tetrachloride	11.4		0.032	0.032	r
110-82-7	Cyclohexane	10.2		0.291	0.291	r
78-87-5	1,2-dichloropropane	8.99		0.217	0.217	r
75-27-4	Bromodichloromethane	10.6		0.149	0.149	r
79-01-6	Trichloroethene	10.3		0.037	0.037	r
123-91-1	1,4-Dioxane	7.99		0.278	0.278	r
142-82-5	Heptane	10.1		0.244	0.244	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CH37250 LCS

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCH37250 Lab Sample ID: CH37250 LCS

Canister: LCS Lab File ID: 1223_04.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 12/23/20

Purge Volume 200 (cc) Date Analyzed: 12/23/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
10061-01-5	cis-1,3-Dichloropropene	10.3		0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	9.50		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	11.4		0.220	0.220	r
79-00-5	1,1,2-Trichloroethane	9.45		0.183	0.183	r
108-88-3	Toluene	9.91		0.266	0.266	r
124-48-1	Dibromochloromethane	10.7		0.117	0.117	r
591-78-6	2-Hexanone(MBK)	9.06		0.244	0.244	r
106-93-4	1,2-Dibromoethane(EDB)	9.85		0.130	0.130	r
127-18-4	Tetrachloroethene	10.2		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	10.4		0.146	0.146	r
108-90-7	Chlorobenzene	10.0		0.217	0.217	r
100-41-4	Ethylbenzene	9.72		0.230	0.230	r
179601-23-1	m,p-Xylene	20.6		0.230	0.230	r
75-25-2	Bromoform	10.9		0.097	0.097	r
100-42-5	Styrene	10.1		0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane	9.19		0.146	0.146	r
95-47-6	o-Xylene	10.7		0.230	0.230	r
98-82-8	Isopropylbenzene	10.6		0.204	0.204	r
622-96-8	4-Ethyltoluene	11.6		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	11.3		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	11.9		0.204	0.204	r
100-44-7	Benzyl chloride	9.59		0.193	0.193	r
541-73-1	1,3-Dichlorobenzene	11.9		0.166	0.166	r
106-46-7	1,4-Dichlorobenzene	12.0		0.166	0.166	r
135-98-8	sec-Butylbenzene	11.9		0.182	0.182	r
99-87-6	4-Isopropyltoluene	11.7		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene	11.4		0.166	0.166	r
104-51-8	n-Butylbenzene	12.3		0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene	9.16		0.135	0.135	r
87-68-3	Hexachlorobutadiene	10.4		0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_04.D
 Acq On : 23 Dec 2020 4:46 pm
 Operator :
 Client ID : CH37250 LCS
 Lab ID : CH37250 LCS
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 24 08:16:36 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.736	130	208417	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.934	114	802852	10.000	ng	0.01
54) Chlorobenzene-d5	10.461	82	419930	10.000	ng	0.00
81) Bromchloromethane(sim)	6.741	130	238517	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.934	114	803191	10.000	ng	0.01
106) Chlorobenzene-d5(sim)	10.461	82	419930	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromfluorobenzene	11.312	95	549287	10.868	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	108.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.414	41	261852	13.003	ppbv#	79
3) Dichlorodifluoromethane	3.479	85	705090	12.821	ppbv	97
4) Chloromethane	3.619	50	290019	13.440	ppbv	96
5) 1,2-Dichlorotetrafluor...	3.705	85	734248	13.992	ppbv	95
6) Vinyl Chloride	3.802	62	271264	13.294	ppbv	81
7) 1,3-Butadiene	3.910	54	217394	12.379	ppbv#	74
8) Bromomethane	4.126	94	206810	11.509	ppbv	87
9) Chloroethane	4.266	64	110472	11.295	ppbv	83
11) Ethanol	4.406	45	41685	3.976	ppbv#	39
12) Acetone	4.740	43	462066	12.419	ppbv#	75
13) Trichlorofluoromethane	4.816	101	756752	13.494	ppbv	98
14) Isopropylalcohol	4.923	45	304158	6.278	ppbv	100
15) Acrylonitrile	5.053	53	179455	10.679	ppbv#	84
16) 1,1-Dichloroethene	5.262	61	418274	11.952	ppbv#	78
17) Methylene Chloride	5.348	49	306438	10.719	ppbv	88
20) Carbon Disulfide	5.546	76	526874	9.540	ppbv	99
21) Trichlorotrifluoroethane	5.520	101	470129	10.684	ppbv	91
22) Trans-1,2-Dichloroethene	5.963	61	321256	10.060	ppbv#	86
23) 1,1-Dichloroethane	6.097	63	376399	10.036	ppbv	94
24) Methyl tert-butyl ethe...	6.144	73	624318	10.079	ppbv#	90
26) Methyl Ethyl Ketone	6.365	43	584301	9.933	ppbv#	93
27) Cis-1,2-Dichloroethene	6.631	61	318547	10.346	ppbv	95
28) Hexane	6.746	57	337965	9.395	ppbv	91
29) Chloroform	6.819	83	493249	10.237	ppbv	96
30) Ethyl acetate	6.767	61	75667	10.553	ppbv#	47
31) Tetrahydrofuran	7.079	42	285447	9.250	ppbv	98
32) 1,2-Dichloroethane	7.277	62	393115	11.555	ppbv	99
33) 1,1,1-Trichloroethane	7.433	97	574270	11.046	ppbv	97
34) Benzene	7.722	78	589550	9.379	ppbv	96
35) Carbon Tetrachloride	7.822	117	644342	11.371	ppbv	97
36) Cyclohexane	7.889	41	243551	10.152	ppbv#	49
38) 1,2-dichloropropane	8.234	63	222074	8.991	ppbv#	85
39) Bromdichloromethane	8.346	83	578096	10.618	ppbv	96
40) Trichloroethene	8.368	130	317037	10.296	ppbv	93
42) 1,4-Dioxane	8.368	88	111639	7.987	ppbv#	89
44) Heptane	8.524	43	498719	10.064	ppbv#	94
45) cis-1,3-Dichloropropene	8.869	75	403895	10.317	ppbv	92
46) 4-Methyl-2-pentanone(M..	8.880	43	622021	9.500	ppbv#	94
47) trans-1,3-Dichloropropene	9.172	75	432868	11.355	ppbv#	83
48) 1,1,2-Trichloroethane	9.289	97	265483	9.448	ppbv	94
49) Toluene	9.454	91	797959	9.907	ppbv	97
50) Dibromchloromethane	9.706	129	583245	10.695	ppbv	96
51) 2-Hexanone (MBK)	9.570	43	520602	9.059	ppbv#	93
52) 1,2-Dibromethane (EDB)	9.852	107	427348	9.853	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_04.D
 Acq On : 23 Dec 2020 4:46 pm
 Operator :
 Client ID : CH37250 LCS
 Lab ID : CH37250 LCS
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 24 08:16:36 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
53) Tetrachloroethene	10.104	166	430331	10.174	ppbv	99
55) 1,1,1,2-Tetrachloroethane	10.471	131	418061	10.416	ppbv	96
56) Chlorobenzene	10.482	112	670771	10.025	ppbv#	54
57) Ethylbenzene	10.687	91	1113807	9.716	ppbv	98
58) m p-Xylene	10.779	91	1781014	20.627	ppbv	97
59) Bromoform	10.850	173	583427	10.886	ppbv	99
60) Styrene	10.984	104	657894	10.105	ppbv	96
61) 1,1,2,2-Tetrachloroethane	11.045	83	560240	9.190	ppbv	94
62) o-Xylene	11.045	91	971916	10.659	ppbv	94
65) Isopropylbenzene	11.373	105	1330460	10.640	ppbv	98
67) 4-Ethyltoluene	11.753	105	1415348	11.608	ppbv	100
68) 1,3,5-Trimethylbenzene	11.794	105	1178108	11.339	ppbv	97
69) 1,2,4-Trimethylbenzene	12.040	105	1239516	11.912	ppbv	97
71) Benzyl chloride	12.143	91	700299	9.590	ppbv	99
72) 1,3-Dichlorobenzene	12.153	146	725654	11.913	ppbv	94
73) 1,4-Dichlorobenzene	12.194	146	662336	12.015	ppbv	89
74) sec-Butylbenzene	12.040	105	1239516	11.912	ppbv	96
75) 4-Isopropyltoluene	12.297	119	1660610	11.672	ppbv	99
76) 1,2-Dichlorobenzene	12.409	146	685150	11.364	ppbv	89
77) n-Butylbenzene	12.563	91	1298382	12.335	ppbv	98
78) 1,2,4-Trichlorobenzene	13.548	180	287959	9.157	ppbv	96
80) Hexachlorobutadiene	13.877	225	608189	10.354	ppbv	97
82) 1,2-Dichlorotetrafluor...	3.705	85	734093	12.422	ppbv	95
83) Vinyl Chloride(sim)	3.797	62	301171	12.514	ppbv	95
84) Bromomethane(sim)	4.126	94	206810	9.856	ppbv#	81
85) Trichlorofluoromethane...	4.821	101	812053	12.803	ppbv#	100
86) 1,2-Dichloroethane(sim)	7.277	62	393466	10.919	ppbv	99
87) 1,1,1-Trichloroethane(...)	7.439	97	640479	10.868	ppbv#	99
88) Benzene(sim)	7.722	78	589533	8.401	ppbv	96
89) Carbon Tetrachloride(sim)	7.817	117	716459	11.131	ppbv	100
90) 1,1-Dichloroethene(sim)	5.262	61	418274	10.576	ppbv#	78
91) Trichlorotrifluoroetha...	5.517	101	506089	9.926	ppbv#	100
92) Trans-1,2-Dichloroethe...	5.963	61	321256	9.093	ppbv#	86
93) 1,1-Dichloroethane(sim)	6.102	63	433633	9.595	ppbv	99
94) Cis-1,2-Dichloroethene...	6.631	61	318547	9.181	ppbv	95
95) Chloroform(sim)	6.824	83	532099	9.874	ppbv	98
97) 1,2-dichloropropane(sim)	8.229	63	259692	8.584	ppbv#	84
98) Bromdichloromethane(sim)	8.346	83	578096	9.725	ppbv	95
99) Trichloroethene(sim)	8.373	130	370562	9.739	ppbv	98
100) 1,4-Dioxane(sim)	8.368	88	111639	7.405	ppbv#	89
101) cis-1,3-Dichloropropen...	8.875	75	454928	9.933	ppbv	99
102) 1,1,2-Trichloroethane(...)	9.289	97	264918	8.739	ppbv	94
103) Dibromchloromethane(sim)	9.712	129	658869	10.558	ppbv	99
104) 1,2-Dibromoethane(EDB)...	9.852	107	427348	9.575	ppbv	99
105) Tetrachloroethene(sim)	10.100	166	529670	10.185	ppbv	98
107) Bromoform(sim)	10.856	173	704194	10.903	ppbv	100
108) m p-Xylene(sim)	10.779	91	1782832	19.053	ppbv	97
109) 1,1,2,2-Tetrachloroeth...	11.051	83	613376	8.425	ppbv	100
112) Benzyl chloride(sim)	12.143	91	700299	10.073	ppbv	99
113) 1,3-Dichlorobenzene(sim)	12.158	146	846127	12.670	ppbv	99
114) 1,4-Dichlorobenzene(sim)	12.194	146	662704	12.290	ppbv	89
115) sec-Butylbenzene(sim)	12.046	105	1393399	11.788	ppbv	97
116) 4-Isopropyltoluene(sim)	12.297	119	1660846	10.406	ppbv	99
117) 1,2-Dichlorobenzene(sim)	12.415	146	795601	11.978	ppbv	99
118) n-Butylbenzene(sim)	12.563	91	1298382	12.483	ppbv	98
119) 1,2,4-Trichlorobenzene...	13.554	180	346863	14.160	ppbv	99
121) Hexachlorobutadiene(sim)	13.882	225	753548	8.947	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
Data File : 1223_04.D
Acq On : 23 Dec 2020 4:46 pm
Operator :
Client ID : CH37250 LCS
Lab ID : CH37250 LCS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 24 08:16:36 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Dec 14 09:27:51 2020
Response via : Initial Calibration

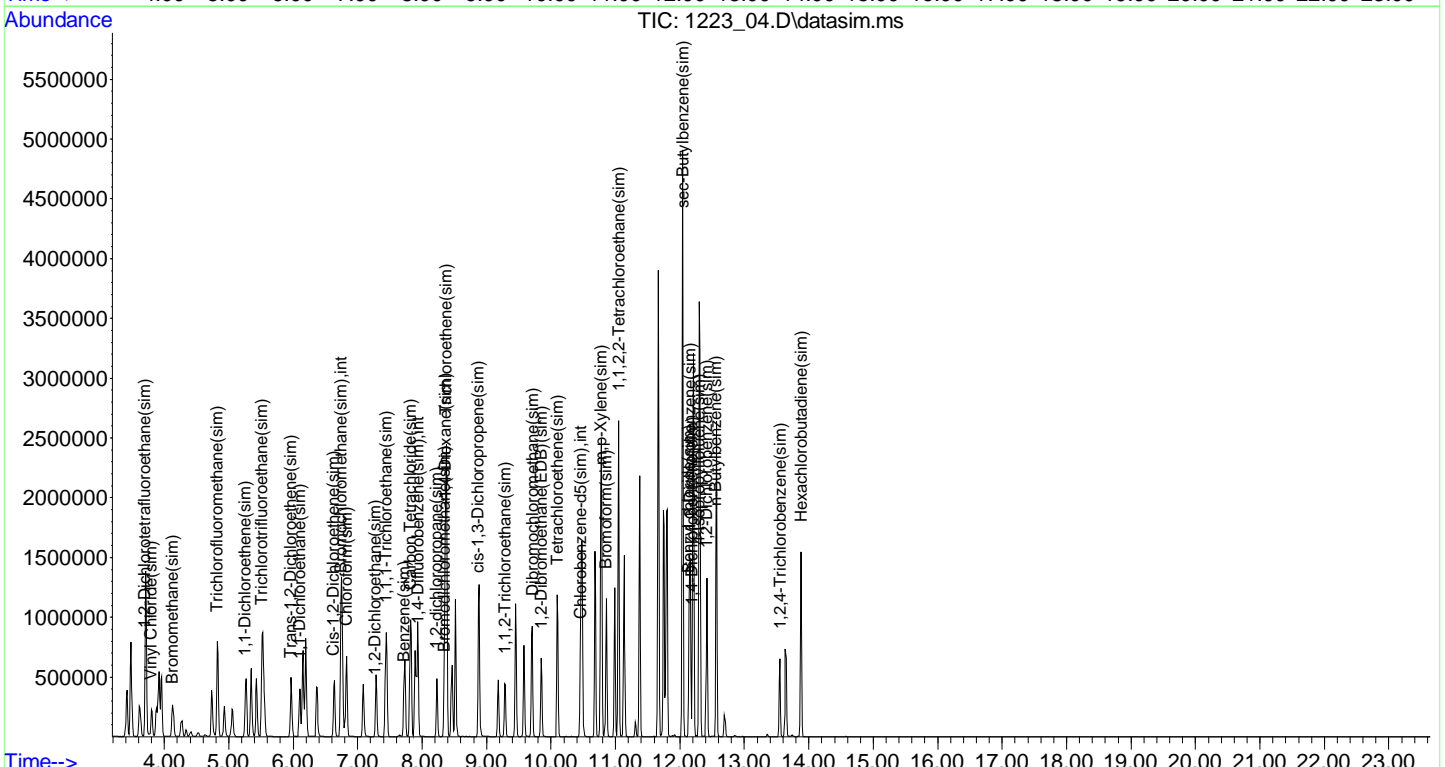
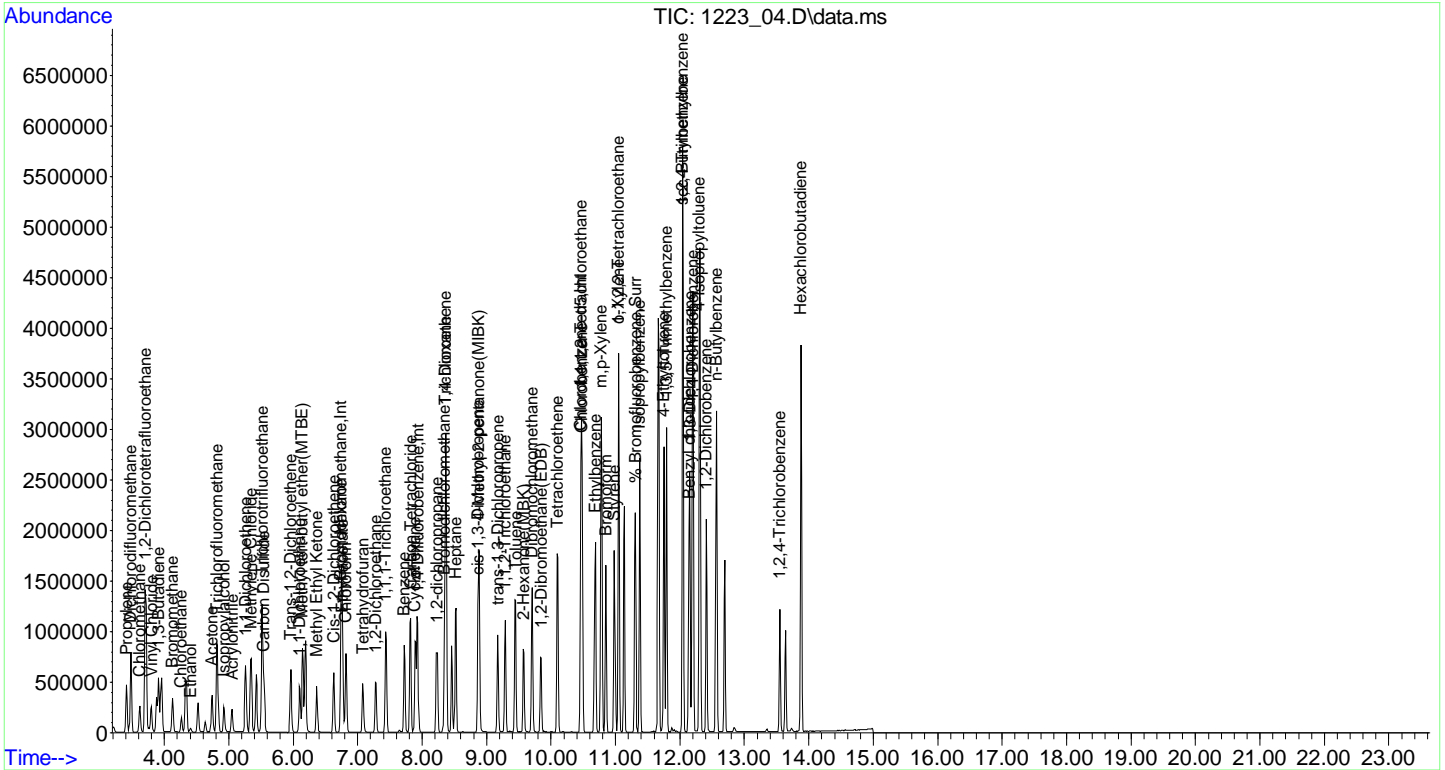
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_04.D
 Acq On : 23 Dec 2020 4:46 pm
 Operator :
 Client ID : CH37250 LCS
 Lab ID : CH37250 LCS
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 24 08:16:36 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CH37250 BLANK

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCH37250	Lab Sample ID:	CH37250 BL
Canister:	BL	Lab File ID:	1223_06.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	Date Received: 12/23/20
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.580	U	0.580	0.580	r
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
74-87-3	Chloromethane	0.480	U	0.480	0.480	r
106-99-0	1,3-Butadiene	0.450	U	0.450	0.450	r
75-00-3	Chloroethane	0.380	U	0.380	0.380	r
64-17-5	Ethanol	0.530	U	0.530	0.530	r
67-64-1	Acetone	0.420	U	0.420	0.420	r
67-63-0	Isopropylalcohol	0.410	U	0.410	0.410	r
107-13-1	Acrylonitrile	0.460	U	0.460	0.460	r
75-09-2	Methylene Chloride	0.860	U	0.860	0.860	r
75-15-0	Carbon Disulfide	0.320	U	0.320	0.320	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.280	U	0.280	0.280	r
78-93-3	Methyl Ethyl Ketone	0.340	U	0.340	0.340	r
110-54-3	Hexane	0.280	U	0.280	0.280	r
141-78-6	Ethyl acetate	0.280	U	0.280	0.280	r
109-99-9	Tetrahydrofuran	0.340	U	0.340	0.340	r
110-82-7	Cyclohexane	0.290	U	0.290	0.290	r
142-82-5	Heptane	0.240	U	0.240	0.240	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.240	U	0.240	0.240	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.270	U	0.270	0.270	r
591-78-6	2-Hexanone(MBK)	0.240	U	0.240	0.240	r
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	0.150	r
108-90-7	Chlorobenzene	0.220	U	0.220	0.220	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.230	U	0.230	0.230	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.200	U	0.200	0.200	r
622-96-8	4-Ethyltoluene	0.200	U	0.200	0.200	r
108-67-8	1,3,5-Trimethylbenzene	0.200	U	0.200	0.200	r
95-63-6	1,2,4-Trimethylbenzene	0.200	U	0.200	0.200	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.140	U	0.140	0.140	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.260	U	0.260	0.260	r
75-69-4	Trichlorofluoromethane(sim)	0.180	U	0.180	0.180	r
107-06-2	1,2-Dichloroethane(sim)	0.250	U	0.250	0.250	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CH37250 BLANK

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCH37250	Lab Sample ID:	CH37250 BL
Canister:	BL	Lab File ID:	1223_06.D
Instrument:	CHEM20	Column:	RTX-1 60M
Date Received:	12/23/20		
Purge Volume	200	(cc)	12/23/20
Date Analyzed:	12/23/20		
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
71-55-6	1,1,1-Trichloroethane(sim)	0.180	U	0.180	0.180	r
71-43-2	Benzene(sim)	0.310	U	0.310	0.310	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
76-13-1	Trichlorotrifluoroethane(sim)	0.130	U	0.130	0.130	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.250	U	0.250	0.250	r
75-34-3	1,1-Dichloroethane(sim)	0.250	U	0.250	0.250	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
67-66-3	Chloroform(sim)	0.200	U	0.200	0.200	r
78-87-5	1,2-dichloropropane(sim)	0.220	U	0.220	0.220	r
75-27-4	Bromodichloromethane(sim)	0.150	U	0.150	0.150	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.280	U	0.280	0.280	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.180	U	0.180	0.180	r
124-48-1	Dibromochloromethane(sim)	0.120	U	0.120	0.120	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.150	U	0.150	0.150	r
100-44-7	Benzyl chloride(sim)	0.190	U	0.190	0.190	r
541-73-1	1,3-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
106-46-7	1,4-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
135-98-8	sec-Butylbenzene(sim)	0.180	U	0.180	0.180	r
99-87-6	4-Isopropyltoluene(sim)	0.180	U	0.180	0.180	r
95-50-1	1,2-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
104-51-8	n-Butylbenzene(sim)	0.180	U	0.180	0.180	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.130	U	0.130	0.130	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_06.D
 Acq On : 23 Dec 2020 5:55 pm
 Operator :
 Client ID : CH37250 BLANK
 Lab ID : CH37250 BLANK
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 24 08:16:44 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

Compound	R.T.	QI	Ion	Response	Conc	Units	Dev(Mn)
Internal Standards							
1) Bromchloromethane	6.736	130		206457	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.922	114		774297	10.000	ng	0.00
54) Chlorobenzene-d5	10.461	82		370530	10.000	ng	0.00
81) Bromchloromethane(sim)	6.741	130		242798	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.922	114		773041	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.461	82		370530	10.000	ng	0.00
System Monitoring Compounds							
63) % Bromfluorobenzene	11.312	95		434082	9.734	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.30%	

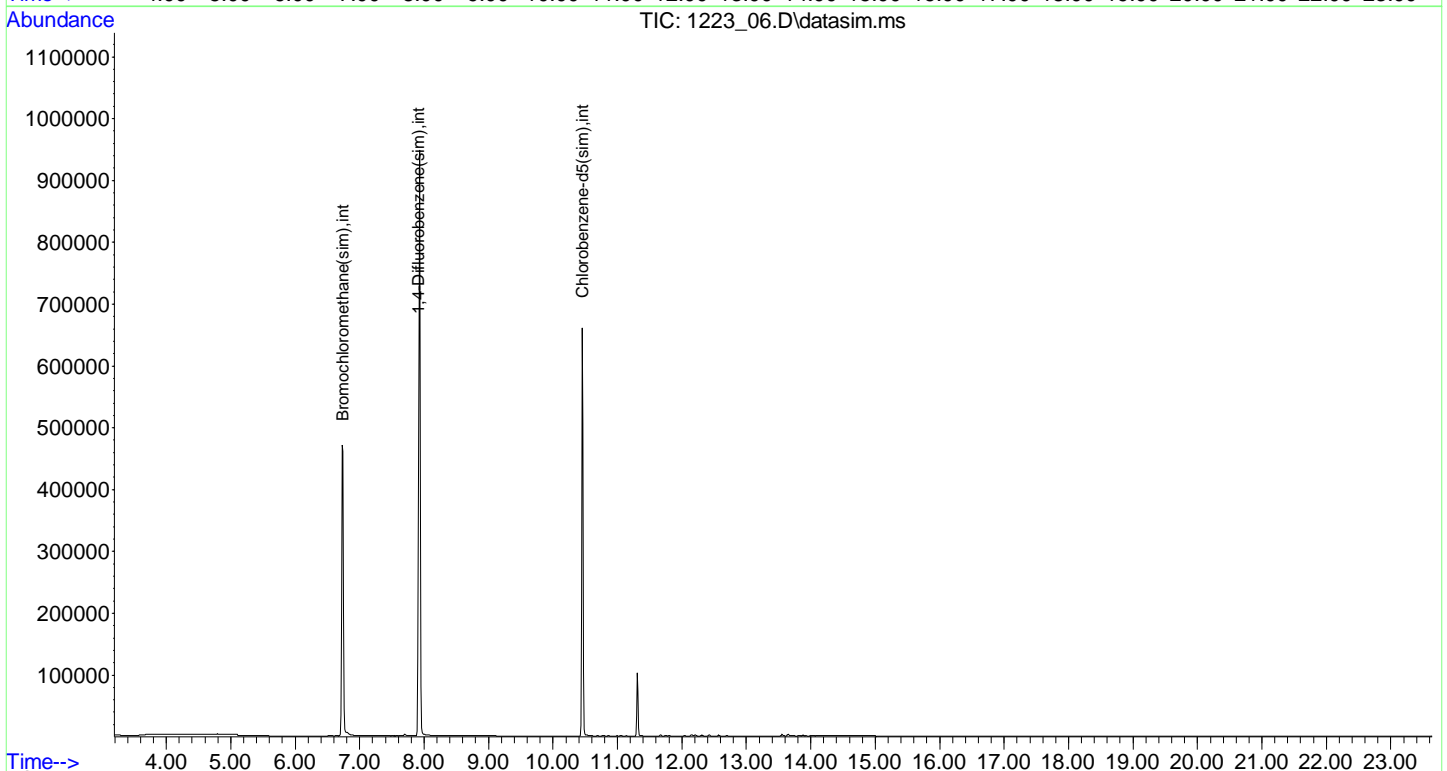
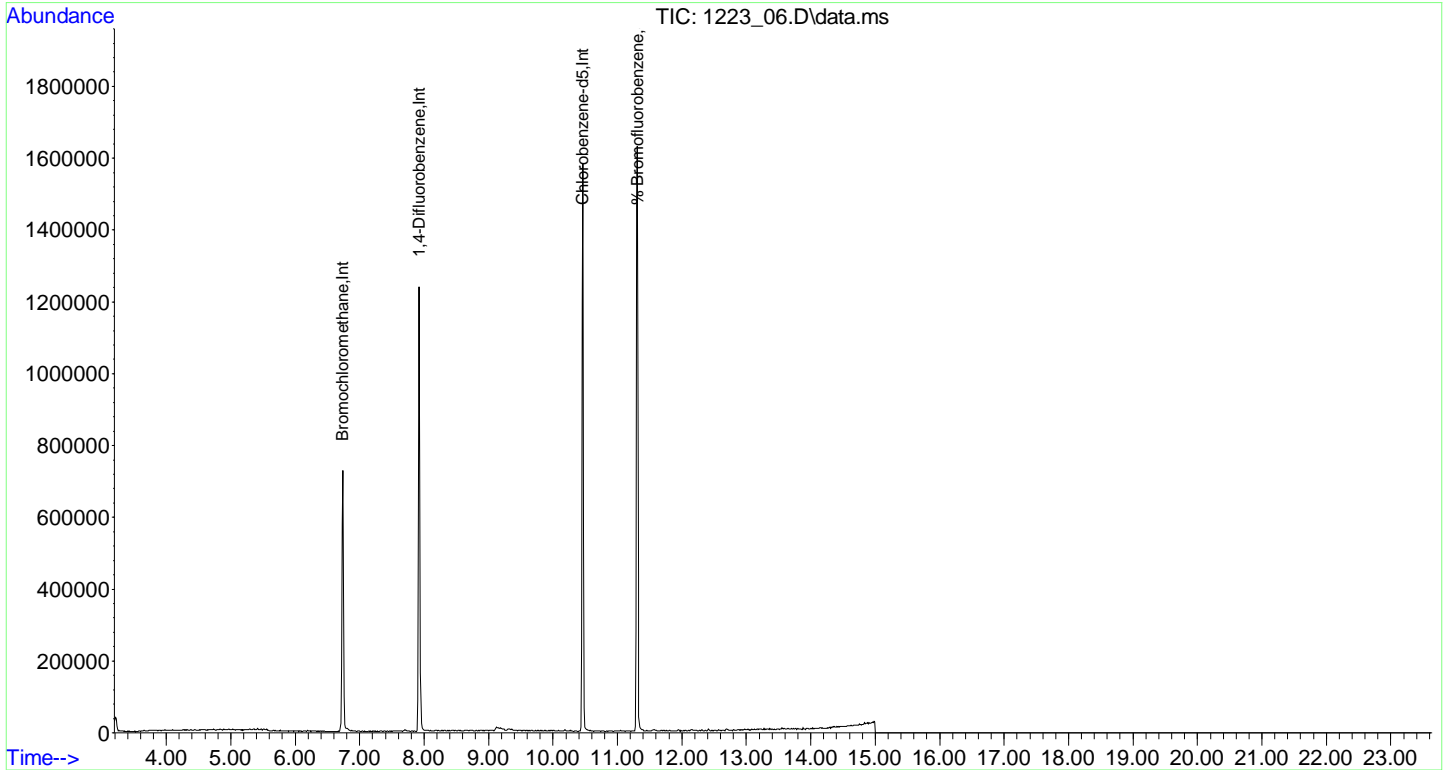
Target Compounds Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
Data File : 1223_06.D
Acq On : 23 Dec 2020 5:55 pm
Operator :
Client ID : CH37250 BLANK
Lab ID : CH37250 BLANK
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 24 08:16:44 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Mon Dec 14 09:27:51 2020
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-1 DUP

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCH37250	Lab Sample ID:	CH37250 DUP
Canister:	17160	Lab File ID:	1223_09.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	Date Received: 12/23/20
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.378		0.202	0.202	r
74-87-3	Chloromethane	0.538		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	374	S	0.531	0.531	r
67-64-1	Acetone	11.2	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.308		0.178	0.178	r
67-63-0	Isopropylalcohol	4.44	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.864	U	0.864	0.864	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	1.45		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-1 DUP

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCH37250</u>	Lab Sample ID:	<u>CH37250 DUP</u>
Canister:	<u>17160</u>	Lab File ID:	<u>1223_09.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>12/23/20</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>12/23/20</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.085		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.070		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.278		0.230	0.230	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_09.D
 Acq On : 23 Dec 2020 8:45 pm
 Operator :
 Client ID : IA-1 DUP
 Lab ID : CH37250 DUP
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 24 08:26:48 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration

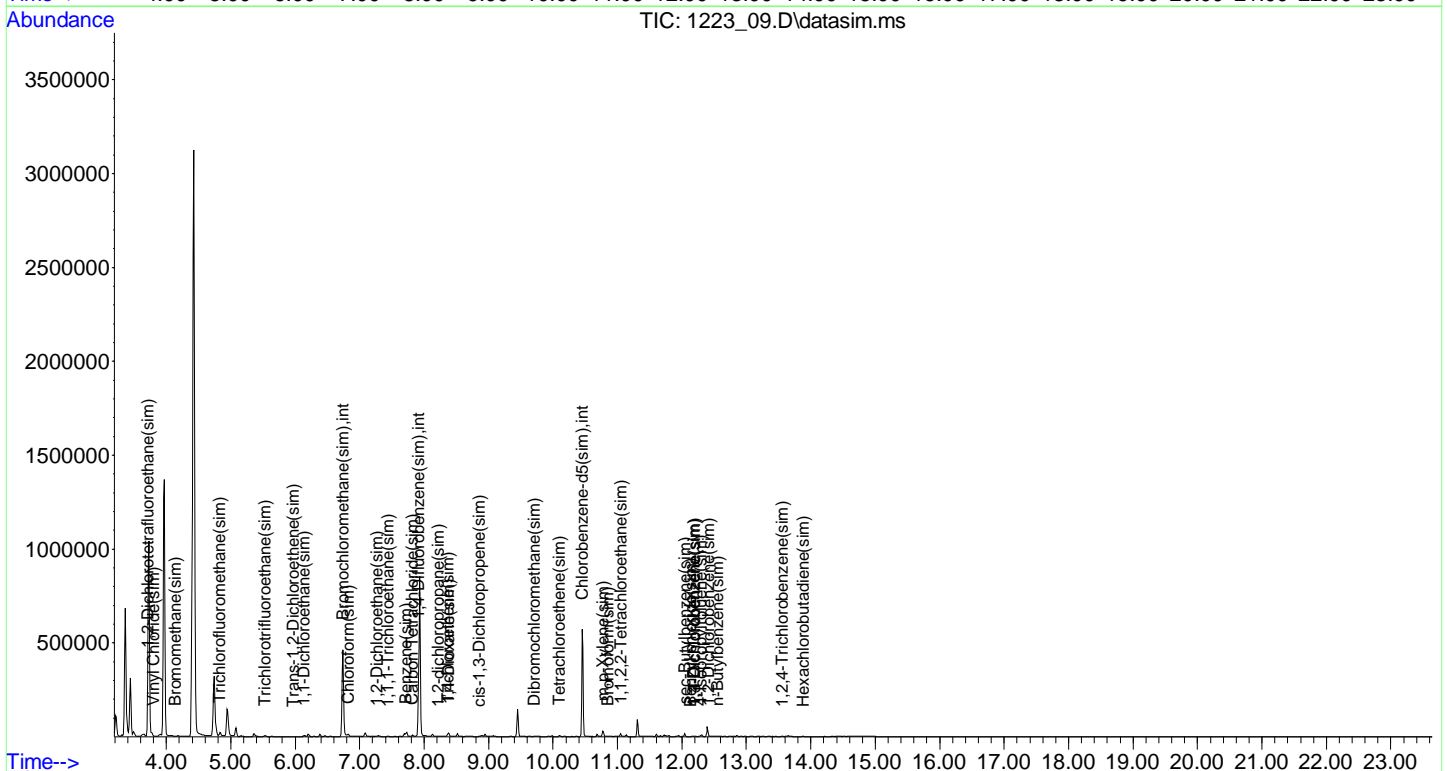
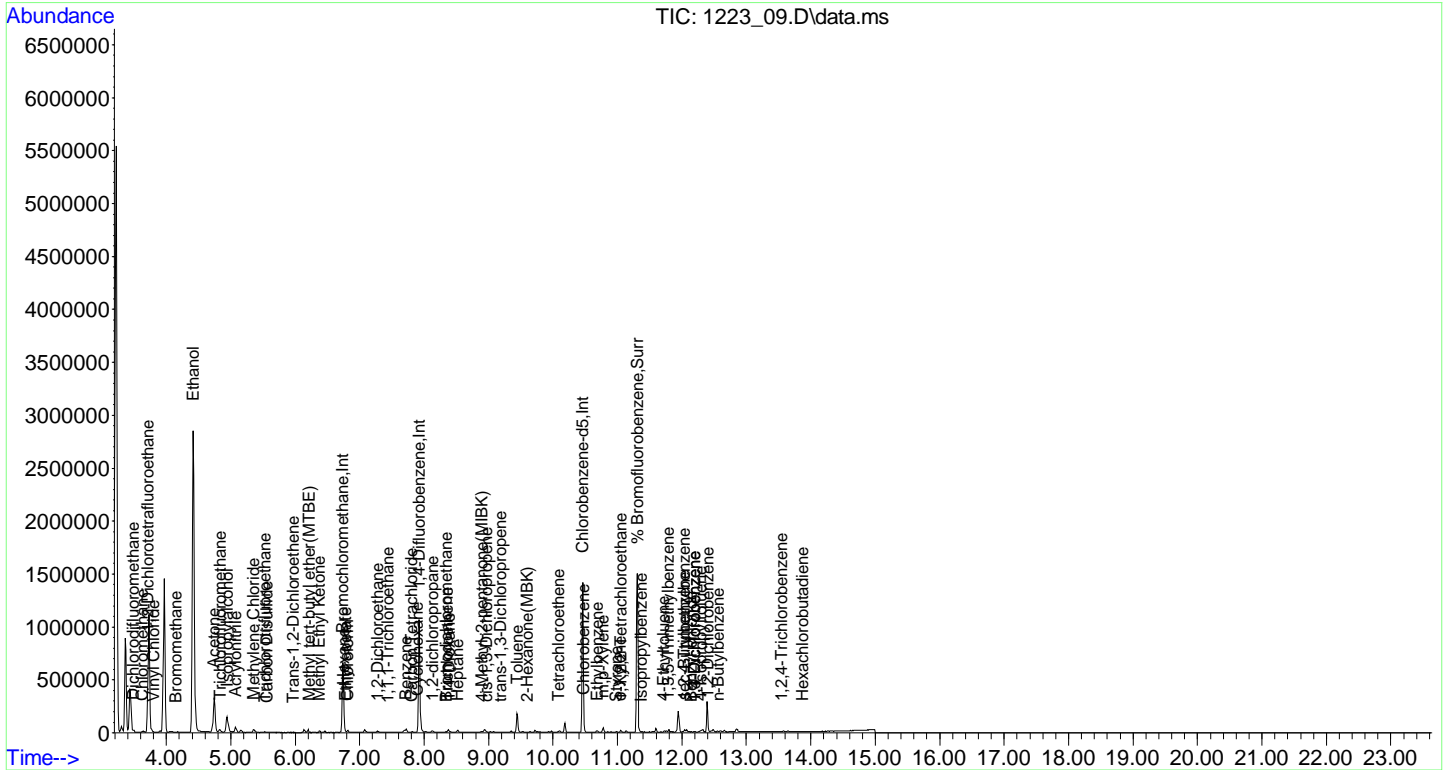
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.735	130	188598	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.922	114	681905	10.000	ng	0.00
54) Chlorobenzene-d5	10.461	82	319530	10.000	ng	0.00
81) Bromchloromethane(sim)	6.741	130	213328	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.922	114	682055	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.461	82	319530	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromfluorobenzene	11.312	95	379526	9.869	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.70%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.490	85	18786	0.377	ppbv	95
4) Chloromethane	3.630	50	10498	0.538	ppbv	97
11) Ethanol	4.417	45	3546516	373.817	ppbv#	39
12) Acetone	4.740	43	375938	11.166	ppbv#	71
13) Trichlorofluoromethane	4.837	101	15612	0.308	ppbv	98
14) Isopropylalcohol	4.945	45	194502	4.437	ppbv	98
17) Methylene Chloride	5.356	49	11864	0.459	ppbv#	85
26) Methyl Ethyl Ketone	6.380	43	17797	0.334	ppbv#	92
29) Chloroform	6.819	83	8987	0.206	ppbv	94
34) Benzene	7.722	78	17777	0.313	ppbv	95
35) Carbon Tetrachloride	7.811	117	4416	0.086	ppbv	95
49) Toluene	9.444	91	99180	1.450	ppbv	99
53) Tetrachloroethene	10.094	166	2690	0.075	ppbv	97
58) m p-Xylene	10.779	91	19815	0.302	ppbv	98
85] Trichlorofluoromethane...	4.832	101	16931	0.298	ppbv#	99
89] Carbon Tetrachloride(sim)	7.816	117	4878	0.085	ppbv	98
105] Tetrachloroethene(sim)	10.100	166	3091	0.070	ppbv	96
108] m p-Xylene(sim)	10.779	91	19812	0.278	ppbv	98

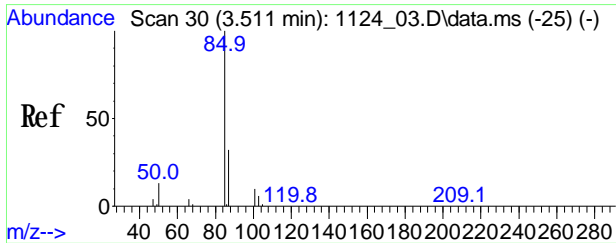
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\12DEC\23\
 Data File : 1223_09.D
 Acq On : 23 Dec 2020 8:45 pm
 Operator :
 Client ID : IA-1 DUP
 Lab ID : CH37250 DUP
 ALS Vial : 9 Sample Multiplier: 1

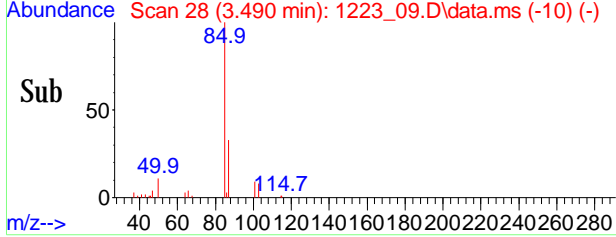
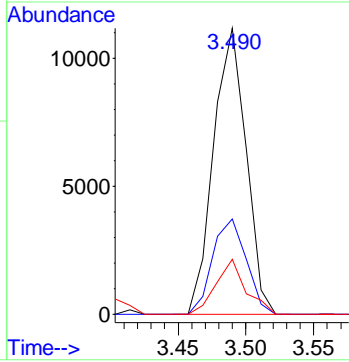
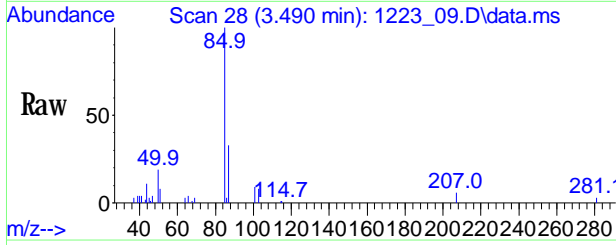
Quant Time: Dec 24 08:26:48 2020
 Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_1211.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Dec 14 09:27:51 2020
 Response via : Initial Calibration





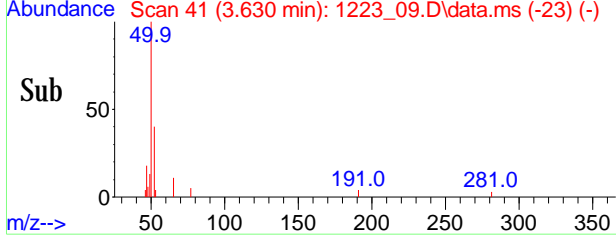
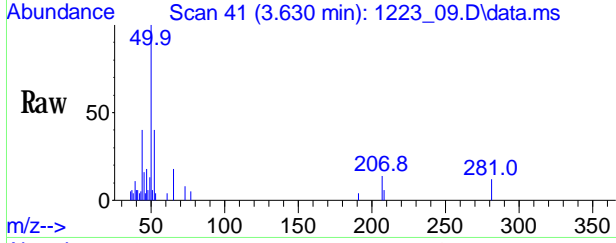
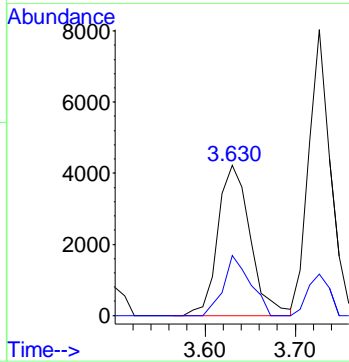
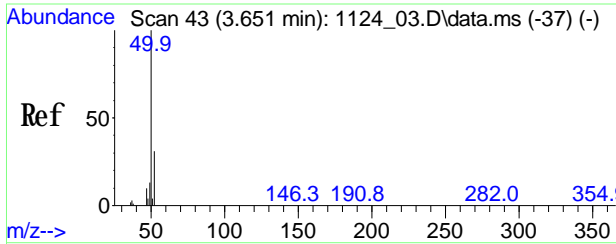
#3
 Dichlorodifluoromethane
 Conc: 8S 0.377 ppby
 RT: 3.490 min Scan# 28
 Delta R.T. -0.011 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

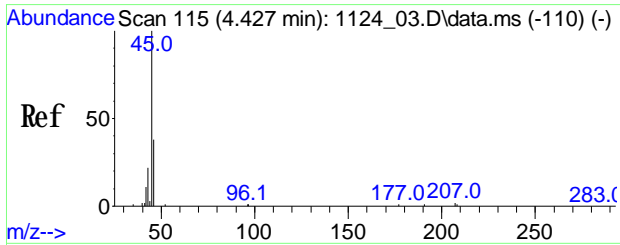
Tgt Ion	Ratio	Resp	Upper
85	100	18786	
87	34.5	25.0	37.6
50	17.5	13.1	19.7



#4
 Chloromethane
 Conc: 8S 0.538 ppby
 RT: 3.630 min Scan# 41
 Delta R.T. -0.011 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

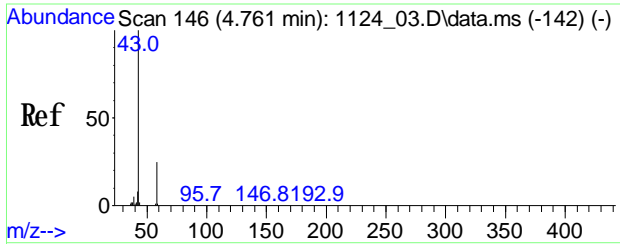
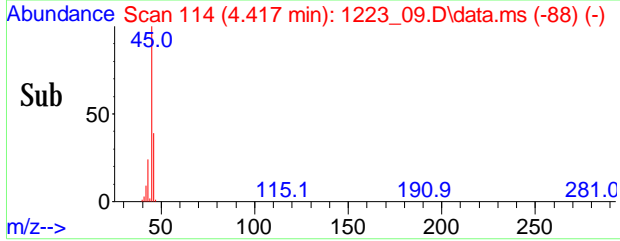
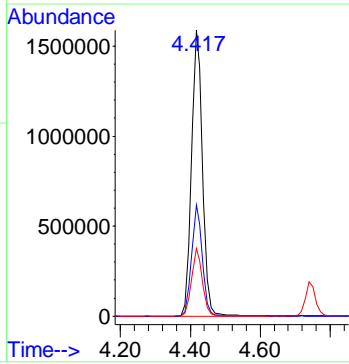
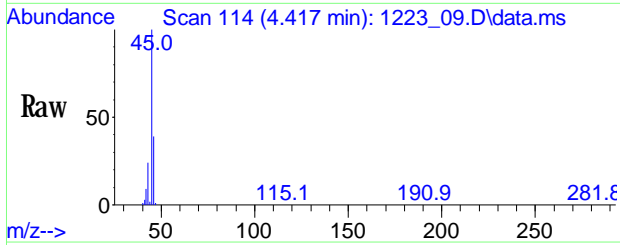
Tgt Ion	Ratio	Resp	Upper
50	100	10498	
52	33.0	14.7	54.7





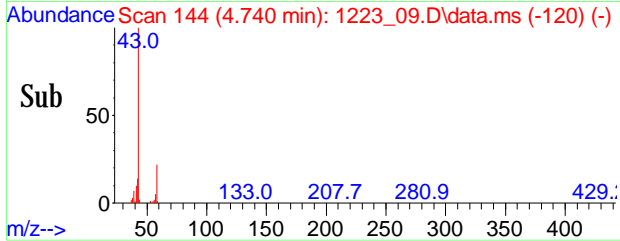
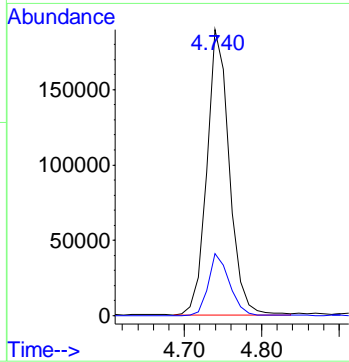
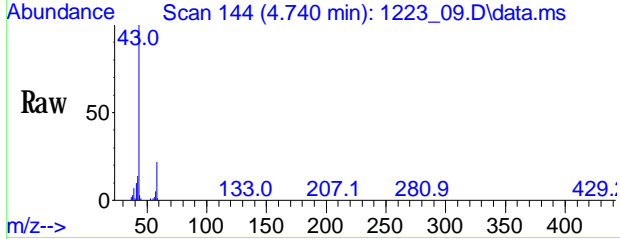
#11
 Ethanol
 Conc: 85 373.817 ppbv
 RT: 4.417 min Scan# 114
 Delta R.T. -0.022 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

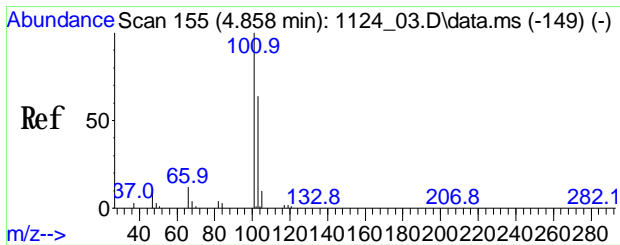
Tgt Ion	Ratio	Lower	Upper
45	100		
46	38.0	28.8	43.2
43	23.1	85.8	128.6#



#12
 Acetone
 Conc: 85 11.166 ppbv
 RT: 4.740 min Scan# 144
 Delta R.T. -0.043 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

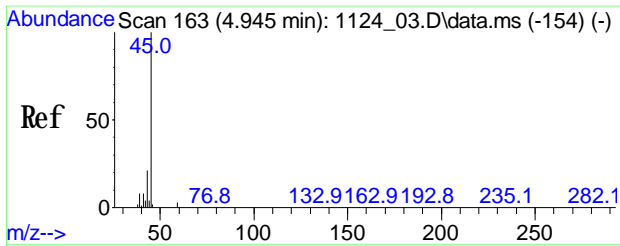
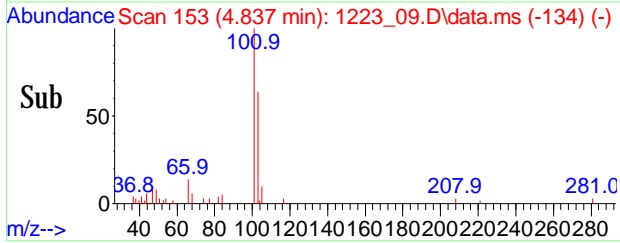
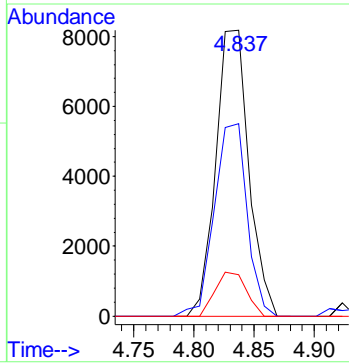
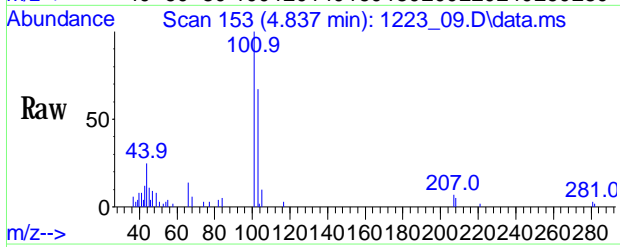
Tgt Ion	Ratio	Lower	Upper
43	100		
58	20.5	30.2	45.4#





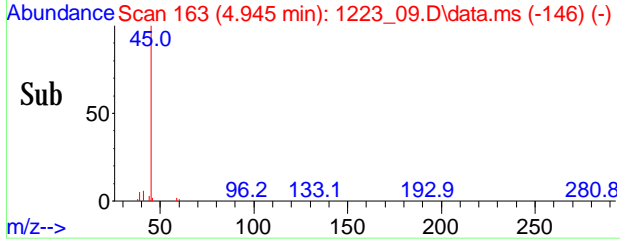
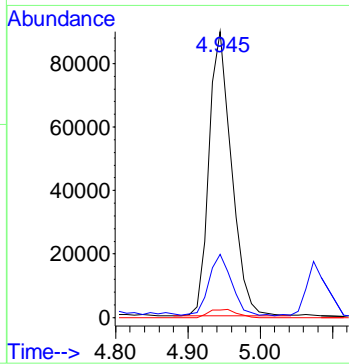
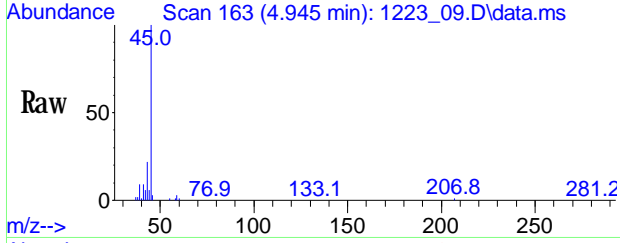
#13
 Trichlorofluoromethane
 Conc: 8S 0.308 ppbv
 RT: 4.837 min Scan# 153
 Delta R.T. -0.000 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

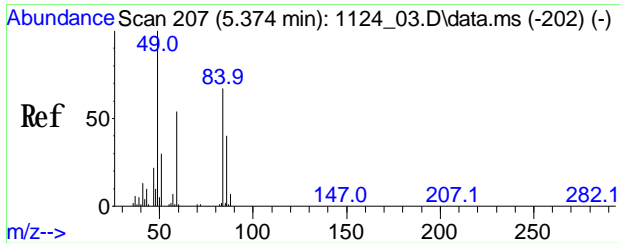
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	15612		
103	66.4	52.1	78.1	
66	14.4	11.0	16.4	



#14
 Isopropylalcohol
 Conc: 8S 4.437 ppbv
 RT: 4.945 min Scan# 163
 Delta R.T. -0.022 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

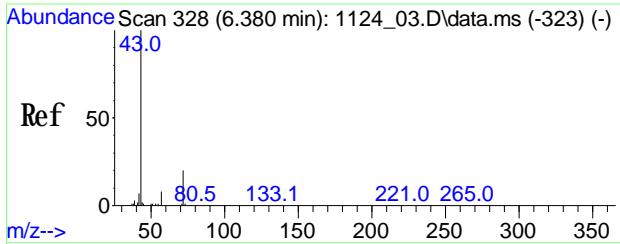
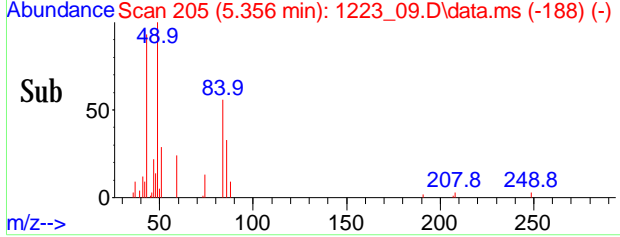
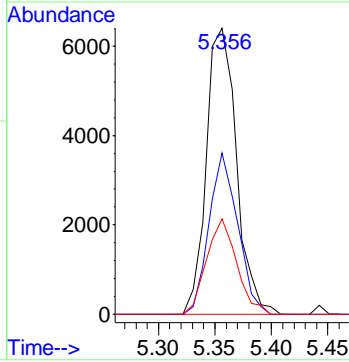
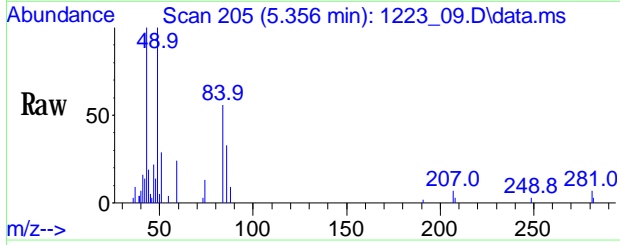
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	194502		
43	22.1	16.9	25.3	
59	3.5	2.6	3.8	





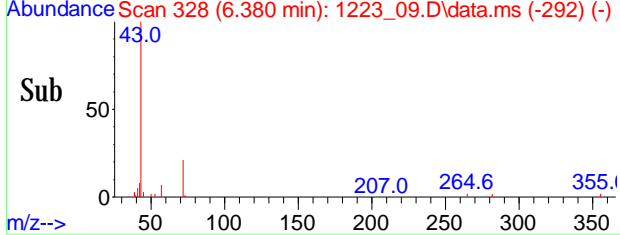
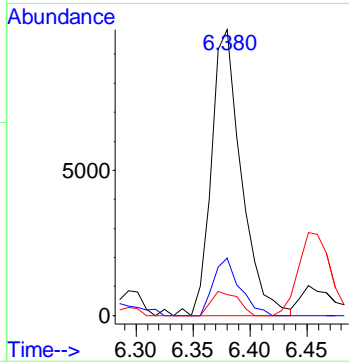
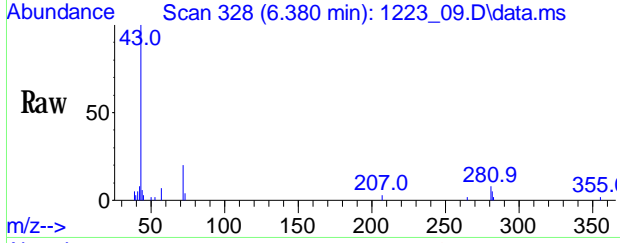
#17
Methylene Chloride
 Conc: 8S 0.459 ppbv
 RT: 5.356 min Scan# 205
 Delta R.T. -0.000 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

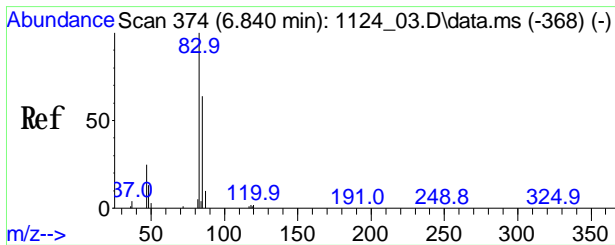
Tgt Ion	Ratio	Resp	Lower	Upper
49	100	11864		
84	53.4	53.6	80.4#	
86	33.3	32.3	48.5	



#26
Methyl Ethyl Ketone
 Conc: 8S 0.334 ppbv
 RT: 6.380 min Scan# 328
 Delta R.T. -0.016 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

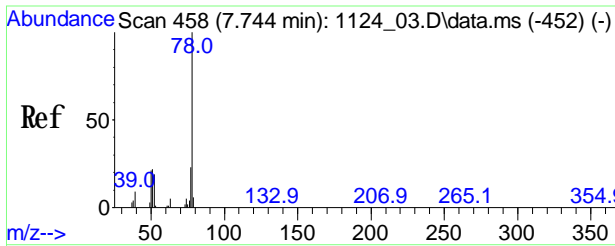
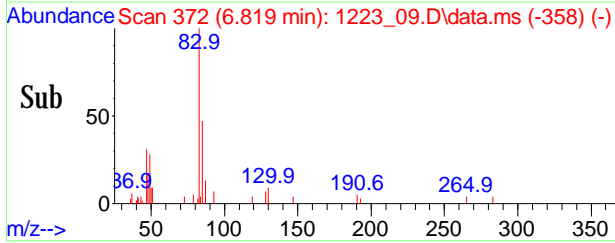
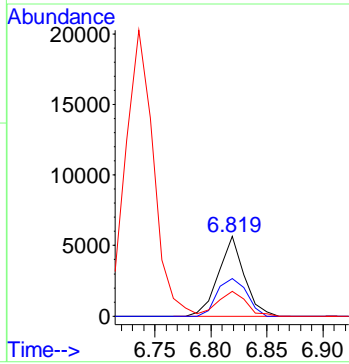
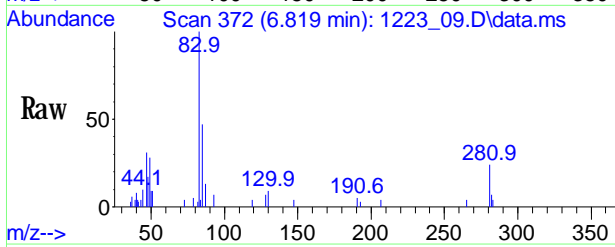
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	17797		
72	17.6	11.0	16.4#	
57	7.6	7.4	11.0	





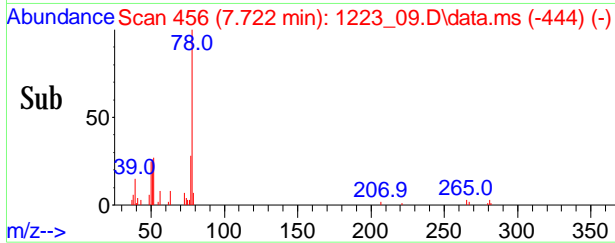
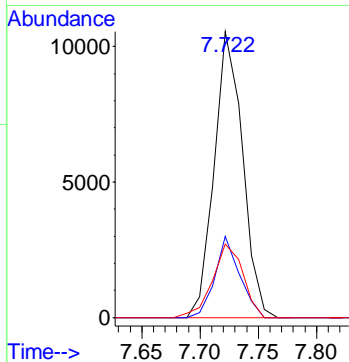
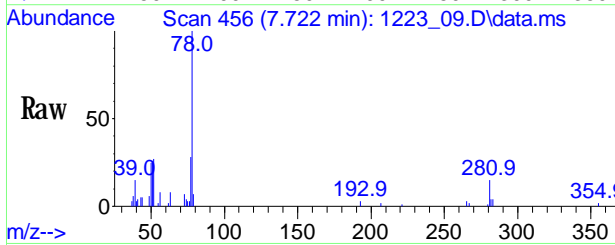
#29
Chloroform
 Conc: 8S 0.206 ppbv
 RT: 6.819 min Scan# 372
 Delta R.T. -0.000 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

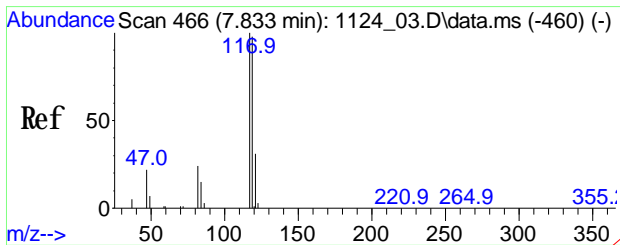
Tgt Ion	Ratio	Resp	Upper
83	100	8987	
85	54.0	41.7	81.7
47	34.8	14.7	54.7



#34
Benzene
 Conc: 8S 0.313 ppbv
 RT: 7.722 min Scan# 456
 Delta R.T. -0.000 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

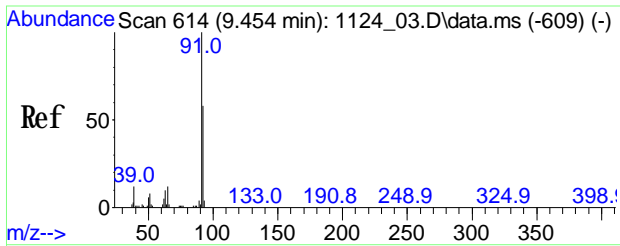
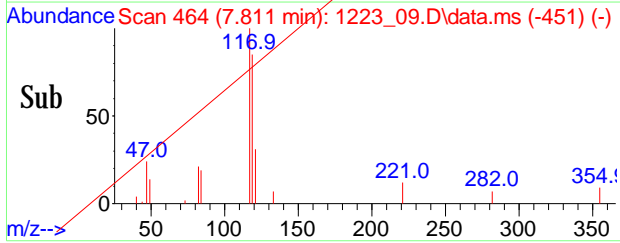
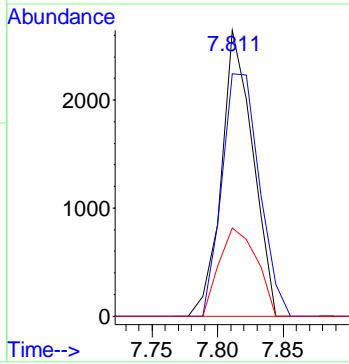
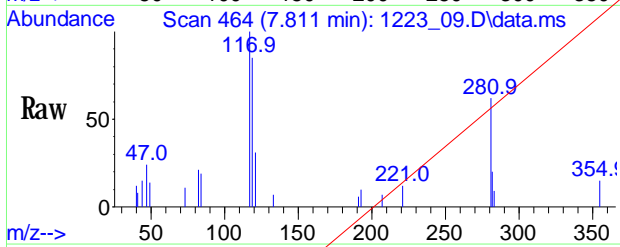
Tgt Ion	Ratio	Resp	Upper
78	100	17777	
77	24.7	21.4	32.0
51	27.7	19.4	29.2





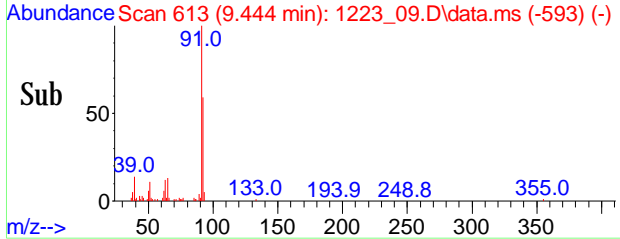
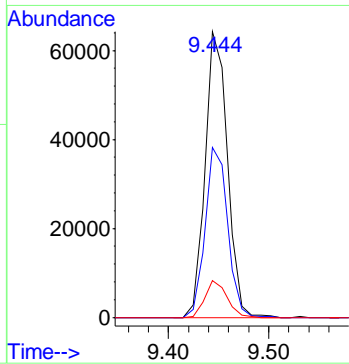
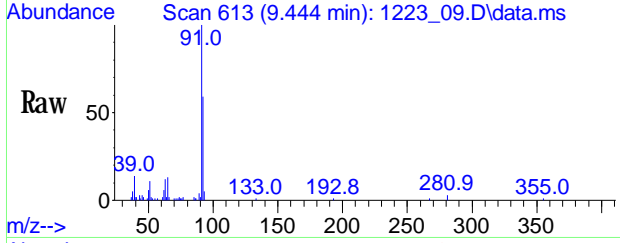
#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 7.811 min Scan# 464
 Delta R.T. -0.000 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

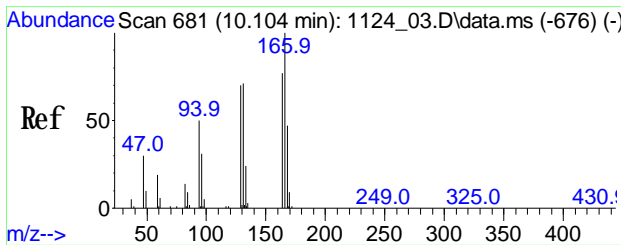
Tgt Ion	Ratio	Resp	Upper
117	100	4416	
119	101.9	78.9	118.9
121	36.9	11.5	51.5



#49
 Toluene
 Conc: 8S 1.450 ppby
 RT: 9.444 min Scan# 613
 Delta R.T. -0.010 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

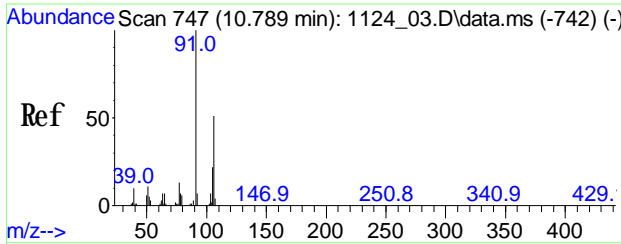
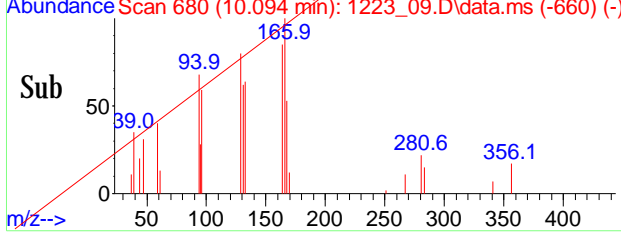
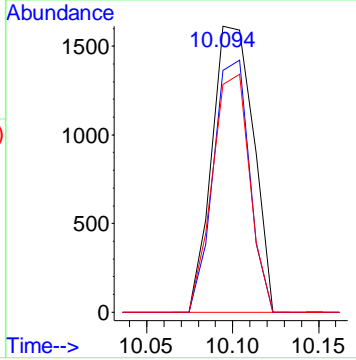
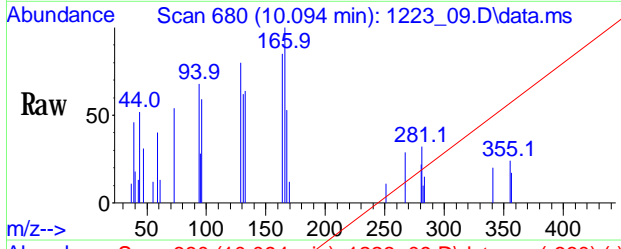
Tgt Ion	Ratio	Resp	Upper
91	100	99180	
92	60.0	48.2	72.2
65	12.7	11.2	16.8





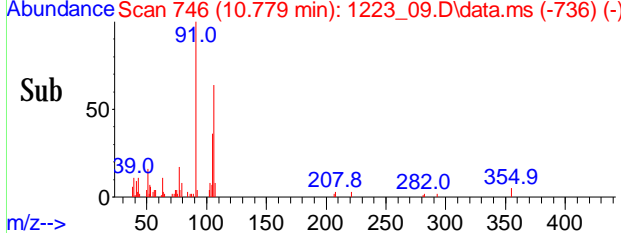
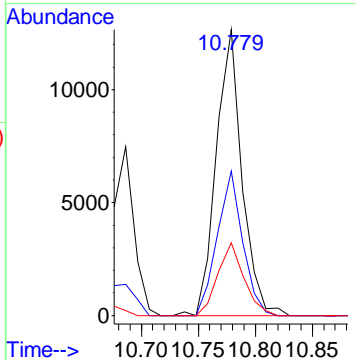
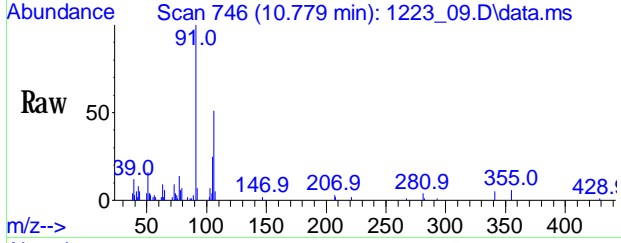
#53
 Tetrachloroethene
 Conc: 8S Below Cal
 RT: 10.094 min Scan# 680
 Delta R.T. -0.010 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

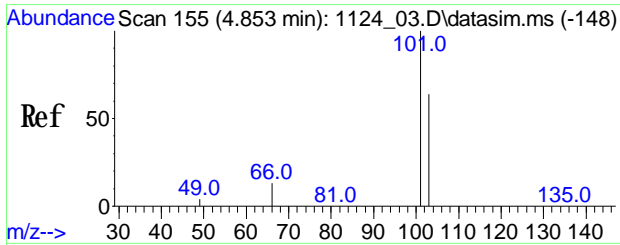
Tgt Ion	Ratio	Resp	Upper
166	100	2690	
164	76.9	64.3	96.5
129	74.9	58.3	87.5



#58
 m,p-Xylene
 Conc: 8S 0.302 ppby
 RT: 10.779 min Scan# 746
 Delta R.T. -0.000 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

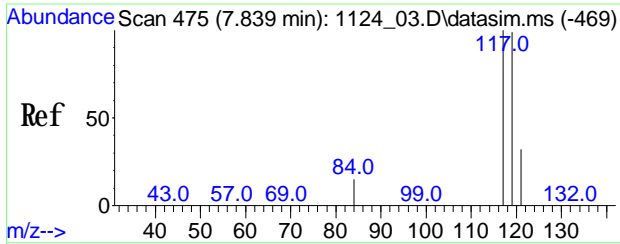
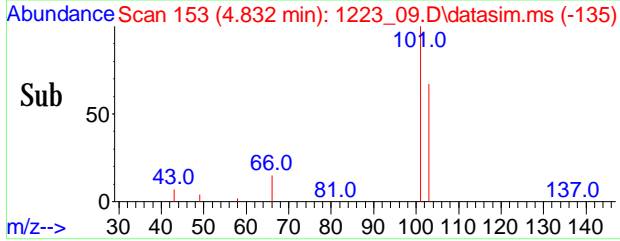
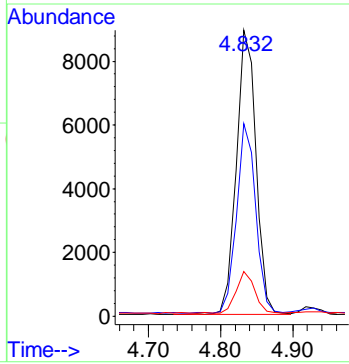
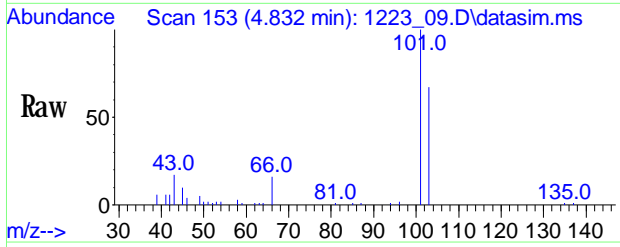
Tgt Ion	Ratio	Resp	Upper
91	100	19815	
106	49.9	39.5	59.3
105	26.0	19.0	28.6





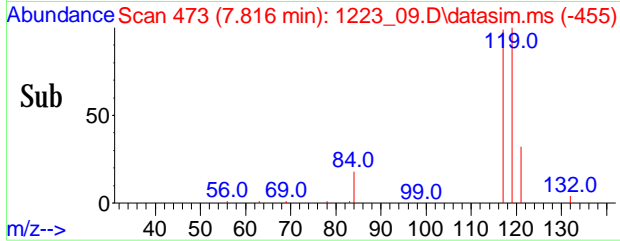
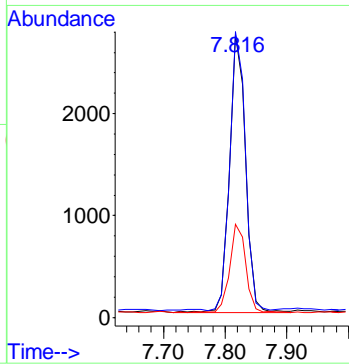
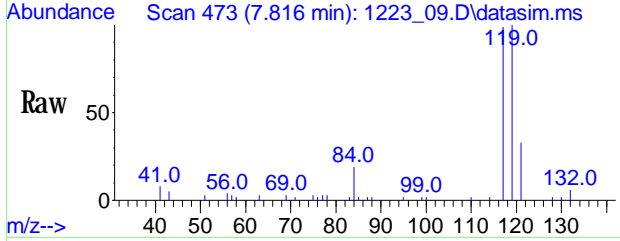
#85
 Trichlorofluoromethane(sim)
 Conc: 8S 0.298 ppbv
 RT: 4.832 min Scan# 153
 Delta R.T. -0.011 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

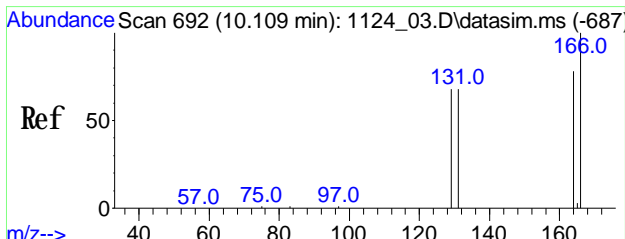
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	16931		
103	64.5	51.3		76.9
66	13.9	13.2		13.2#



#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.085 ppbv
 RT: 7.816 min Scan# 473
 Delta R.T. -0.000 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

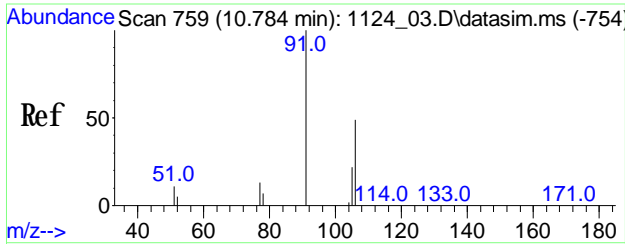
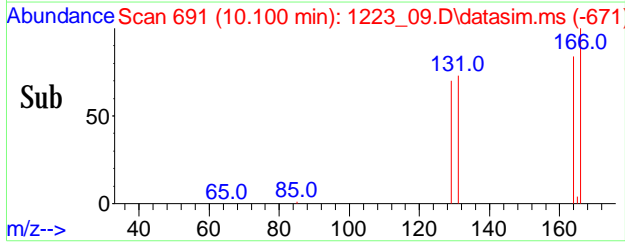
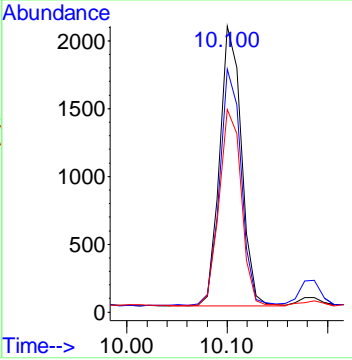
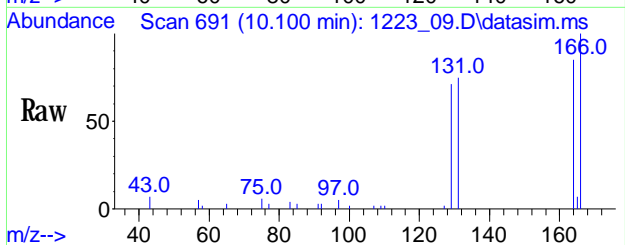
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4878		
119	98.2	76.8		115.2
121	32.2	25.1		37.7





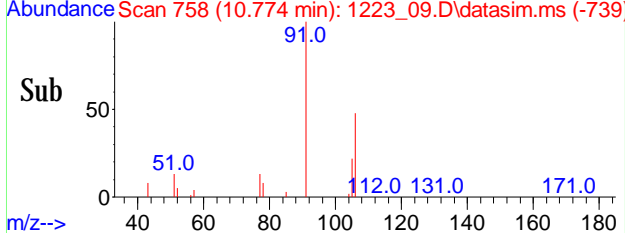
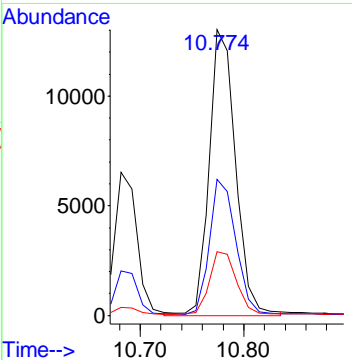
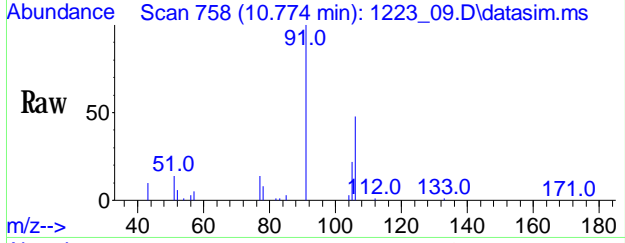
#105
 Tetrachloroethene (sim)
 Conc: 8S 0.070 ppbv
 RT: 10.100 min Scan# 691
 Delta R.T. -0.010 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	3091		
164	84.4	58.8		98.8
129	71.7	50.7		90.7



#108
 m p-Xylene (sim)
 Conc: 8S 0.278 ppbv
 RT: 10.779 min Scan# 758
 Delta R.T. -0.000 min
 Lab File: 1223_09.D
 Acq: 23 Dec 2020 8:45 pm

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	19812		
106	49.9	44.5		54.3
105	26.0	19.0		28.6



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 2042

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCH37250	Lab Sample ID:	CANISTER BLK 2042
Canister:	CANBL	Lab File ID:	1119_31.D
Instrument:	CHEM24	Column:	_____
Purge Volume	200	(cc)	Date Received: _____
Matrix:	AIR	Dilution Factor:	1
		Date Analyzed:	11/20/20

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.864	U	0.864	0.864	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 2042

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCH37250	Lab Sample ID:	CANISTER BLK 2042
Canister:	CANBL	Lab File ID:	1119_31.D
Instrument:	CHEM24	Column:	_____
Purge Volume	200	(cc)	Date Received: _____
Matrix:	AIR	Dilution Factor:	1
		Date Analyzed:	11/20/20

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\11NOV\19\
 Data File : 1119_31.D
 Acq On : 20 Nov 2020 11:07 am
 Operator : Keith
 Client ID : CANISTER BLK 2042
 Lab ID : CANISTER BLK 2042
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Nov 20 12:33:16 2020
 Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1029.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Oct 30 10:37:58 2020
 Response via : Initial Calibration

Compound	R.T.	QI	Ion	Response	Conc	Units	Dev(Mn)
Internal Standards							
1) Bromchloromethane	5.330	130		196635	10.000	ng	-0.05
36) 1,4-Difluorobenzene	7.273	114		591823	10.000	ng	-0.04
53) Chlorobenzene-d5	10.865	82		251419	10.000	ng	-0.03
80) Bromchloromethane(sim)	5.326	130		201103	10.000	ng	#-0.06
95) 1,4-Difluorobenzene(sim)	7.273	114		591823	10.000	ng	-0.04
105) Chlorobenzene-d5(sim)	10.865	82		251419	10.000	ng	-0.03
System Monitoring Compounds							
62) % Bromfluorobenzene	12.337	95		374669	10.008	ppbv	-0.03
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.10%	

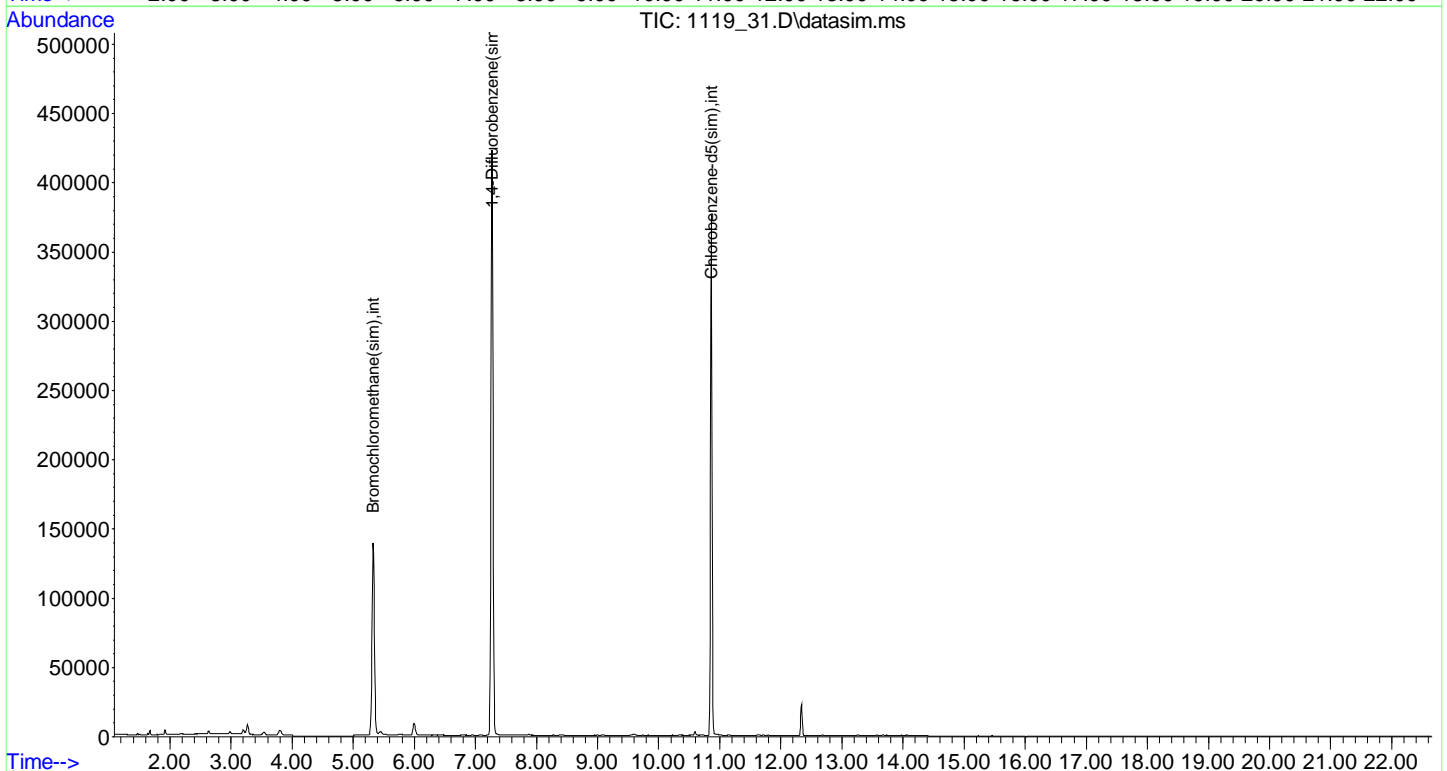
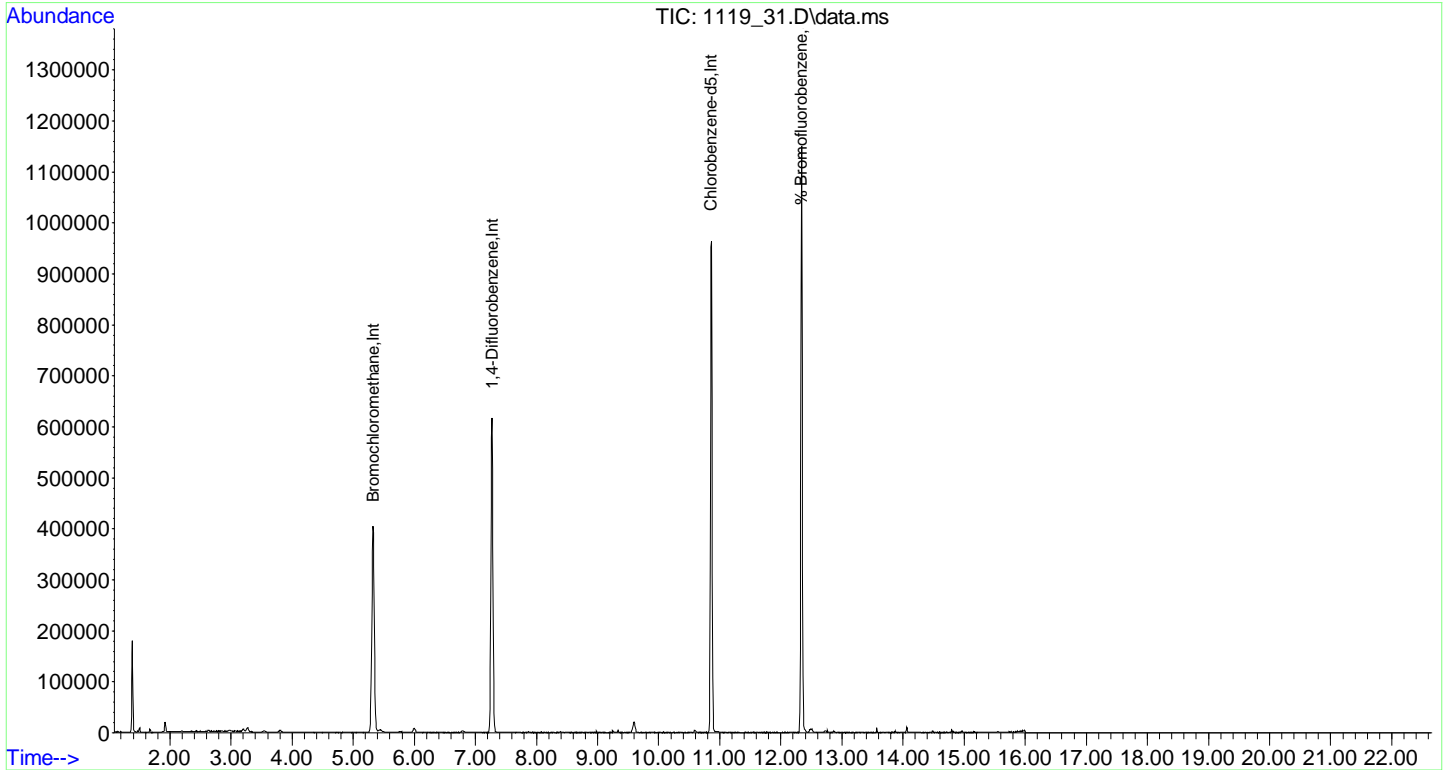
Target Compounds Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\11NOV\19\
Data File : 1119_31.D
Acq On : 20 Nov 2020 11:07 am
Operator : Keith
Client ID : CANISTER BLK 2042
Lab ID : CANISTER BLK 2042
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Nov 20 12:33:16 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_1029.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Oct 30 10:37:58 2020
Response via : Initial Calibration



Injection Log

Data Directory: H:\AIR2020\CHEM20\12DEC\11\

Line	VI	FileName	SampleName	MscInfo	Injection Time
1)	0	1211_37.D	XXXXXXXXXX		N/A
2)	3	1211_01.D	XXXXXXXXXX		12/11/20 17:43
3)	4	1211_02.D	XXXXXXXXXX		12/11/20 18:23
4)	7	1211_05.D	XXXXXXXXXX		12/11/20 18:58
5)	4	1211_06.D	BFB TUNE	0/0	12/11/20 19:32
6)	3	1211_07.D	ICAL 0.02	0.02	12/11/20 20:08
7)	4	1211_08.D	ICAL 0.035	0.035	12/11/20 21:50
8)	5	1211_09.D	ICAL 0.05	0.05	12/11/20 22:26
9)	6	1211_10.D	ICAL 0.1	0.10	12/11/20 23:02
10)	7	1211_11.D	ICAL 0.2	0.2	12/11/20 23:39
11)	8	1211_12.D	ICAL 0.5	0.50	12/12/20 0:17
12)	9	1211_13.D	ICAL 2.5	2.5	12/12/20 0:55
13)	10	1211_14.D	ICAL 5	5.0	12/12/20 1:31
14)	11	1211_15.D	ICAL 25	25	12/12/20 2:09
15)	12	1211_16.D	ICAL 40	40	12/12/20 2:49
16)	13	1211_17.D	XXXXXXXXXX		12/12/20 3:23
17)	14	1211_18.D	ICAL 1	1.0ppb cc	12/12/20 4:00
18)	15	1211_19.D	ICAL 10	10ppb cc	12/12/20 4:37
19)	16	1211_20.D	XXXXXXXXXX		12/12/20 5:14
20)	17	1211_21.D	XXXXXXXXXX		12/12/20 5:49
21)	18	1211_22.D	XXXXXXXXXX		12/12/20 6:24
22)	19	1211_23.D	XXXXXXXXXX		12/12/20 7:02
23)	20	1211_24.D	XXXXXXXXXX		12/12/20 7:41
24)	21	1211_25.D	XXXXXXXXXX		12/12/20 8:21
25)	22	1211_26.D	XXXXXXXXXX		12/12/20 9:02
26)	23	1211_27.D	XXXXXXXXXX		12/12/20 9:42
27)	24	1211_28.D	XXXXXXXXXX		12/12/20 10:22
28)	25	1211_29.D	XXXXXXXXXX		12/12/20 11:02
29)	26	1211_30.D	XXXXXXXXXX		12/12/20 11:42
30)	27	1211_31.D	XXXXXXXXXX		12/12/20 12:23
31)	28	1211_32.D	XXXXXXXXXX		12/12/20 13:00
32)	29	1211_33.D	XXXXXXXXXX		12/12/20 13:37
33)	30	1211_34.D	XXXXXXXXXX		12/12/20 14:12
34)	31	1211_35.D	XXXXXXXXXX		12/12/20 14:48
35)	32	1211_36.D	XXXXXXXXXX		12/12/20 15:25

Injection Log

Data Directory: H:\AIR2020\CHEM20\12DEC\23\

Line	VI	FileName	SampleName	MscInfo	Injection Time
1)	0	1223_37.D	xxxxxxxxxx		N/A
2)	1	1223_01.D	xxxxxxxxxx		12/23/20 14:53
3)	2	1223_02.D	BFB TUNE - CCAL 1	1.0ppb cc - 1.0ppb	12/23/20 15:30
4)	3	1223_03.D	xxxxxxxxxx		12/23/20 16:07
5)	4	1223_04.D	CH37250 LCS	CH37250 LCS	12/23/20 16:46
6)	5	1223_05.D	xxxxxxxxxx		12/23/20 17:20
7)	6	1223_06.D	CH37250 BLANK	CH37250 BLANK	12/23/20 17:55
8)	7	1223_07.D	xxxxxxxxxx		12/23/20 19:23
9)	8	1223_08.D	IA-1	CH37250	12/23/20 20:04
10)	9	1223_09.D	IA-1 DUP	CH37250 DUP	12/23/20 20:45
11)	10	1223_10.D	IA-2	CH37251	12/23/20 21:25
12)	11	1223_11.D	AA-1	CH37252	12/23/20 22:07
13)	12	1223_12.D	IA-99	CH37253	12/23/20 22:46
14)	13	1223_13.D	IA-4	CH37254	12/23/20 23:27
15)	14	1223_14.D	IA-3	CH37255	12/24/20 0:08
16)	15	1223_15.D	xxxxxxxxxx		12/24/20 0:47
17)	16	1223_16.D	xxxxxxxxxx		12/24/20 1:26
18)	17	1223_17.D	xxxxxxxxxx		12/24/20 2:06
19)	18	1223_18.D	xxxxxxxxxx		12/24/20 2:45
20)	19	1223_19.D	xxxxxxxxxx		12/24/20 3:24
21)	20	1223_20.D	xxxxxxxxxx		12/24/20 4:01
22)	21	1223_21.D	xxxxxxxxxx		12/24/20 4:38
23)	22	1223_22.D	xxxxxxxxxx		12/24/20 5:15
24)	23	1223_23.D	xxxxxxxxxx		12/24/20 5:53
25)	24	1223_24.D	xxxxxxxxxx		12/24/20 6:30
26)	25	1223_25.D	xxxxxxxxxx		12/24/20 7:07
27)	26	1223_26.D	xxxxxxxxxx		12/24/20 7:44
28)	27	1223_27.D	xxxxxxxxxx		12/24/20 8:21
29)	28	1223_28.D	xxxxxxxxxx		12/24/20 8:59
30)	29	1223_29.D	AA-1 5X	CH37252 5X	12/24/20 9:57
31)	29	1223_30.D	xxxxxxxxxx		12/24/20 10:34
32)	30	1223_31.D	xxxxxxxxxx		12/24/20 13:32
33)	31	1223_32.D	xxxxxxxxxx		12/24/20 14:09
34)	34	1223_35.D	xxxxxxxxxx		12/24/20 14:46
35)	35	1223_36.D	xxxxxxxxxx		12/24/20 15:23

Injection Log

Data Directory: H:\AIR2020\CHEM24\11NOV\19\

Line	VI	FileName	SampleName	MscInfo	Injection Time
1)	0	1121_06.D	XXXXXXXXXX		N/A
2)	1	1116_01.D	XXXXXXXXXX		11/16/20 13:00
3)	30	1119_01.D	XXXXXXXXXX		11/19/20 12:11
4)	31	1119_02.D	XXXXXXXXXX		11/19/20 12:49
5)	1	1119_03.D	XXXXXXXXXX		11/19/20 13:25
6)	2	1119_04.D	XXXXXXXXXX		11/19/20 14:00
7)	3	1119_05.D	XXXXXXXXXX		11/19/20 14:31
8)	4	1119_06.D	XXXXXXXXXX		11/19/20 15:03
9)	6	1119_08.D	XXXXXXXXXX		11/19/20 15:44
10)	7	1119_09.D	XXXXXXXXXX		11/19/20 16:16
11)	8	1119_10.D	XXXXXXXXXX		11/19/20 16:48
12)	9	1119_11.D	XXXXXXXXXX		11/19/20 17:20
13)	10	1119_12.D	XXXXXXXXXX		11/19/20 17:52
14)	11	1119_13.D	XXXXXXXXXX		11/19/20 18:33
15)	12	1119_14.D	XXXXXXXXXX		11/19/20 19:10
16)	13	1119_15.D	XXXXXXXXXX		11/19/20 19:46
17)	14	1119_16.D	XXXXXXXXXX		11/19/20 20:19
18)	15	1119_17.D	XXXXXXXXXX		11/19/20 21:13
19)	16	1119_18.D	XXXXXXXXXX		11/19/20 21:45
20)	17	1119_19.D	XXXXXXXXXX		11/19/20 22:18
21)	18	1119_20.D	XXXXXXXXXX		11/19/20 22:50
22)	19	1119_21.D	XXXXXXXXXX		11/19/20 23:22
23)	20	1119_22.D	XXXXXXXXXX		11/20/20 1:54
24)	21	1119_23.D	XXXXXXXXXX		11/20/20 2:30
25)	22	1119_24.D	XXXXXXXXXX		11/20/20 3:07
26)	23	1119_25.D	XXXXXXXXXX		11/20/20 3:43
27)	24	1119_26.D	XXXXXXXXXX		11/20/20 8:42
28)	25	1119_27.D	XXXXXXXXXX		11/20/20 9:18
29)	26	1119_28.D	XXXXXXXXXX		11/20/20 9:54
30)	27	1119_29.D	XXXXXXXXXX		11/20/20 10:31
31)	29	1119_31.D	CANISTER BLK 2042	CANISTER BLK 2042	11/20/20 11:07
32)	29	1120_01.D	XXXXXXXXXX		11/20/20 11:41
33)	30	1120_02.D	XXXXXXXXXX		11/20/20 12:14
34)	31	1120_03.D	XXXXXXXXXX		11/20/20 12:51
35)	32	1120_04.D	XXXXXXXXXX		11/20/20 13:22
36)	33	1120_05.D	XXXXXXXXXX		11/20/20 13:53
37)	34	1120_06.D	XXXXXXXXXX		11/20/20 14:30
38)	35	1120_07.D	XXXXXXXXXX		11/20/20 15:06
39)	36	1120_08.D	XXXXXXXXXX		11/20/20 15:43
40)	37	1120_09.D	XXXXXXXXXX		11/20/20 16:46
41)	38	1120_10.D	XXXXXXXXXX		11/20/20 17:18
42)	38	1120_11.D	XXXXXXXXXX		11/20/20 17:54
43)	39	1120_12.D	XXXXXXXXXX		11/20/20 18:31
44)	40	1120_13.D	XXXXXXXXXX		11/20/20 19:08
45)	41	1120_14.D	XXXXXXXXXX		11/20/20 19:44
46)	42	1120_15.D	XXXXXXXXXX		11/20/20 20:21
47)	43	1120_16.D	XXXXXXXXXX		11/20/20 20:58
48)	44	1120_17.D	XXXXXXXXXX		11/20/20 21:35
49)	45	1120_18.D	XXXXXXXXXX		11/20/20 22:11
50)	46	1120_19.D	XXXXXXXXXX		11/20/20 22:48
51)	47	1120_20.D	XXXXXXXXXX		11/20/20 23:24
52)	48	1120_21.D	XXXXXXXXXX		11/20/20 23:57
53)	49	1120_22.D	XXXXXXXXXX		11/21/20 0:34
54)	50	1120_23.D	XXXXXXXXXX		11/21/20 1:10
55)	51	1120_24.D	XXXXXXXXXX		11/21/20 1:47
56)	52	1120_25.D	XXXXXXXXXX		11/21/20 2:24
57)	53	1120_26.D	XXXXXXXXXX		11/21/20 3:01
58)	55	1120_27.D	XXXXXXXXXX		11/21/20 3:43
59)	56	1120_28.D	XXXXXXXXXX		11/21/20 4:25
60)	57	1120_29.D	XXXXXXXXXX		11/21/20 5:07
61)	58	1120_30.D	XXXXXXXXXX		11/21/20 5:49
62)	59	1120_31.D	XXXXXXXXXX		11/21/20 6:21
63)	60	1120_32.D	XXXXXXXXXX		11/21/20 6:54
64)	61	1120_33.D	XXXXXXXXXX		11/21/20 7:26
65)	62	1120_34.D	XXXXXXXXXX		11/21/20 7:59
66)	63	1120_35.D	XXXXXXXXXX		11/21/20 8:32
67)	64	1120_36.D	XXXXXXXXXX		11/21/20 9:04
68)	65	1120_37.D	XXXXXXXXXX		11/21/20 9:37

69) 66 1120_38.D XXXXXXXXXXXX
70) 68 1121_01.D XXXXXXXXXXXX
71) 69 1121_02.D XXXXXXXXXXXX
72) 70 1121_03.D XXXXXXXXXXXX
73) 71 1121_04.D XXXXXXXXXXXX
74) 72 1121_05.D XXXXXXXXXXXX

11/21/20 10:10
11/21/20 10:44
11/21/20 11:18
11/21/20 11:56
11/21/20 12:28
11/21/20 13:00



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

NY ANALYTICAL SERVICES PROTOCOL DATA PACKAGE

FPM Group
CINDERELLA

GCK90290

Ver 1

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Friday, April 29, 2022

Attn: Mr John Bukoski, PG
FPM Group
640 Johnson Avenue, Suite 101
Bohemia, NY 11716

Project ID: CINDERELLA
SDG ID: GCK90290
Sample ID#s: CK90290 - CK90302

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
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**NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE**

Client: FPM Group
Project: CINDERELLA
Laboratory Project: GCK90290



Environmental Laboratories, Inc.
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NY Analytical Services Protocol Format

April 29, 2022

SDG I.D.: GCK90290

FPM Group CINDERELLA

Methodology Summary

Volatiles in Air

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-15, Second Edition, U. S. Environmental Protection Agency, January 1999.



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NY Analytical Services Protocol Format

April 29, 2022

SDG I.D.: GCK90290

FPM Group CINDERELLA

Laboratory Chronicle

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CK90290	Volatiles (TO15)	03/17/22	03/20/22	03/20/22	KCA	Y
CK90291	Volatiles (TO15)	03/17/22	03/20/22	03/20/22	KCA	Y
CK90292	Volatiles (TO15)	03/17/22	03/19/22	03/19/22	KCA	Y
CK90293	Volatiles (TO15)	03/17/22	03/19/22	03/19/22	KCA	Y
CK90294	Volatiles (TO15)	03/17/22	03/20/22	03/20/22	KCA	Y
CK90295	Volatiles (TO15)	03/17/22	03/20/22	03/20/22	KCA	Y
CK90296	Volatiles (TO15)	03/17/22	03/19/22	03/19/22	KCA	Y
CK90297	Volatiles (TO15)	03/17/22	03/20/22	03/20/22	KCA	Y
CK90298	Volatiles (TO15)	03/17/22	03/19/22	03/19/22	KCA	Y
CK90299	Volatiles (TO15)	03/17/22	03/19/22	03/19/22	KCA	Y
CK90300	Volatiles (TO15)	03/17/22	03/19/22	03/19/22	KCA	Y
CK90301	Volatiles (TO15)	03/17/22	03/19/22	03/19/22	KCA	Y
CK90302	Volatiles (TO15)	03/17/22	03/19/22	03/19/22	KCA	Y



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Sample Id Cross Reference

April 29, 2022

SDG I.D.: GCK90290

Project ID: CINDERELLA

Client Id	Lab Id	Matrix
VP-4	CK90290	AIR
VP-3	CK90291	AIR
VP-1	CK90292	AIR
IA-1	CK90293	AIR
VP-5	CK90294	AIR
VP-8	CK90295	AIR
IA-2	CK90296	AIR
VP-7	CK90297	AIR
IA-3	CK90298	AIR
VP-2	CK90299	AIR
IA-4	CK90300	AIR
IA-1D	CK90301	AIR
AMBIENT	CK90302	AIR



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 29, 2022

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 28578

Custody Information

Collected by: CS/JS
 Received by: CP
 Analyzed by: see "By" below

Date: 03/17/22 15:24
 03/18/22 17:58

Project ID: CINDERELLA
 Client ID: VP-4

Laboratory Data

SDG ID: GCK90290
 Phoenix ID: CK90290

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/20/22	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/20/22	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/20/22	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/20/22	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/20/22	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/20/22	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/20/22	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/20/22	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/20/22	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/20/22	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/20/22	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/20/22	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/20/22	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/20/22	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/20/22	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/20/22	KCA	1
Acetone	5.88	0.421	0.421	14.0	1.00	1.00	03/20/22	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/20/22	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/20/22	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/20/22	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	03/20/22	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/20/22	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/20/22	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/20/22	KCA	1
Carbon Tetrachloride	0.083	0.032	0.032	0.52	0.20	0.20	03/20/22	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/20/22	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/20/22	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/20/22	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	03/20/22	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/20/22	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/20/22	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/20/22	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/20/22	KCA	1
Dichlorodifluoromethane	0.508	0.202	0.202	2.51	1.00	1.00	03/20/22	KCA	1
Ethanol	34.9	0.531	0.531	65.7	1.00	1.00	03/20/22	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/20/22	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/20/22	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/20/22	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/20/22	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/20/22	KCA	1
Isopropylalcohol	7.06	0.407	0.407	17.3	1.00	1.00	03/20/22	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/20/22	KCA	1
Methyl Ethyl Ketone	0.510	0.339	0.339	1.50	1.00	1.00	03/20/22	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/20/22	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/20/22	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/20/22	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/20/22	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/20/22	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/20/22	KCA	1
Styrene	1.30	0.235	0.235	5.53	1.00	1.00	03/20/22	KCA	1
Tetrachloroethene	0.062	0.037	0.037	0.42	0.25	0.25	03/20/22	KCA	1
Tetrahydrofuran	0.458	0.339	0.339	1.35	1.00	1.00	03/20/22	KCA	1
Toluene	0.382	0.266	0.266	1.44	1.00	1.00	03/20/22	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/20/22	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/20/22	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/20/22	KCA	1
Trichlorofluoromethane	0.248	0.178	0.178	1.39	1.00	1.00	03/20/22	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/20/22	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/20/22	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	104	%	%	104	%	%	03/20/22	KCA	1
% IS-1,4-Difluorobenzene	91	%	%	91	%	%	03/20/22	KCA	1
% IS-Bromochloromethane	95	%	%	95	%	%	03/20/22	KCA	1
% IS-Chlorobenzene-d5	88	%	%	88	%	%	03/20/22	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 29, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 29, 2022

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 28567

Custody Information

Collected by: CS/JS
 Received by: CP
 Analyzed by: see "By" below

Date: 03/17/22 15:20
 03/18/22 17:58

Project ID: CINDERELLA
 Client ID: VP-3

Laboratory Data

SDG ID: GCK90290
 Phoenix ID: CK90291

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/20/22	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/20/22	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/20/22	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/20/22	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/20/22	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/20/22	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/20/22	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/20/22	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/20/22	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/20/22	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/20/22	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/20/22	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/20/22	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/20/22	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/20/22	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/20/22	KCA	1
Acetone	5.69	0.421	0.421	13.5	1.00	1.00	03/20/22	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/20/22	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/20/22	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/20/22	KCA	1

Client ID: VP-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	03/20/22	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/20/22	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/20/22	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/20/22	KCA	1
Carbon Tetrachloride	0.079	0.032	0.032	0.50	0.20	0.20	03/20/22	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/20/22	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/20/22	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/20/22	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	03/20/22	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/20/22	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/20/22	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/20/22	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/20/22	KCA	1
Dichlorodifluoromethane	0.478	0.202	0.202	2.36	1.00	1.00	03/20/22	KCA	1
Ethanol	39.1	0.531	0.531	73.6	1.00	1.00	03/20/22	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/20/22	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/20/22	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/20/22	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/20/22	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/20/22	KCA	1
Isopropylalcohol	6.70	0.407	0.407	16.5	1.00	1.00	03/20/22	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/20/22	KCA	1
Methyl Ethyl Ketone	0.553	0.339	0.339	1.63	1.00	1.00	03/20/22	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/20/22	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/20/22	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/20/22	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/20/22	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/20/22	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/20/22	KCA	1
Styrene	0.271	0.235	0.235	1.15	1.00	1.00	03/20/22	KCA	1
Tetrachloroethene	0.045	0.037	0.037	0.31	0.25	0.25	03/20/22	KCA	1
Tetrahydrofuran	0.416	0.339	0.339	1.23	1.00	1.00	03/20/22	KCA	1
Toluene	0.380	0.266	0.266	1.43	1.00	1.00	03/20/22	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/20/22	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/20/22	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/20/22	KCA	1
Trichlorofluoromethane	0.233	0.178	0.178	1.31	1.00	1.00	03/20/22	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/20/22	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/20/22	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	100	%	%	100	%	%	03/20/22	KCA	1
% IS-1,4-Difluorobenzene	92	%	%	92	%	%	03/20/22	KCA	1
% IS-Bromochloromethane	98	%	%	98	%	%	03/20/22	KCA	1
% IS-Chlorobenzene-d5	91	%	%	91	%	%	03/20/22	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 29, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 29, 2022

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 28589

Custody Information

Collected by: CS/JS
 Received by: CP
 Analyzed by: see "By" below

Date: 03/17/22 15:02
 03/18/22 17:58

Project ID: CINDERELLA
 Client ID: VP-1

Laboratory Data

SDG ID: GCK90290
 Phoenix ID: CK90292

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/20/22	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/20/22	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/20/22	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/20/22	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/20/22	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/20/22	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/20/22	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/20/22	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/20/22	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/20/22	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/20/22	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/20/22	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/20/22	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/20/22	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/20/22	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/20/22	KCA	1
Acetone	11.4	0.421	0.421	27.1	1.00	1.00	03/20/22	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/20/22	KCA	1
Benzene	0.324	0.313	0.313	1.03	1.00	1.00	03/20/22	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/20/22	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.149	0.149	ND	1.00 1.00	03/20/22	KCA	1	
Bromoform	ND	0.097	0.097	ND	1.00 1.00	03/20/22	KCA	1	
Bromomethane	ND	0.258	0.258	ND	1.00 1.00	03/20/22	KCA	1	
Carbon Disulfide	ND	0.321	0.321	ND	1.00 1.00	03/20/22	KCA	1	
Carbon Tetrachloride	0.094	0.032	0.032	0.59	0.20 0.20	03/20/22	KCA	1	
Chlorobenzene	ND	0.217	0.217	ND	1.00 1.00	03/20/22	KCA	1	
Chloroethane	ND	0.379	0.379	ND	1.00 1.00	03/20/22	KCA	1	
Chloroform	0.422	0.205	0.205	2.06	1.00 1.00	03/20/22	KCA	1	
Chloromethane	0.599	0.485	0.485	1.24	1.00 1.00	03/20/22	KCA	1	
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20 0.20	03/20/22	KCA	1	
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00 1.00	03/20/22	KCA	1	
Cyclohexane	ND	0.291	0.291	ND	1.00 1.00	03/20/22	KCA	1	
Dibromochloromethane	ND	0.118	0.118	ND	1.00 1.00	03/20/22	KCA	1	
Dichlorodifluoromethane	0.471	0.202	0.202	2.33	1.00 1.00	03/20/22	KCA	1	
Ethanol	128	2.66	2.66	241	5.01 5.01	03/19/22	KCA	5	
Ethyl acetate	ND	0.278	0.278	ND	1.00 1.00	03/20/22	KCA	1	
Ethylbenzene	ND	0.230	0.230	ND	1.00 1.00	03/20/22	KCA	1	
Heptane	ND	0.244	0.244	ND	1.00 1.00	03/20/22	KCA	1	
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00 1.00	03/20/22	KCA	1	
Hexane	ND	0.284	0.284	ND	1.00 1.00	03/20/22	KCA	1	
Isopropylalcohol	10.4	0.407	0.407	25.5	1.00 1.00	03/20/22	KCA	1	
Isopropylbenzene	ND	0.204	0.204	ND	1.00 1.00	03/20/22	KCA	1	
m,p-Xylene	0.270	0.230	0.230	1.17	1.00 1.00	03/20/22	KCA	1	
Methyl Ethyl Ketone	1.16	0.339	0.339	3.42	1.00 1.00	03/20/22	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00 1.00	03/20/22	KCA	1	
Methylene Chloride	ND	0.863	0.863	ND	3.00 3.00	03/20/22	KCA	1	
n-Butylbenzene	ND	0.182	0.182	ND	1.00 1.00	03/20/22	KCA	1	
o-Xylene	ND	0.230	0.230	ND	1.00 1.00	03/20/22	KCA	1	
Propylene	ND	0.581	0.581	ND	1.00 1.00	03/20/22	KCA	1	
sec-Butylbenzene	ND	0.182	0.182	ND	1.00 1.00	03/20/22	KCA	1	
Styrene	0.810	0.235	0.235	3.45	1.00 1.00	03/20/22	KCA	1	
Tetrachloroethene	0.057	0.037	0.037	0.39	0.25 0.25	03/20/22	KCA	1	
Tetrahydrofuran	0.642	0.339	0.339	1.89	1.00 1.00	03/20/22	KCA	1	
Toluene	0.900	0.266	0.266	3.39	1.00 1.00	03/20/22	KCA	1	
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00 1.00	03/20/22	KCA	1	
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00 1.00	03/20/22	KCA	1	
Trichloroethene	ND	0.037	0.037	ND	0.20 0.20	03/20/22	KCA	1	
Trichlorofluoromethane	0.240	0.178	0.178	1.35	1.00 1.00	03/20/22	KCA	1	
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00 1.00	03/20/22	KCA	1	
Vinyl Chloride	ND	0.078	0.078	ND	0.20 0.20	03/20/22	KCA	1	
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	101	%	%	101	% %	03/20/22	KCA	1	
% IS-1,4-Difluorobenzene	94	%	%	94	% %	03/20/22	KCA	1	
% IS-Bromochloromethane	100	%	%	100	% %	03/20/22	KCA	1	
% IS-Chlorobenzene-d5	92	%	%	92	% %	03/20/22	KCA	1	
% IS-1,4-Difluorobenzene (5x)	89	%	%	89	% %	03/19/22	KCA	5	
% IS-Bromochloromethane (5x)	96	%	%	96	% %	03/19/22	KCA	5	
% IS-Chlorobenzene-d5 (5x)	87	%	%	87	% %	03/19/22	KCA	5	

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 29, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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Analysis Report

April 29, 2022

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 28598

Custody Information

Collected by: CS/JS
 Received by: CP
 Analyzed by: see "By" below

Date: 03/17/22 15:04
 03/18/22 17:58

Project ID: CINDERELLA
 Client ID: IA-1

Laboratory Data

SDG ID: GCK90290
 Phoenix ID: CK90293

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/19/22	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/19/22	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/19/22	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/19/22	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/19/22	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/19/22	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/19/22	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/19/22	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/19/22	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/19/22	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/19/22	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/19/22	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1
Acetone	27.4	0.421	0.421	65.0	1.00	1.00	03/19/22	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/19/22	KCA	1
Benzene	0.331	0.313	0.313	1.06	1.00	1.00	03/19/22	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/19/22	KCA	1

Client ID: IA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	03/19/22	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/19/22	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/19/22	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/19/22	KCA	1
Carbon Tetrachloride	0.081	0.032	0.032	0.51	0.20	0.20	03/19/22	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/19/22	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/19/22	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/19/22	KCA	1
Chloromethane	0.694	0.485	0.485	1.43	1.00	1.00	03/19/22	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/19/22	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/19/22	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/19/22	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/19/22	KCA	1
Dichlorodifluoromethane	0.513	0.202	0.202	2.54	1.00	1.00	03/19/22	KCA	1
Ethanol	646	E 0.531	0.531	1220	1.00	1.00	03/19/22	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/19/22	KCA	1
Hexane	0.400	0.284	0.284	1.41	1.00	1.00	03/19/22	KCA	1
Isopropylalcohol	31.8	0.407	0.407	78.1	1.00	1.00	03/19/22	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1
m,p-Xylene	0.480	0.230	0.230	2.08	1.00	1.00	03/19/22	KCA	1
Methyl Ethyl Ketone	0.713	0.339	0.339	2.10	1.00	1.00	03/19/22	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/19/22	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/19/22	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/19/22	KCA	1
Tetrachloroethene	ND	0.037	0.037	ND	0.25	0.25	03/19/22	KCA	1
Tetrahydrofuran	0.537	0.339	0.339	1.58	1.00	1.00	03/19/22	KCA	1
Toluene	0.982	0.266	0.266	3.70	1.00	1.00	03/19/22	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/19/22	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/19/22	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/19/22	KCA	1
Trichlorofluoromethane	0.277	0.178	0.178	1.56	1.00	1.00	03/19/22	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/19/22	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/19/22	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	101	%	%	101	%	%	03/19/22	KCA	1
% IS-1,4-Difluorobenzene	90	%	%	90	%	%	03/19/22	KCA	1
% IS-Bromochloromethane	95	%	%	95	%	%	03/19/22	KCA	1
% IS-Chlorobenzene-d5	92	%	%	92	%	%	03/19/22	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

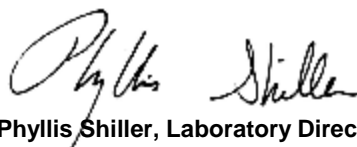
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 29, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 29, 2022

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 28587

Custody Information

Collected by: CS/JS
 Received by: CP
 Analyzed by: see "By" below

Date: 03/17/22 16:10
 03/18/22 17:58

Project ID: CINDERELLA
 Client ID: VP-5

Laboratory Data

SDG ID: GCK90290
 Phoenix ID: CK90294

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/20/22	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/20/22	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/20/22	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/20/22	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/20/22	KCA	1	
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/20/22	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/20/22	KCA	1	
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/20/22	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/20/22	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/20/22	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/20/22	KCA	1	
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/20/22	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/20/22	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/20/22	KCA	1	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/20/22	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/20/22	KCA	1	
Acetone	1.08	0.421	0.421	2.56	1.00	1.00	03/20/22	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/20/22	KCA	1	
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/20/22	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/20/22	KCA	1	

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	03/20/22	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/20/22	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/20/22	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/20/22	KCA	1
Carbon Tetrachloride	0.081	0.032	0.032	0.51	0.20	0.20	03/20/22	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/20/22	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/20/22	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/20/22	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	03/20/22	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/20/22	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/20/22	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/20/22	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/20/22	KCA	1
Dichlorodifluoromethane	0.510	0.202	0.202	2.52	1.00	1.00	03/20/22	KCA	1
Ethanol	3.04	0.531	0.531	5.72	1.00	1.00	03/20/22	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/20/22	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/20/22	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/20/22	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/20/22	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/20/22	KCA	1
Isopropylalcohol	ND	0.407	0.407	ND	1.00	1.00	03/20/22	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1
m,p-Xylene	0.253	0.230	0.230	1.10	1.00	1.00	03/20/22	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	03/20/22	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/20/22	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/20/22	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/20/22	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/20/22	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/20/22	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/20/22	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/20/22	KCA	1
Tetrachloroethene	0.438	0.037	0.037	2.97	0.25	0.25	03/20/22	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/20/22	KCA	1
Toluene	0.443	0.266	0.266	1.67	1.00	1.00	03/20/22	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/20/22	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/20/22	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/20/22	KCA	1
Trichlorofluoromethane	0.257	0.178	0.178	1.44	1.00	1.00	03/20/22	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/20/22	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/20/22	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	101	%	%	101	%	%	03/20/22	KCA	1
% IS-1,4-Difluorobenzene	87	%	%	87	%	%	03/20/22	KCA	1
% IS-Bromochloromethane	93	%	%	93	%	%	03/20/22	KCA	1
% IS-Chlorobenzene-d5	86	%	%	86	%	%	03/20/22	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 29, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 29, 2022

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 221
 Project ID: CINDERELLA
 Client ID: VP-8

Custody Information

Collected by: CS/JS
 Received by: CP
 Analyzed by: see "By" below

Date: 03/17/22 15:41
 03/18/22 17:58

Laboratory Data

SDG ID: GCK90290
 Phoenix ID: CK90295

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/20/22	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/20/22	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/20/22	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/20/22	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/20/22	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/20/22	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/20/22	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/20/22	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/20/22	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/20/22	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/20/22	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/20/22	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/20/22	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/20/22	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/20/22	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/20/22	KCA	1
Acetone	0.882	0.421	0.421	2.09	1.00	1.00	03/20/22	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/20/22	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/20/22	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/20/22	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	03/20/22	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/20/22	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/20/22	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/20/22	KCA	1
Carbon Tetrachloride	0.079	0.032	0.032	0.50	0.20	0.20	03/20/22	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/20/22	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/20/22	KCA	1
Chloroform	0.295	0.205	0.205	1.44	1.00	1.00	03/20/22	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	03/20/22	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/20/22	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/20/22	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/20/22	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/20/22	KCA	1
Dichlorodifluoromethane	0.505	0.202	0.202	2.50	1.00	1.00	03/20/22	KCA	1
Ethanol	2.30	0.531	0.531	4.33	1.00	1.00	03/20/22	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/20/22	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/20/22	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/20/22	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/20/22	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/20/22	KCA	1
Isopropylalcohol	0.413	0.407	0.407	1.01	1.00	1.00	03/20/22	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/20/22	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	03/20/22	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/20/22	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/20/22	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/20/22	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/20/22	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/20/22	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/20/22	KCA	1
Styrene	0.493	0.235	0.235	2.10	1.00	1.00	03/20/22	KCA	1
Tetrachloroethene	2.85	0.037	0.037	19.3	0.25	0.25	03/20/22	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/20/22	KCA	1
Toluene	0.285	0.266	0.266	1.07	1.00	1.00	03/20/22	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/20/22	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/20/22	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/20/22	KCA	1
Trichlorofluoromethane	0.253	0.178	0.178	1.42	1.00	1.00	03/20/22	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/20/22	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/20/22	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	103	%	%	103	%	%	03/20/22	KCA	1
% IS-1,4-Difluorobenzene	88	%	%	88	%	%	03/20/22	KCA	1
% IS-Bromochloromethane	95	%	%	95	%	%	03/20/22	KCA	1
% IS-Chlorobenzene-d5	91	%	%	91	%	%	03/20/22	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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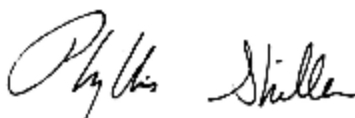
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 29, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 29, 2022

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 350

Custody Information

Collected by: CS/JS
 Received by: CP
 Analyzed by: see "By" below

Date: 03/17/22 15:20
 03/18/22 17:58

Project ID: CINDERELLA
 Client ID: IA-2

Laboratory Data

SDG ID: GCK90290
 Phoenix ID: CK90296

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/19/22	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/19/22	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/19/22	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/19/22	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/19/22	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/19/22	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/19/22	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/19/22	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/19/22	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/19/22	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/19/22	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/19/22	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1
Acetone	3.83	0.421	0.421	9.09	1.00	1.00	03/19/22	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/19/22	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/19/22	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/19/22	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	03/19/22	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/19/22	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/19/22	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/19/22	KCA	1
Carbon Tetrachloride	0.080	0.032	0.032	0.50	0.20	0.20	03/19/22	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/19/22	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/19/22	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/19/22	KCA	1
Chloromethane	0.523	0.485	0.485	1.08	1.00	1.00	03/19/22	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/19/22	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/19/22	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/19/22	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/19/22	KCA	1
Dichlorodifluoromethane	0.478	0.202	0.202	2.36	1.00	1.00	03/19/22	KCA	1
Ethanol	7.97	0.531	0.531	15.0	1.00	1.00	03/19/22	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/19/22	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/19/22	KCA	1
Isopropylalcohol	1.41	0.407	0.407	3.46	1.00	1.00	03/19/22	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	03/19/22	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/19/22	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/19/22	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/19/22	KCA	1
Tetrachloroethene	0.050	0.037	0.037	0.34	0.25	0.25	03/19/22	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/19/22	KCA	1
Toluene	0.433	0.266	0.266	1.63	1.00	1.00	03/19/22	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/19/22	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/19/22	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/19/22	KCA	1
Trichlorofluoromethane	0.249	0.178	0.178	1.40	1.00	1.00	03/19/22	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/19/22	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/19/22	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	99	%	%	99	%	%	03/19/22	KCA	1
% IS-1,4-Difluorobenzene	93	%	%	93	%	%	03/19/22	KCA	1
% IS-Bromochloromethane	99	%	%	99	%	%	03/19/22	KCA	1
% IS-Chlorobenzene-d5	90	%	%	90	%	%	03/19/22	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 29, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 29, 2022

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 23336

Custody Information

Collected by: CS/JS
 Received by: CP
 Analyzed by: see "By" below

Date: 03/17/22 15:41
 03/18/22 17:58

Project ID: CINDERELLA
 Client ID: VP-7

Laboratory Data

SDG ID: GCK90290
 Phoenix ID: CK90297

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/20/22	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/20/22	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/20/22	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/20/22	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/20/22	KCA	1	
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/20/22	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/20/22	KCA	1	
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/20/22	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/20/22	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/20/22	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/20/22	KCA	1	
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/20/22	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/20/22	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/20/22	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/20/22	KCA	1	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/20/22	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/20/22	KCA	1	
Acetone	5.93	0.421	0.421	14.1	1.00	1.00	03/20/22	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/20/22	KCA	1	
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/20/22	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/20/22	KCA	1	

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	03/20/22	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/20/22	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/20/22	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/20/22	KCA	1
Carbon Tetrachloride	0.082	0.032	0.032	0.52	0.20	0.20	03/20/22	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/20/22	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/20/22	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/20/22	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	03/20/22	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/20/22	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/20/22	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/20/22	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/20/22	KCA	1
Dichlorodifluoromethane	0.501	0.202	0.202	2.48	1.00	1.00	03/20/22	KCA	1
Ethanol	32.9	0.531	0.531	62.0	1.00	1.00	03/20/22	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/20/22	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/20/22	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/20/22	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/20/22	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/20/22	KCA	1
Isopropylalcohol	9.39	0.407	0.407	23.1	1.00	1.00	03/20/22	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/20/22	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/20/22	KCA	1
Methyl Ethyl Ketone	0.534	0.339	0.339	1.57	1.00	1.00	03/20/22	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/20/22	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/20/22	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/20/22	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/20/22	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/20/22	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/20/22	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/20/22	KCA	1
Tetrachloroethene	0.042	0.037	0.037	0.28	0.25	0.25	03/20/22	KCA	1
Tetrahydrofuran	0.393	0.339	0.339	1.16	1.00	1.00	03/20/22	KCA	1
Toluene	0.485	0.266	0.266	1.83	1.00	1.00	03/20/22	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/20/22	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/20/22	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/20/22	KCA	1
Trichlorofluoromethane	0.241	0.178	0.178	1.35	1.00	1.00	03/20/22	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/20/22	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/20/22	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	103	%	%	103	%	%	03/20/22	KCA	1
% IS-1,4-Difluorobenzene	85	%	%	85	%	%	03/20/22	KCA	1
% IS-Bromochloromethane	94	%	%	94	%	%	03/20/22	KCA	1
% IS-Chlorobenzene-d5	88	%	%	88	%	%	03/20/22	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 29, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 29, 2022

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 19931

Custody Information

Collected by: CS/JS
 Received by: CP
 Analyzed by: see "By" below

Date: 03/17/22 16:10
 03/18/22 17:58

Project ID: CINDERELLA
 Client ID: IA-3

Laboratory Data

SDG ID: GCK90290
 Phoenix ID: CK90298

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/19/22	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/19/22	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/19/22	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/19/22	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/19/22	KCA	1	
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/19/22	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/19/22	KCA	1	
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/19/22	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/19/22	KCA	1	
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/19/22	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1	
Acetone	3.64	0.421	0.421	8.64	1.00	1.00	03/19/22	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/19/22	KCA	1	
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/19/22	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/19/22	KCA	1	

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	03/19/22	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/19/22	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/19/22	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/19/22	KCA	1
Carbon Tetrachloride	0.082	0.032	0.032	0.52	0.20	0.20	03/19/22	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/19/22	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/19/22	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/19/22	KCA	1
Chloromethane	0.614	0.485	0.485	1.27	1.00	1.00	03/19/22	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/19/22	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/19/22	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/19/22	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/19/22	KCA	1
Dichlorodifluoromethane	0.529	0.202	0.202	2.61	1.00	1.00	03/19/22	KCA	1
Ethanol	5.32	0.531	0.531	10.0	1.00	1.00	03/19/22	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/19/22	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/19/22	KCA	1
Isopropylalcohol	0.928	0.407	0.407	2.28	1.00	1.00	03/19/22	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	03/19/22	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/19/22	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/19/22	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/19/22	KCA	1
Tetrachloroethene	0.046	0.037	0.037	0.31	0.25	0.25	03/19/22	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/19/22	KCA	1
Toluene	0.631	0.266	0.266	2.38	1.00	1.00	03/19/22	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/19/22	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/19/22	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/19/22	KCA	1
Trichlorofluoromethane	0.252	0.178	0.178	1.41	1.00	1.00	03/19/22	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/19/22	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/19/22	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	101	%	%	101	%	%	03/19/22	KCA	1
% IS-1,4-Difluorobenzene	87	%	%	87	%	%	03/19/22	KCA	1
% IS-Bromochloromethane	94	%	%	94	%	%	03/19/22	KCA	1
% IS-Chlorobenzene-d5	87	%	%	87	%	%	03/19/22	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 29, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 29, 2022

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 16010

Custody Information

Collected by: CS/JS
 Received by: CP
 Analyzed by: see "By" below

Date: 03/17/22 15:00
 03/18/22 17:58

Project ID: CINDERELLA
 Client ID: VP-2

Laboratory Data

SDG ID: GCK90290
 Phoenix ID: CK90299

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/19/22	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/19/22	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/19/22	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/19/22	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/19/22	KCA	1	
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/19/22	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/19/22	KCA	1	
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/19/22	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/19/22	KCA	1	
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/19/22	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1	
Acetone	9.53	0.421	0.421	22.6	1.00	1.00	03/19/22	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/19/22	KCA	1	
Benzene	0.329	0.313	0.313	1.05	1.00	1.00	03/19/22	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/19/22	KCA	1	

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	03/19/22	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/19/22	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/19/22	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/19/22	KCA	1
Carbon Tetrachloride	0.101	0.032	0.032	0.64	0.20	0.20	03/19/22	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/19/22	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/19/22	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/19/22	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	03/19/22	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/19/22	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/19/22	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/19/22	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/19/22	KCA	1
Dichlorodifluoromethane	0.487	0.202	0.202	2.41	1.00	1.00	03/19/22	KCA	1
Ethanol	60.1	E 0.531	0.531	113	1.00	1.00	03/19/22	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/19/22	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/19/22	KCA	1
Isopropylalcohol	9.38	0.407	0.407	23.0	1.00	1.00	03/19/22	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1
m,p-Xylene	0.236	0.230	0.230	1.02	1.00	1.00	03/19/22	KCA	1
Methyl Ethyl Ketone	0.725	0.339	0.339	2.14	1.00	1.00	03/19/22	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/19/22	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/19/22	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1
Styrene	0.979	0.235	0.235	4.17	1.00	1.00	03/19/22	KCA	1
Tetrachloroethene	0.075	0.037	0.037	0.51	0.25	0.25	03/19/22	KCA	1
Tetrahydrofuran	0.621	0.339	0.339	1.83	1.00	1.00	03/19/22	KCA	1
Toluene	2.24	0.266	0.266	8.44	1.00	1.00	03/19/22	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/19/22	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/19/22	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/19/22	KCA	1
Trichlorofluoromethane	0.261	0.178	0.178	1.47	1.00	1.00	03/19/22	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/19/22	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/19/22	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	103	%	%	103	%	%	03/19/22	KCA	1
% IS-1,4-Difluorobenzene	82	%	%	82	%	%	03/19/22	KCA	1
% IS-Bromochloromethane	92	%	%	92	%	%	03/19/22	KCA	1
% IS-Chlorobenzene-d5	90	%	%	90	%	%	03/19/22	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

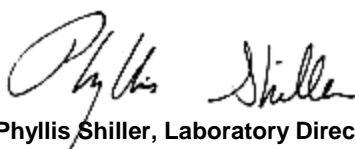
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 29, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 29, 2022

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 19635

Custody Information

Collected by: CS/JS
 Received by: CP
 Analyzed by: see "By" below

Date: 03/17/22 15:41
 03/18/22 17:58

Project ID: CINDERELLA
 Client ID: IA-4

Laboratory Data

SDG ID: GCK90290
 Phoenix ID: CK90300

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/19/22	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/19/22	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/19/22	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/19/22	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/19/22	KCA	1	
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/19/22	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/19/22	KCA	1	
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/19/22	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/19/22	KCA	1	
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/19/22	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1	
Acetone	3.66	0.421	0.421	8.69	1.00	1.00	03/19/22	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/19/22	KCA	1	
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/19/22	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/19/22	KCA	1	

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	03/19/22	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/19/22	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/19/22	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/19/22	KCA	1
Carbon Tetrachloride	0.084	0.032	0.032	0.53	0.20	0.20	03/19/22	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/19/22	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/19/22	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/19/22	KCA	1
Chloromethane	0.574	0.485	0.485	1.18	1.00	1.00	03/19/22	KCA	1
Cis-1,2-Dichloroethene	0.075	0.051	0.051	0.30	0.20	0.20	03/19/22	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/19/22	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/19/22	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/19/22	KCA	1
Dichlorodifluoromethane	0.529	0.202	0.202	2.61	1.00	1.00	03/19/22	KCA	1
Ethanol	12.4	0.531	0.531	23.3	1.00	1.00	03/19/22	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/19/22	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/19/22	KCA	1
Isopropylalcohol	1.64	0.407	0.407	4.03	1.00	1.00	03/19/22	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	03/19/22	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/19/22	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Propylene	1.06	0.581	0.581	1.82	1.00	1.00	03/19/22	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/19/22	KCA	1
Tetrachloroethene	0.351	0.037	0.037	2.38	0.25	0.25	03/19/22	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/19/22	KCA	1
Toluene	0.785	0.266	0.266	2.96	1.00	1.00	03/19/22	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/19/22	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/19/22	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/19/22	KCA	1
Trichlorofluoromethane	0.262	0.178	0.178	1.47	1.00	1.00	03/19/22	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/19/22	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/19/22	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	105	%	%	105	%	%	03/19/22	KCA	1
% IS-1,4-Difluorobenzene	83	%	%	83	%	%	03/19/22	KCA	1
% IS-Bromochloromethane	94	%	%	94	%	%	03/19/22	KCA	1
% IS-Chlorobenzene-d5	88	%	%	88	%	%	03/19/22	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 29, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 29, 2022

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 480
 Project ID: CINDERELLA
 Client ID: IA-1D

Custody Information

Collected by: CS/JS
 Received by: CP
 Analyzed by: see "By" below

Date: 03/17/22 15:04
 03/18/22 17:58

Laboratory Data

SDG ID: GCK90290
 Phoenix ID: CK90301

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/19/22	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/19/22	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/19/22	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/19/22	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/19/22	KCA	1	
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/19/22	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/19/22	KCA	1	
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/19/22	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/19/22	KCA	1	
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/19/22	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1	
Acetone	7.78	0.421	0.421	18.5	1.00	1.00	03/19/22	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/19/22	KCA	1	
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/19/22	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/19/22	KCA	1	

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	03/19/22	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/19/22	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/19/22	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/19/22	KCA	1
Carbon Tetrachloride	0.086	0.032	0.032	0.54	0.20	0.20	03/19/22	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/19/22	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/19/22	KCA	1
Chloroform	0.227	0.205	0.205	1.11	1.00	1.00	03/19/22	KCA	1
Chloromethane	0.612	0.485	0.485	1.26	1.00	1.00	03/19/22	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/19/22	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/19/22	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/19/22	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/19/22	KCA	1
Dichlorodifluoromethane	0.468	0.202	0.202	2.31	1.00	1.00	03/19/22	KCA	1
Ethanol	63.9	E 0.531	0.531	120	1.00	1.00	03/19/22	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/19/22	KCA	1
Hexane	0.307	0.284	0.284	1.08	1.00	1.00	03/19/22	KCA	1
Isopropylalcohol	7.45	0.407	0.407	18.3	1.00	1.00	03/19/22	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Methyl Ethyl Ketone	0.643	0.339	0.339	1.90	1.00	1.00	03/19/22	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1
Methylene Chloride	1.43	0.863	0.863	4.96	3.00	3.00	03/19/22	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/19/22	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1
Styrene	0.253	0.235	0.235	1.08	1.00	1.00	03/19/22	KCA	1
Tetrachloroethene	0.089	0.037	0.037	0.60	0.25	0.25	03/19/22	KCA	1
Tetrahydrofuran	0.519	0.339	0.339	1.53	1.00	1.00	03/19/22	KCA	1
Toluene	0.704	0.266	0.266	2.65	1.00	1.00	03/19/22	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/19/22	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/19/22	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/19/22	KCA	1
Trichlorofluoromethane	0.236	0.178	0.178	1.33	1.00	1.00	03/19/22	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/19/22	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/19/22	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	100	%	%	100	%	%	03/19/22	KCA	1
% IS-1,4-Difluorobenzene	97	%	%	97	%	%	03/19/22	KCA	1
% IS-Bromochloromethane	104	%	%	104	%	%	03/19/22	KCA	1
% IS-Chlorobenzene-d5	95	%	%	95	%	%	03/19/22	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 29, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

April 29, 2022

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 23340
 Project ID: CINDERELLA
 Client ID: AMBIENT

Custody Information

Collected by: CS/JS
 Received by: CP
 Analyzed by: see "By" below

Date: 03/17/22 15:49
 03/18/22 17:58

Laboratory Data

SDG ID: GCK90290
 Phoenix ID: CK90302

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/19/22	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/19/22	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/19/22	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/19/22	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/19/22	KCA	1	
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/19/22	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/19/22	KCA	1	
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/19/22	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/19/22	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/19/22	KCA	1	
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/19/22	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/19/22	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1	
Acetone	4.78	0.421	0.421	11.3	1.00	1.00	03/19/22	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/19/22	KCA	1	
Benzene	0.456	0.313	0.313	1.46	1.00	1.00	03/19/22	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/19/22	KCA	1	

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	03/19/22	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/19/22	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/19/22	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/19/22	KCA	1
Carbon Tetrachloride	0.083	0.032	0.032	0.52	0.20	0.20	03/19/22	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/19/22	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/19/22	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/19/22	KCA	1
Chloromethane	0.588	0.485	0.485	1.21	1.00	1.00	03/19/22	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/19/22	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/19/22	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/19/22	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/19/22	KCA	1
Dichlorodifluoromethane	0.536	0.202	0.202	2.65	1.00	1.00	03/19/22	KCA	1
Ethanol	11.9	0.531	0.531	22.4	1.00	1.00	03/19/22	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/19/22	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/19/22	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/19/22	KCA	1
Isopropylalcohol	1.63	0.407	0.407	4.00	1.00	1.00	03/19/22	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/19/22	KCA	1
m,p-Xylene	0.406	0.230	0.230	1.76	1.00	1.00	03/19/22	KCA	1
Methyl Ethyl Ketone	0.434	0.339	0.339	1.28	1.00	1.00	03/19/22	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/19/22	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/19/22	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/19/22	KCA	1
Propylene	1.80	0.581	0.581	3.10	1.00	1.00	03/19/22	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/19/22	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/19/22	KCA	1
Tetrachloroethene	0.060	0.037	0.037	0.41	0.25	0.25	03/19/22	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/19/22	KCA	1
Toluene	0.979	0.266	0.266	3.69	1.00	1.00	03/19/22	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/19/22	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/19/22	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/19/22	KCA	1
Trichlorofluoromethane	0.282	0.178	0.178	1.58	1.00	1.00	03/19/22	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/19/22	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/19/22	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	103	%	%	103	%	%	03/19/22	KCA	1
% IS-1,4-Difluorobenzene	81	%	%	81	%	%	03/19/22	KCA	1
% IS-Bromochloromethane	91	%	%	91	%	%	03/19/22	KCA	1
% IS-Chlorobenzene-d5	86	%	%	86	%	%	03/19/22	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 29, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

April 29, 2022

QA/QC Data

SDG I.D.: GCK90290

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 616494 (ppbv), QC Sample No: CK90281 (CK90290, CK90291, CK90292 (1X, 5X), CK90293, CK90294, CK90295, CK90296, CK90297, CK90298, CK90299, CK90300, CK90301, CK90302)

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	101	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	96	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	99	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	97	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	100	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	148	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	114	1.39	1.34	0.283	0.272	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	109	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	101	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	99	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	103	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	108	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	103	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	108	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	125	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	95	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	113	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	113	1.64	1.57	0.333	0.320	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	111	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	110	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	97	116 E	116	48.8 E	48.7	0.2	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	99	ND	ND	ND	ND	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	108	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	97	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	103	0.46	0.47	0.073	0.074	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	103	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	97	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	99	1.19	1.11	0.579	0.539	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	102	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	96	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	102	2.26	2.23	0.457	0.451	NC	70 - 130	25

QA/QC Data

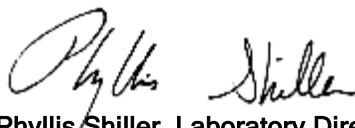
SDG I.D.: GCK90290

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethanol	ND	0.530	ND	1.00	118	44.3	43.3	23.5	23.0	2.2	70 - 130	25
Ethyl acetate	ND	0.280	ND	1.01	111	2.54	2.61	0.704	0.724	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	110	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	110	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	127	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	110	3.33	3.35	0.944	0.950	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	111	8.72	8.48	3.55	3.45	2.9	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	103	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	105	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	104	16.2	16.1	4.68	4.64	0.9	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	112	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	107	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	113	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	101	3.28	3.61	0.484	0.532	9.4	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	110	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	102	1.36	1.27	0.361	0.338	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	102	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	101	7.52	7.52	1.40	1.40	0.0	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	104	1.22	1.24	0.217	0.220	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	101	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	98	%	98	%	105	99	99	99	99	NC	70 - 130	25
% IS-1,4-Difluorobenzene	105	%	105	%	107	98	97	98	97	NC	60 - 140	25
% IS-Bromochloromethane	102	%	102	%	104	100	101	100	101	NC	60 - 140	25
% IS-Chlorobenzene-d5	103	%	103	%	113	98	98	98	98	NC	60 - 140	25

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 April 29, 2022

Sample Criteria Exceedances Report

GCK90290 - FPMGROUP

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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Telephone: 860.645.1102 • Fax: 860.645.0823

NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE

Client: FPM Group

CINDERELLA

Laboratory Project: GCK90290

Volatile TO15
Ver 1

Organic Data Flags

LOD(MDL): Limit of Detection or Method Detection Limit
The minimum reportable concentration that can be measured with confidence.

PQL(RL): Practical Quantitation Level or Reporting Level
This value is at or above the MDL and is supported by the lowest calibration standard.

Q Qualifiers:

- U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the "U" represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors.
- J - Indicates an estimated value, may indicate one of the following, depending on the situation:
 - a) The reported value is estimated and below the RL.
Compounds that are detected above MDL but below RL are qualified with a J flag.
 - b) Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
 - c) QC associated with this analyte is within warning limits.
- X - The concentration is not reported. This quantitation file was not evaluated for this compound at this dilution; a volatile purging or related issue may be the cause.
- L - Biased Low
- N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.
- S - This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level.
- B - This compound was also present in the method blank
- D - The reported concentration is the result of a diluted analysis. Samples that require dilution may result in elevated reporting limits that exceed requested criteria for one or more analytes.
- E - The reported value is estimated because the concentration exceeded the calibration range.
- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.
- P - Percent difference is greater than 25% between the two GC columns and the lower result is reported.



Environmental Laboratories, Inc.
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SDG: GCK90290

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: CINDERELLA, FPM Group

Form 1 (Analysis):

No observations noted.

Form 2 (Surrogates):

All surrogates met criteria with the following exceptions: None.

Form 3 (Laboratory Control/Matrix Spike):

Sample: CK90281 LCS
All LCS recoveries met criteria with the following exceptions: 1,2,4-Trichlorobenzene 156%

Form 4 (Method Blank):

File: CHEM20 0319_04.D
All compounds were non-detect with the following exceptions: None.

Form 5 (Tune):

File: CHEM20 0317_02.D
All Tune criteria was met with the following exceptions: None.

File: CHEM20 0319_01.D
All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

Calibration: CHEM20 03/17/22 - 03/18/22
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Form 7 (Continuing Calibration):

File: CHEM20 0319_01.D (Opening)
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: 1,2,4-Trichlorobenzene(sim) 23.0% (20)

Form 8 (Internal Standard and Retention Time):

File: CHEM20 - 20_AIR_0317.M / 0319_01.D Full
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_0317.M / 0319_01.D Sim
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_0317.M / Average Full
All samples met internal standard area and retention time criteria with the following exceptions: None.



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SDG: GCK90290

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: CINDERELLA, FPM Group

File: CHEM20 - 20_AIR_0317.M / Average Sim

All samples met internal standard area and retention time criteria with the following exceptions: None.

04/08/22

Alejandro Paredes
Project Manager

2C
AIR SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SDG: GCK90290
 QC Batch Id: 616494 QC Sample Id: CK90281

	CLIENT ID	LAB ID	SMC1 BFB #			TOT OUT
01	CK90281 LCS	CK90281 LCS	105			0
02	CK90281 BLANK	CK90281 BLANK	98			0
03	CK90281 QC	CK90281 QC	99			0
04	90281 dup	CK90281 DUP	99			0
05	IA-4	CK90300	105			0
06	IA-1D	CK90301	100			0
07	AMBIENT	CK90302	103			0
08	IA-1	CK90293	101			0
09	IA-2	CK90296	99			0
10	IA-3	CK90298	101			0
11	VP-1 5X	CK90292 5X	102			0
12	VP-2	CK90299	103			0
13	VP-4	CK90290	104			0
14	VP-3	CK90291	100			0
15	VP-1	CK90292	101			0
16	VP-5	CK90294	101			0
17	VP-8	CK90295	103			0
18	VP-7	CK90297	103			0
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

SMC1 BFB Bromofluorobenzene QC LIMITS
(70-130)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

FORM II AIR

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No GCK90290

LCS - Client Id: CK90281 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		10.61	106	70	130
Dichlorodifluoromethane	10		10.15	102	70	130
Chloromethane	10		9.890	99	70	130
1,2-Dichlorotetrafluoroethane	10		10.33	103	70	130
Vinyl Chloride	10		10.09	101	70	130
1,3-Butadiene	10		10.30	103	70	130
Bromomethane	10		9.651	97	70	130
Chloroethane	10		9.640	96	70	130
Ethanol	7		7.841	112	70	130
Acetone	10		9.730	97	70	130
Trichlorofluoromethane	10		10.36	104	70	130
Isopropylalcohol	9		9.944	110	70	130
Acrylonitrile	10		10.07	101	70	130
1,1-Dichloroethene	10		10.01	100	70	130
Methylene Chloride	10		10.38	104	70	130
Carbon Disulfide	10		9.985	100	70	130
Trichlorotrifluoroethane	10		9.546	95	70	130
Trans-1,2-Dichloroethene	10		10.24	102	70	130
1,1-Dichloroethane	10		9.742	97	70	130
Methyl tert-butyl ether(MTBE)	10		10.49	105	70	130
Methyl Ethyl Ketone	10		10.34	103	70	130
Cis-1,2-Dichloroethene	10		10.22	102	70	130
Hexane	10		10.99	110	70	130
Chloroform	10		9.710	97	70	130
Ethyl acetate	10		11.10	111	70	130
Tetrahydrofuran	10		11.01	110	70	130
1,2-Dichloroethane	10		10.06	101	70	130
1,1,1-Trichloroethane	10		10.01	100	70	130
Benzene	10		9.888	99	70	130
Carbon Tetrachloride	10		10.27	103	70	130
Cyclohexane	10		9.329	93	70	130
1,2-dichloropropane	10		9.904	99	70	130
Bromodichloromethane	10		9.774	98	70	130
Trichloroethene	10		10.07	101	70	130
1,4-Dioxane	10		9.525	95	70	130
Heptane	10		10.99	110	70	130
cis-1,3-Dichloropropene	10		10.20	102	70	130
4-Methyl-2-pentanone(MIBK)	10		10.95	110	70	130
trans-1,3-Dichloropropene	10		10.23	102	70	130
1,1,2-Trichloroethane	10		9.901	99	70	130
Toluene	10		10.21	102	70	130
Dibromochloromethane	10		9.639	96	70	130
2-Hexanone(MBK)	10		11.29	113	70	130
1,2-Dibromoethane(EDB)	10		9.984	100	70	130

FORM III AIR

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No: GCK90290

LCS - Client Id: CK90281 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Tetrachloroethene	10		10.12	101	70	130
1,1,1,2-Tetrachloroethane	10		10.05	101	70	130
Chlorobenzene	10		10.25	103	70	130
Ethylbenzene	10		11.05	111	70	130
m,p-Xylene	20		22.19	111	70	130
Bromoform	10		10.83	108	70	130
Styrene	10		11.34	113	70	130
1,1,2,2-Tetrachloroethane	10		9.615	96	70	130
o-Xylene	10		11.11	111	70	130
Isopropylbenzene	10		10.27	103	70	130
4-Ethyltoluene	10		11.34	113	70	130
1,3,5-Trimethylbenzene	10		10.79	108	70	130
1,2,4-Trimethylbenzene	10		11.39	114	70	130
Benzyl chloride	10		10.81	108	70	130
1,3-Dichlorobenzene	10		10.85	109	70	130
1,4-Dichlorobenzene	10		12.54	125	70	130
sec-Butylbenzene	10		10.73	107	70	130
4-Isopropyltoluene	10		11.05	111	70	130
1,2-Dichlorobenzene	10		10.88	109	70	130
n-Butylbenzene	10		11.18	112	70	130
1,2,4-Trichlorobenzene	7		10.91	156 *	70	130
Hexachlorobutadiene	8		9.715	121	70	130

4A
AIR METHOD BLANK SUMMARY

Client ID

CK90281 BLANK

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK90290

Lab File ID: 0319_04.D

Lab Sample ID: CK90281 BLK

Date Analyzed: 03/19/2022

Time Analyzed: 08:45

GC Column: RTX-1 60M

Lab Batch ID: 616494

Instrument ID: CHEM20

Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING QC AND FIELD SAMPLES:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CK90281 LCS	CK90281 LCS	0319_03.D	08:10
02	CK90281 QC	CK90281	0319_09.D	11:42
03	90281 dup	CK90281 DUP	0319_10.D	12:17
04	IA-4	CK90300	0319_13.D	14:01
05	IA-1D	CK90301	0319_14.D	14:36
06	AMBIENT	CK90302	0319_15.D	15:11
07	IA-1	CK90293	0319_16.D	15:46
08	IA-2	CK90296	0319_17.D	16:21
09	IA-3	CK90298	0319_18.D	16:56
10	VP-1 5X	CK90292 5X	0319_27.D	21:44
11	VP-2	CK90299	0319_31.D	23:56
12	VP-4	CK90290	0319_34.D	01:39
13	VP-3	CK90291	0319_35.D	02:13
14	VP-1	CK90292	0319_36.D	02:49
15	VP-5	CK90294	0319_37.D	03:24
16	VP-8	CK90295	0319_38.D	03:59
17	VP-7	CK90297	0319_39.D	04:34
18				
19				
20				

COMMENTS:

FORM IV AIR

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCK90290
 Lab File ID: 0317_02.D BFB Injection Date: 03/17/22
 Instrument ID: CHEM20 BFB Injection Time: 17:08
 GC Column: RTX-1 60M Heated Purge: (Y/N) Y

AutoFind: Scans 784, 785, 786; Background Corrected with Scan 779

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	30.3
75	30.0 - 66.0% of mass 95	49.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	89.2
175	4.0 - 9.0% of mass 174	8.0 (7.1)1
176	93.0 - 101.0% of mass 174	98.1 (87.5)1
177	5.0 - 9.0% of mass 176	6.8 (5.9)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ICAL 0.01	0.01 (40cc-1)	0317_03.D	03/17/22	17:39
02	ICAL 0.02	0.02 (80cc-1)	0317_04.D	03/17/22	18:12
03	ICAL 0.035	0.035 (140cc-1)	0317_05.D	03/17/22	18:45
04	ICAL 0.05	0.05 ppb ; AIR	0317_06.D	03/17/22	19:20
05	ICAL 0.1	0.10 ppb ; AIR	0317_09.D	03/17/22	19:51
06	ICAL 0.2	0.20 ppb ; AIR	0317_10.D	03/17/22	20:23
07	ICAL 0.5	0.50 ppb ; AIR	0317_11.D	03/17/22	20:57
08	ICAL 2.5	2.5 ppb ; AIR	0317_12.D	03/17/22	21:31
09	ICAL 5	5.0 ppb ; AIR	0317_13.D	03/17/22	22:03
10	ICAL 25	25 ppb ; AIR	0317_14.D	03/17/22	22:37
11	ICAL 40	40 ppb ; AIR	0317_15.D	03/17/22	23:13
12	ICAL 1	1.0 ppb ; AIR	0317_16.D	03/17/22	23:45
13	ICAL 10	10 ppb ; AIR	0317_17.D	03/18/22	00:17
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : C:\AIR2022\CHEM20\03MAR\17a\
 Data File : 0317_02.D
 Acq On : 17 Mar 2022 5:08 pm
 Operator :
 Sample : 0/0
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: rteint.p
 Integration File signal 2: rteint2.p

Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 18 08:32:33 2022

AutoFind: Scans 784, 785, 786; Background Corrected with Scan 779

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	30.3	98253	PASS
75	95	30	66	49.6	160715	PASS
95	95	100	100	100.0	323819	PASS
96	95	5	9	6.7	21596	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	89.2	288917	PASS
175	174	4	9	7.9	22960	PASS
176	174	93	101	98.1	283285	PASS
177	176	5	9	6.8	19153	PASS

20_AIR_0317.M Fri Mar 18 08:36:40 2022

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCK90290

Lab File ID: 0319_01.D

BFB Injection Date: 03/19/22

Instrument ID: CHEM20

BFB Injection Time: 07:04

GC Column: RTX-1 60M

Heated Purge: (Y/N) Y

AutoFind: Scans 784, 785, 786; Background Corrected with Scan 778

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	34.0
75	30.0 - 66.0% of mass 95	50.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	93.9
175	4.0 - 9.0% of mass 174	7.5 (7.0)1
176	93.0 - 101.0% of mass 174	99.1 (93.1)1
177	5.0 - 9.0% of mass 176	6.5 (6.1)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCAL 1	1.0ppb cc	0319_01.D	03/19/22	07:04
02	CK90281 LCS	CK90281 LCS	0319_03.D	03/19/22	08:10
03	CK90281 BLANK	CK90281 BLANK	0319_04.D	03/19/22	08:45
04	CK90281 QC	CK90281 QC	0319_09.D	03/19/22	11:42
05	90281 dup	CK90281 DUP	0319_10.D	03/19/22	12:17
06	IA-4	CK90300	0319_13.D	03/19/22	14:01
07	IA-1D	CK90301	0319_14.D	03/19/22	14:36
08	AMBIENT	CK90302	0319_15.D	03/19/22	15:11
09	IA-1	CK90293	0319_16.D	03/19/22	15:46
10	IA-2	CK90296	0319_17.D	03/19/22	16:21
11	IA-3	CK90298	0319_18.D	03/19/22	16:56
12	VP-1 5X	CK90292 5X	0319_27.D	03/19/22	21:44
13	VP-2	CK90299	0319_31.D	03/19/22	23:56
14	VP-4	CK90290	0319_34.D	03/20/22	01:39
15	VP-3	CK90291	0319_35.D	03/20/22	02:13
16	VP-1	CK90292	0319_36.D	03/20/22	02:49
17	VP-5	CK90294	0319_37.D	03/20/22	03:24
18	VP-8	CK90295	0319_38.D	03/20/22	03:59
19	VP-7	CK90297	0319_39.D	03/20/22	04:34
20					
21					
22					
23					
24					
25					

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_01.D
 Acq On : 19 Mar 2022 7:04 am
 Operator :
 Sample : 1.0ppb cc
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Integration File signal 1: rteint.p
 Integration File signal 2: rteint2.p

Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 18 08:42:58 2022

AutoFind: Scans 784, 785, 786; Background Corrected with Scan 778

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	34.0	111069	PASS
75	95	30	66	50.0	163443	PASS
95	95	100	100	100.0	326976	PASS
96	95	5	9	6.5	21312	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	93.9	307179	PASS
175	174	4	9	7.5	23008	PASS
176	174	93	101	99.1	304512	PASS
177	176	5	9	6.5	19897	PASS

20_AIR_0317.M Sat Mar 19 10:29:36 2022

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCK90290
 Lab Method / File Id: 20_AIR_0317.M / Average Date Analyzed: 03/17/22
 Instrument ID: CHEM20 Time Analyzed: 23:45
 GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			LAB FILE ID
REFERENCE STD	335301	7.71	1231439	8.86	638655	11.31			Average
UPPER LIMIT	471098	8.04	1730172	9.19	897310	11.64			Average
LOWER LIMIT	199504	7.38	732706	8.53	380000	10.98			Average
CLIENT ID									
01 ICAL 0.2	327374	7.71	1170081	8.86	551392	11.31			0317_10.D
02 ICAL 0.5	324346	7.71	1153861	8.86	551702	11.31			0317_11.D
03 ICAL 2.5	328076	7.71	1176281	8.86	572992	11.31			0317_12.D
04 ICAL 5	329802	7.71	1233008	8.86	613123	11.31			0317_13.D
05 ICAL 25	335206	7.71	1277678	8.86	734076	11.31			0317_14.D
06 ICAL 40	336452	7.72	1298783	8.86	799840	11.31			0317_15.D
07 ICAL 1	351342	7.71	1244667	8.86	611747	11.31			0317_16.D
08 ICAL 10	349813	7.72	1297155	8.86	674365	11.31			0317_17.D
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCK90290
 Lab Method / File Id: 20_AIR_0317.M / Average Date Analyzed: 03/17/22
 Instrument ID: CHEM20 Time Analyzed: 23:45
 GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			LAB FILE ID
REFERENCE STD	359842	7.71	1194322	8.86	575382	11.31			Average
UPPER LIMIT	505577	8.04	1678023	9.19	808411	11.64			Average
LOWER LIMIT	214106	7.38	710622	8.53	342352	10.98			Average
CLIENT ID									
01 ICAL 0.01	351093	7.72	1165160	8.86	555811	11.31			0317_03.D
02 ICAL 0.02	352797	7.72	1165715	8.86	553136	11.31			0317_04.D
03 ICAL 0.035	355270	7.72	1184976	8.86	547862	11.31			0317_05.D
04 ICAL 0.05	354246	7.71	1169880	8.86	545118	11.31			0317_06.D
05 ICAL 0.1	358624	7.72	1177437	8.86	551951	11.31			0317_09.D
06 ICAL 0.2	360719	7.71	1170081	8.86	551392	11.31			0317_10.D
07 ICAL 0.5	355143	7.72	1153861	8.86	551702	11.31			0317_11.D
08 ICAL 2.5	354944	7.71	1175618	8.86	572992	11.31			0317_12.D
09 ICAL 5	364424	7.72	1232997	8.86	613123	11.31			0317_13.D
10 ICAL 1	376353	7.72	1244667	8.86	611747	11.31			0317_16.D
11 ICAL 10	374644	7.71	1297155	8.86	674365	11.31			0317_17.D
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCK90290
 Lab Method / File Id: 20_AIR_0317.M / 0319_01.D Date Analyzed: 03/19/22
 Instrument ID: CHEM20 Time Analyzed: 7:04
 GC Column: RTX-1 60M ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #		LAB FILE ID
REFERENCE STD	287170	7.71	1045810	8.86	495258	11.31		0319_01.D
UPPER LIMIT	403474	8.04	1469363	9.19	695837	11.64		0319_01.D
LOWER LIMIT	170866	7.38	622257	8.53	294679	10.98		0319_01.D
CLIENT ID								
01 CCAL 1	287170	7.71	1045810	8.86	495258	11.31		0319_01.D
02 CK90281 LCS	298392	7.71	1120747	8.86	559202	11.31		0319_03.D
03 CK90281 BLANK	293005	7.71	1102669	8.86	511988	11.30		0319_04.D
04 CK90281 QC	288004	7.72	1019678	8.86	486386	11.31		0319_09.D
05 90281 dup	289073	7.72	1010890	8.86	485098	11.31		0319_10.D
06 IA-4	271199	7.72	872261	8.86	434409	11.31		0319_13.D
07 IA-1D	297329	7.72	1011261	8.86	471082	11.31		0319_14.D
08 AMBIENT	260606	7.71	848895	8.86	426394	11.31		0319_15.D
09 IA-1	273887	7.72	942067	8.86	455499	11.31		0319_16.D
10 IA-2	284778	7.72	977676	8.86	446745	11.31		0319_17.D
11 IA-3	271263	7.72	914006	8.86	431941	11.31		0319_18.D
12 VP-1 5X	276168	7.72	931657	8.86	430424	11.31		0319_27.D
13 VP-2	265426	7.72	862360	8.86	447047	11.31		0319_31.D
14 VP-4	272642	7.72	946795	8.86	435394	11.30		0319_34.D
15 VP-3	280910	7.72	966243	8.86	452470	11.31		0319_35.D
16 VP-1	287792	7.72	982167	8.86	458069	11.31		0319_36.D
17 VP-5	267023	7.72	907695	8.86	423833	11.31		0319_37.D
18 VP-8	271538	7.72	921783	8.86	449913	11.31		0319_38.D
19 VP-7	270839	7.72	893434	8.86	434312	11.31		0319_39.D
20								
21								
22								

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCK90290
 Lab Method / File Id: 20_AIR_0317.M / 0319_01.D Date Analyzed: 03/19/22
 Instrument ID: CHEM20 Time Analyzed: 7:04
 GC Column: RTX-1 60M ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #		LAB FILE ID
REFERENCE STD	316253	7.71	1045693	8.86	495258	11.31		0319_01.D
UPPER LIMIT	444335	8.04	1469199	9.19	695837	11.64		0319_01.D
LOWER LIMIT	188171	7.38	622187	8.53	294679	10.98		0319_01.D
CLIENT ID								
01 CCAL 1	316253	7.71	1045693	8.86	495258	11.31		0319_01.D
02 CK90281 LCS	322049	7.71	1120747	8.86	558838	11.31		0319_03.D
03 CK90281 BLANK	319389	7.72	1102669	8.86	511988	11.30		0319_04.D
04 CK90281 QC	315511	7.73	1019678	8.86	486386	11.31		0319_09.D
05 90281 dup	317751	7.73	1010890	8.86	485201	11.31		0319_10.D
06 IA-4	290339	7.71	872261	8.86	434409	11.31		0319_13.D
07 IA-1D	318747	7.73	1011261	8.86	471082	11.31		0319_14.D
08 AMBIENT	284681	7.71	848725	8.86	426394	11.31		0319_15.D
09 IA-1	299545	7.73	942202	8.86	455499	11.31		0319_16.D
10 IA-2	307603	7.73	977676	8.86	446745	11.31		0319_17.D
11 IA-3	295551	7.72	914006	8.86	431941	11.31		0319_18.D
12 VP-1 5X	302645	7.73	931544	8.86	430424	11.31		0319_27.D
13 VP-2	288504	7.73	862360	8.86	447047	11.31		0319_31.D
14 VP-4	300084	7.72	946795	8.86	435394	11.30		0319_34.D
15 VP-3	308934	7.72	966243	8.86	452470	11.31		0319_35.D
16 VP-1	316005	7.73	982167	8.86	458069	11.31		0319_36.D
17 VP-5	293826	7.72	907695	8.86	423833	11.31		0319_37.D
18 VP-8	302245	7.73	921787	8.86	450064	11.31		0319_38.D
19 VP-7	293642	7.73	893434	8.86	434312	11.31		0319_39.D
20								
21								
22								

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

1
AIR ANALYSIS DATA SHEET

CLIENT ID

VP-4

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90290
Canister:	28578	Lab File ID:	0319_34.D
Instrument:	CHEM20	Column:	RTX-1 60M
		Date Received:	03/18/22
Purge Volume	200 (cc)	Date Analyzed:	03/20/22
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.508		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	34.9	S	0.531	0.531	r
67-64-1	Acetone	5.88	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.248		0.178	0.178	r
67-63-0	Isopropylalcohol	7.06	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.510		0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.458		0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.382		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	1.30		0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

VP-4

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCK90290</u>	Lab Sample ID:	<u>CK90290</u>
Canister:	<u>28578</u>	Lab File ID:	<u>0319_34.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
		Date Received:	<u>03/18/22</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>03/20/22</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.083		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.062		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_34.D
 Acq On : 20 Mar 2022 1:39 am
 Operator :
 Client ID : VP-4
 Lab ID : CK90290
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 20 09:09:02 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

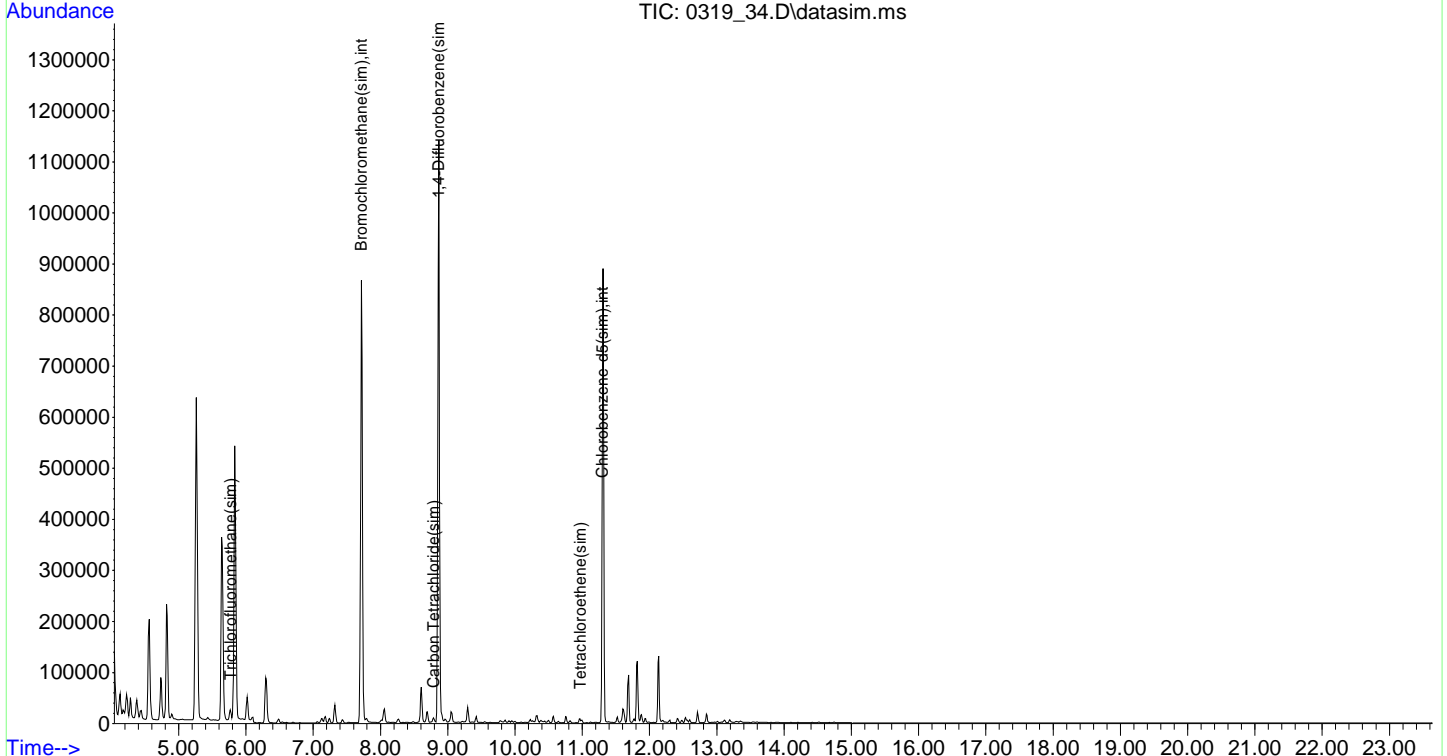
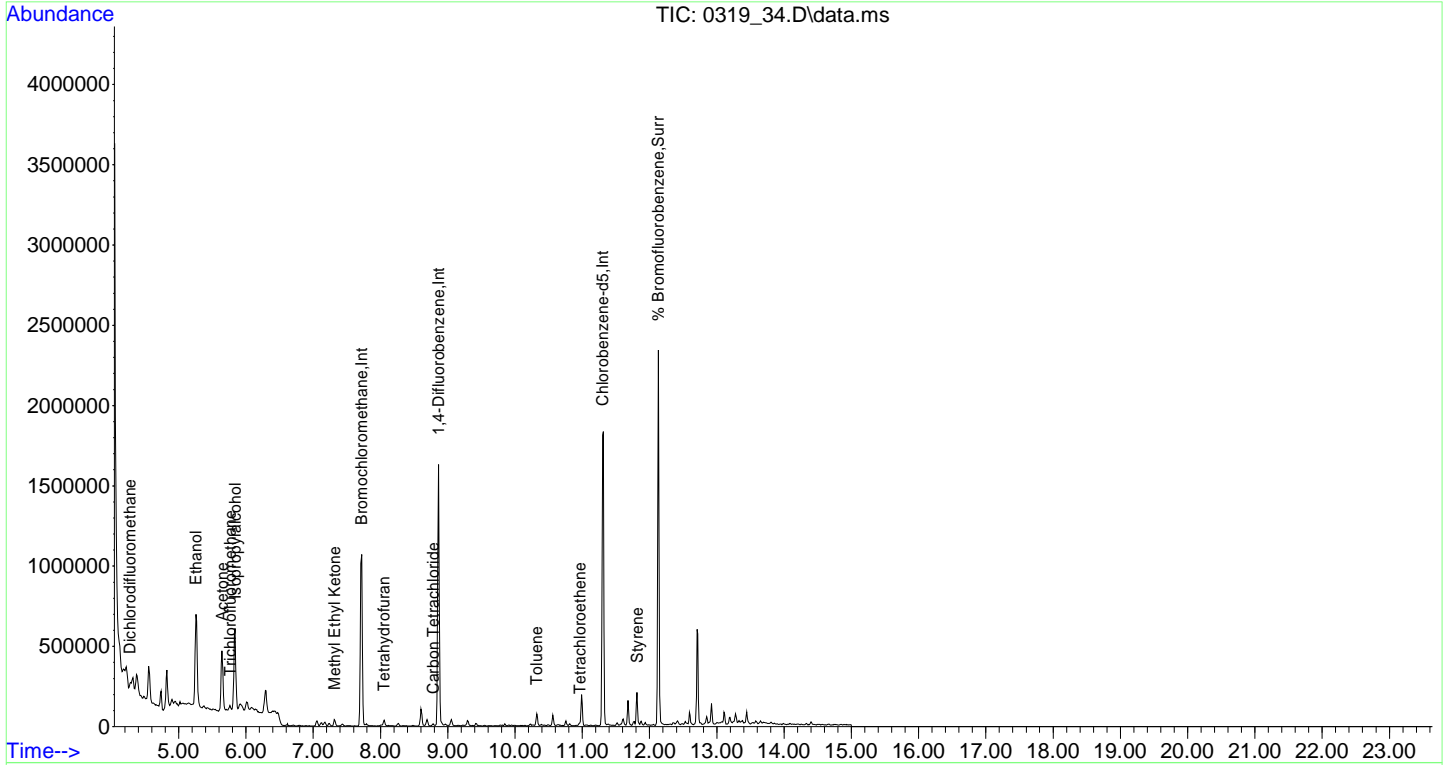
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.720	130	272642	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	946795	10.000	ng	0.00
54) Chlorobenzene-d5	11.301	82	435394	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	300084	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	946795	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.301	82	435394	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	579023	10.354	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	103.50%	
Target Compounds						
3) Dichlorodifluoromethane	4.275	85	37025	0.508	ppbv	97
11) Ethanol	5.256	45	759164	34.870	ppbv	96
12) Acetone	5.644	43	446653	5.877	ppbv	91
13) Trichlorofluoromethane	5.763	101	19285	0.248	ppbv	99
14) Isopropylalcohol	5.838	45	659765	7.057	ppbv	99
26) Methyl Ethyl Ketone	7.314	43	50386	0.510	ppbv#	93
31) Tetrahydrofuran	8.053	42	24003	0.458	ppbv#	82
35) Carbon Tetrachloride	8.783	117	5876	0.082	ppbv	97
49) Toluene	10.322	91	35539	0.382	ppbv#	97
53) Tetrachloroethene	10.961	166	4105	0.079	ppbv#	87
60) Styrene	11.814	104	76200	1.297	ppbv	95
85] Trichlorofluoromethane...	5.768	101	20231	0.242	ppbv#	99
89] Carbon Tetrachloride(sim)	8.789	117	6112	0.083	ppbv	97
105] Tetrachloroethene(sim)	10.967	166	4429	0.062	ppbv	94

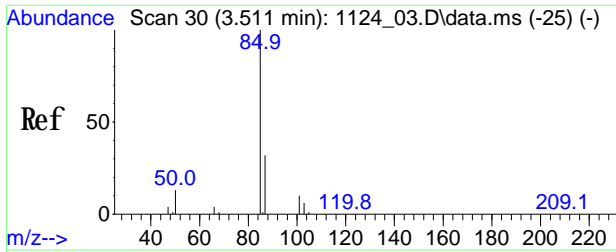
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0319_34.D
Acq On : 20 Mar 2022 1:39 am
Operator :
Client ID : VP-4
Lab ID : CK90290
ALS Vial : 26 Sample Multiplier: 1

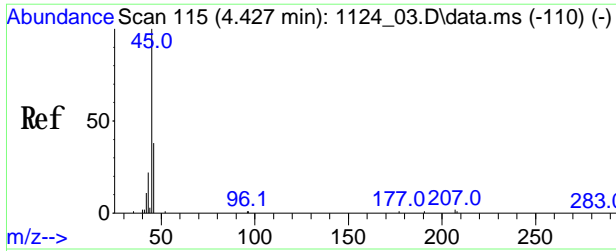
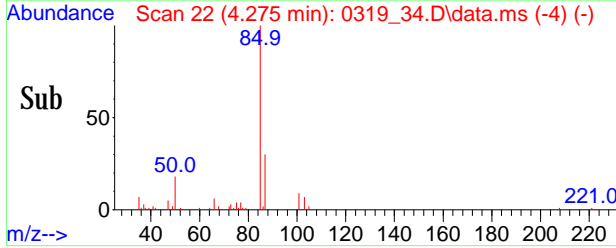
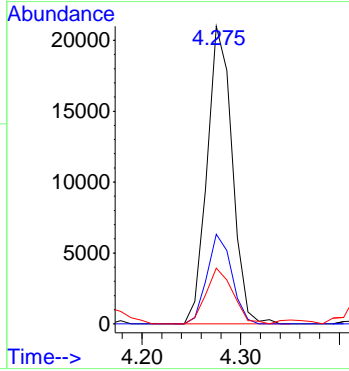
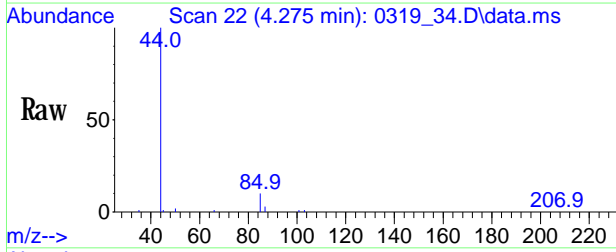
Quant Time: Mar 20 09:09:02 2022
Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 18 08:43:01 2022
Response via : Initial Calibration





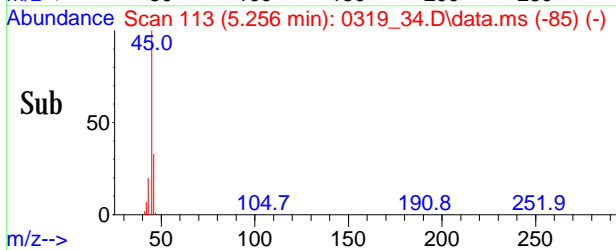
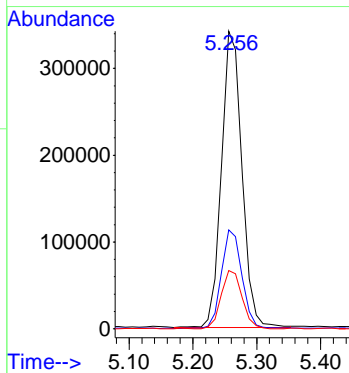
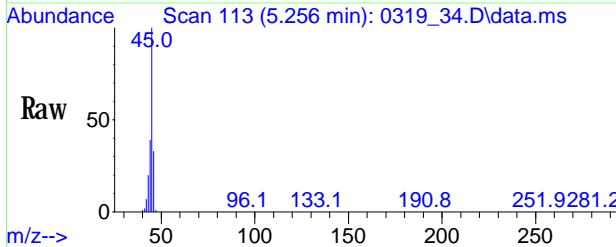
#3
 Dichlorodifluoromethane
 Conc: 8S 0.508 ppbv
 RT: 4.275 min Scan# 22
 Delta R.T. -0.011 min
 Lab File: 0319_34.D
 Acq: 20 Mar 2022 1:39 am

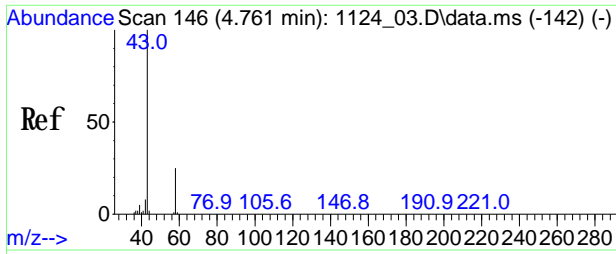
Tgt Ion	Ratio	Lower	Upper
85	100		
87	29.7	26.0	39.0
50	20.1	16.2	24.4



#11
 Ethanol
 Conc: 8S 34.870 ppbv
 RT: 5.256 min Scan# 113
 Delta R.T. 0.000 min
 Lab File: 0319_34.D
 Acq: 20 Mar 2022 1:39 am

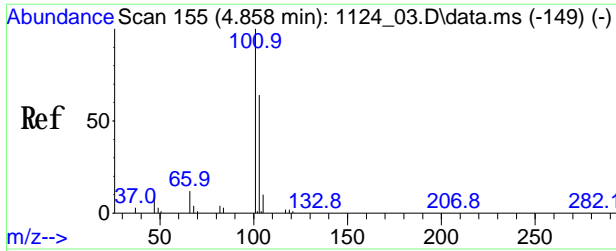
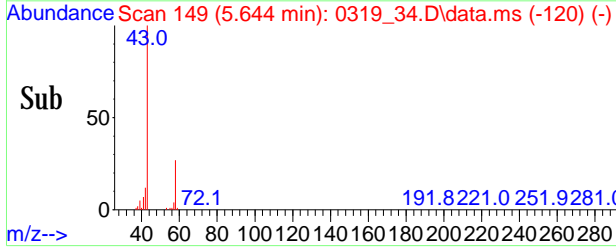
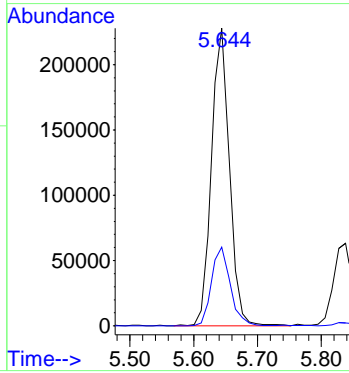
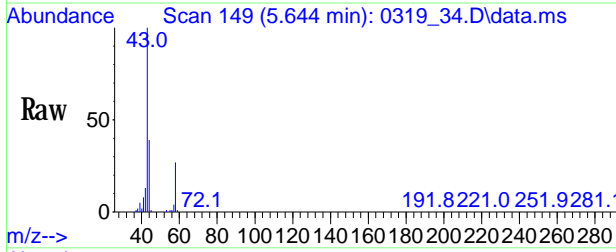
Tgt Ion	Ratio	Lower	Upper
45	100		
46	33.1	27.2	40.8
43	20.1	19.4	29.0





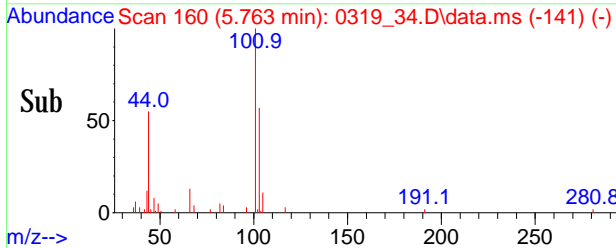
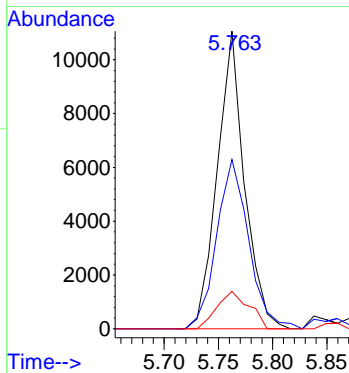
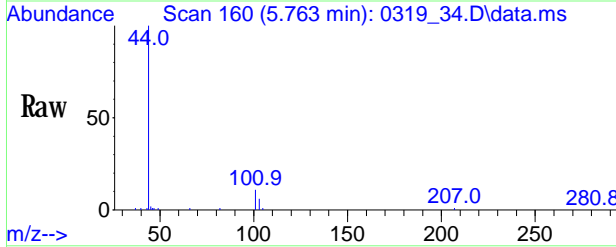
#12
 Acetone
 Conc: 8S 5.877 ppbv
 RT: 5.644 min Scan# 149
 Delta R.T. 0.011 min
 Lab File: 0319_34.D
 Acq: 20 Mar 2022 1:39 am

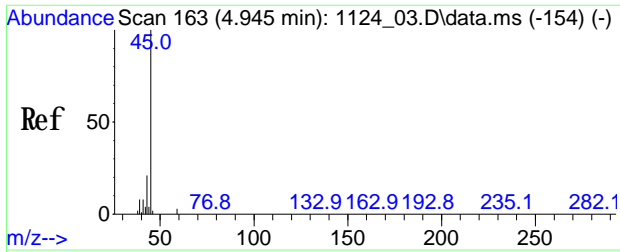
Tgt Ion: 43 Resp: 446653
 Ion Ratio Lower Upper
 43 100
 58 27.6 18.6 27.8



#13
 Trichlorofluoromethane
 Conc: 8S 0.248 ppbv
 RT: 5.763 min Scan# 160
 Delta R.T. 0.000 min
 Lab File: 0319_34.D
 Acq: 20 Mar 2022 1:39 am

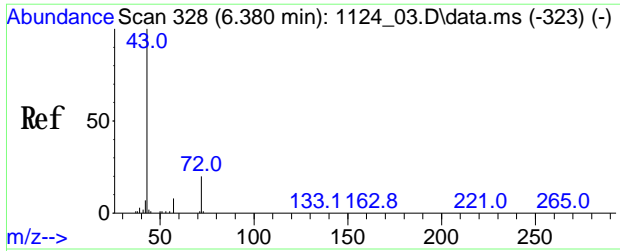
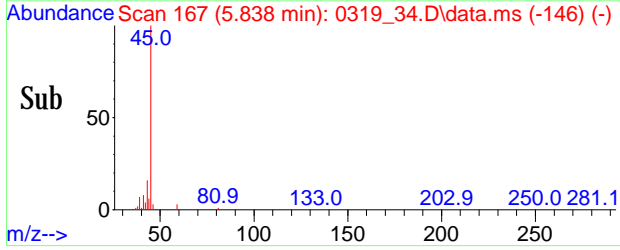
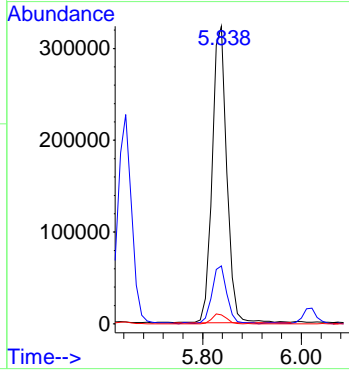
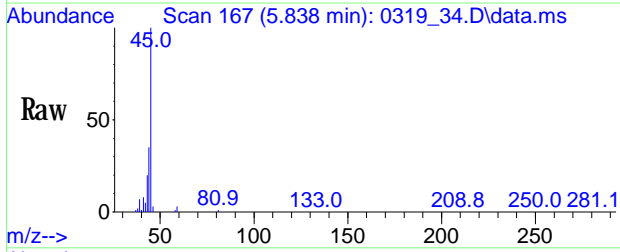
Tgt Ion: 101 Resp: 19285
 Ion Ratio Lower Upper
 101 100
 103 66.9 53.4 80.0
 66 14.9 11.2 16.8





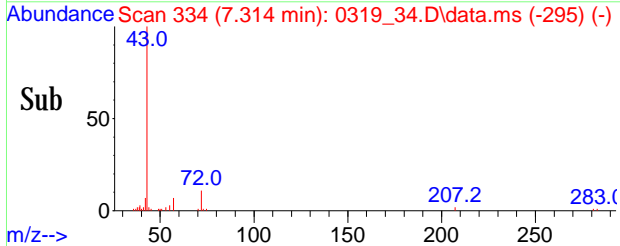
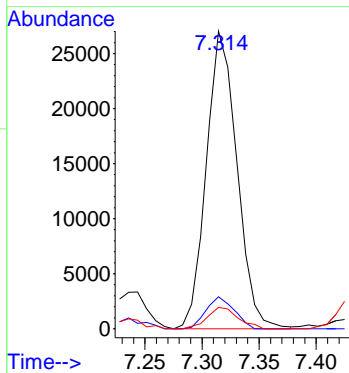
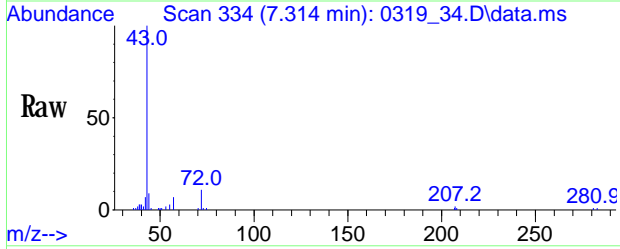
#14
 Isopropyl alcohol
 Conc: 8S 7.057 ppbv
 RT: 5.838 min Scan# 167
 Delta R.T. 0.022 min
 Lab File: 0319_34.D
 Acq: 20 Mar 2022 1:39 am

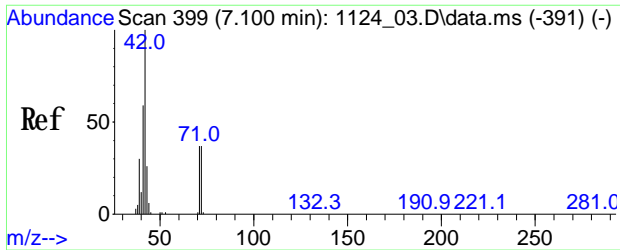
Tgt Ion	Ratio	Lower	Upper
45	100		
43	20.5	16.6	24.8
59	3.3	2.4	3.6



#26
 Methyl Ethyl Ketone
 Conc: 8S 0.510 ppbv
 RT: 7.314 min Scan# 334
 Delta R.T. 0.008 min
 Lab File: 0319_34.D
 Acq: 20 Mar 2022 1:39 am

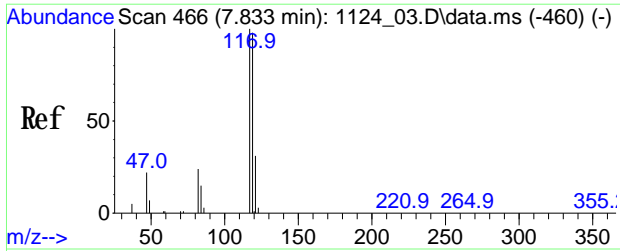
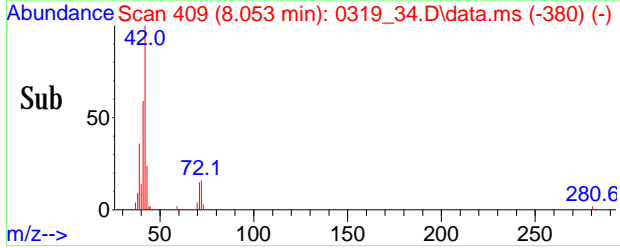
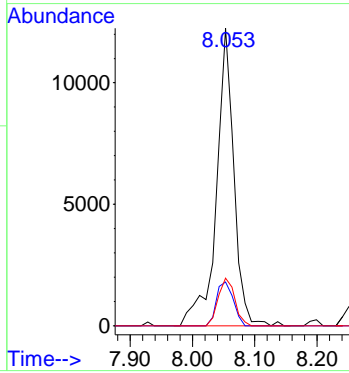
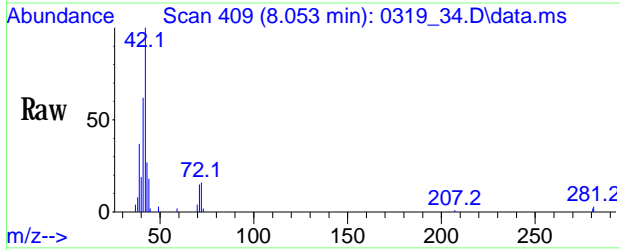
Tgt Ion	Ratio	Lower	Upper
43	100		
72	9.8	11.1	16.7#
57	7.2	6.0	9.0





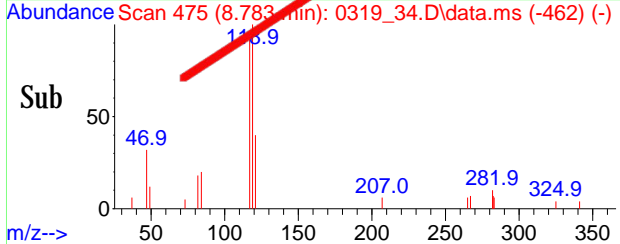
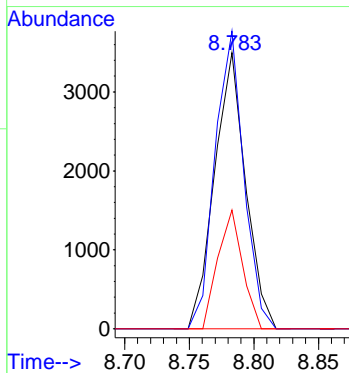
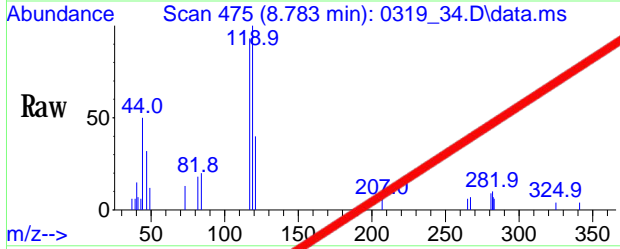
#31
 Tetrahydrofuran
 Conc: 8S 0.458 ppbv
 RT: 8.053 min Scan# 409
 Delta R.T. 0.003 min
 Lab File: 0319_34.D
 Acq: 20 Mar 2022 1:39 am

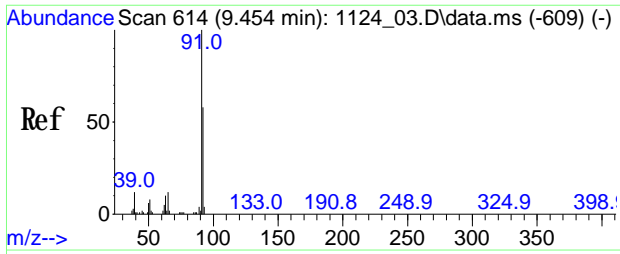
Tgt Ion	Ratio	Lower	Upper
42	100		
71	14.1	19.4	29.2#
72	15.2	18.0	27.0#



#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 8.783 min Scan# 475
 Delta R.T. 0.003 min
 Lab File: 0319_34.D
 Acq: 20 Mar 2022 1:39 am

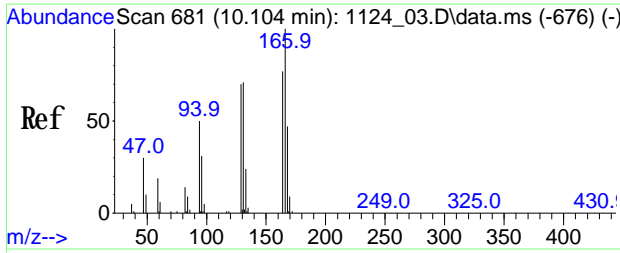
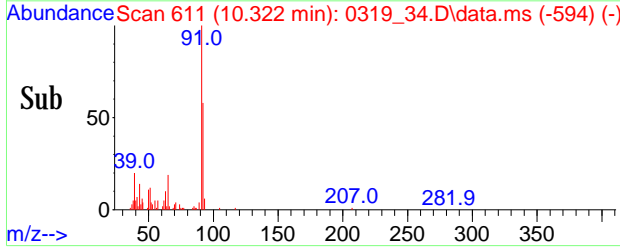
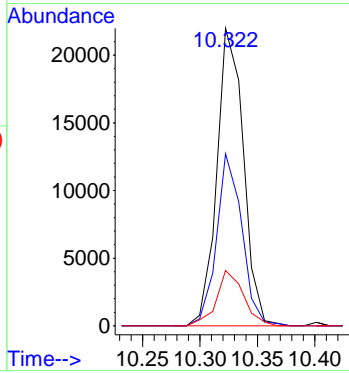
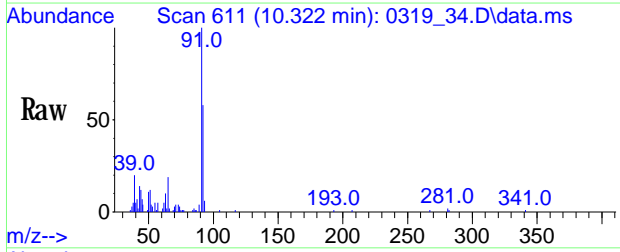
Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.5	77.5	117.5
121	34.0	10.7	50.7





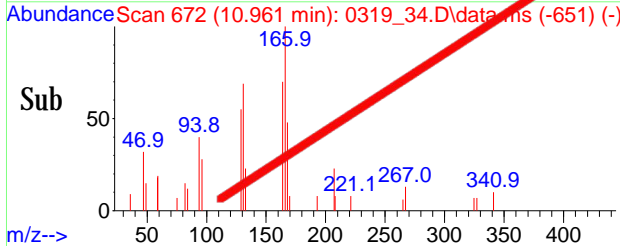
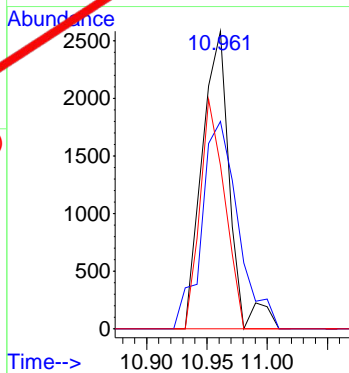
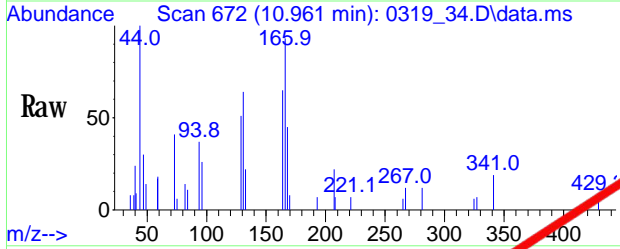
#49
 Toluene
 Conc: 8S 0.382 ppbv
 RT: 10.322 min Scan# 611
 Delta R.T. -0.009 min
 Lab File: 0319_34.D
 Acq: 20 Mar 2022 1:39 am

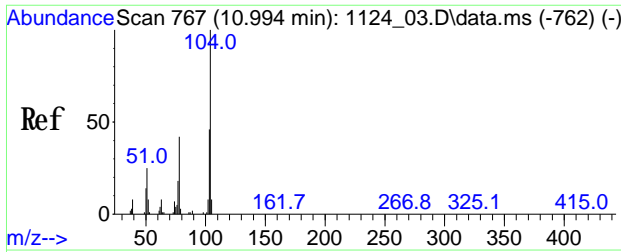
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	35539		
92	55.1	43.9	65.9	
65	19.0	10.2	15.2#	



#53
 Tetrachloroethene
 Conc: 8S Below Cal
 RT: 10.961 min Scan# 672
 Delta R.T. 0.003 min
 Lab File: 0319_34.D
 Acq: 20 Mar 2022 1:39 am

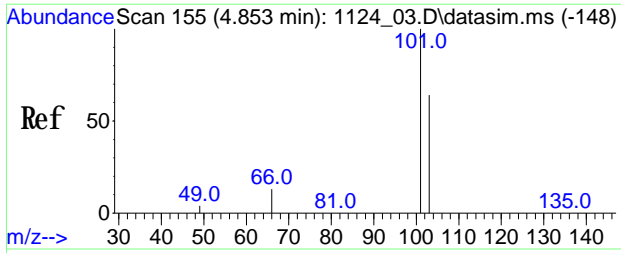
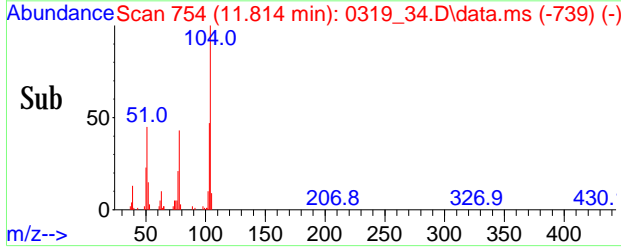
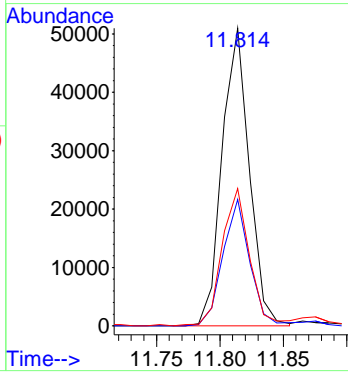
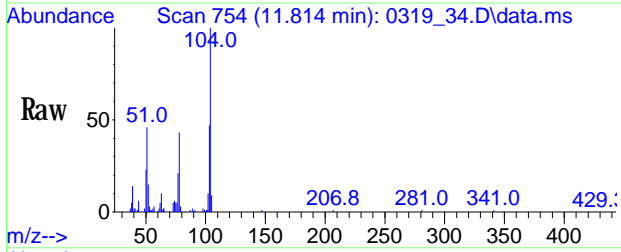
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	4105		
164	92.3	60.0	90.0#	
129	68.9	59.0	88.4	





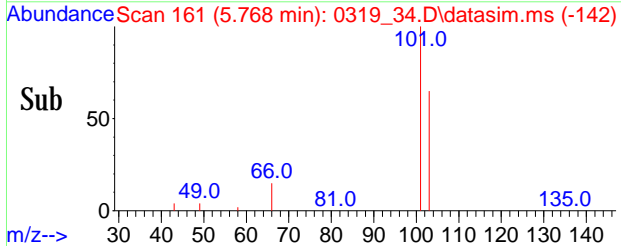
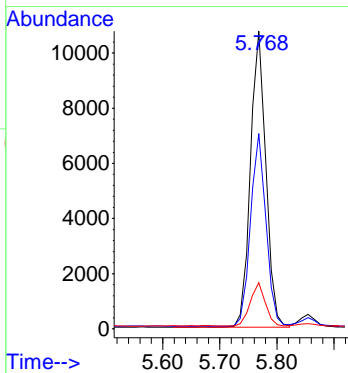
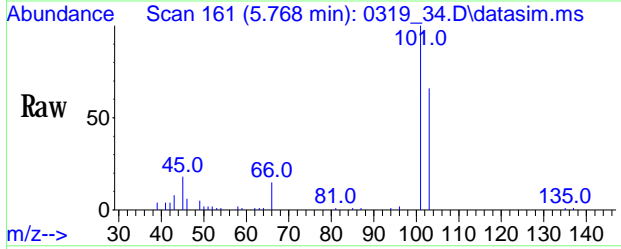
#60
 Styrene
 Conc: 8S 1.297 ppbv
 RT: 11.814 min Scan# 754
 Delta R.T. 0.003 min
 Lab File: 0319_34.D
 Acq: 20 Mar 2022 1:39 am

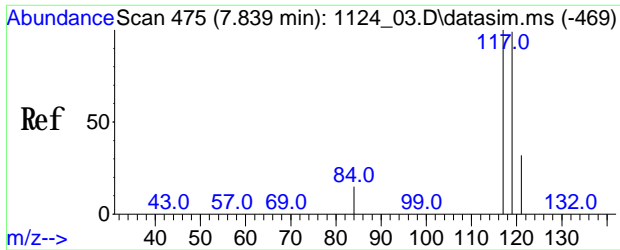
Tgt Ion	Ratio	Lower	Upper
104	100		
78	42.1	34.2	51.4
51	47.1	32.8	49.2



#85
 Trichlorofluoromethane (sim)
 Conc: 8S 0.242 ppbv
 RT: 5.768 min Scan# 161
 Delta R.T. 0.000 min
 Lab File: 0319_34.D
 Acq: 20 Mar 2022 1:39 am

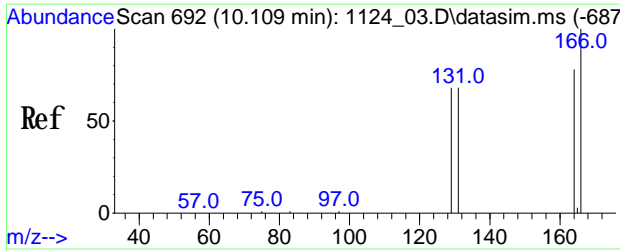
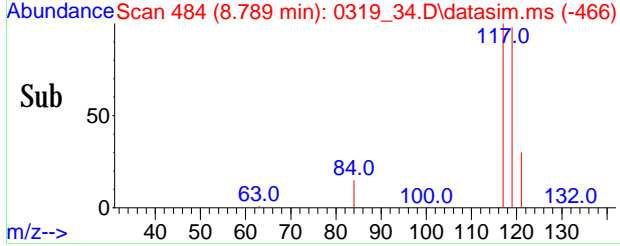
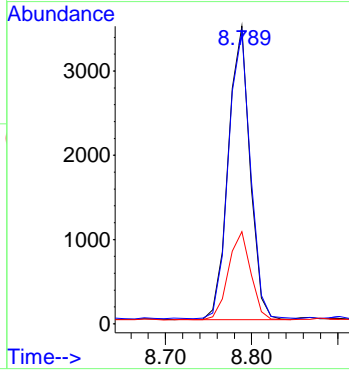
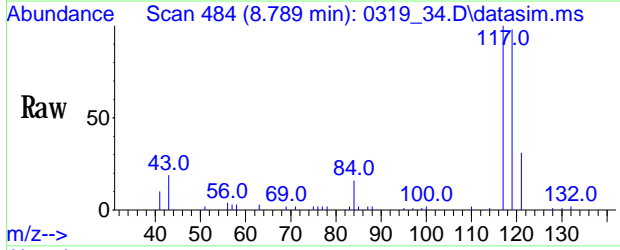
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.2	76.8
66	14.3	13.5	13.5#





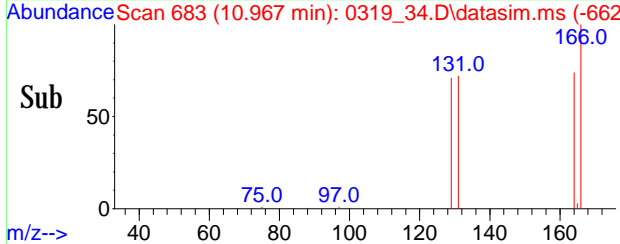
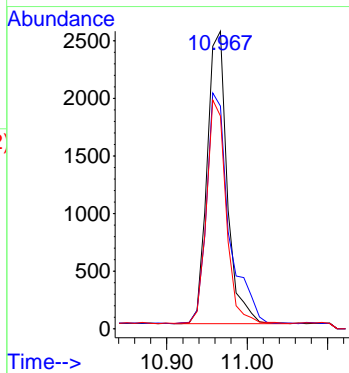
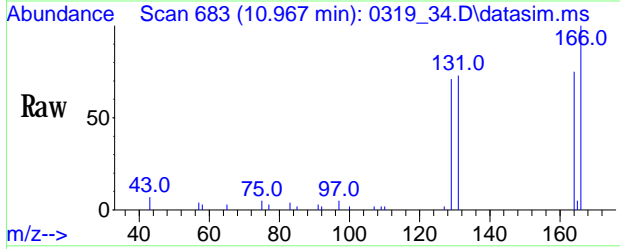
#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.083 ppbv
 RT: 8.789 min Scan# 484
 Delta R.T. 0.003 min
 Lab File: 0319_34.D
 Acq: 20 Mar 2022 1:39 am

Tgt Ion: 117 Resp: 6112
 Ion Ratio Lower Upper
 117 100
 119 98.9 76.2 114.4
 121 31.2 23.9 35.9



#105
 Tetrachloroethene(sim)
 Conc: 8S 0.062 ppbv
 RT: 10.967 min Scan# 683
 Delta R.T. 0.003 min
 Lab File: 0319_34.D
 Acq: 20 Mar 2022 1:39 am

Tgt Ion: 166 Resp: 4429
 Ion Ratio Lower Upper
 166 100
 164 88.3 59.0 99.0
 129 73.9 54.3 94.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

VP-3

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90291
Canister:	28567	Lab File ID:	0319_35.D
Instrument:	CHEM20	Column:	RTX-1 60M
Date Received:	03/18/22		
Purge Volume	200	(cc)	03/20/22
Date Analyzed:	03/20/22		
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.478		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	39.1	S	0.531	0.531	r
67-64-1	Acetone	5.69	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.233		0.178	0.178	r
67-63-0	Isopropylalcohol	6.70	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.553		0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.416		0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.380		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.271		0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

VP-3

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90291
Canister:	28567	Lab File ID:	0319_35.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	Date Received:
			03/18/22
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.079		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.045		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_35.D
 Acq On : 20 Mar 2022 2:13 am
 Operator :
 Client ID : VP-3
 Lab ID : CK90291
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 20 08:54:51 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

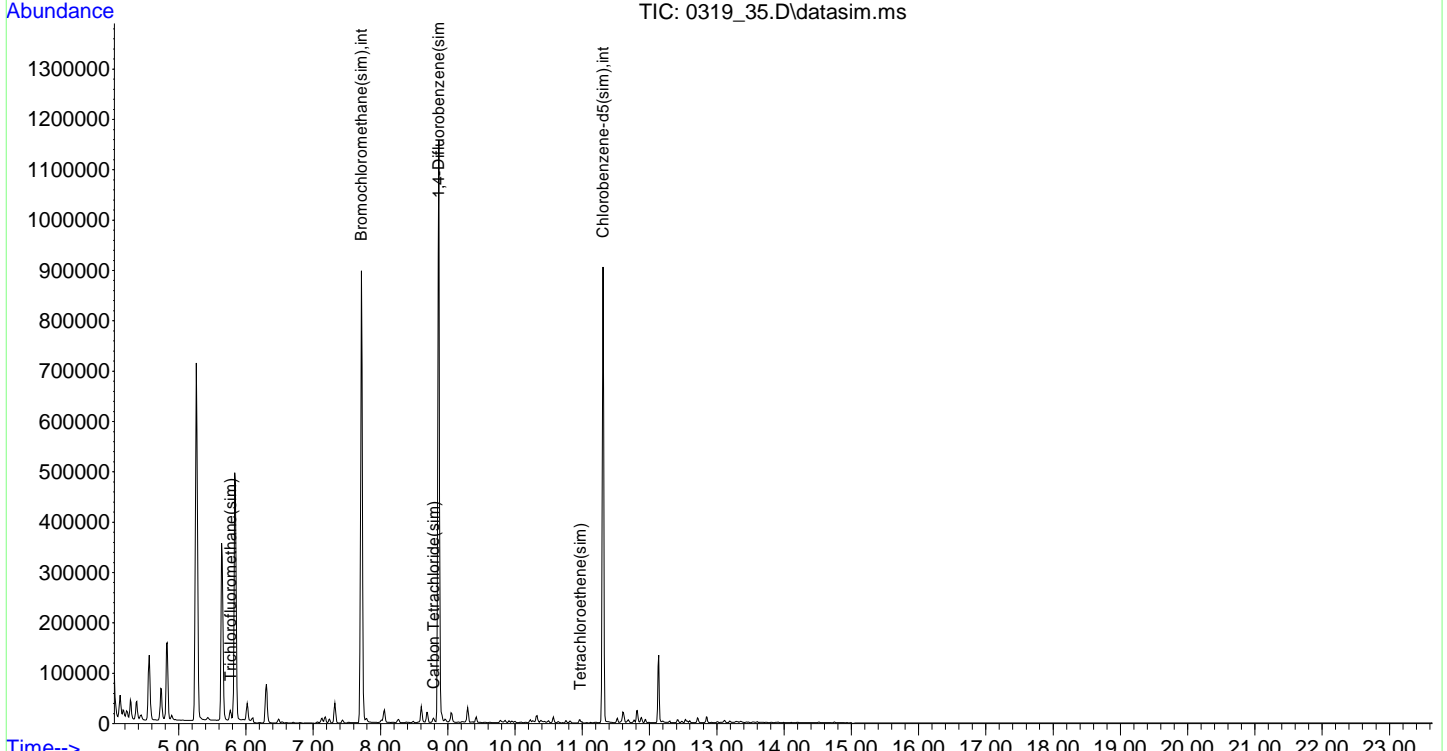
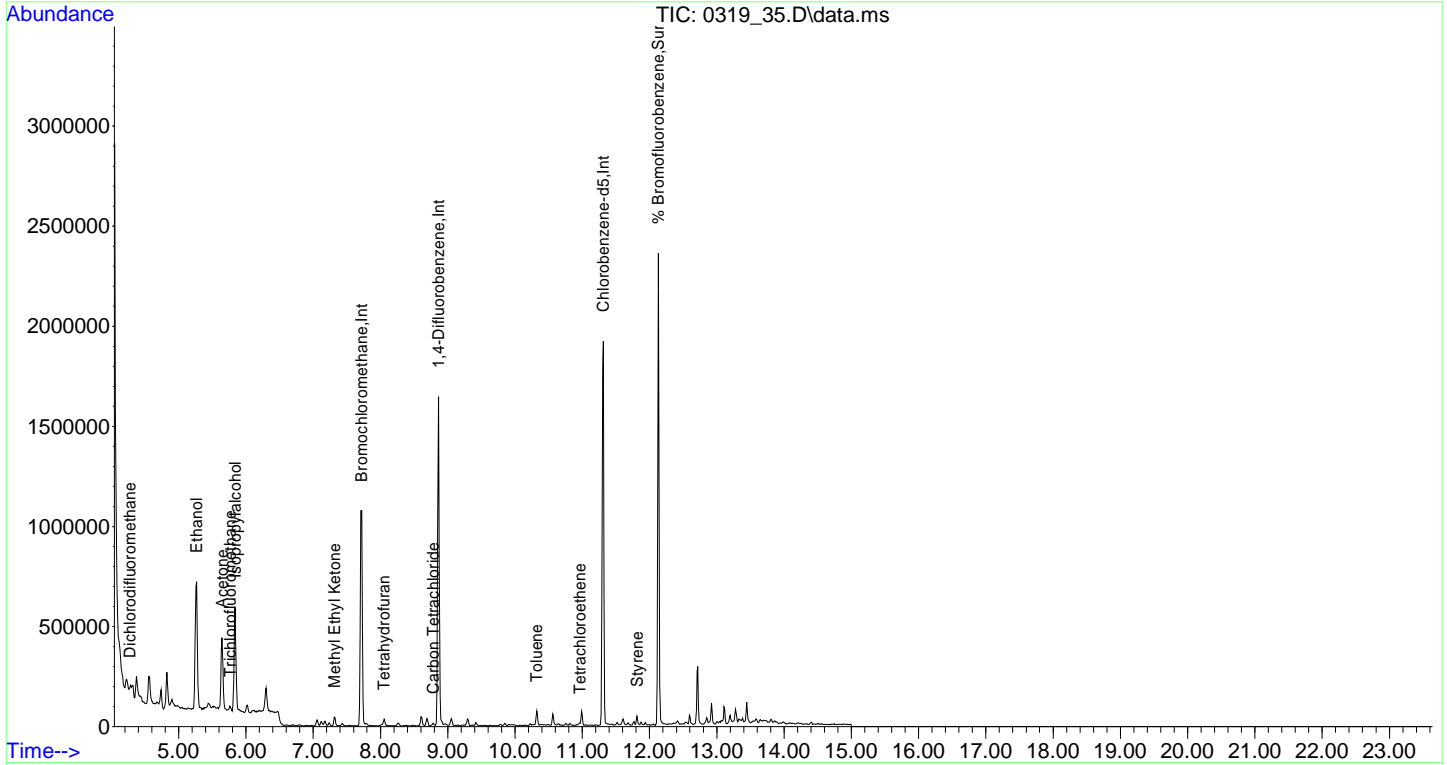
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.720	130	280910	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	966243	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	452470	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	308934	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	966243	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	452470	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	581141	9.999	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	100.00%	
Target Compounds						
3) Dichlorodifluoromethane	4.275	85	35926	0.478	ppbv	98
11) Ethanol	5.267	45	877185	39.105	ppbv	95
12) Acetone	5.644	43	445166	5.685	ppbv#	90
13) Trichlorofluoromethane	5.763	101	18677	0.233	ppbv	98
14) Isopropylalcohol	5.838	45	644877	6.695	ppbv	99
26) Methyl Ethyl Ketone	7.314	43	56312	0.553	ppbv#	94
31) Tetrahydrofuran	8.053	42	22454	0.415	ppbv#	81
35) Carbon Tetrachloride	8.783	117	5738	0.078	ppbv	96
49) Toluene	10.322	91	36077	0.380	ppbv#	95
53) Tetrachloroethene	10.961	166	3130	0.059	ppbv	90
60) Styrene	11.814	104	16540	0.271	ppbv#	91
85] Trichlorofluoromethane...	5.768	101	20351	0.237	ppbv#	100
89] Carbon Tetrachloride(sim)	8.789	117	5956	0.079	ppbv	96
105] Tetrachloroethene(sim)	10.967	166	3297	0.045	ppbv	96

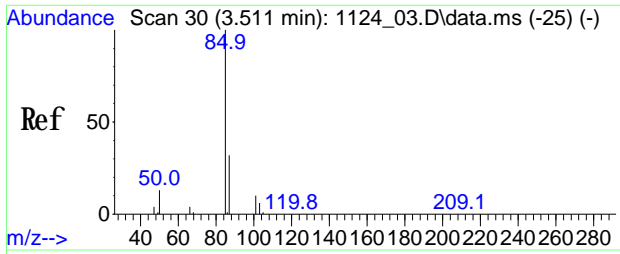
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0319_35.D
Acq On : 20 Mar 2022 2:13 am
Operator :
Client ID : VP-3
Lab ID : CK90291
ALS Vial : 27 Sample Multiplier: 1

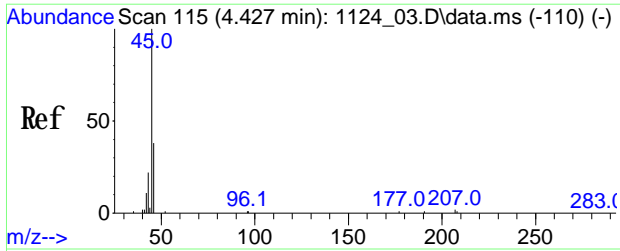
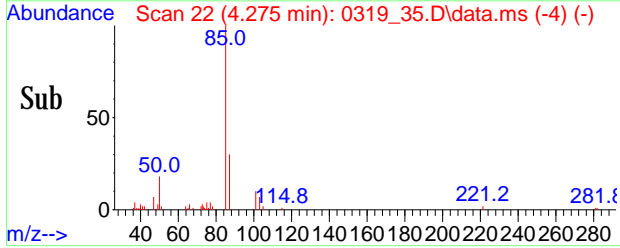
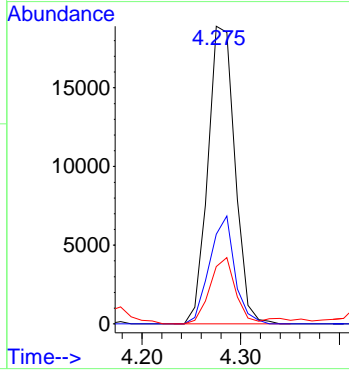
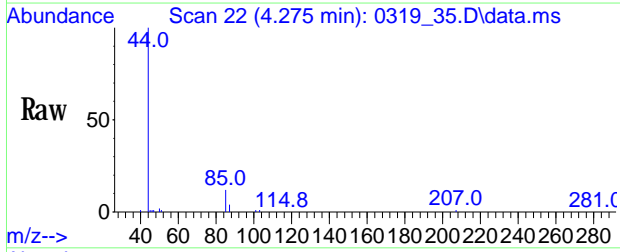
Quant Time: Mar 20 08:54:51 2022
Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 18 08:43:01 2022
Response via : Initial Calibration





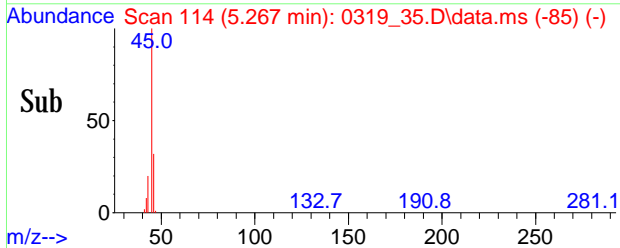
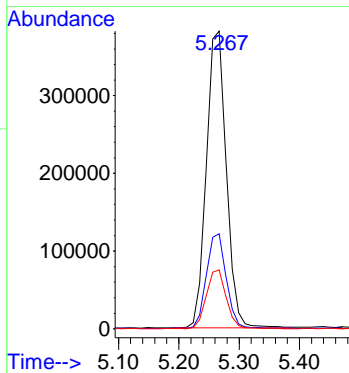
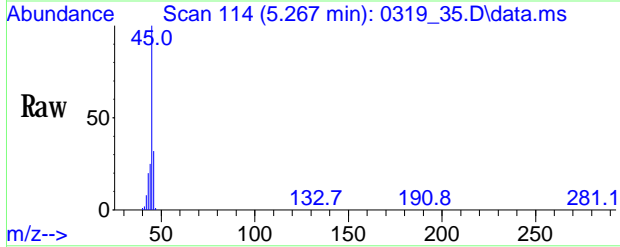
#3
 Dichlorodifluoromethane
 Conc: 8S 0.478 ppbv
 RT: 4.275 min Scan# 22
 Delta R.T. -0.011 min
 Lab File: 0319_35.D
 Acq: 20 Mar 2022 2:13 am

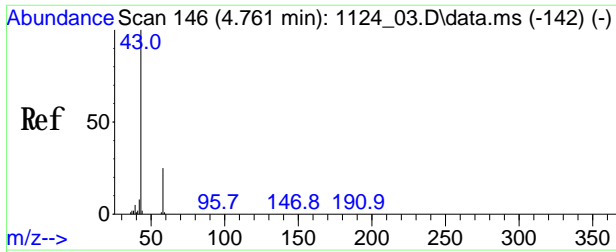
Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.8	26.0	39.0
50	21.2	16.2	24.4



#11
 Ethanol
 Conc: 8S 39.105 ppbv
 RT: 5.267 min Scan# 114
 Delta R.T. 0.011 min
 Lab File: 0319_35.D
 Acq: 20 Mar 2022 2:13 am

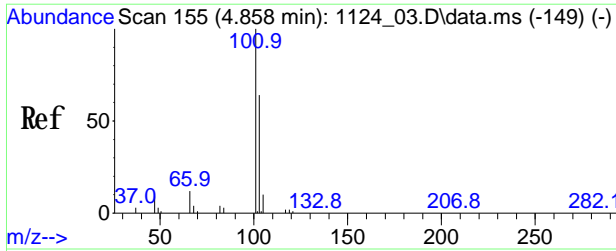
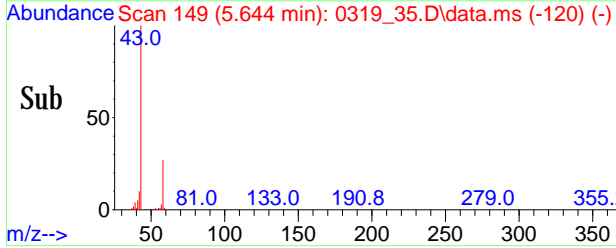
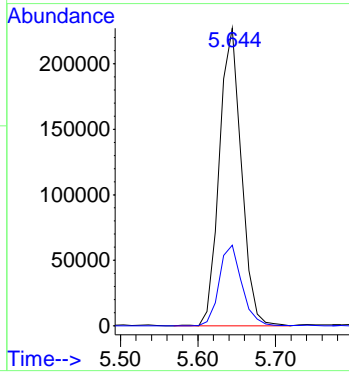
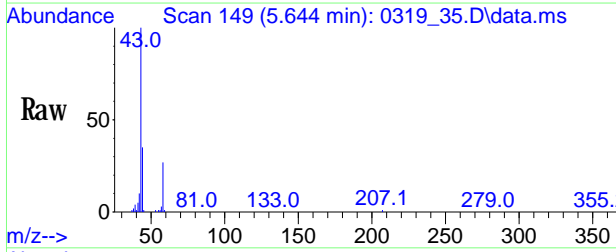
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.1	27.2	40.8
43	20.0	19.4	29.0





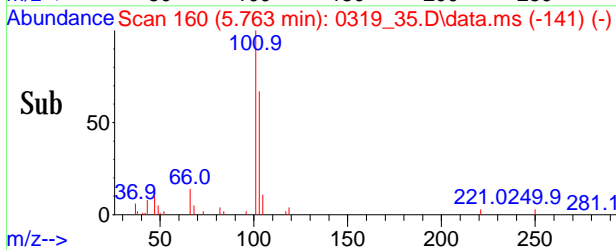
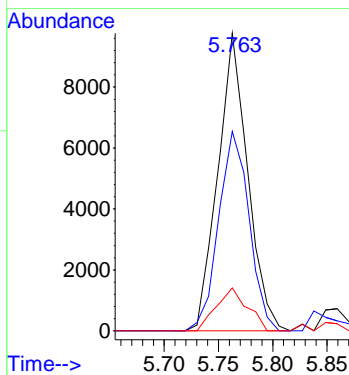
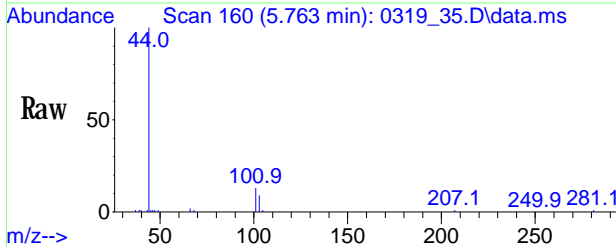
#12
 Acetone
 Conc: 8S 5.685 ppbv
 RT: 5.644 min Scan# 149
 Delta R.T. 0.011 min
 Lab File: 0319_35.D
 Acq: 20 Mar 2022 2:13 am

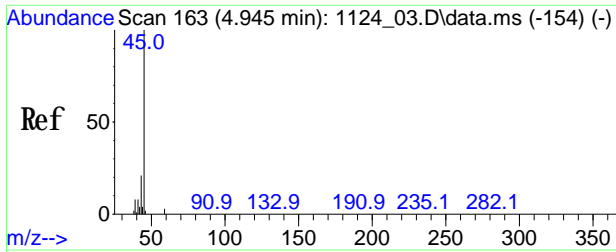
Tgt Ion: 43 Resp: 445166
 Ion Ratio Lower Upper
 43 100
 58 28.0 18.6 27.8#



#13
 Trichlorofluoromethane
 Conc: 8S 0.233 ppbv
 RT: 5.763 min Scan# 160
 Delta R.T. 0.000 min
 Lab File: 0319_35.D
 Acq: 20 Mar 2022 2:13 am

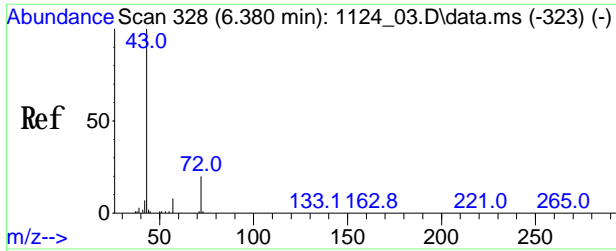
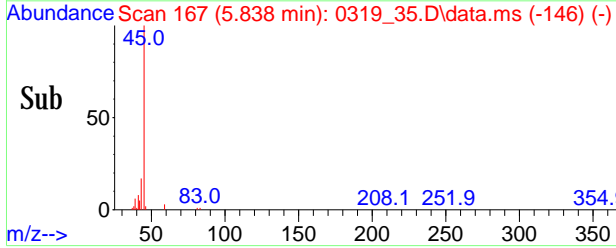
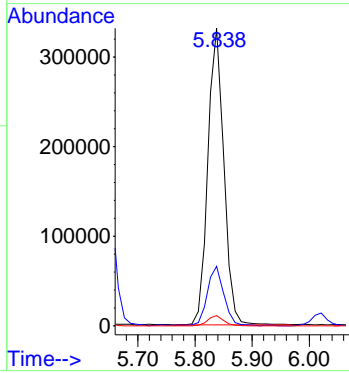
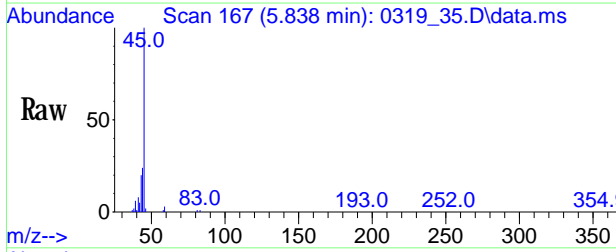
Tgt Ion: 101 Resp: 18677
 Ion Ratio Lower Upper
 101 100
 103 68.4 53.4 80.0
 66 14.9 11.2 16.8





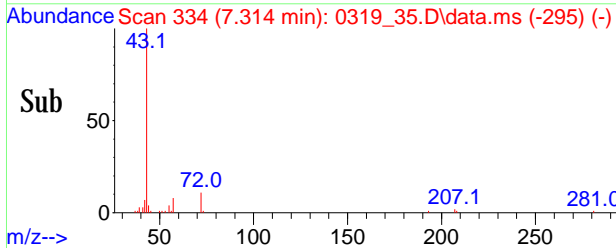
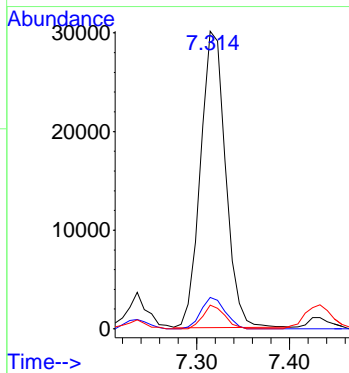
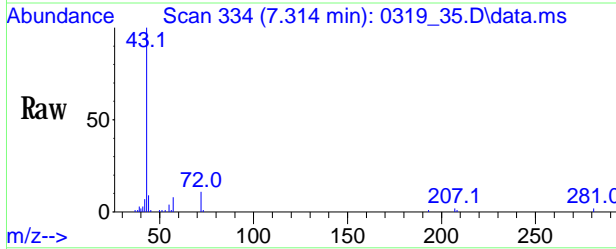
#14
 Isopropyl alcohol
 Conc: 8S 6.695 ppbv
 RT: 5.838 min Scan# 167
 Delta R.T. 0.022 min
 Lab File: 0319_35.D
 Acq: 20 Mar 2022 2:13 am

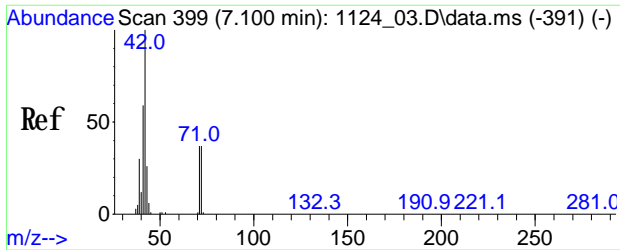
Tgt Ion	Ratio	Lower	Upper
45	100		
43	21.0	16.6	24.8
59	3.4	2.4	3.6



#26
 Methyl Ethyl Ketone
 Conc: 8S 0.553 ppbv
 RT: 7.314 min Scan# 334
 Delta R.T. 0.008 min
 Lab File: 0319_35.D
 Acq: 20 Mar 2022 2:13 am

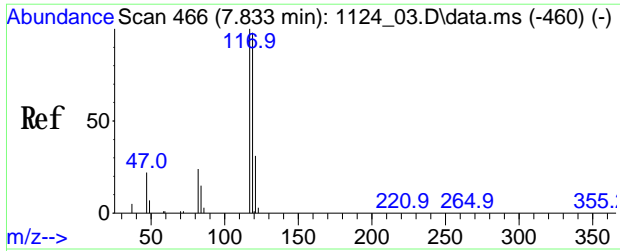
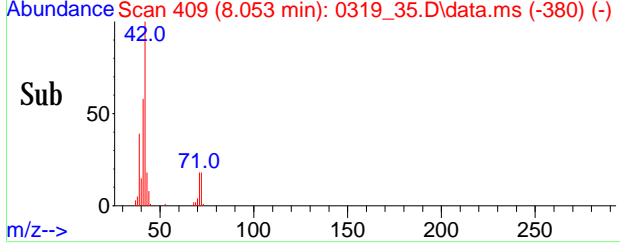
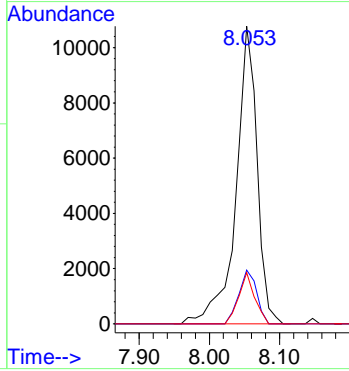
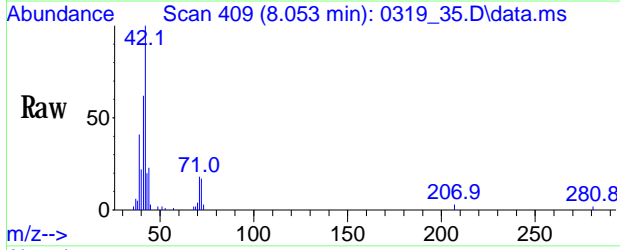
Tgt Ion	Ratio	Lower	Upper
43	100		
72	10.3	11.1	16.7#
57	7.0	6.0	9.0





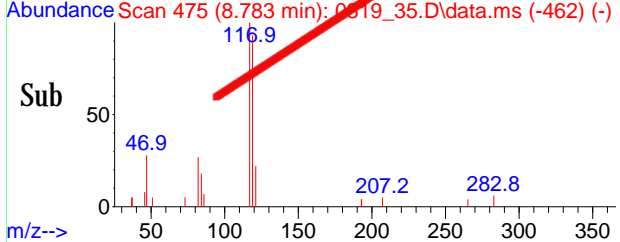
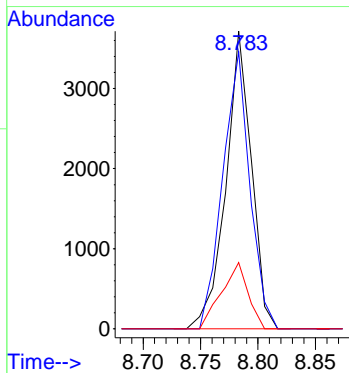
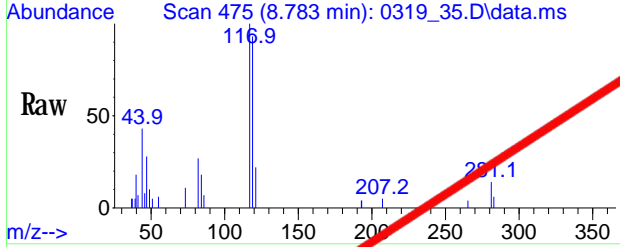
#31
 Tetrahydrofuran
 Conc: 8S 0.415 ppbv
 RT: 8.053 min Scan# 409
 Delta R.T. 0.003 min
 Lab File: 0319_35.D
 Acq: 20 Mar 2022 2:13 am

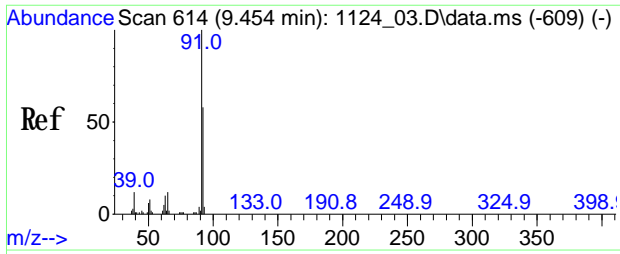
Tgt Ion	Ratio	Lower	Upper
42	100		
71	15.3	19.4	29.2#
72	13.1	18.0	27.0#



#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 8.783 min Scan# 475
 Delta R.T. 0.003 min
 Lab File: 0319_35.D
 Acq: 20 Mar 2022 2:13 am

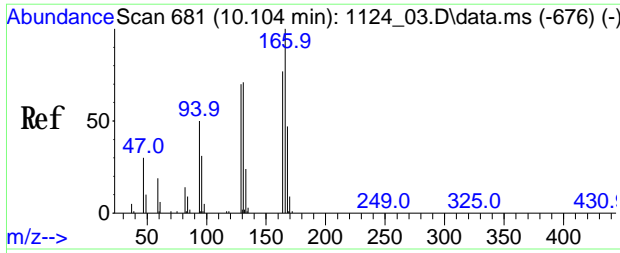
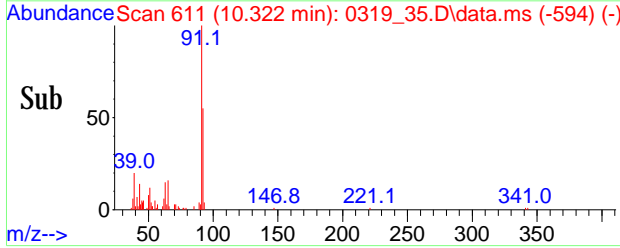
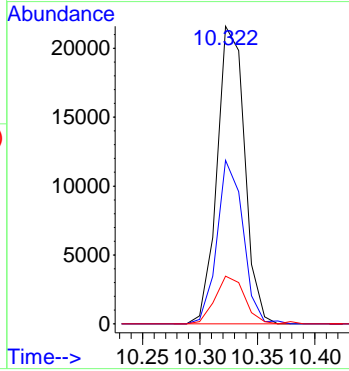
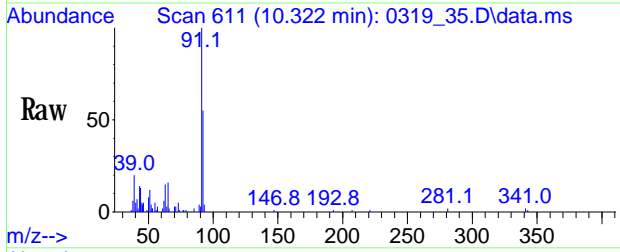
Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.8	77.5	117.5
121	23.2	10.7	50.7





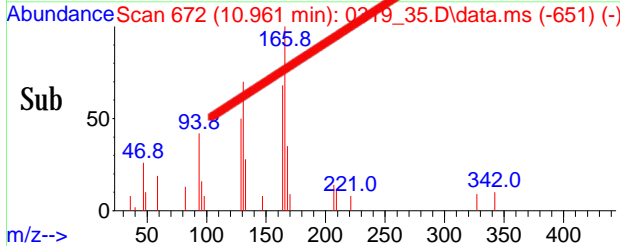
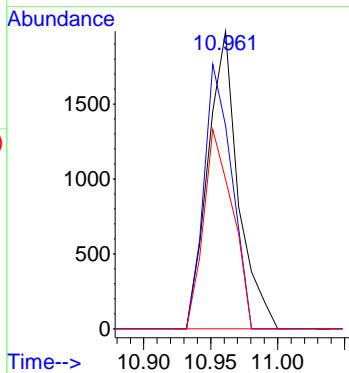
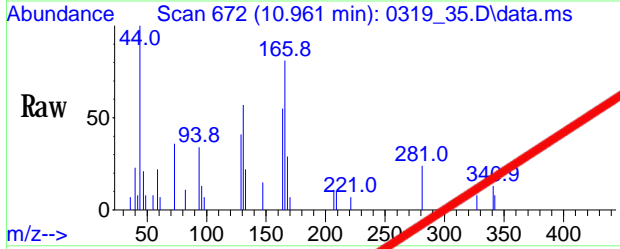
#49
 Toluene
 Conc: 8S 0.380 ppbv
 RT: 10.322 min Scan# 611
 Delta R.T. -0.009 min
 Lab File: 0319_35.D
 Acq: 20 Mar 2022 2:13 am

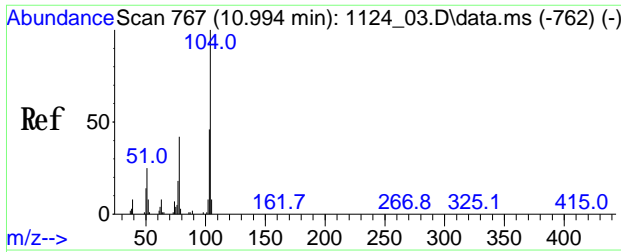
Tgt Ion	Ratio	Resp Lower	Upper
91	100		
92	52.1	43.9	65.9
65	17.4	10.2	15.2#



#53
 Tetrachloroethene
 Conc: 8S Below Cal
 RT: 10.961 min Scan# 672
 Delta R.T. 0.003 min
 Lab File: 0319_35.D
 Acq: 20 Mar 2022 2:13 am

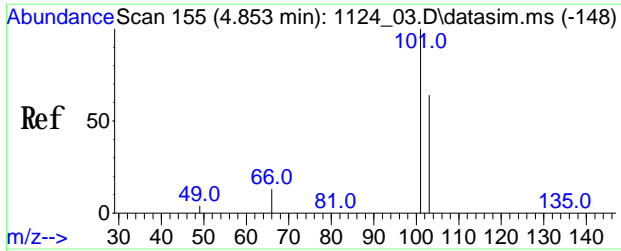
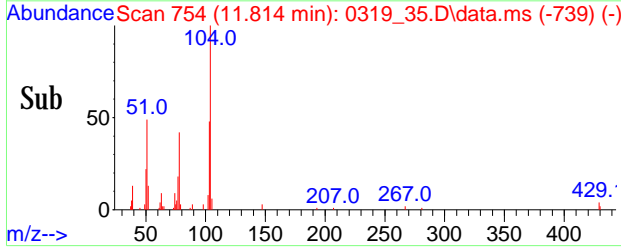
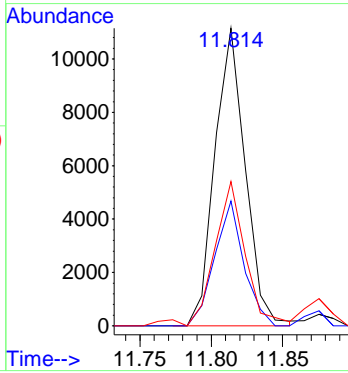
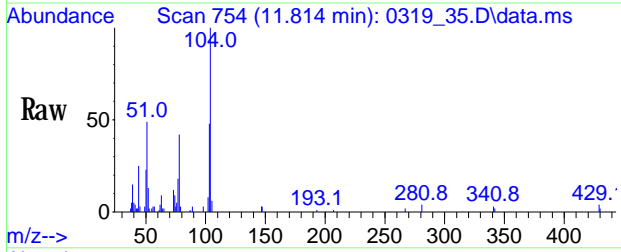
Tgt Ion	Ratio	Resp Lower	Upper
166	100		
164	81.5	60.0	90.0
129	63.9	59.0	88.4





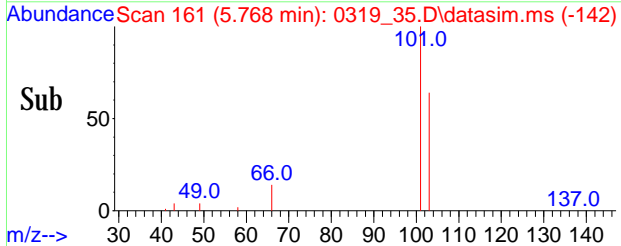
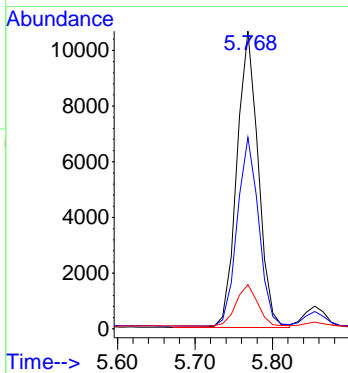
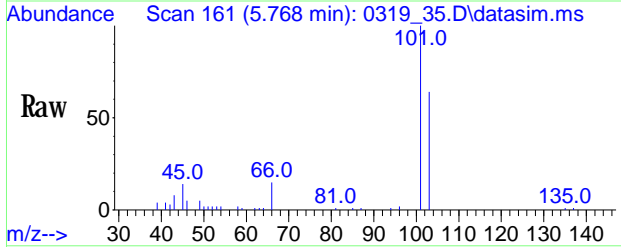
#60
 Styrene
 Conc: 8S 0.271 ppbv
 RT: 11.814 min Scan# 754
 Delta R.T. 0.003 min
 Lab File: 0319_35.D
 Acq: 20 Mar 2022 2:13 am

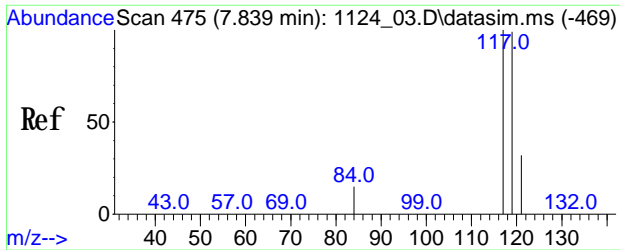
Tgt Ion	104	Resp:	16540
Ion Ratio	100	Lower	Upper
78	40.4	34.2	51.4
51	49.5	32.8	49.2#



#85
 Trichlorofluoromethane (sim)
 Conc: 8S 0.237 ppbv
 RT: 5.768 min Scan# 161
 Delta R.T. 0.000 min
 Lab File: 0319_35.D
 Acq: 20 Mar 2022 2:13 am

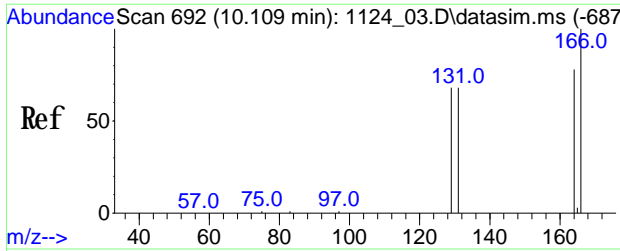
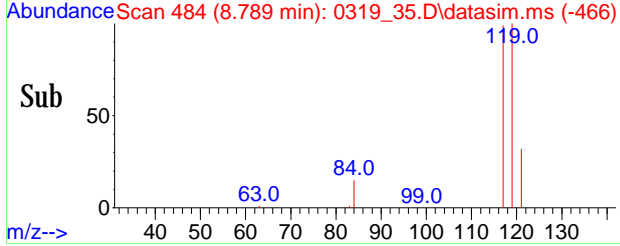
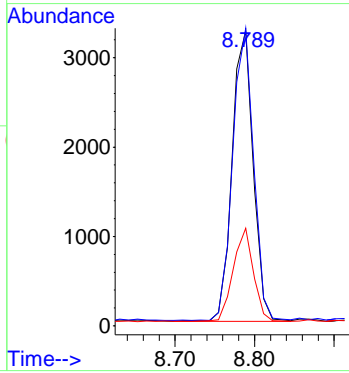
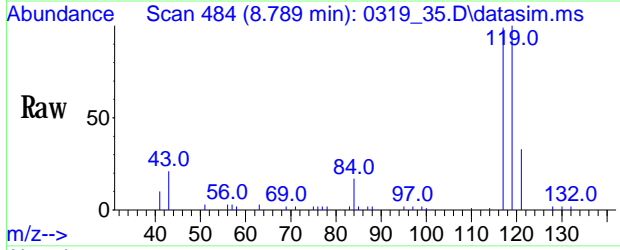
Tgt Ion	101	Resp:	20351
Ion Ratio	100	Lower	Upper
103	64.0	51.2	76.8
66	14.5	13.5	13.5#





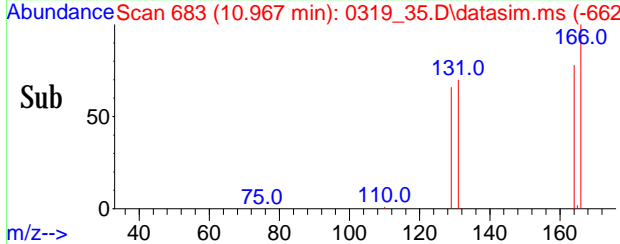
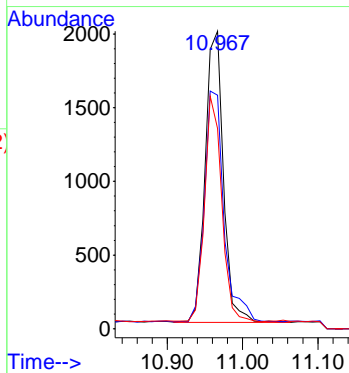
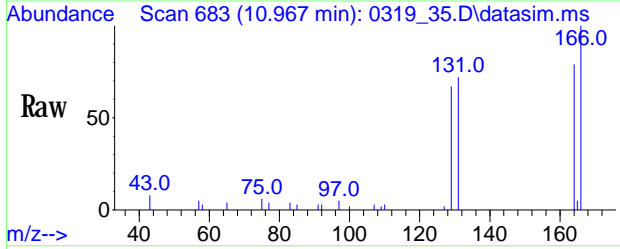
#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.079 ppbv
 RT: 8.789 min Scan# 484
 Delta R.T. 0.003 min
 Lab File: 0319_35.D
 Acq: 20 Mar 2022 2:13 am

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5956		
119	100.1	76.2	114.4	
121	30.9	23.9	35.9	



#105
 Tetrachloroethene(sim)
 Conc: 8S 0.045 ppbv
 RT: 10.967 min Scan# 683
 Delta R.T. 0.003 min
 Lab File: 0319_35.D
 Acq: 20 Mar 2022 2:13 am

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	3297		
164	85.6	59.0	99.0	
129	73.2	54.3	94.3	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

VP-1

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90292
Canister:	28589	Lab File ID:	0319_36.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200 (cc)	Date Received:	03/18/22
Matrix:	AIR	Date Analyzed:	03/20/22
		Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.471		0.202	0.202	r
74-87-3	Chloromethane	0.599		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	128	ES	0.531	0.531	
67-64-1	Acetone	11.4	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.240		0.178	0.178	r
67-63-0	Isopropylalcohol	10.4	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	1.16		0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.422		0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.642		0.339	0.339	r
71-43-2	Benzene	0.324		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.900		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.810		0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

VP-1

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90292
Canister:	28589	Lab File ID:	0319_36.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	Date Received:
			03/18/22
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.094		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.057		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.270		0.230	0.230	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_36.D
 Acq On : 20 Mar 2022 2:49 am
 Operator :
 Client ID : VP-1
 Lab ID : CK90292
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 20 09:10:11 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

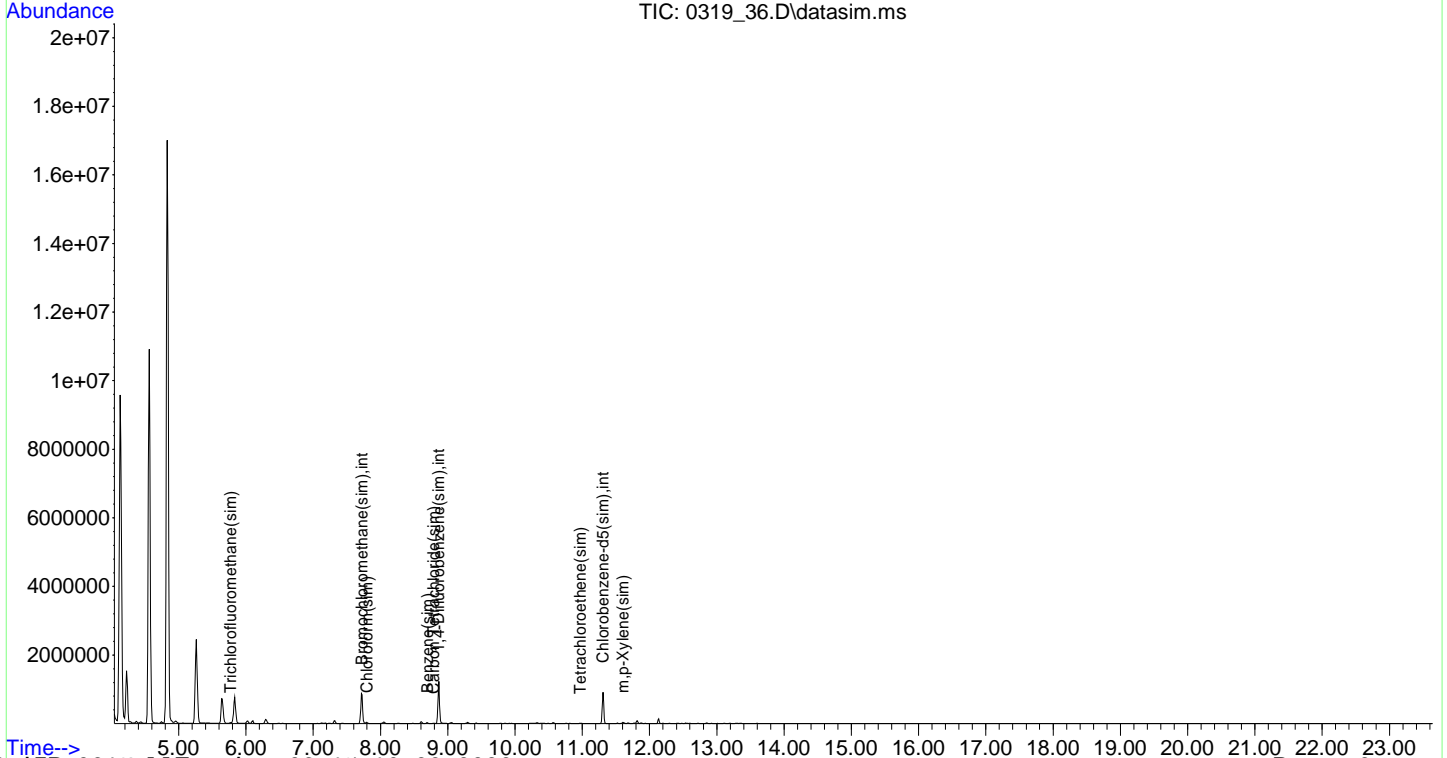
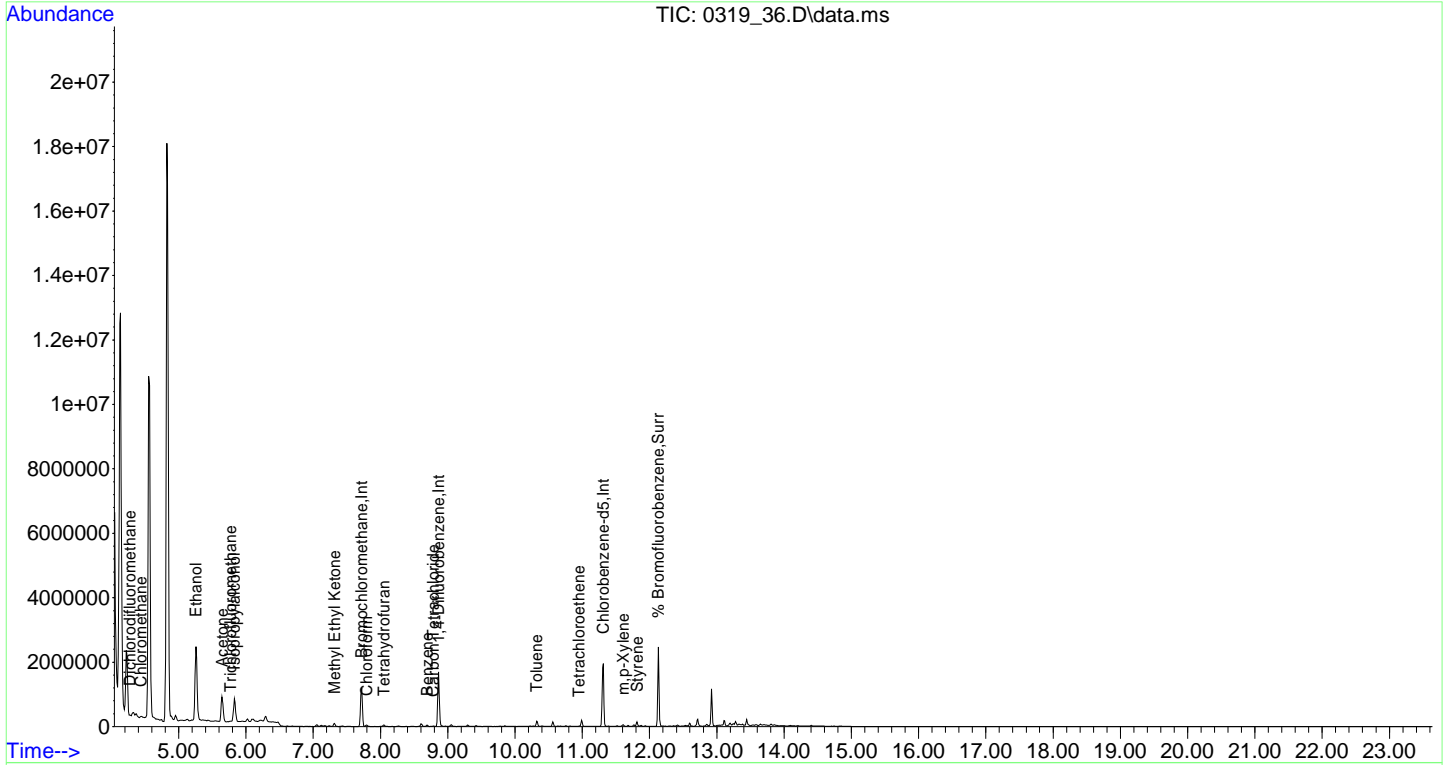
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.720	130	287792	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	982167	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	458069	10.000	ng	0.00
81) Bromochloromethane(sim)	7.725	130	316005	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	8.862	114	982167	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	458069	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.131	95	593881	10.094	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	100.90%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.275	85	36227	0.471	ppbv#	93
4) Chloromethane	4.437	50	29978	0.599	ppbv	95
11) Ethanol	5.256	45	2937830	127.836	ppbv	95
12) Acetone	5.644	43	911450	11.361	ppbv	94
13) Trichlorofluoromethane	5.773	101	19735	0.240	ppbv	98
14) Isopropylalcohol	5.827	45	1024648	10.383	ppbv	100
26) Methyl Ethyl Ketone	7.314	43	120651	1.157	ppbv	96
29) Chloroform	7.793	83	27223	0.422	ppbv	98
31) Tetrahydrofuran	8.053	42	35561	0.642	ppbv#	88
34) Benzene	8.692	78	25884	0.324	ppbv#	92
35) Carbon Tetrachloride	8.783	117	7160	0.095	ppbv	93
49) Toluene	10.322	91	86794	0.900	ppbv#	97
53) Tetrachloroethene	10.951	166	3673	0.068	ppbv	95
58) m p-Xylene	11.609	91	23872	0.273	ppbv	92
60) Styrene	11.814	104	50067	0.810	ppbv#	90
85) Trichlorofluoromethane...	5.768	101	22310	0.254	ppbv#	100
88) Benzene(sim)	8.692	78	25884	0.319	ppbv#	92
89) Carbon Tetrachloride(sim)	8.789	117	7251	0.094	ppbv	96
95) Chloroform(sim)	7.798	83	28598	0.409	ppbv	97
105) Tetrachloroethene(sim)	10.967	166	4176	0.057	ppbv	93
108) m p-Xylene(sim)	11.609	91	23872	0.269	ppbv#	92

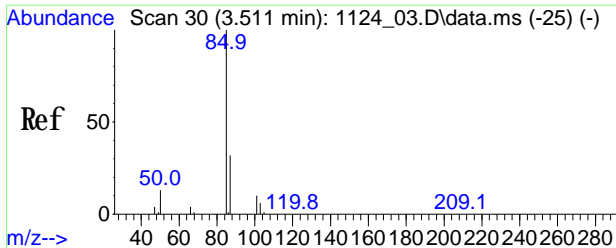
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0319_36.D
Acq On : 20 Mar 2022 2:49 am
Operator :
Client ID : VP-1
Lab ID : CK90292
ALS Vial : 28 Sample Multiplier: 1

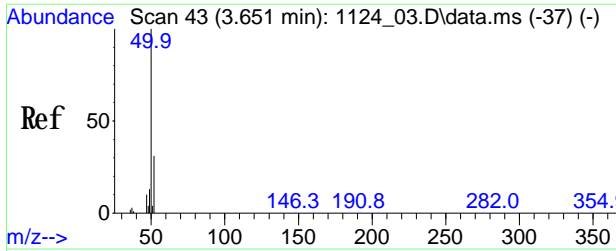
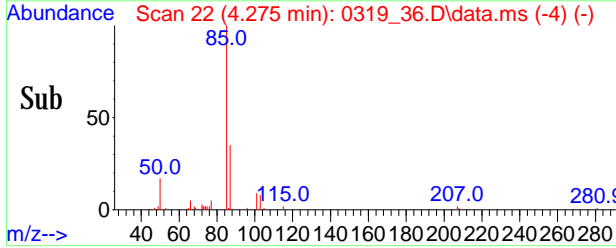
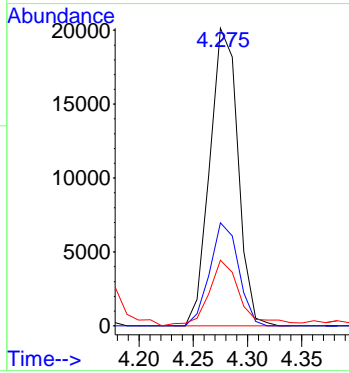
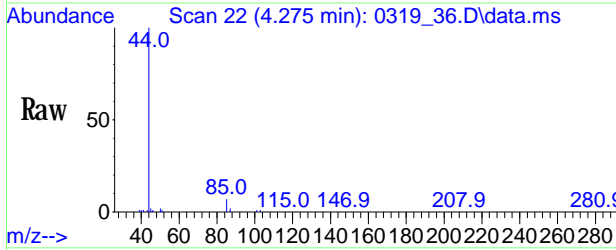
Quant Time: Mar 20 09:10:11 2022
Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 18 08:43:01 2022
Response via : Initial Calibration





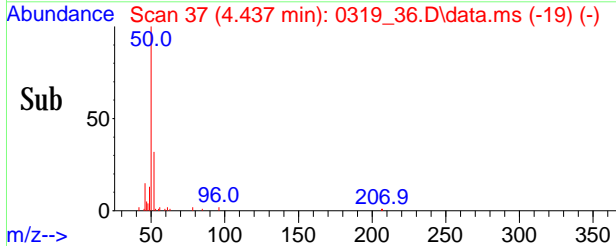
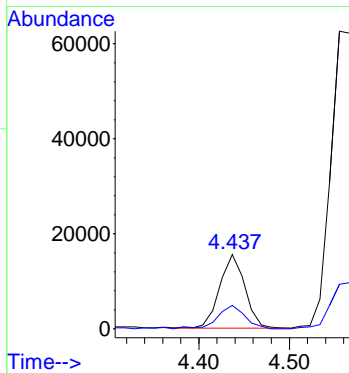
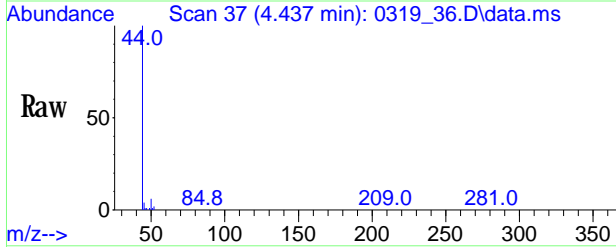
#3
 Dichlorodifluoromethane
 Conc: 8S 0.471 ppbv
 RT: 4.275 min Scan# 22
 Delta R.T. -0.011 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

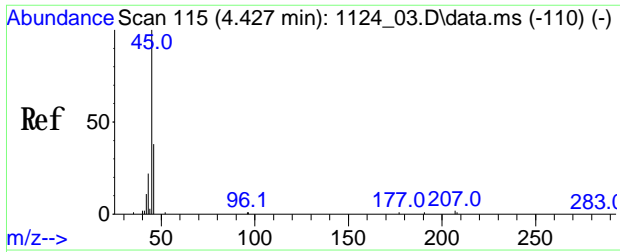
Tgt Ion	Ratio	Lower	Upper
85	100		
87	35.3	26.0	39.0
50	25.1	16.2	24.4#



#4
 Chloromethane
 Conc: 8S 0.599 ppbv
 RT: 4.437 min Scan# 37
 Delta R.T. -0.011 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

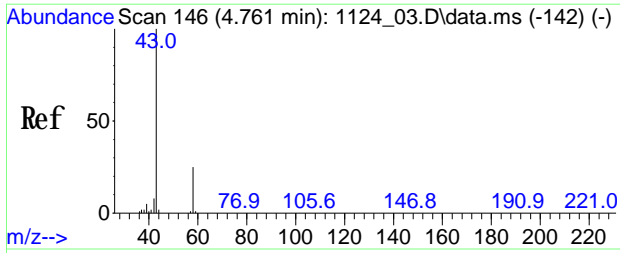
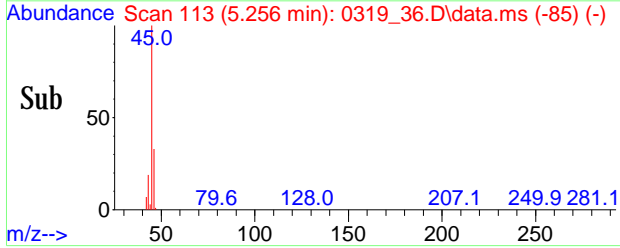
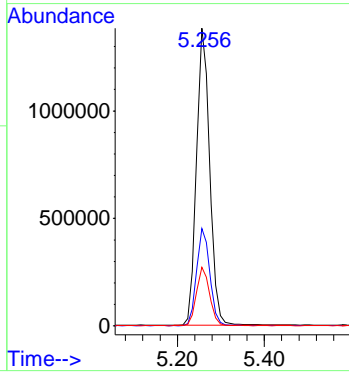
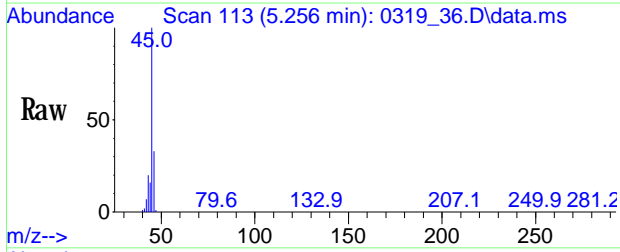
Tgt Ion	Ratio	Lower	Upper
50	100		
52	34.6	11.9	51.9





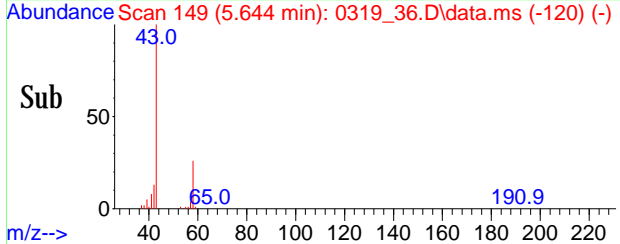
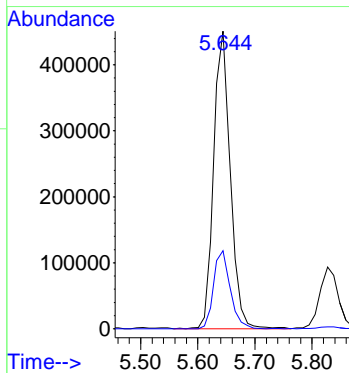
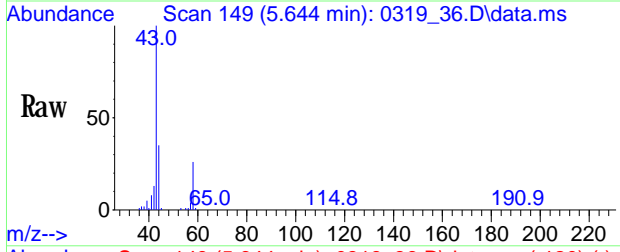
#11
 Ethanol
 Conc: 8S 127.836 ppbv
 RT: 5.256 min Scan# 113
 Delta R.T. -0.000 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

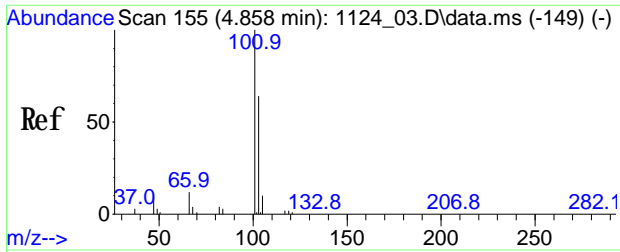
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.8	27.2	40.8
43	20.0	19.4	29.0



#12
 Acetone
 Conc: 8S 11.361 ppbv
 RT: 5.644 min Scan# 149
 Delta R.T. 0.011 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

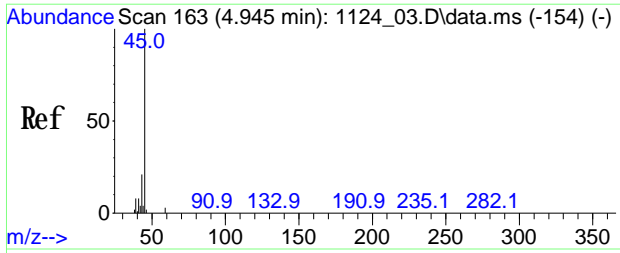
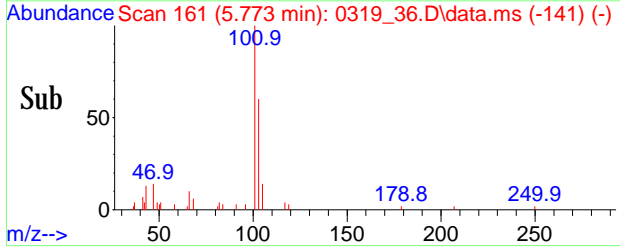
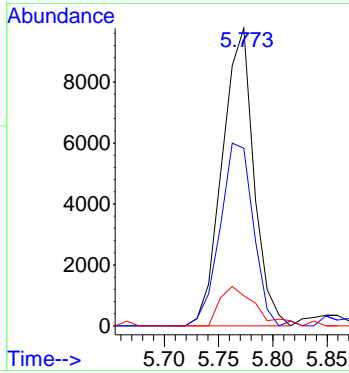
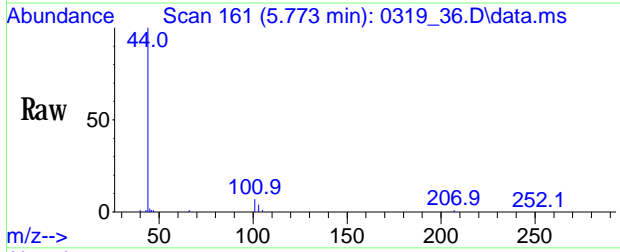
Tgt Ion	Ratio	Lower	Upper
43	100		
58	26.3	18.6	27.8





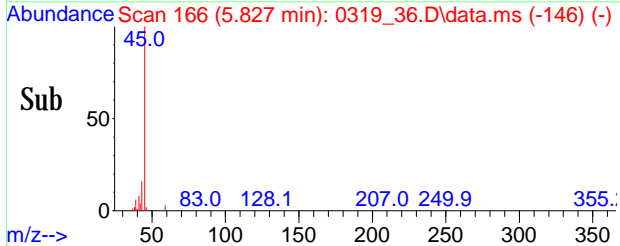
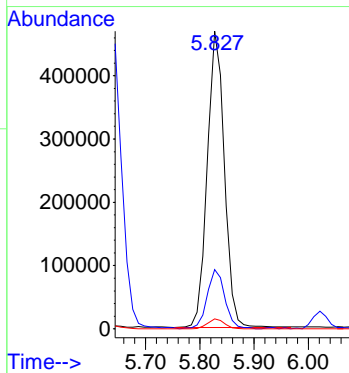
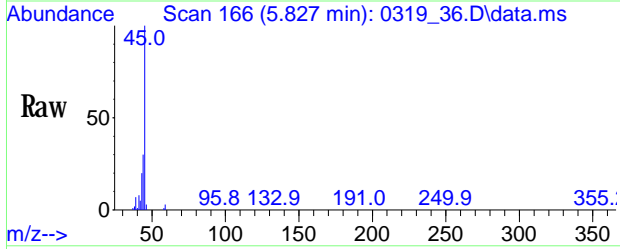
#13
 Trichlorofluoromethane
 Conc: 8S 0.240 ppbv
 RT: 5.773 min Scan# 161
 Delta R.T. 0.011 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

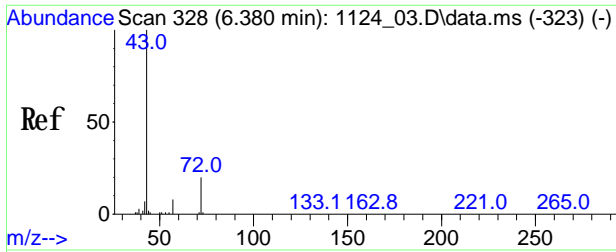
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	19735		
103	65.0	53.4	80.0	
66	15.3	11.2	16.8	



#14
 Isopropylalcohol
 Conc: 8S 10.383 ppbv
 RT: 5.827 min Scan# 166
 Delta R.T. 0.011 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

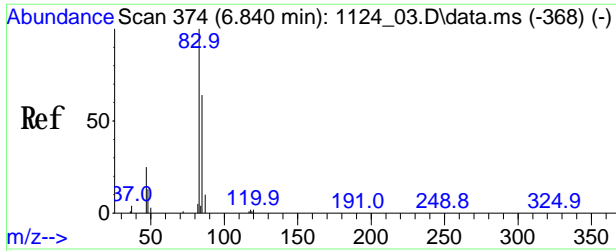
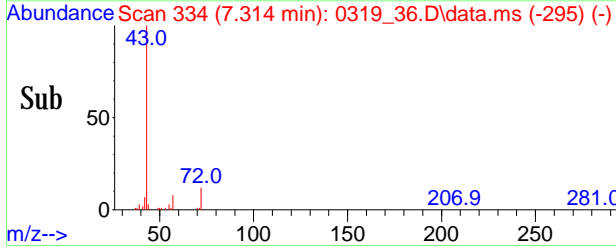
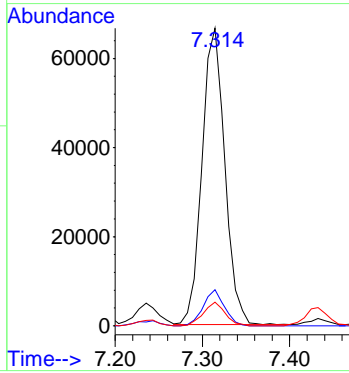
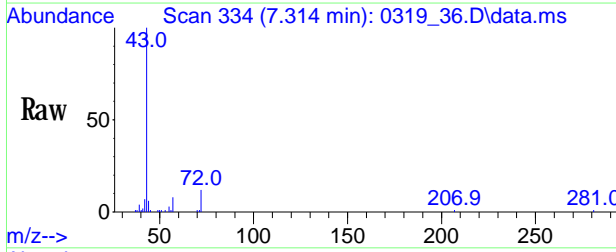
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	1024648		
43	20.8	16.6	24.8	
59	3.3	2.4	3.6	





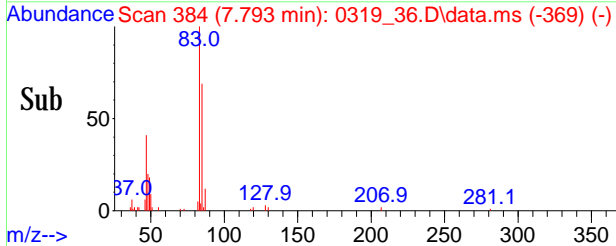
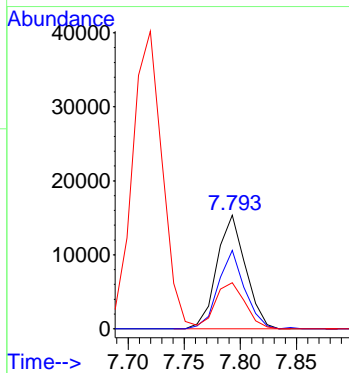
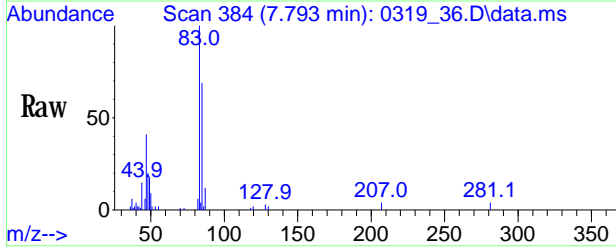
#26
 Methyl Ethyl Ketone
 Conc: 8S 1.157 ppbv
 RT: 7.314 min Scan# 334
 Delta R.T. 0.008 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

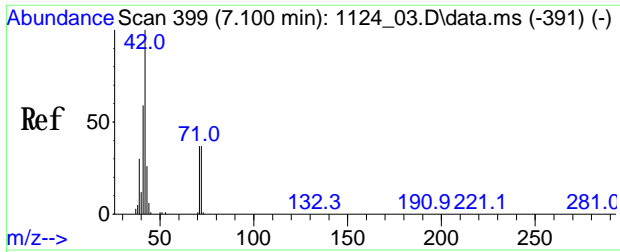
Tgt Ion	Ratio	Lower	Upper
43	100		
72	11.3	11.1	16.7
57	7.7	6.0	9.0



#29
 Chloroform
 Conc: 8S 0.422 ppbv
 RT: 7.793 min Scan# 384
 Delta R.T. 0.002 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

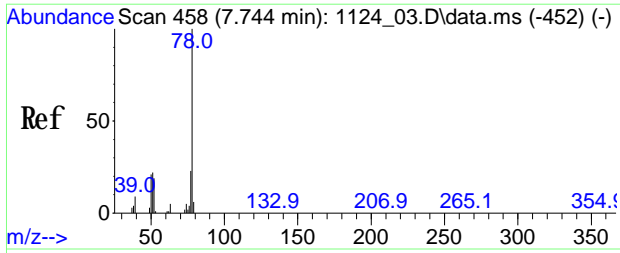
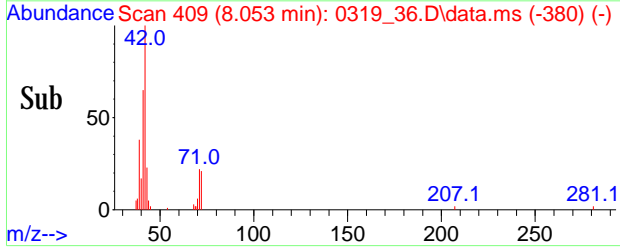
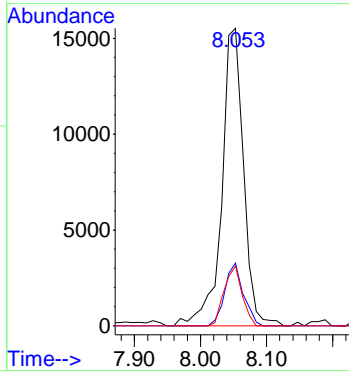
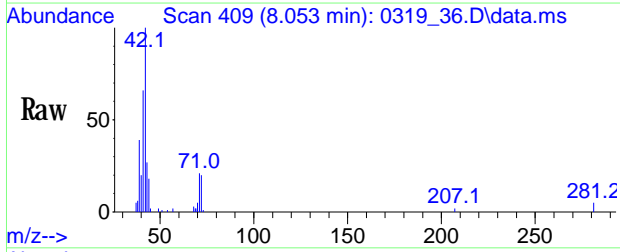
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	41.5	81.5
47	42.0	22.2	62.2





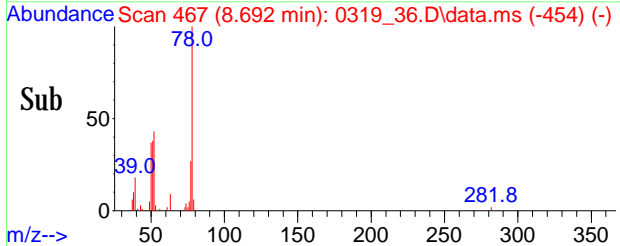
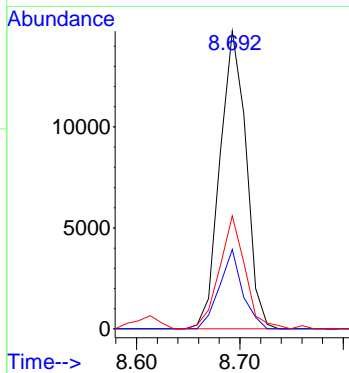
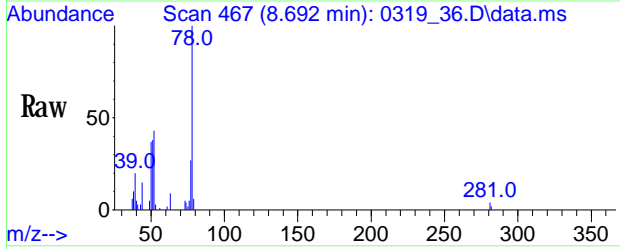
#31
 Tetrahydrofuran
 Conc: 8S 0.642 ppbv
 RT: 8.053 min Scan# 409
 Delta R.T. 0.002 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

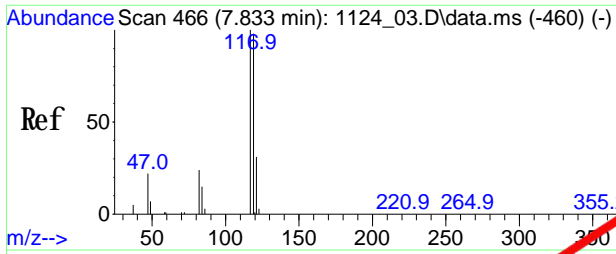
Tgt Ion	Ratio	Lower	Upper
42	100		
71	18.1	19.4	29.2#
72	16.6	18.0	27.0#



#34
 Benzene
 Conc: 8S 0.324 ppbv
 RT: 8.692 min Scan# 467
 Delta R.T. 0.002 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

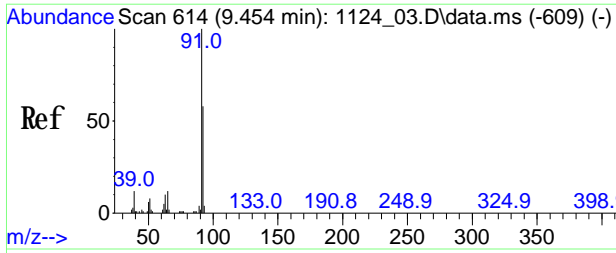
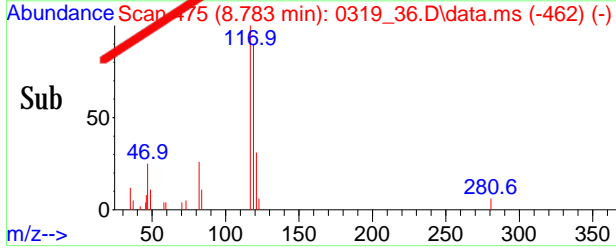
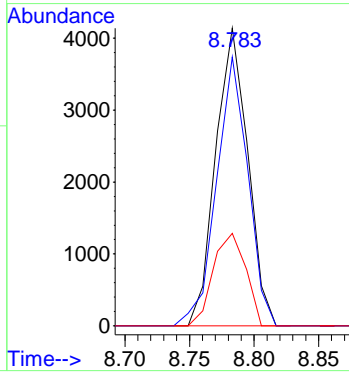
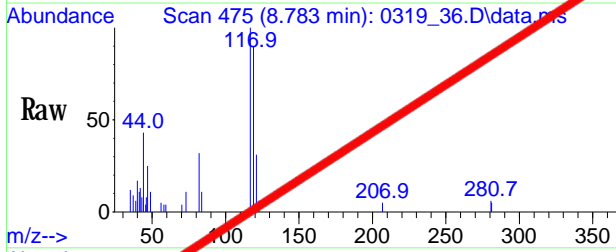
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.2	28.8
51	37.9	24.7	37.1#





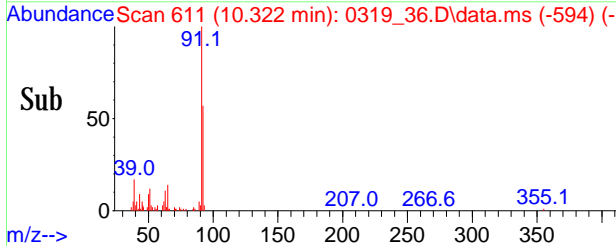
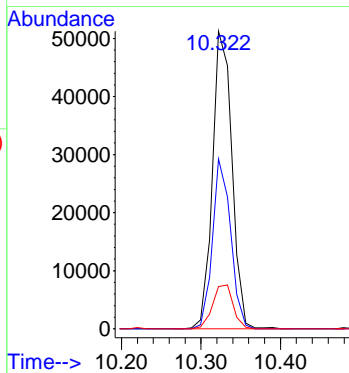
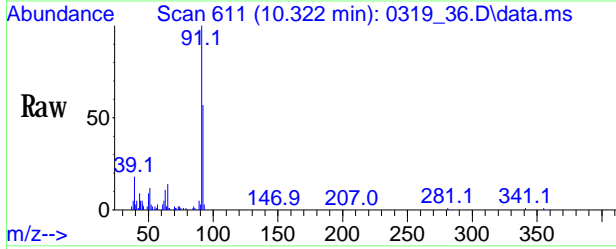
#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 8.783 min Scan# 475
 Delta R.T: 0.002 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

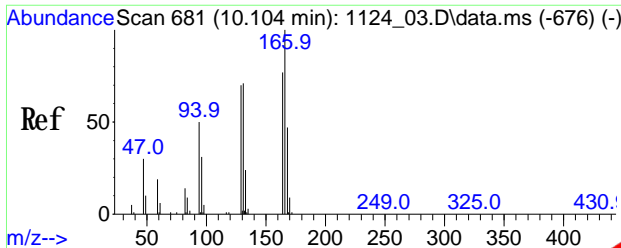
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	7160		
119	88.4	77.5	117.5	
121	31.5	10.7	50.7	



#49
 Toluene
 Conc: 8S 0.900 ppbv
 RT: 10.322 min Scan# 611
 Delta R.T: -0.009 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

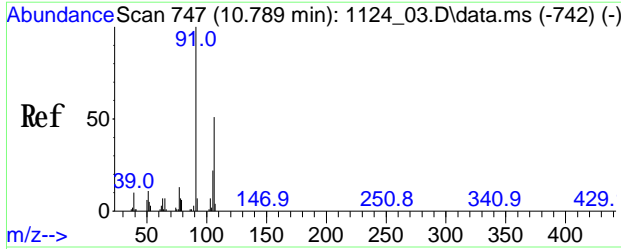
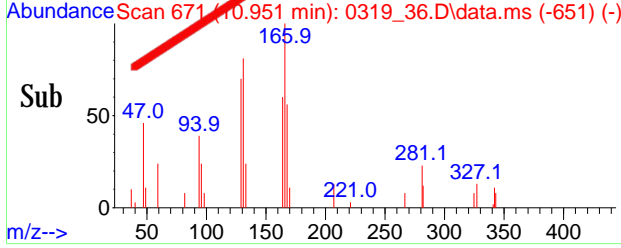
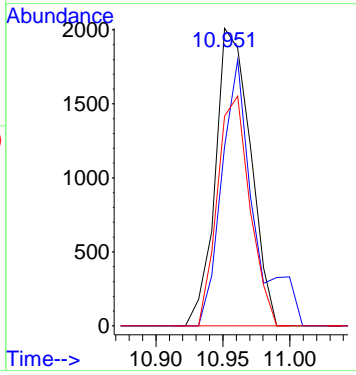
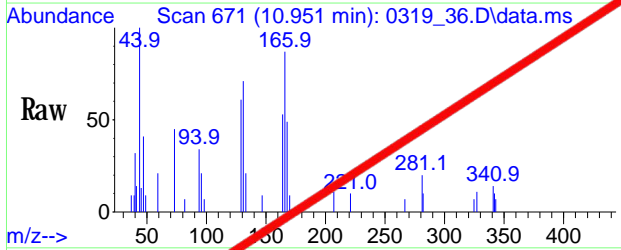
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	86794		
92	53.3	43.9	65.9	
65	15.6	10.2	15.2#	





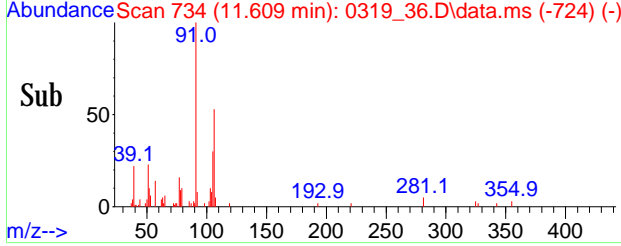
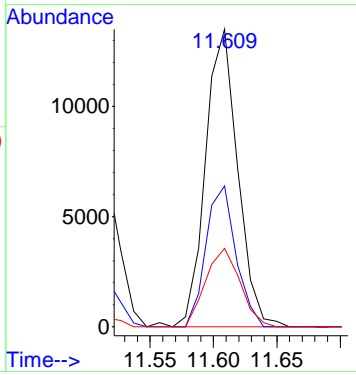
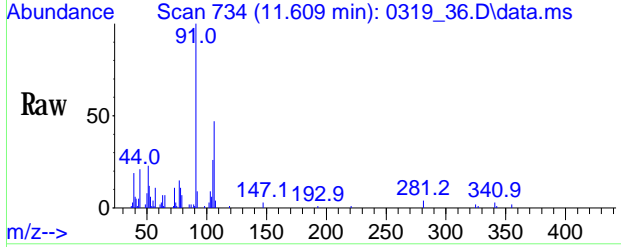
#53
 Tetrachloroethene
 Conc: 8S Below Cal
 RT: 10.951 min Scan# 671
 Delta R.T. 0.007 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

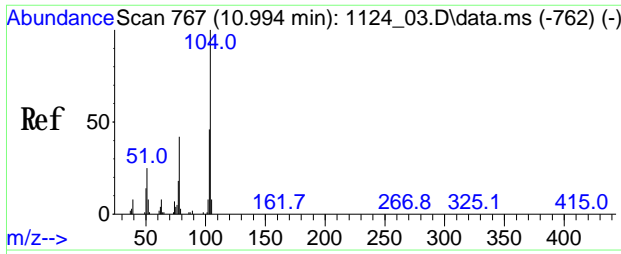
Tgt Ion	Ratio	Lower	Upper
166	100		
164	81.9	60.0	90.0
129	71.6	59.0	88.4



#58
 m p-Xylene
 Conc: 8S 0.273 ppbv
 RT: 11.609 min Scan# 734
 Delta R.T. 0.003 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

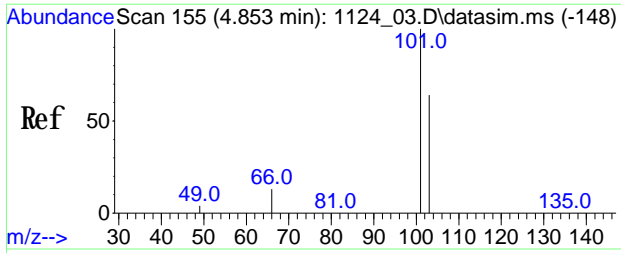
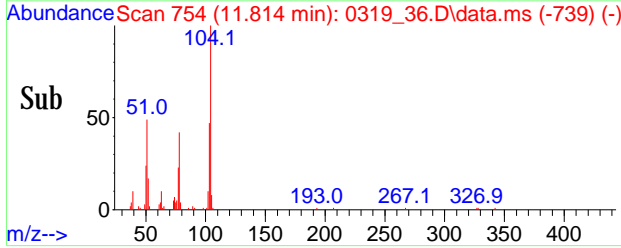
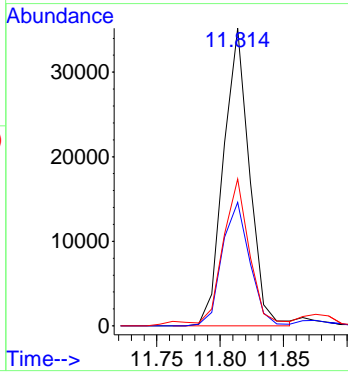
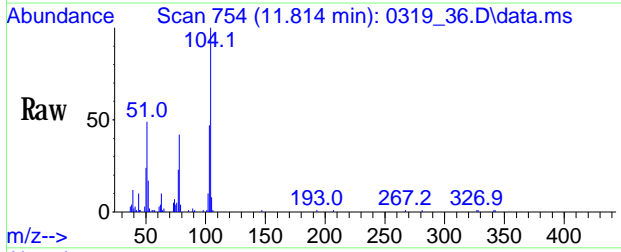
Tgt Ion	Ratio	Lower	Upper
91	100		
106	44.2	39.8	59.8
105	28.2	19.9	29.9





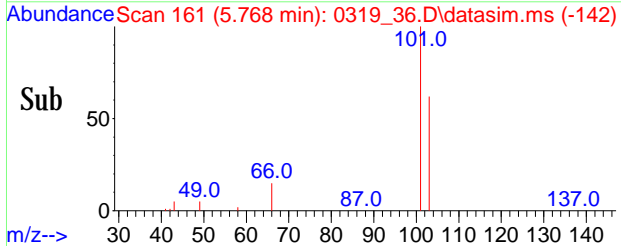
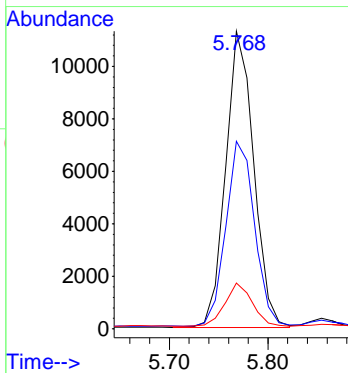
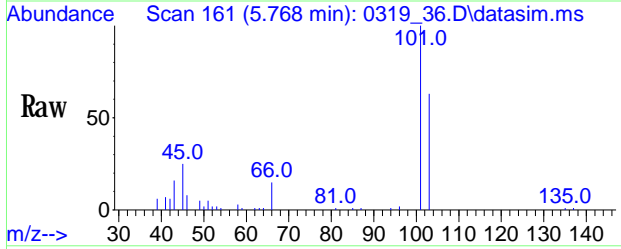
#60
 Styrene
 Conc: 8S 0.810 ppbv
 RT: 11.814 min Scan# 754
 Delta R.T. 0.003 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

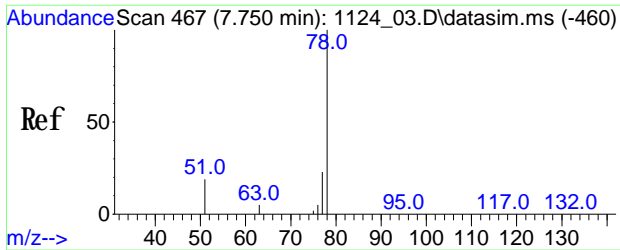
Tgt Ion	Ratio	Lower	Upper
104	100		
78	44.5	34.2	51.4
51	51.9	32.8	49.2#



#85
 Trichlorofluoromethane (sim)
 Conc: 8S 0.254 ppbv
 RT: 5.768 min Scan# 161
 Delta R.T. -0.000 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

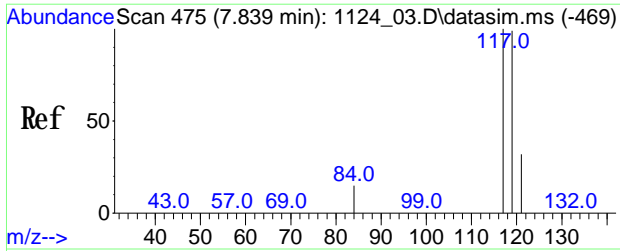
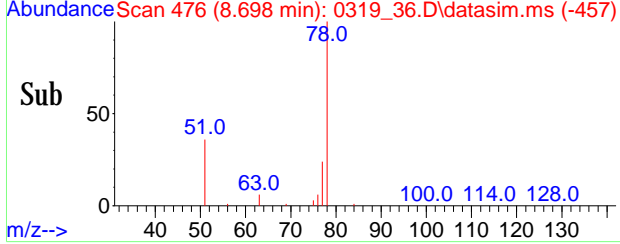
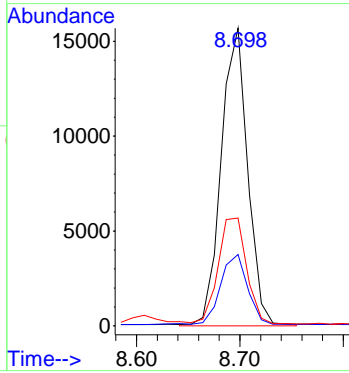
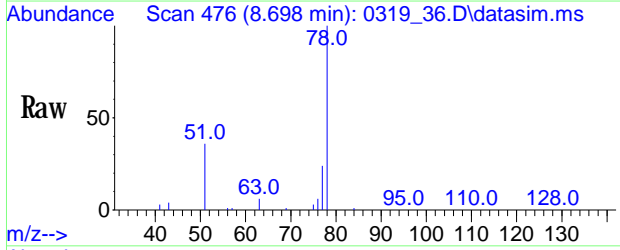
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.2	51.2	76.8
66	14.1	13.5	13.5#





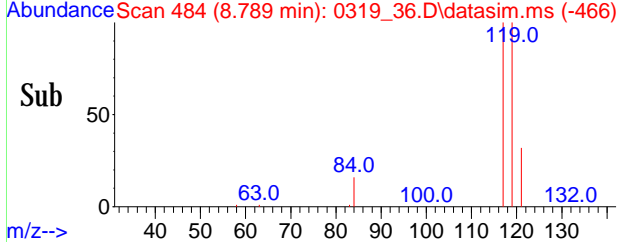
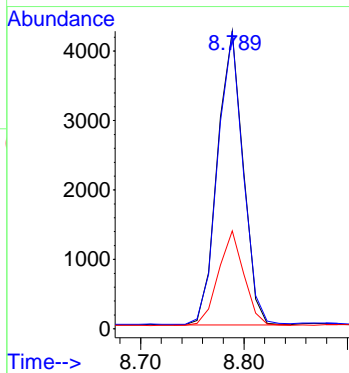
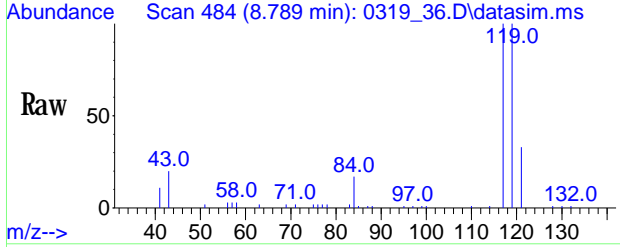
#88
 Benzene(sim)
 Conc: 8S 0.319 ppbv
 RT: 8.692 min Scan# 476
 Delta R.T. 0.002 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

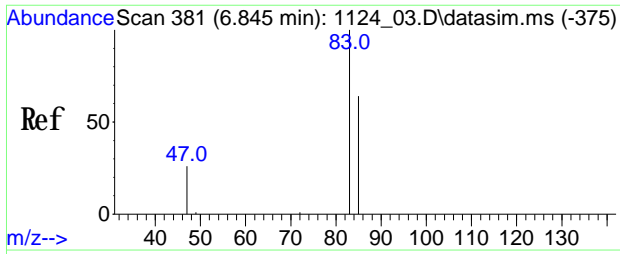
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	25884		
77	23.5	19.2	28.8	
51	37.9	24.7	37.1#	



#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.094 ppbv
 RT: 8.789 min Scan# 484
 Delta R.T. 0.002 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

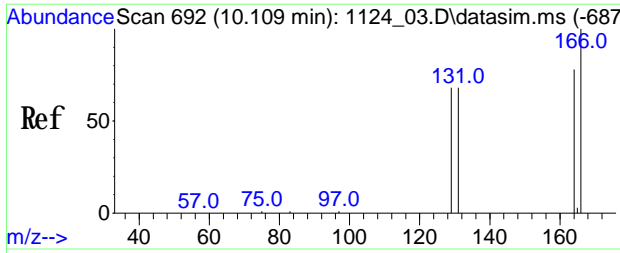
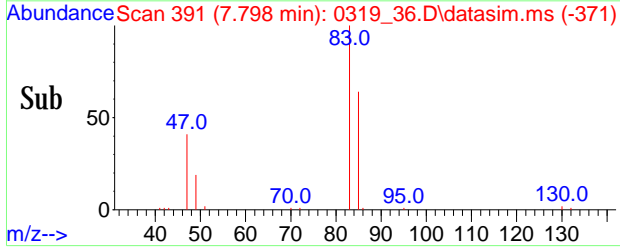
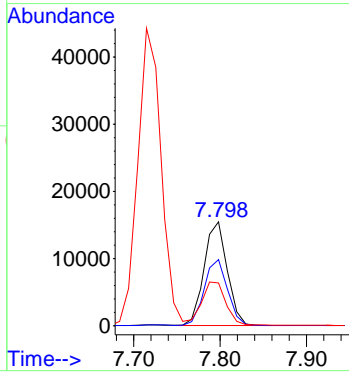
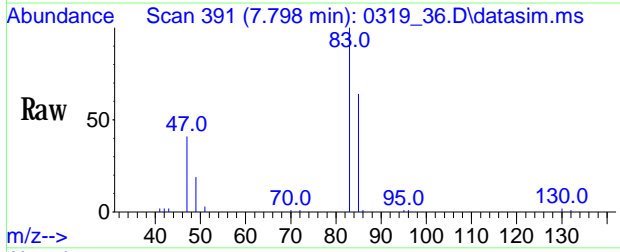
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	7251		
119	98.7	76.2	114.4	
121	32.8	23.9	35.9	





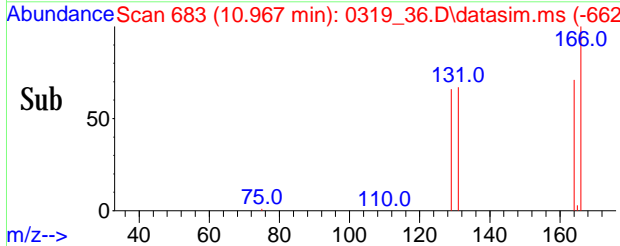
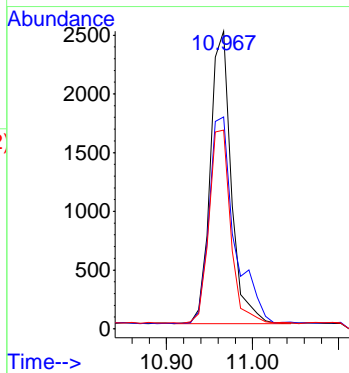
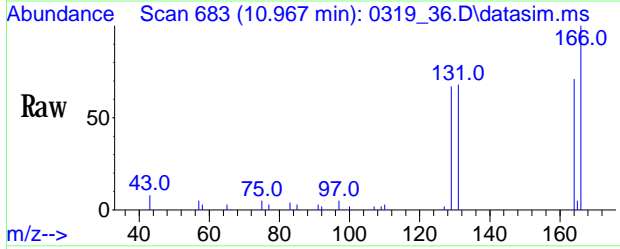
#95
 Chloroform(sim)
 Conc: 8S 0.409 ppbv
 RT: 7.798 min Scan# 391
 Delta R.T. 0.013 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

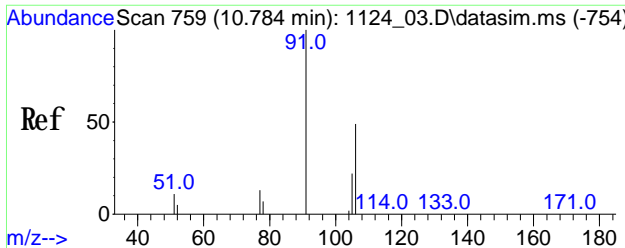
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	53.4	80.2
47	44.3	33.8	50.8



#105
 Tetrachloroethene(sim)
 Conc: 8S 0.057 ppbv
 RT: 10.967 min Scan# 683
 Delta R.T. 0.002 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

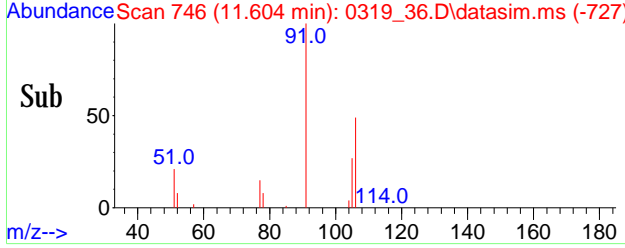
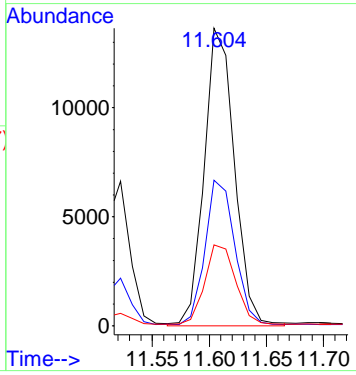
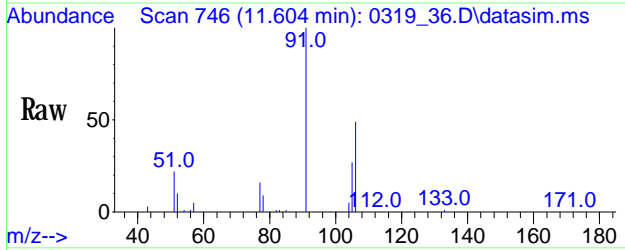
Tgt Ion	Ratio	Lower	Upper
166	100		
164	86.2	59.0	99.0
129	69.2	54.3	94.3





#108
 m p-Xylene (sim)
 Conc: 85 0.269 ppbv
 RT: 11.609 min Scan# 746
 Delta R.T. 0.003 min
 Lab File: 0319_36.D
 Acq: 20 Mar 2022 2:49 am

Tgt Ion	Ratio	Lower	Upper
91	100		
106	44.2	44.8	54.8#
105	28.2	19.9	29.9



Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_27.D
 Acq On : 19 Mar 2022 9:44 pm
 Operator :
 Client ID : VP-1 5X
 Lab ID : CK90292 5X
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 20 08:53:41 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

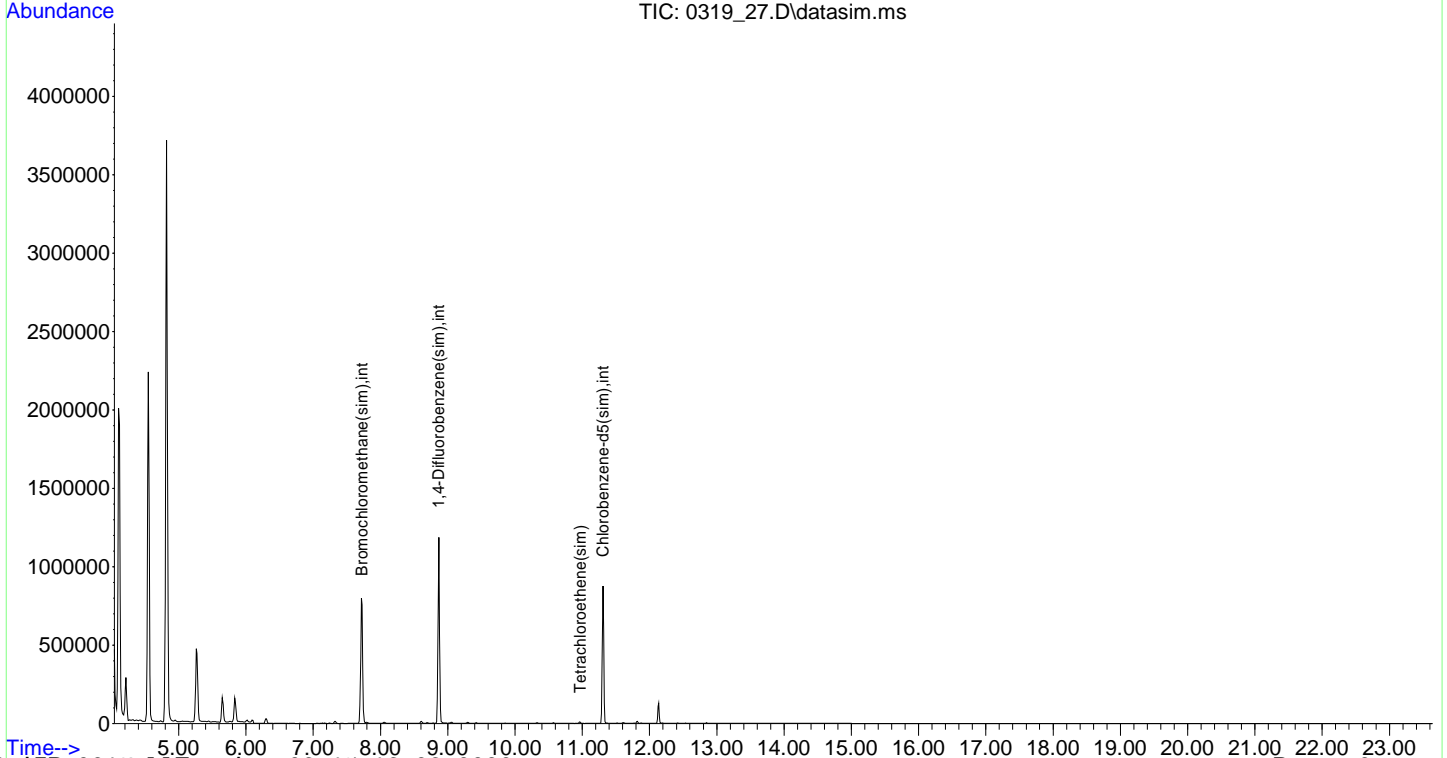
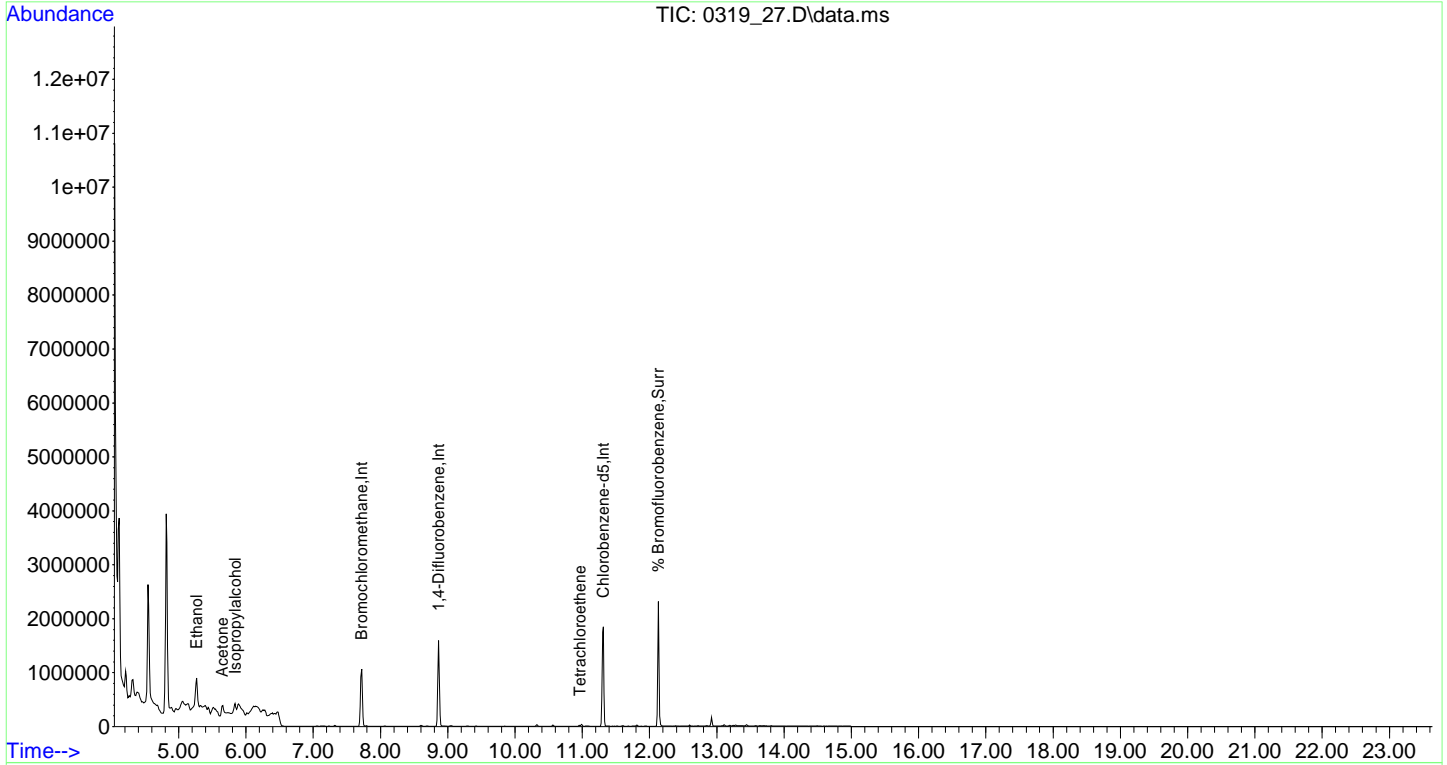
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	7.720	130	276168	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	931657	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	430424	10.000	ng	0.00
81) Bromchloromethane(sim)	7.725	130	302645	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	8.862	114	931544	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	430424	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromfluorobenzene	12.132	95	564957	10.219	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	102.20%	
Target Compounds						
11) Ethanol	5.267	45	562936	25.527	ppbv	96
12) Acetone	5.644	43	163418	2.123	ppbv	91
14) Isopropylalcohol	5.838	45	204316	2.158	ppbv#	98
53) Tetrachloroethene	10.961	166	4041	0.079	ppbv	96
105] Tetrachloroethene(sim)	10.967	166	5120	0.073	ppbv	99

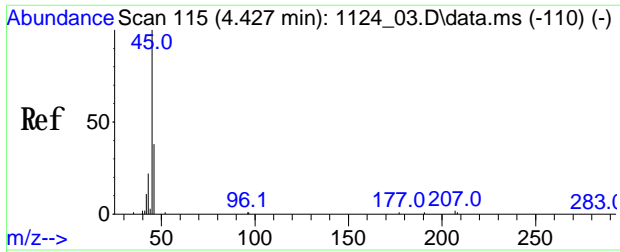
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0319_27.D
Acq On : 19 Mar 2022 9:44 pm
Operator :
Client ID : VP-1 5X
Lab ID : CK90292 5X
ALS Vial : 19 Sample Multiplier: 1

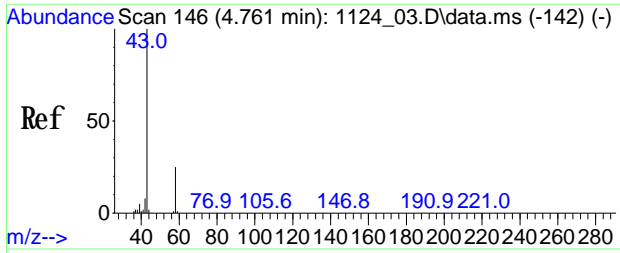
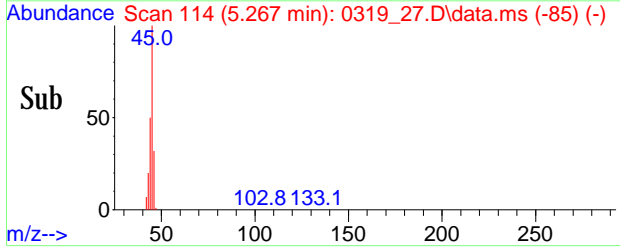
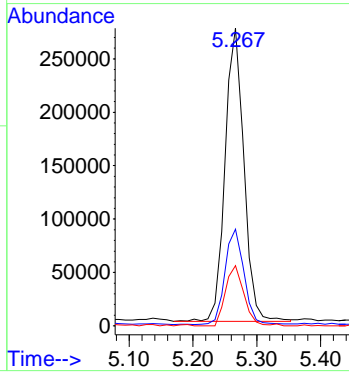
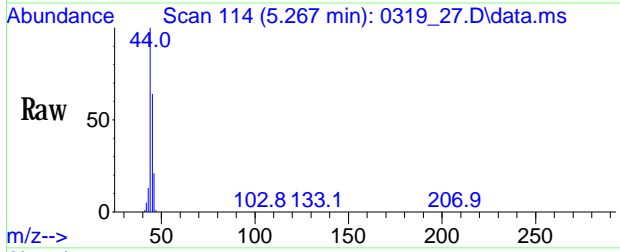
Quant Time: Mar 20 08:53:41 2022
Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 18 08:43:01 2022
Response via : Initial Calibration





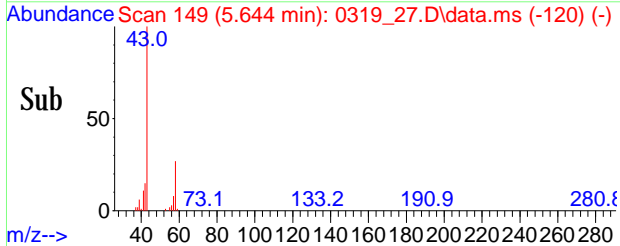
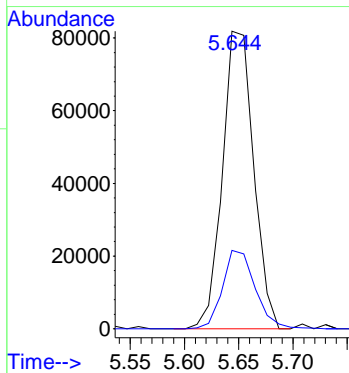
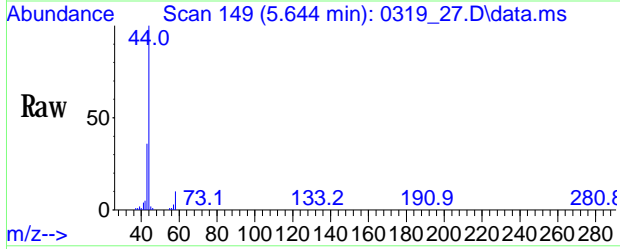
#11
 Ethanol
 Conc: 8S 25.527 ppbv
 RT: 5.267 min Scan# 114
 Delta R.T. 0.011 min
 Lab File: 0319_27.D
 Acq: 19 Mar 2022 9:44 pm

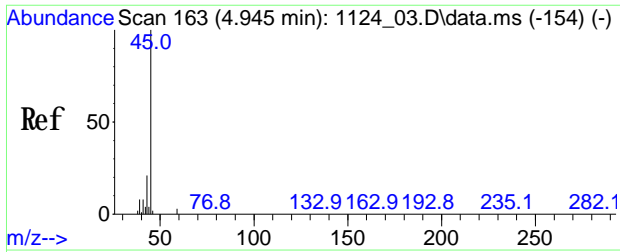
Tgt Ion	Ratio	Lower	Upper
45	100		
46	33.0	27.2	40.8
43	20.2	19.4	29.0



#12
 Acetone
 Conc: 8S 2.123 ppbv
 RT: 5.644 min Scan# 149
 Delta R.T. 0.011 min
 Lab File: 0319_27.D
 Acq: 19 Mar 2022 9:44 pm

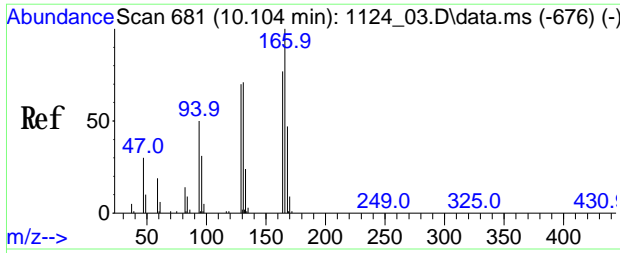
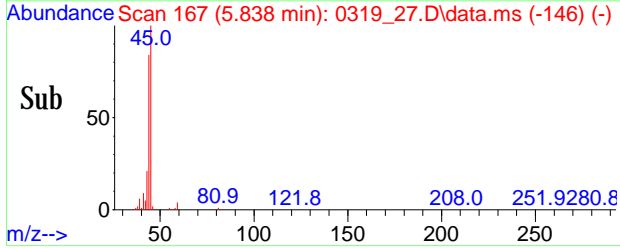
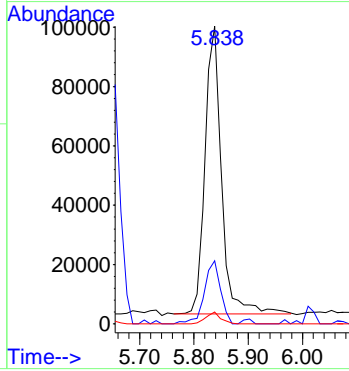
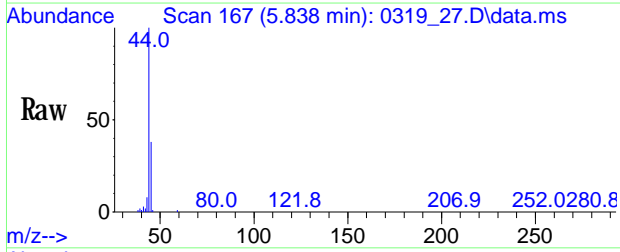
Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.6	18.6	27.8





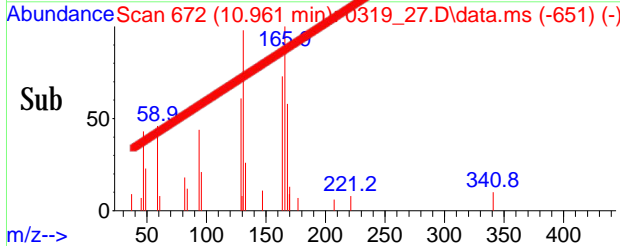
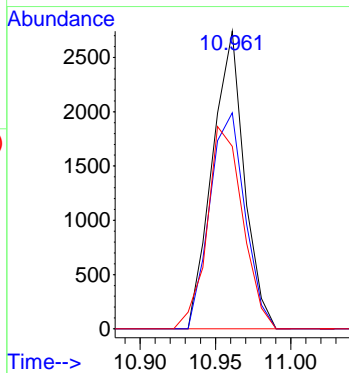
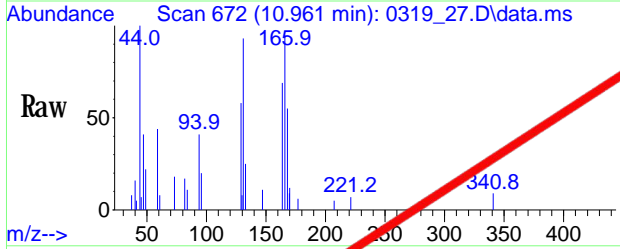
#14
 Isopropyl alcohol
 Conc: 8S 2.158 ppbv
 RT: 5.838 min Scan# 167
 Delta R.T. 0.021 min
 Lab File: 0319_27.D
 Acq: 19 Mar 2022 9:44 pm

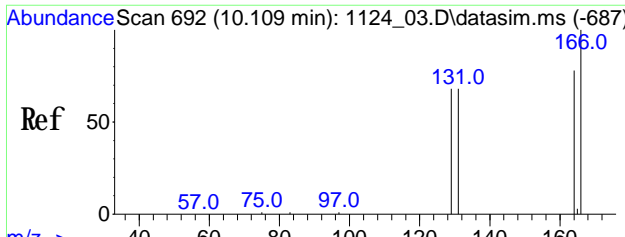
Tgt Ion	Ratio	Lower	Upper
45	100		
43	21.5	16.6	24.8
59	3.6	2.4	3.6#



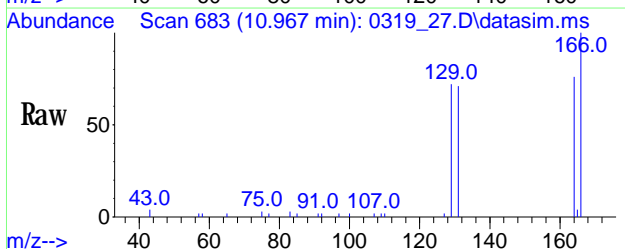
#53
 Tetrachloroethene
 Conc: 8S Below Cal
 RT: 10.961 min Scan# 672
 Delta R.T. 0.002 min
 Lab File: 0319_27.D
 Acq: 19 Mar 2022 9:44 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
104	79.9	60.0	90.0
129	75.5	59.0	88.4

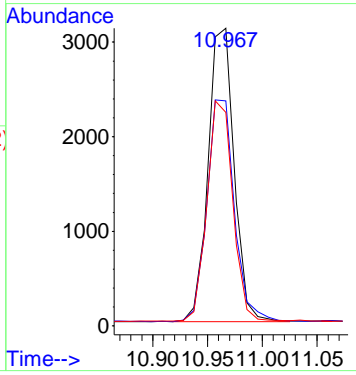
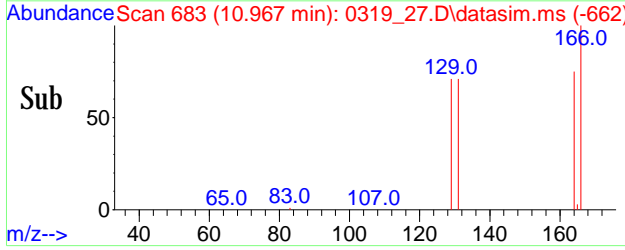




#105
 Tetrachloroethene(sim)
 Conc: 8S 0.073 ppbv
 RT: 10.967 min Scan# 683
 Delta R.T. 0.002 min
 Lab File: 0319_27.D
 Acq: 19 Mar 2022 9:44 pm



Tgt Ion	Resp	Lower	Upper
166	100		
164	80.0	59.0	99.0
129	74.8	54.3	94.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-1

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90293
Canister:	28598	Lab File ID:	0319_16.D
Instrument:	CHEM20	Column:	RTX-1 60M
		Date Received:	03/18/22
Purge Volume	200 (cc)	Date Analyzed:	03/19/22
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.513		0.202	0.202	r
74-87-3	Chloromethane	0.694		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	646	ES	0.531	0.531	r
67-64-1	Acetone	27.4	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.277		0.178	0.178	r
67-63-0	Isopropylalcohol	31.8	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.713		0.339	0.339	r
110-54-3	Hexane	0.400	S	0.284	0.284	r
67-66-3	Chloroform	0.205	U	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.537		0.339	0.339	r
71-43-2	Benzene	0.331		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.982		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene	0.480		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-1

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90293
Canister:	28598	Lab File ID:	0319_16.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200 (cc)	Date Received:	03/18/22
Matrix:	AIR	Date Analyzed:	03/19/22
		Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.081		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_16.D
 Acq On : 19 Mar 2022 3:46 pm
 Operator :
 Client ID : IA-1
 Lab ID : CK90293
 ALS Vial : 8 Sample Multiplier: 1

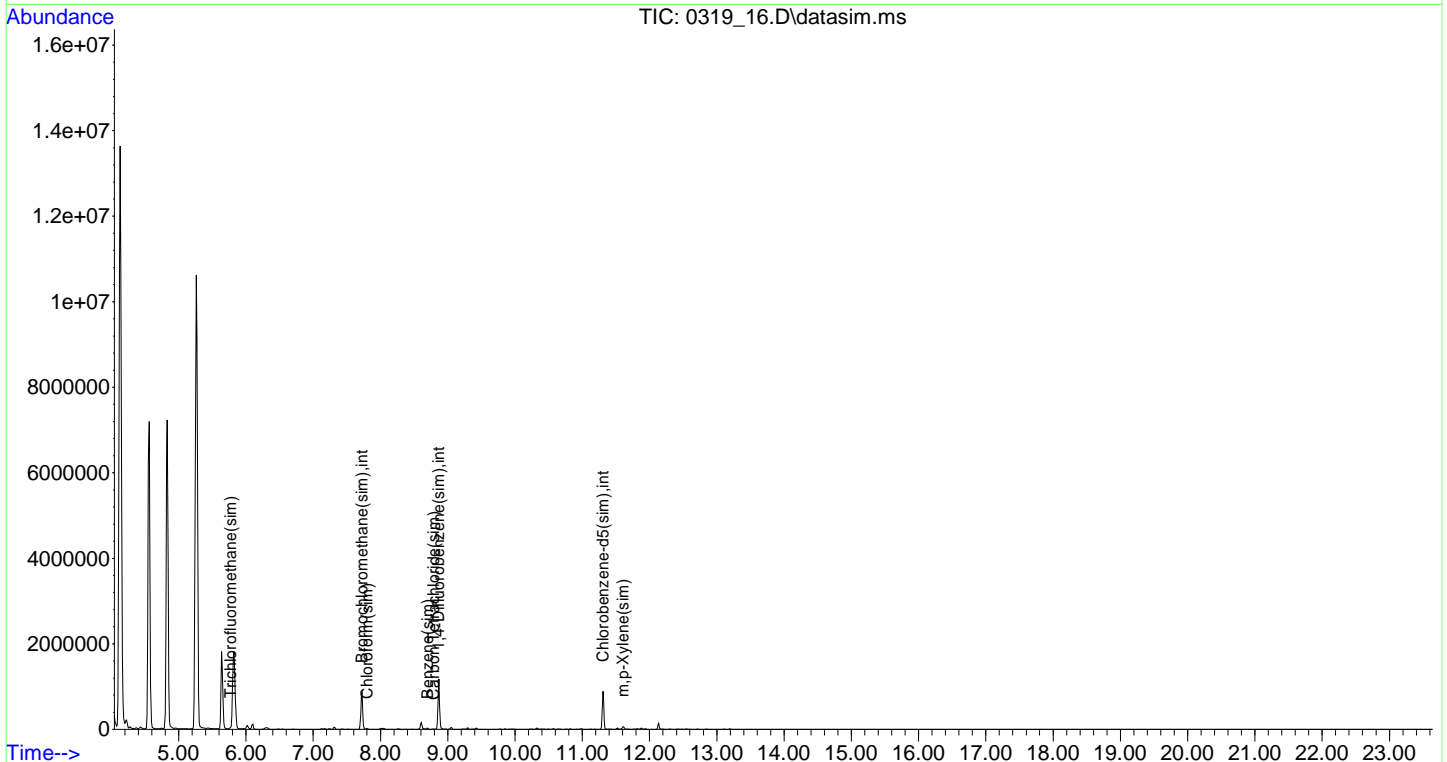
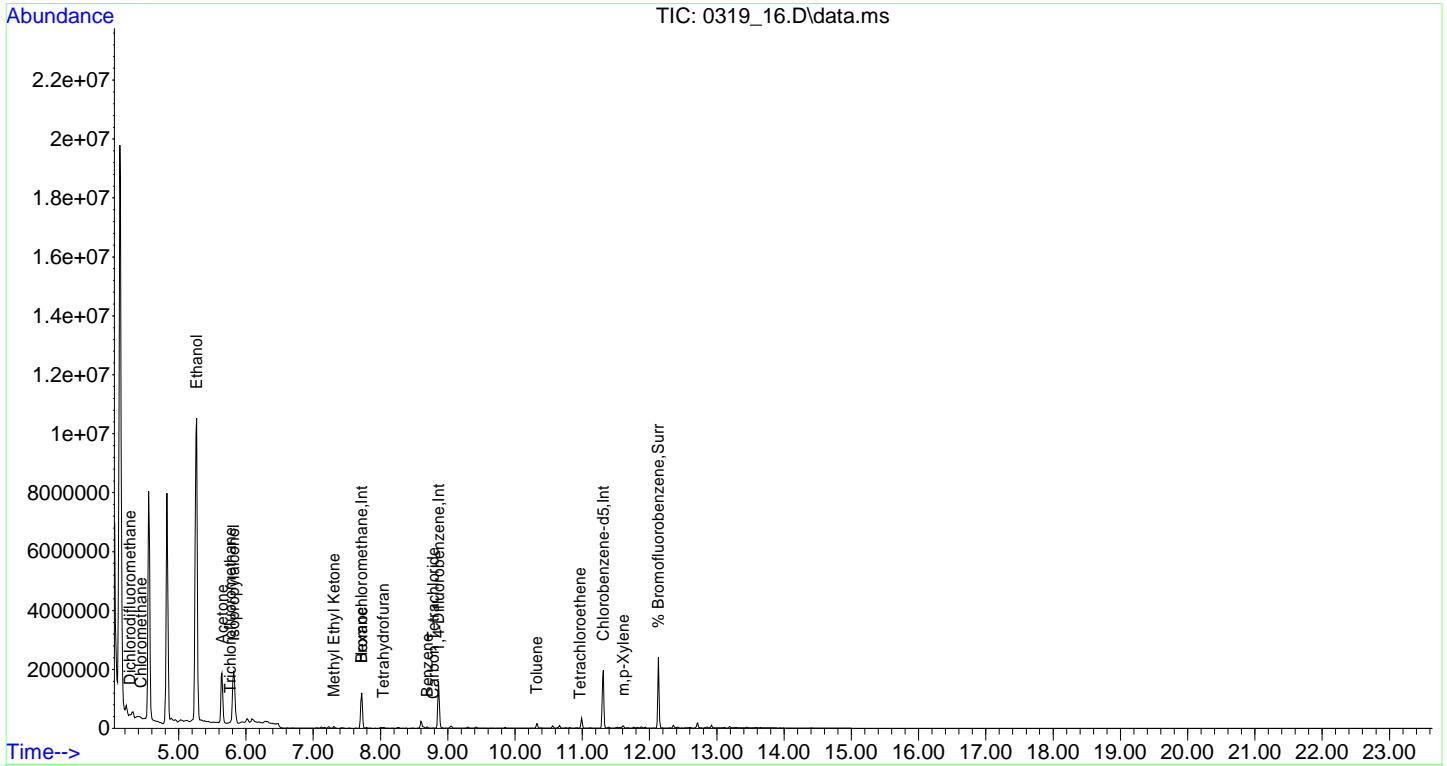
Quant Time: Mar 20 09:02:19 2022
 Quant Title :
 QLast Update : Fri Mar 18 08:42:58 2022
 Response via : Initial Calibration

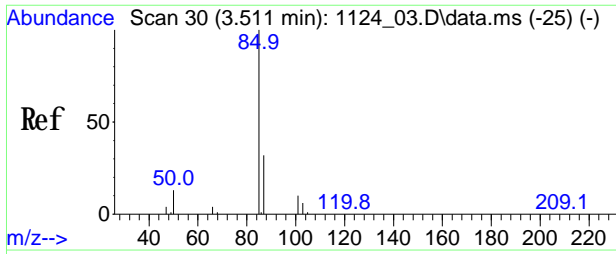
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.720	130	273887	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	942067	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	455499	10.000	ng	0.00
81) Bromochloromethane(sim)	7.725	130	299545	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	8.862	114	942202	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	455499	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.131	95	591553	10.111	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	101.10%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.275	85	37619	0.513	ppbv	97
4) Chloromethane	4.437	50	33091	0.694	ppbv	94
11) Ethanol	5.267	45	14121895	645.695	ppbv	95
12) Acetone	5.644	43	2088816	27.360	ppbv	91
13) Trichlorofluoromethane	5.762	101	21686	0.277	ppbv	99
14) Isopropylalcohol	5.816	45	2983452	31.767	ppbv	97
26) Methyl Ethyl Ketone	7.306	43	70765	0.713	ppbv	96
28) Hexane	7.720	57	26294	0.400	ppbv#	95
31) Tetrahydrofuran	8.043	42	28312	0.537	ppbv#	73
34) Benzene	8.692	78	25173	0.331	ppbv#	90
35) Carbon Tetrachloride	8.783	117	5959	0.083	ppbv	91
49) Toluene	10.322	91	90837	0.982	ppbv#	98
53) Tetrachloroethene	10.961	166	2174	0.042	ppbv#	79
58) m p-Xylene	11.609	91	41707	0.480	ppbv	97
85] Trichlorofluoromethane...	5.768	101	23774	0.285	ppbv#	99
88] Benzene(sim)	8.692	78	25173	0.327	ppbv#	90
89] Carbon Tetrachloride(sim)	8.789	117	5959	0.081	ppbv	95
94] Cis-1,2-Dichloroethene...	7.709	61	2301	0.046	ppbv#	61
95] Chloroform(sim)	7.798	83	13387	0.202	ppbv	97
105] Tetrachloroethene(sim)	10.967	166	2327	0.033	ppbv#	80
108] m p-Xylene(sim)	11.609	91	41707	0.473	ppbv	97

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_16.D
 Acq On : 19 Mar 2022 3:46 pm
 Operator :
 Client ID : IA-1
 Lab ID : CK90293
 ALS Vial : 8 Sample Multiplier: 1

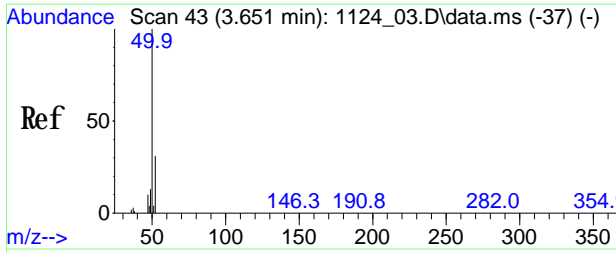
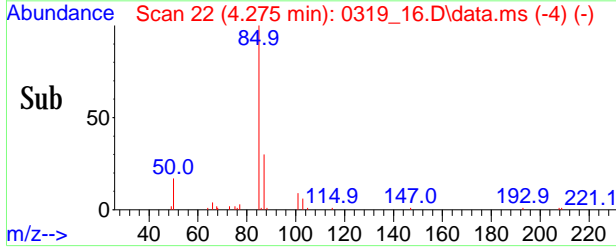
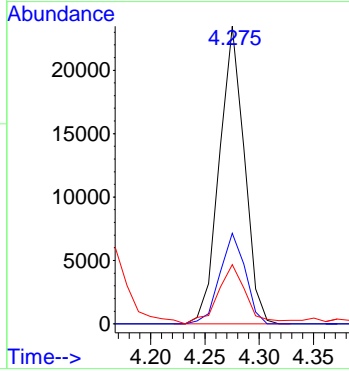
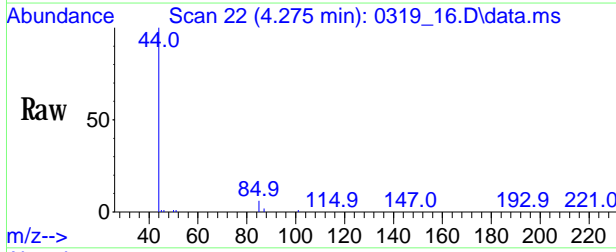
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 Quant Title :
 Last Update : Fri Mar 18 08:42:58 2022
 Response via : Initial Calibration





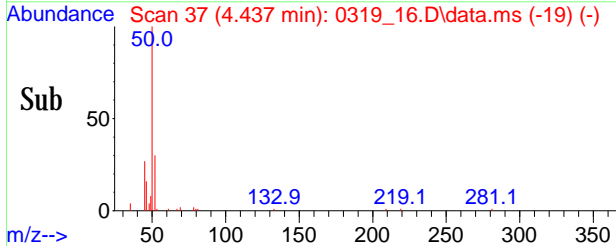
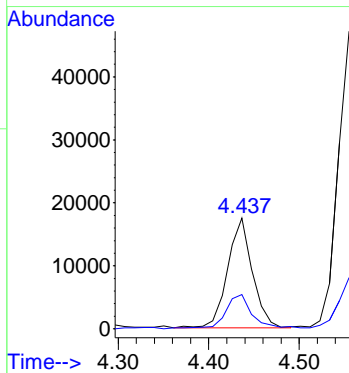
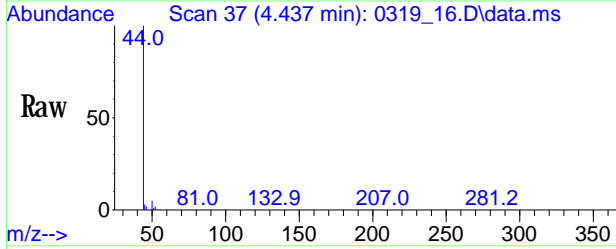
#3
Dichlorodifluoromethane
 Conc: 8S 0.513 ppbv
 RT: 4.275 min Scan# 22
 Delta R.T. -0.011 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

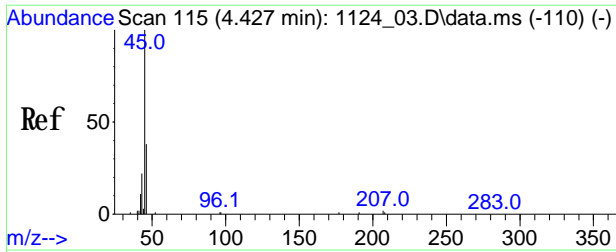
Tgt Ion	Ratio	Lower	Upper
85	100		
87	30.8	26.0	39.0
50	22.1	16.2	24.4



#4
Chloromethane
 Conc: 8S 0.694 ppbv
 RT: 4.437 min Scan# 37
 Delta R.T. -0.011 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

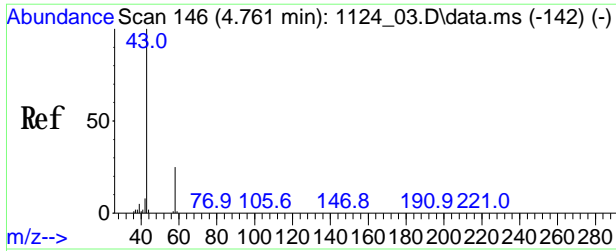
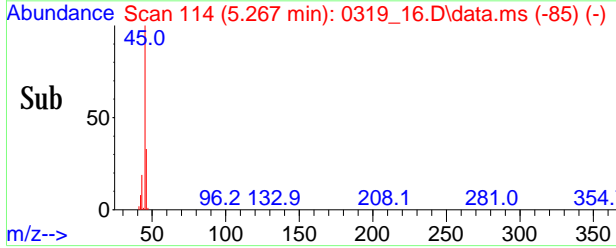
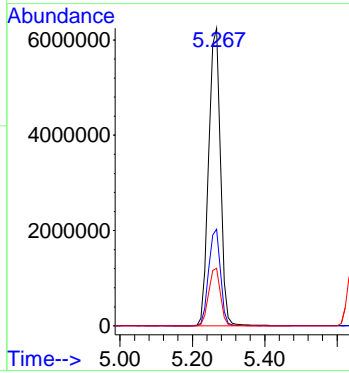
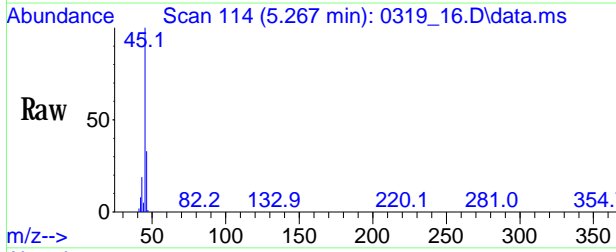
Tgt Ion	Ratio	Lower	Upper
50	100		
52	35.0	11.9	51.9





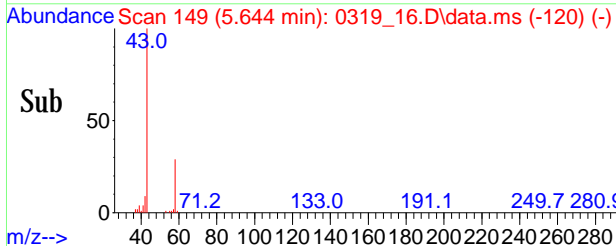
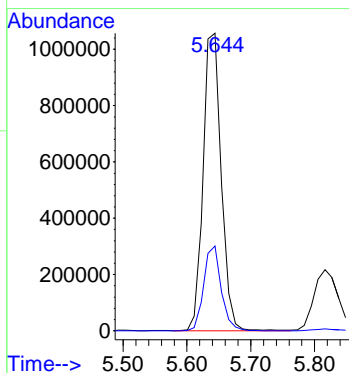
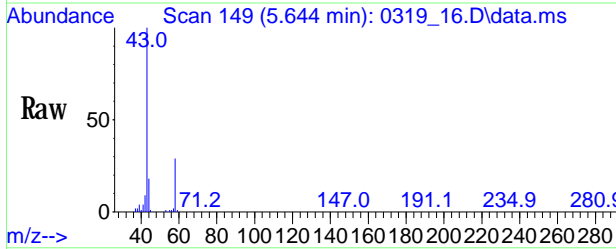
#11
 Ethanol
 Conc: 8S 645.695 ppbv
 RT: 5.267 min Scan# 114
 Delta R.T. 0.011 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

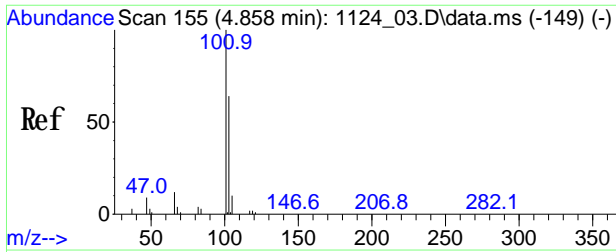
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.6	27.2	40.8
43	19.4	19.4	29.0



#12
 Acetone
 Conc: 8S 27.360 ppbv
 RT: 5.644 min Scan# 149
 Delta R.T. 0.011 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

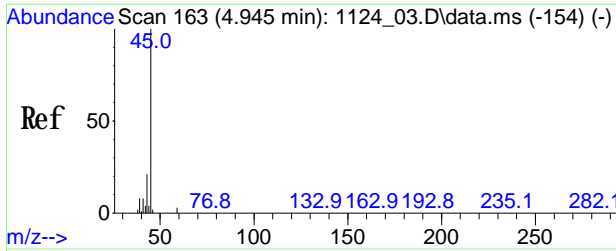
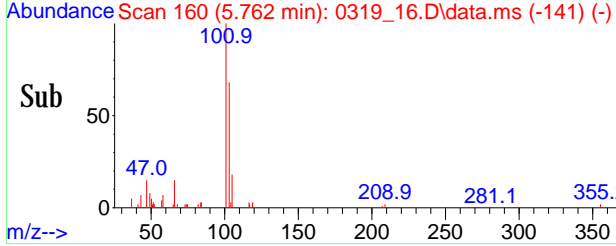
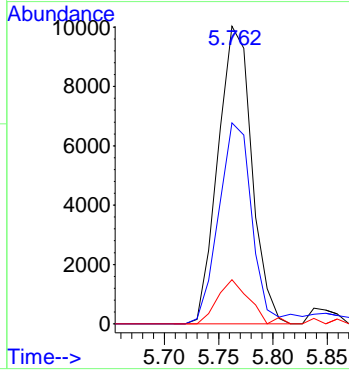
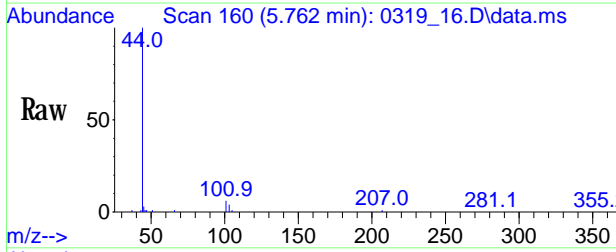
Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.5	18.6	27.8





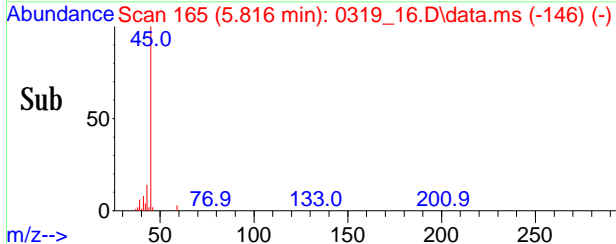
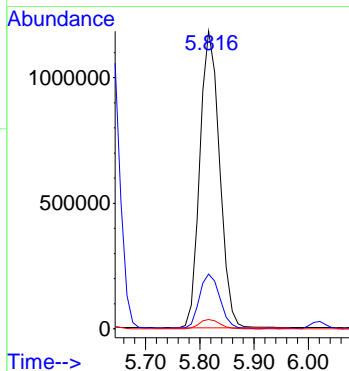
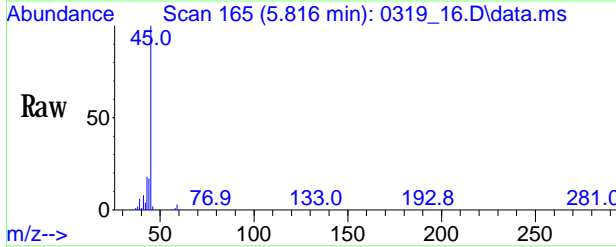
#13
 Trichlorofluoromethane
 Conc: 8S 0.277 ppbv
 RT: 5.762 min Scan# 160
 Delta R.T. -0.000 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

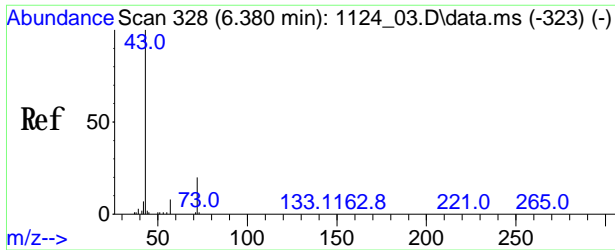
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	21686		
103	67.3	53.4	80.0	
66	14.1	11.2	16.8	



#14
 Isopropylalcohol
 Conc: 8S 31.767 ppbv
 RT: 5.816 min Scan# 165
 Delta R.T. -0.000 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

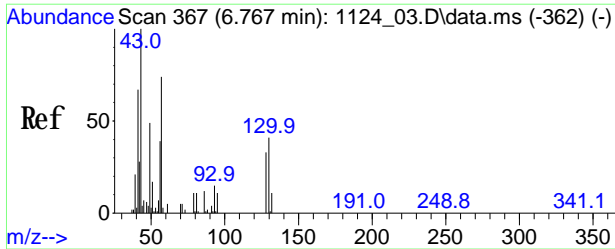
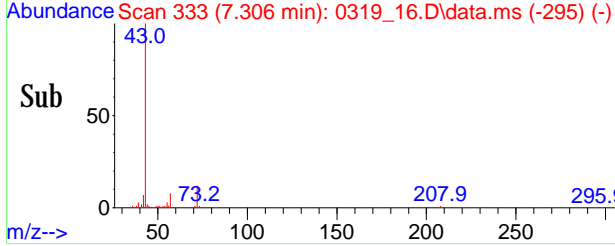
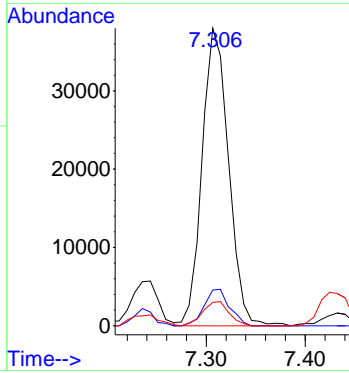
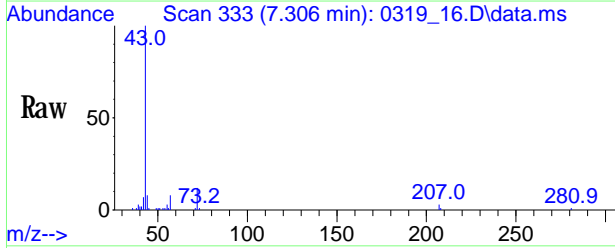
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	2983452		
43	19.3	16.6	24.8	
59	3.3	2.4	3.6	





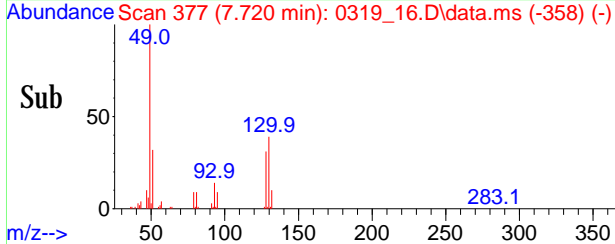
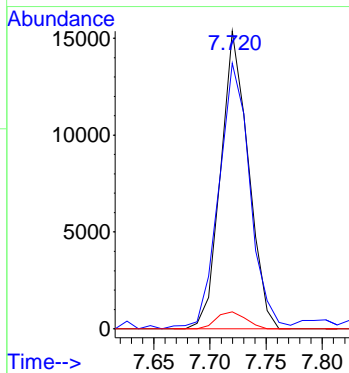
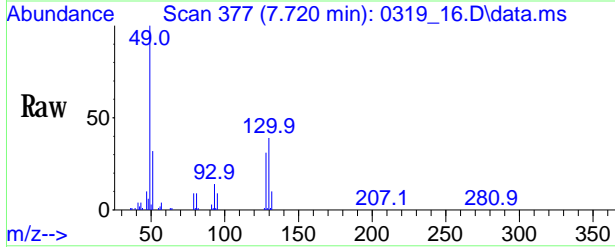
#26
 Methyl Ethyl Ketone
 Conc: 8S 0.713 ppbv
 RT: 7.306 min Scan# 333
 Delta R.T. -0.000 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

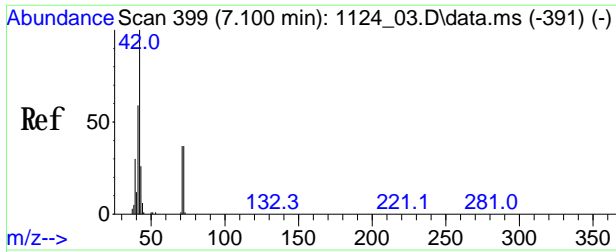
Tgt Ion	Ratio	Lower	Upper
43	100		
72	11.8	11.1	16.7
57	8.2	6.0	9.0



#28
 Hexane
 Conc: 8S 0.400 ppbv
 RT: 7.720 min Scan# 377
 Delta R.T. 0.002 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

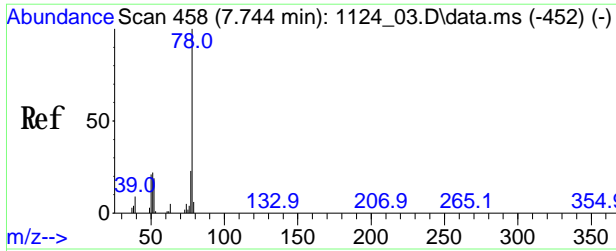
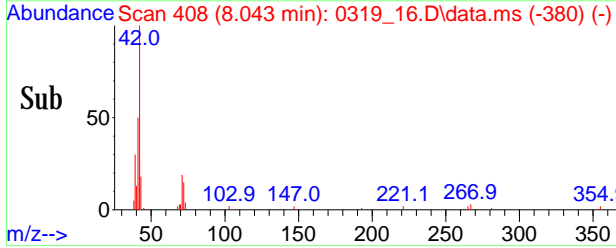
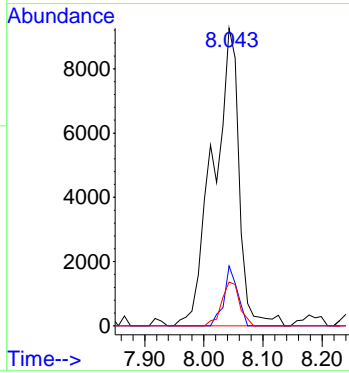
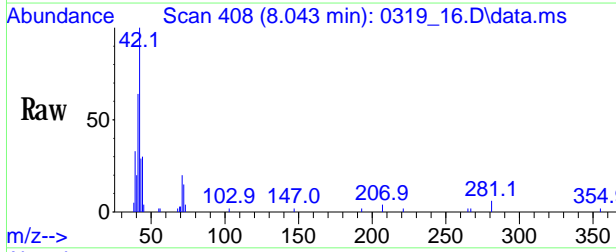
Tgt Ion	Ratio	Lower	Upper
57	100		
41	100.4	83.9	125.9
86	6.1	7.2	10.8#





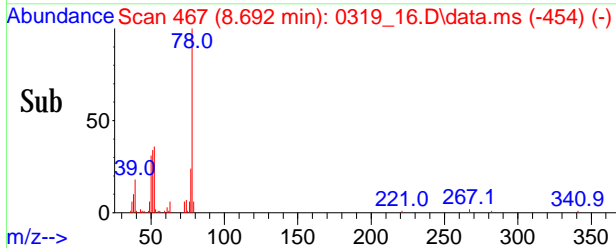
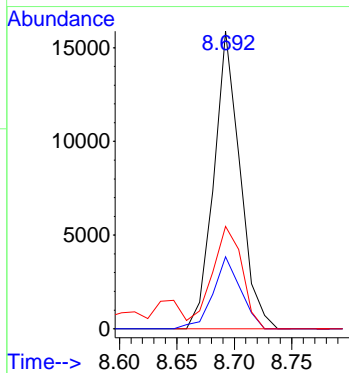
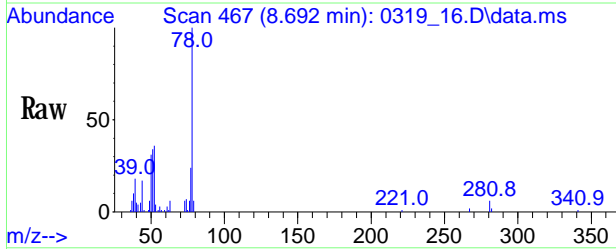
#31
 Tetrahydrofuran
 Conc: 8S 0.537 ppbv
 RT: 8.043 min Scan# 408
 Delta R.T. -0.008 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

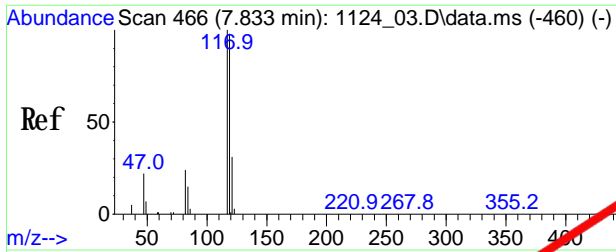
Tgt Ion	Ratio	Lower	Upper
42	100		
71	10.5	19.4	29.2#
72	10.2	18.0	27.0#



#34
 Benzene
 Conc: 8S 0.331 ppbv
 RT: 8.692 min Scan# 467
 Delta R.T. 0.002 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

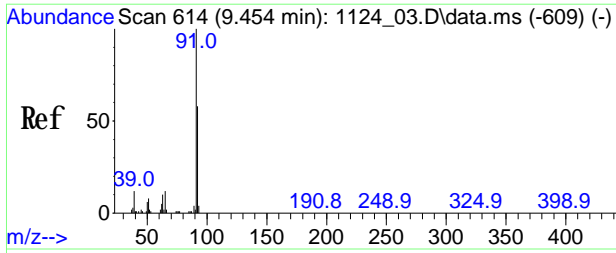
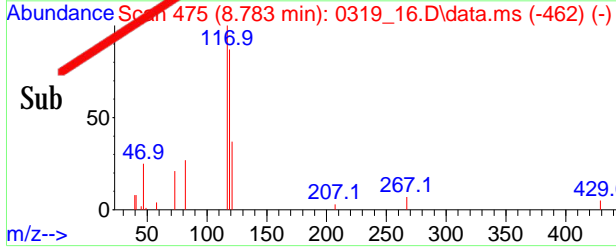
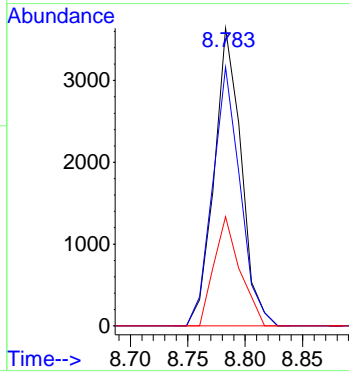
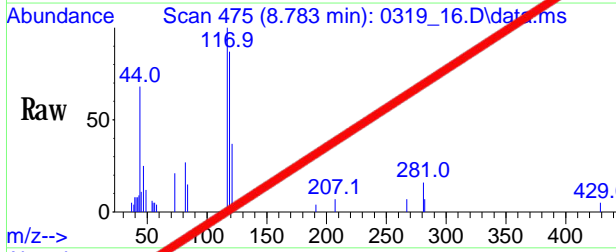
Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.6	19.2	28.8
51	39.3	24.7	37.1#





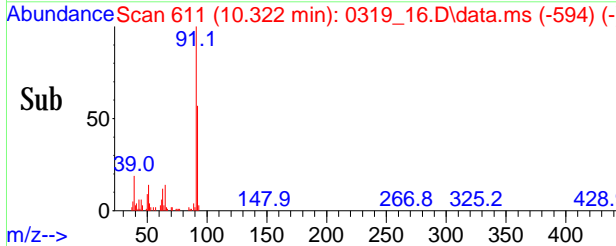
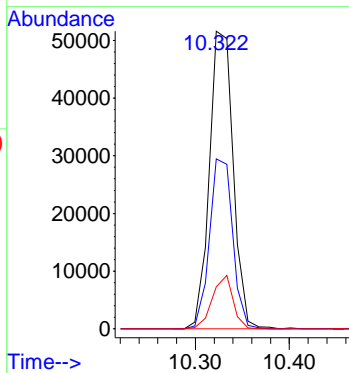
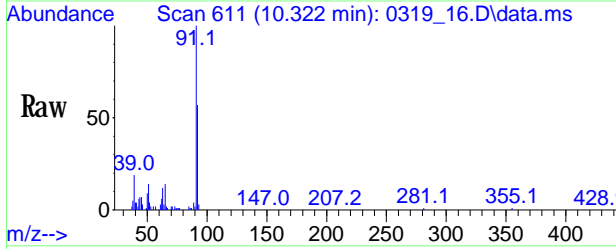
#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 8.783 min Scan# 475
 Delta R.T. 0.002 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

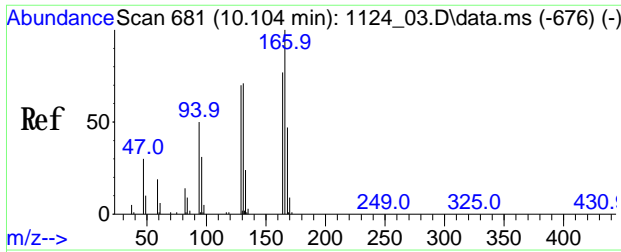
Tgt Ion	Ratio	Lower	Upper
117	100		
119	89.1	77.5	117.5
121	35.3	10.7	50.7



#49
 Toluene
 Conc: 8S 0.982 ppbv
 RT: 10.322 min Scan# 611
 Delta R.T. -0.009 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

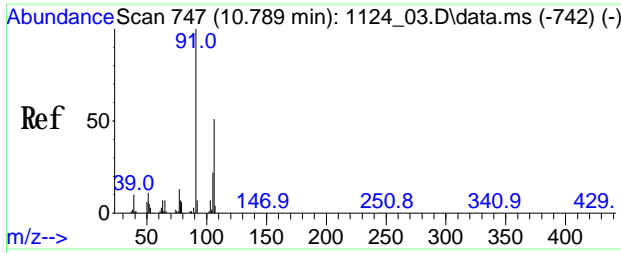
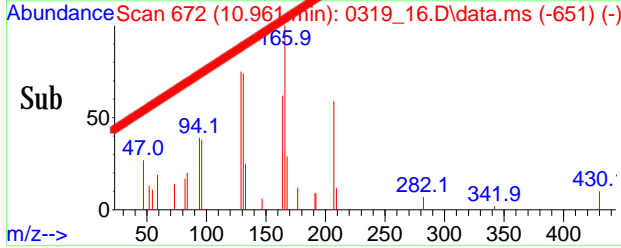
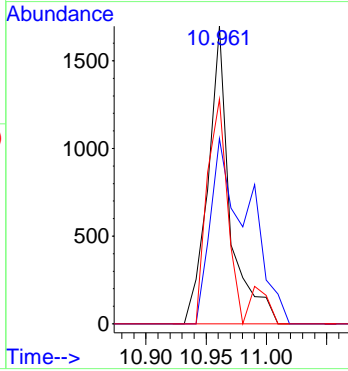
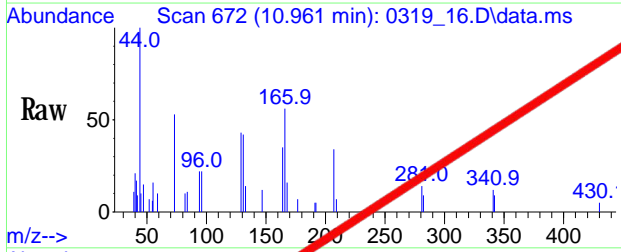
Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.5	43.9	65.9
65	15.6	10.2	15.2#





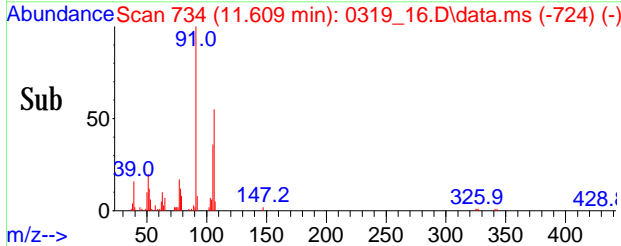
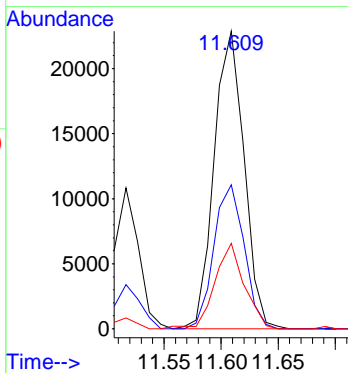
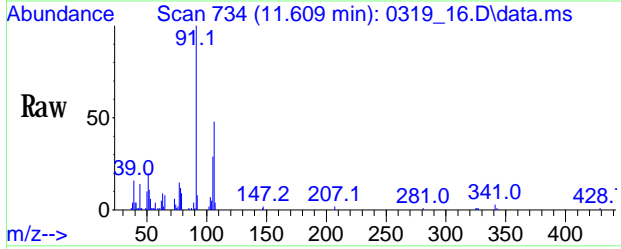
#53
 Tetrachloroethene
 Conc: 8S Below Cal
 RT: 10.961 min Scan# 672
 Delta R.T. 0.002 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

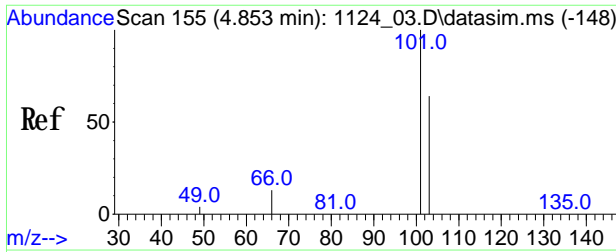
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	2174		
164	105.7	60.0	90.0	#
129	79.3	59.0	88.4	



#58
 m p-Xylene
 Conc: 8S 0.480 ppbv
 RT: 11.609 min Scan# 734
 Delta R.T. 0.003 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

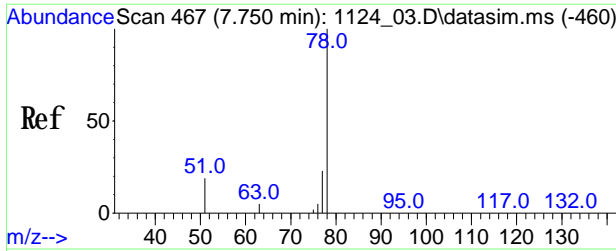
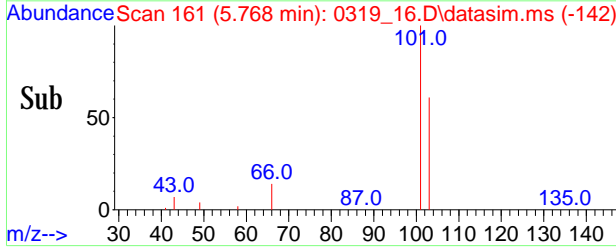
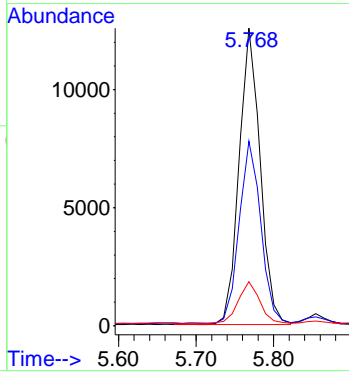
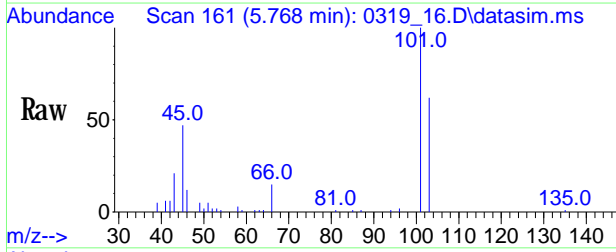
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	41707		
106	48.9	39.8	59.8	
105	28.4	19.9	29.9	





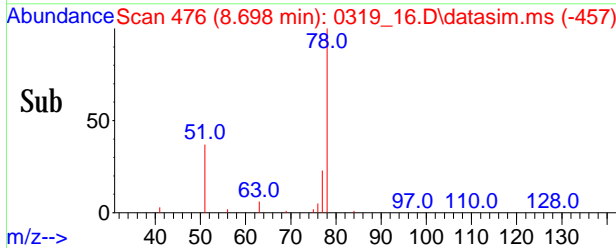
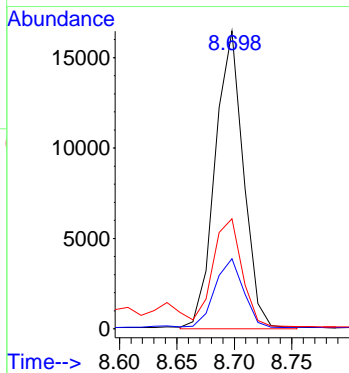
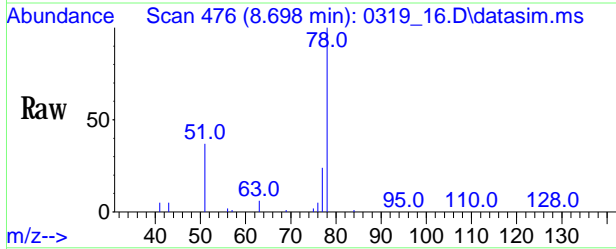
#85
 Trichlorofluoromethane (sim)
 Conc: 8S 0.285 ppbv
 RT: 5.768 min Scan# 161
 Delta R.T. -0.000 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

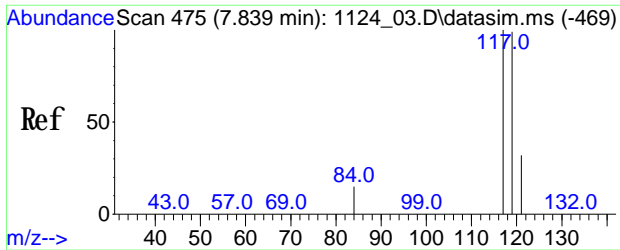
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	23774		
103	63.1	51.2	76.8	
66	14.3	13.5	13.5#	



#88
 Benzene (sim)
 Conc: 8S 0.327 ppbv
 RT: 8.692 min Scan# 476
 Delta R.T. 0.002 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

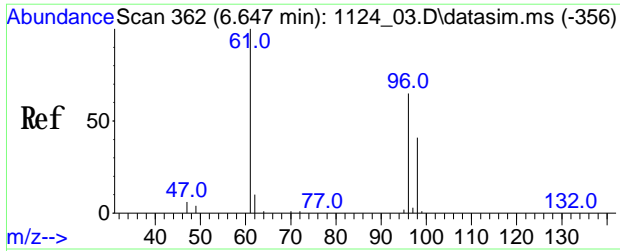
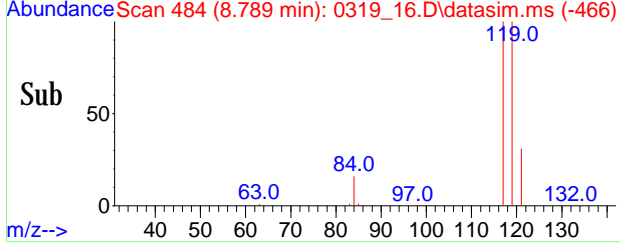
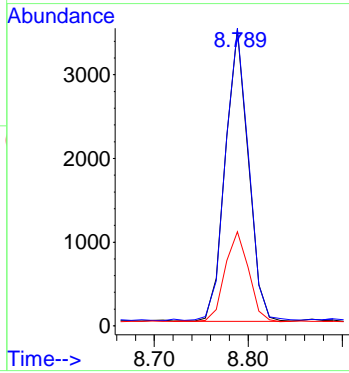
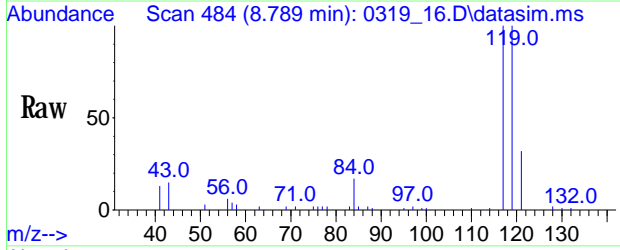
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	25173		
77	25.6	19.2	28.8	
51	39.3	24.7	37.1#	





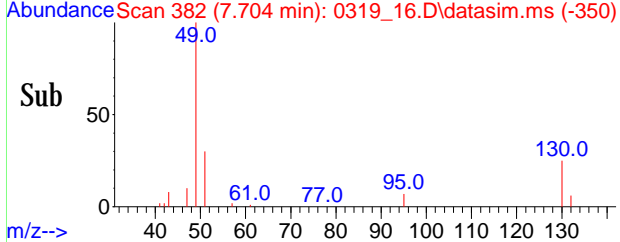
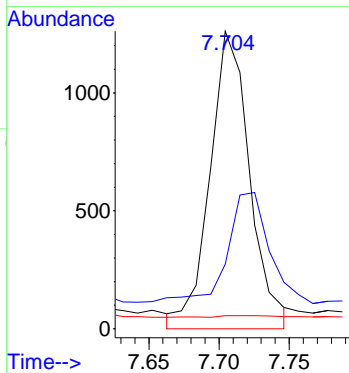
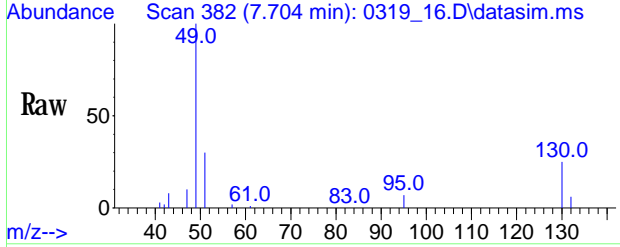
#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.081 ppbv
 RT: 8.789 min Scan# 484
 Delta R.T. 0.002 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

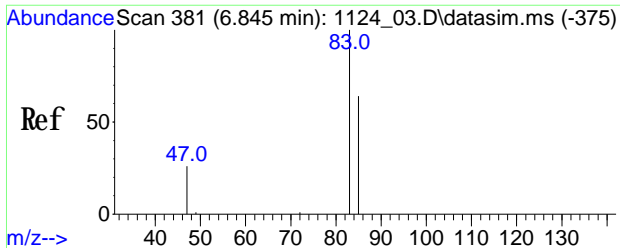
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5959		
119	100.4	76.2	114.4	
121	31.6	23.9	35.9	



#94
 Cis-1,2-Dichloroethene(sim)
 Conc: 8S 0.046 ppbv
 RT: 7.709 min Scan# 382
 Delta R.T. 0.107 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

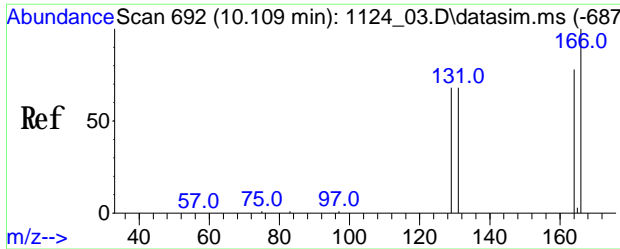
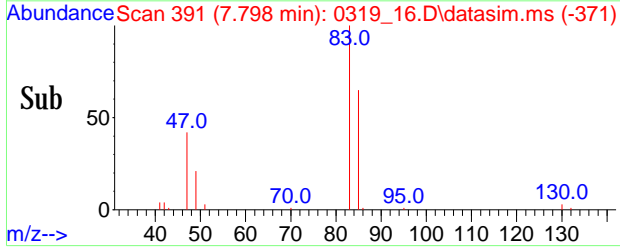
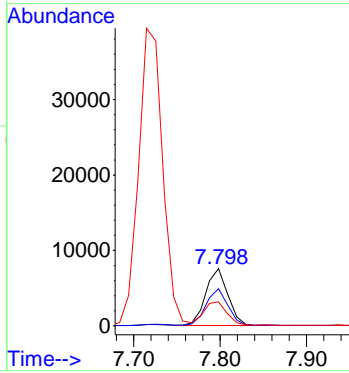
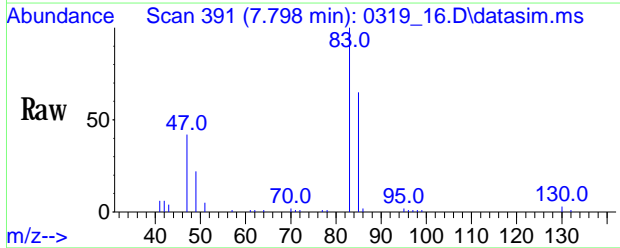
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	2301		
96	42.8	48.6	72.8#	
98	0.0	30.4	45.6#	





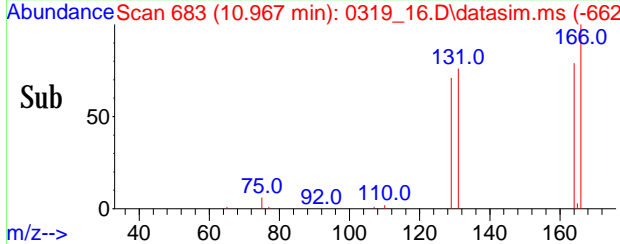
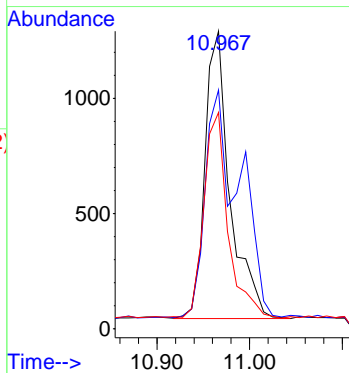
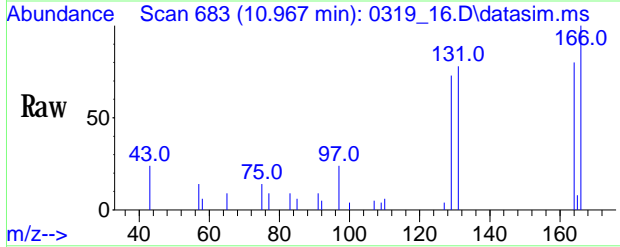
#95
 Chloroform(sim)
 Conc: 8S 0.202 ppbv
 RT: 7.798 min Scan# 391
 Delta R.T. 0.013 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

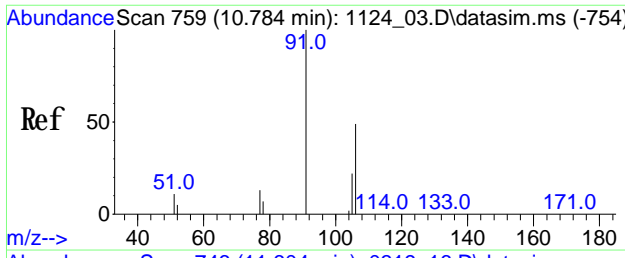
Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	53.4	80.2
47	43.9	33.8	50.8



#105
 Tetrachloroethene(sim)
 Conc: 8S 0.033 ppbv
 RT: 10.967 min Scan# 683
 Delta R.T. 0.002 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

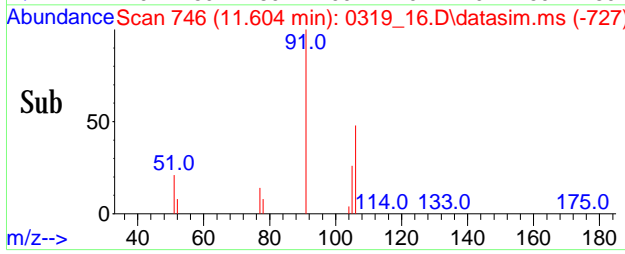
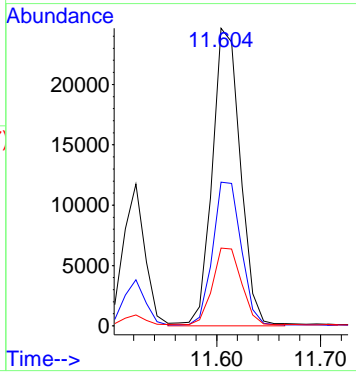
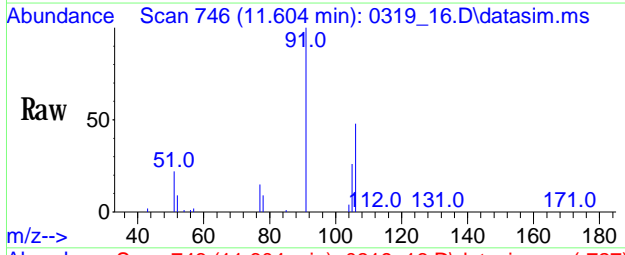
Tgt Ion	Ratio	Lower	Upper
166	100		
164	109.0	59.0	99.0#
129	69.6	54.3	94.3





#108
 m p-Xylene (sim)
 Conc: 8S 0.473 ppbv
 RT: 11.609 min Scan# 746
 Delta R.T. 0.003 min
 Lab File: 0319_16.D
 Acq: 19 Mar 2022 3:46 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
106	48.9	44.8	54.8
105	28.4	19.9	29.9



1
AIR ANALYSIS DATA SHEET

CLIENT ID

VP-5

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90294
Canister:	28587	Lab File ID:	0319_37.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	Date Received:
			03/18/22
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.510		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	3.04	S	0.531	0.531	r
67-64-1	Acetone	1.08	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.257		0.178	0.178	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.443		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.438		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

VP-5

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90294
Canister:	28587	Lab File ID:	0319_37.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200 (cc)	Date Received:	03/18/22
Matrix:	AIR	Date Analyzed:	03/20/22
		Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.081		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.253		0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_37.D
 Acq On : 20 Mar 2022 3:24 am
 Operator :
 Client ID : VP-5
 Lab ID : CK90294
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 20 09:10:37 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

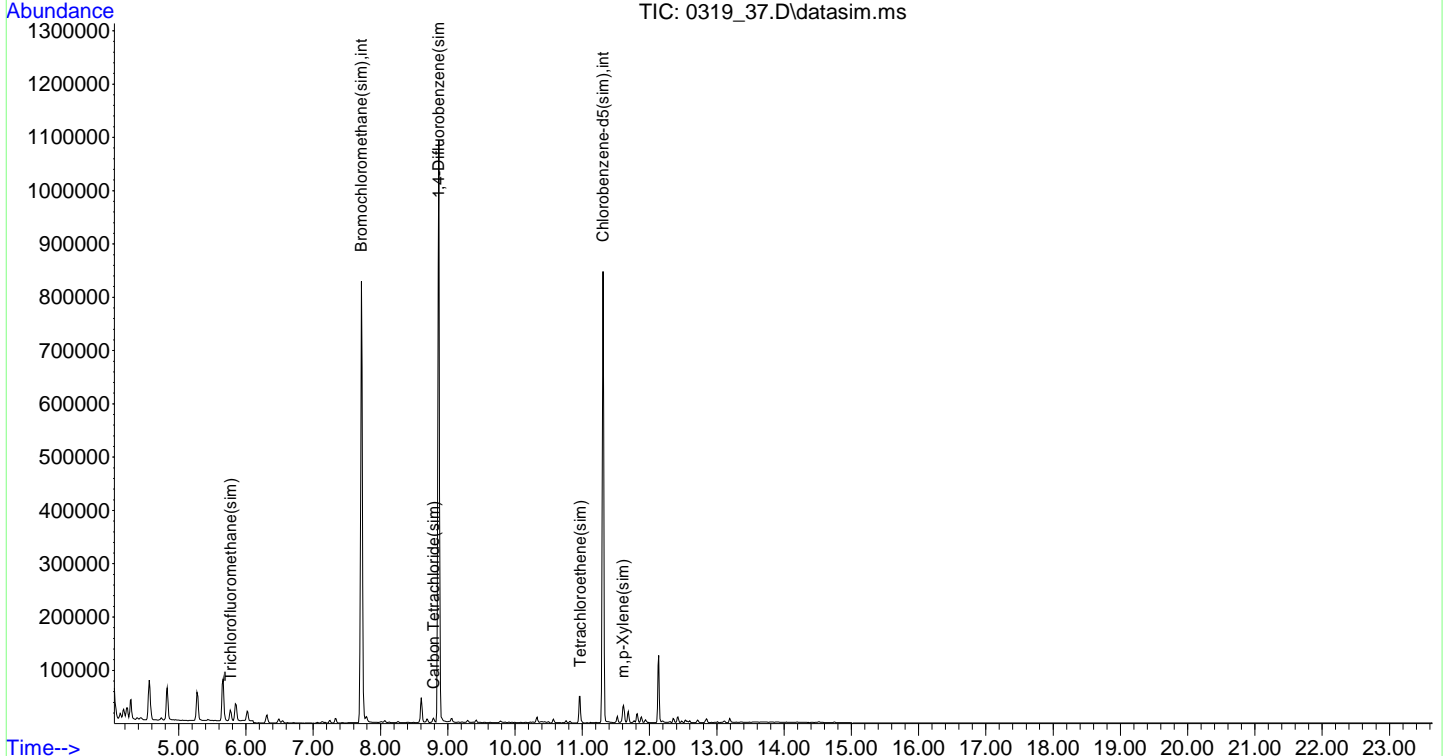
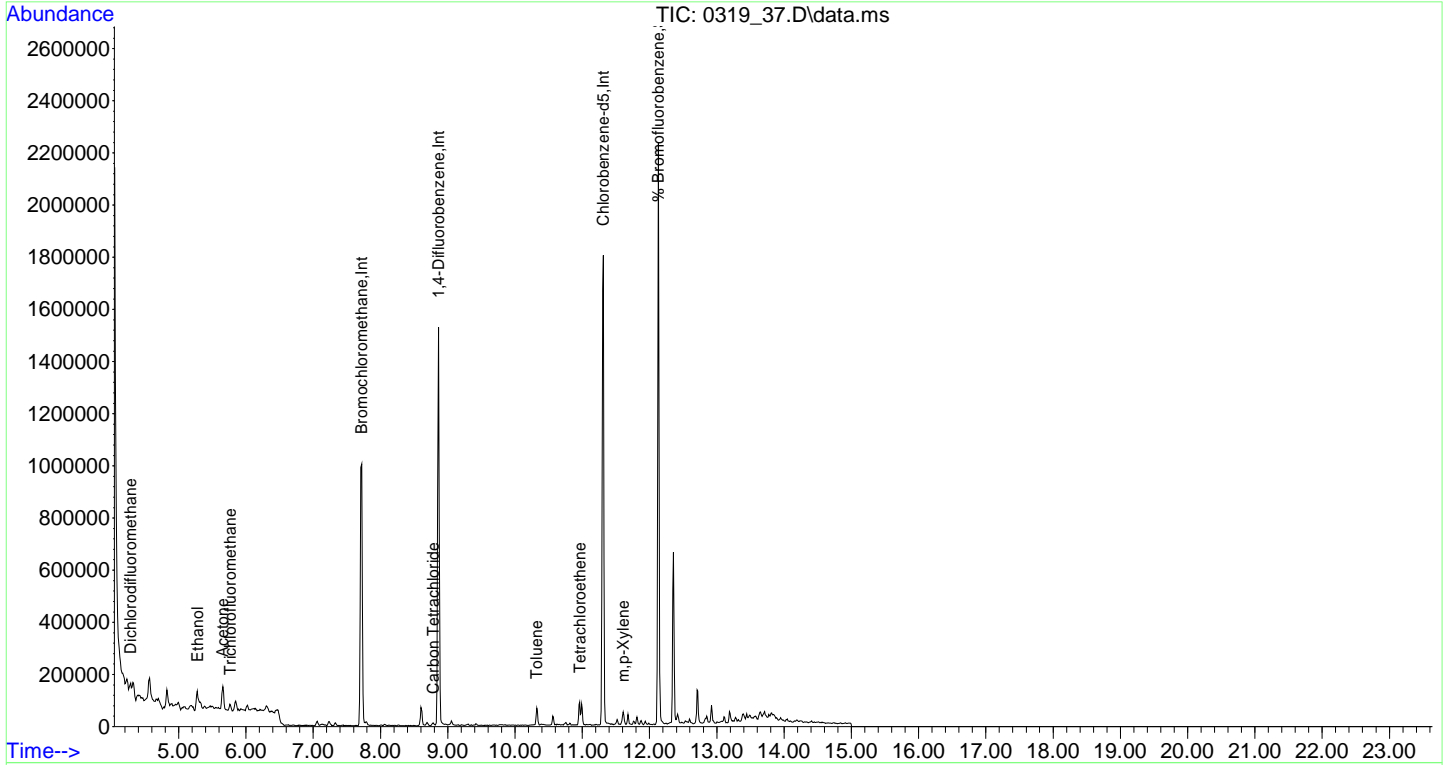
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.720	130	267023	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	907695	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	423833	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	293826	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	907695	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	423833	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	550344	10.109	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	101.10%	
Target Compounds						
3) Dichlorodifluoromethane	4.286	85	36448	0.510	ppbv#	94
11) Ethanol	5.277	45	64751	3.037	ppbv	95
12) Acetone	5.655	43	80683	1.084	ppbv	95
13) Trichlorofluoromethane	5.763	101	19572	0.257	ppbv	99
35) Carbon Tetrachloride	8.783	117	5311	0.076	ppbv	93
49) Toluene	10.322	91	39515	0.443	ppbv	92
53) Tetrachloroethene	10.961	166	21806	0.438	ppbv	94
58) m p-Xylene	11.609	91	20731	0.257	ppbv#	96
85) Trichlorofluoromethane...	5.768	101	20996	0.257	ppbv#	100
89) Carbon Tetrachloride(sim)	8.789	117	5852	0.081	ppbv	96
105) Tetrachloroethene(sim)	10.967	166	25131	0.368	ppbv	99
108) m p-Xylene(sim)	11.609	91	20731	0.253	ppbv#	96

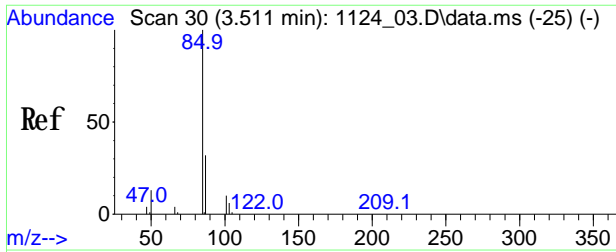
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0319_37.D
Acq On : 20 Mar 2022 3:24 am
Operator :
Client ID : VP-5
Lab ID : CK90294
ALS Vial : 29 Sample Multiplier: 1

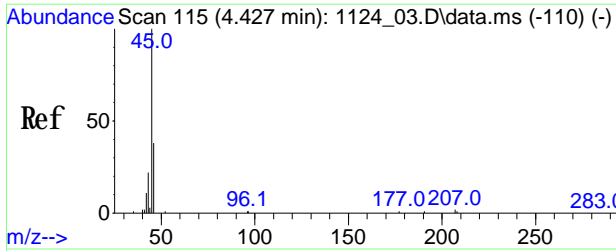
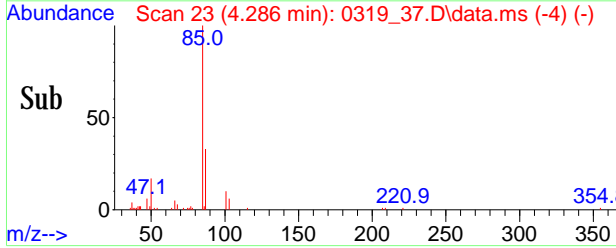
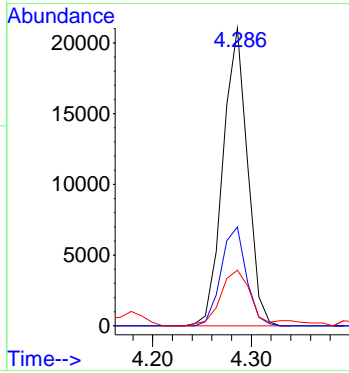
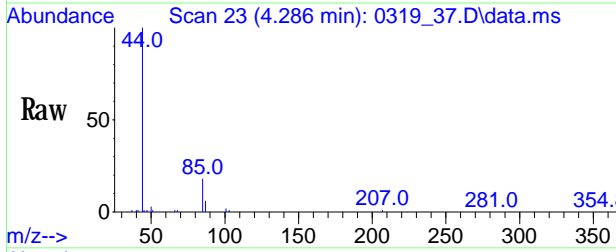
Quant Time: Mar 20 09:10:37 2022
Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 18 08:43:01 2022
Response via : Initial Calibration





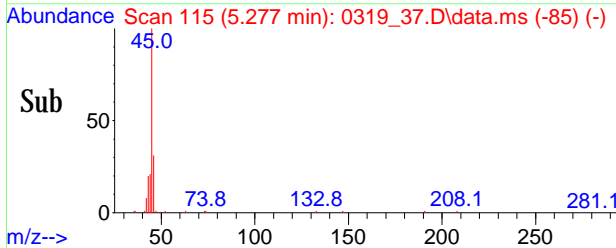
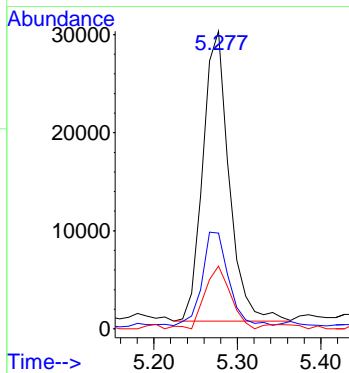
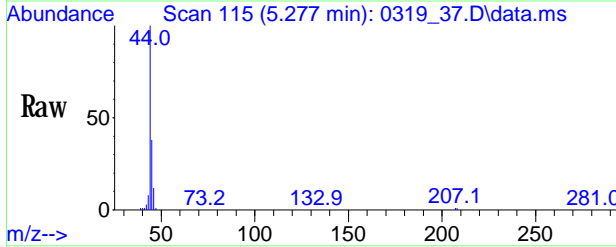
#3
 Dichlorodifluoromethane
 Conc: 8S 0.510 ppbv
 RT: 4.286 min Scan# 23
 Delta R.T. 0.000 min
 Lab File: 0319_37.D
 Acq: 20 Mar 2022 3:24 am

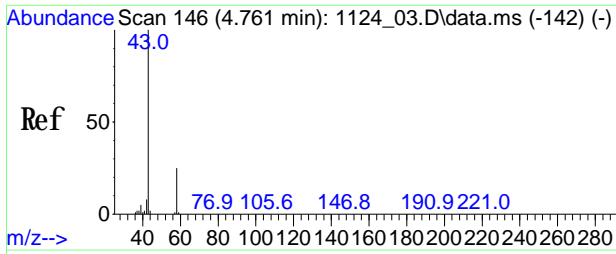
Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.2	26.0	39.0
50	25.1	16.2	24.4#



#11
 Ethanol
 Conc: 8S 3.037 ppbv
 RT: 5.277 min Scan# 115
 Delta R.T. 0.022 min
 Lab File: 0319_37.D
 Acq: 20 Mar 2022 3:24 am

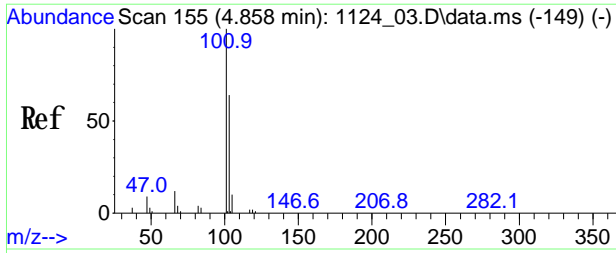
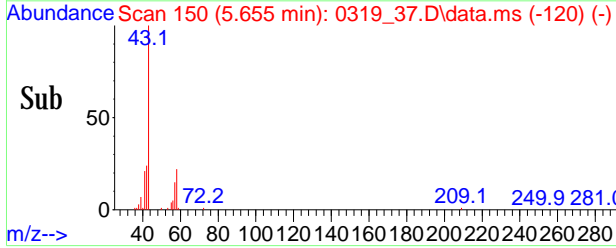
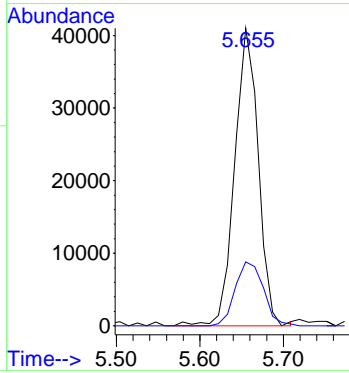
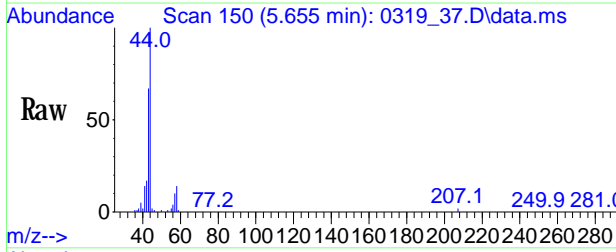
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.3	27.2	40.8
43	20.8	19.4	29.0





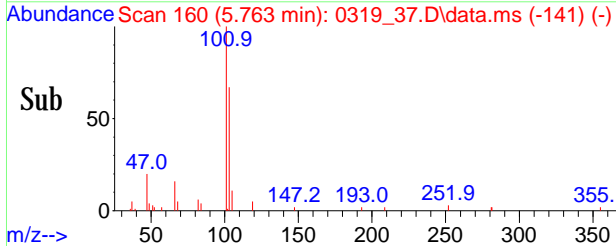
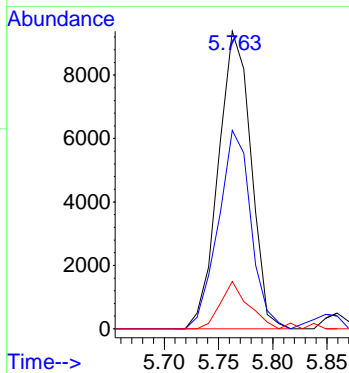
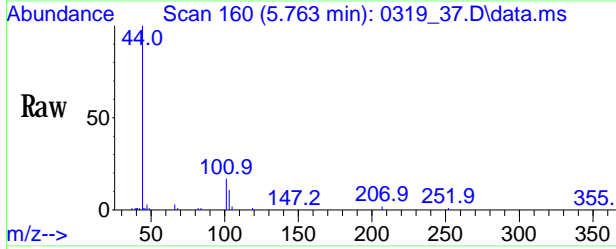
#12
 Acetone
 Conc: 8S 1.084 ppbv
 RT: 5.655 min Scan# 150
 Delta R.T. 0.022 min
 Lab File: 0319_37.D
 Acq: 20 Mar 2022 3:24 am

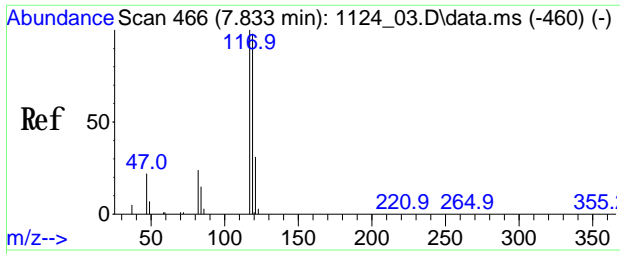
Tgt Ion: 43 Resp: 80683
 Ion Ratio Lower Upper
 43 100
 58 25.7 18.6 27.8



#13
 Trichlorofluoromethane
 Conc: 8S 0.257 ppbv
 RT: 5.763 min Scan# 160
 Delta R.T. 0.000 min
 Lab File: 0319_37.D
 Acq: 20 Mar 2022 3:24 am

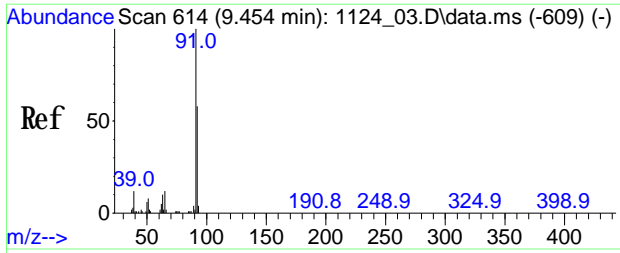
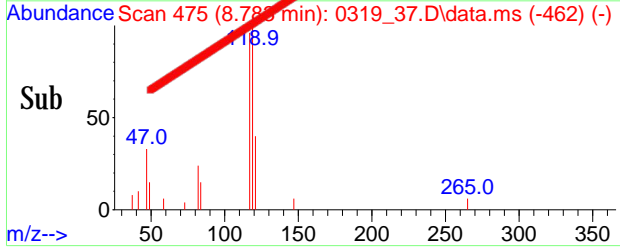
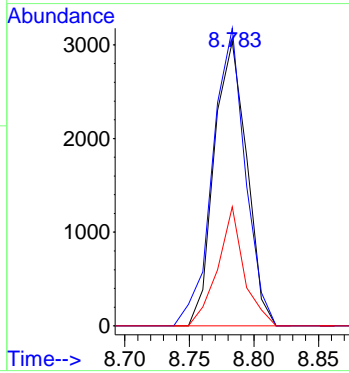
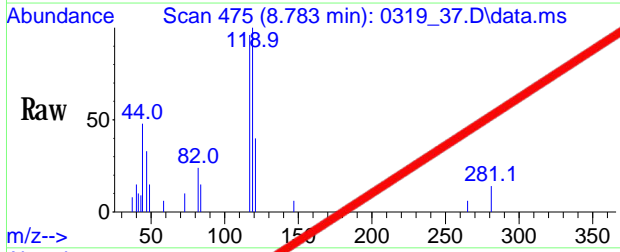
Tgt Ion: 101 Resp: 19572
 Ion Ratio Lower Upper
 101 100
 103 67.1 53.4 80.0
 66 13.6 11.2 16.8





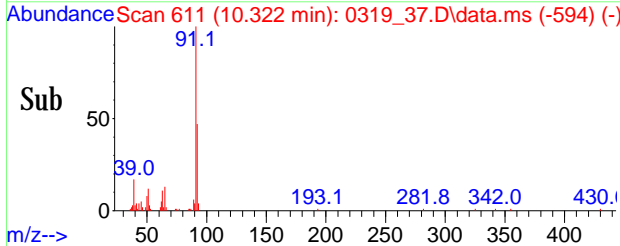
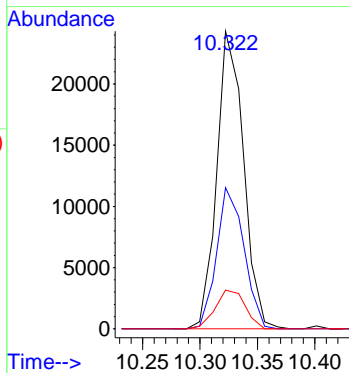
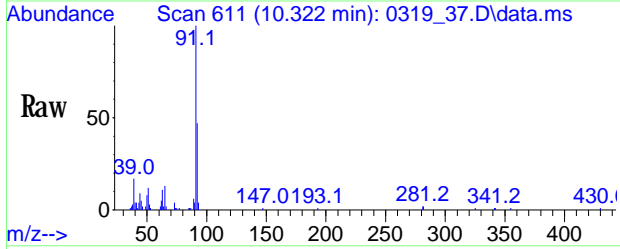
#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 8.783 min Scan# 475
 Delta R.T. 0.003 min
 Lab File: 0319_37.D
 Acq: 20 Mar 2022 3:24 am

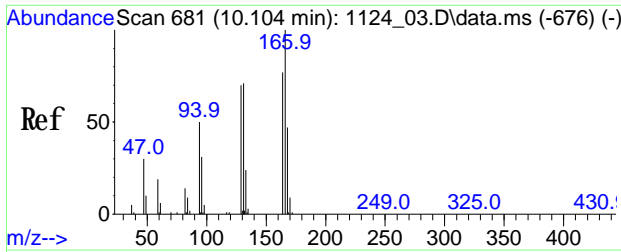
Tgt Ion	Ratio	Lower	Upper
117	100		
119	105.0	77.5	117.5
121	33.9	10.7	50.7



#49
 Toluene
 Conc: 8S 0.443 ppbv
 RT: 10.322 min Scan# 611
 Delta R.T. -0.009 min
 Lab File: 0319_37.D
 Acq: 20 Mar 2022 3:24 am

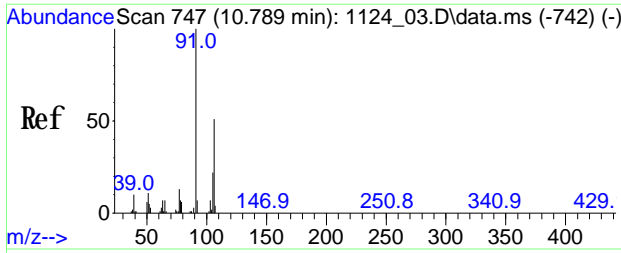
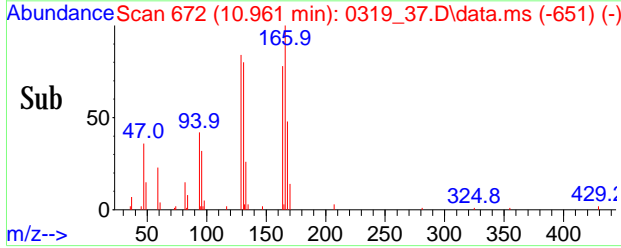
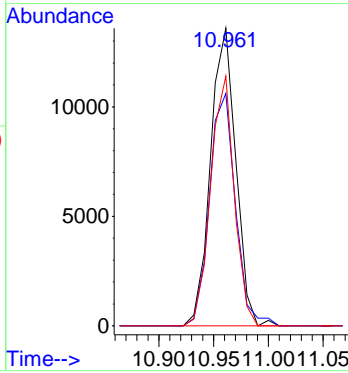
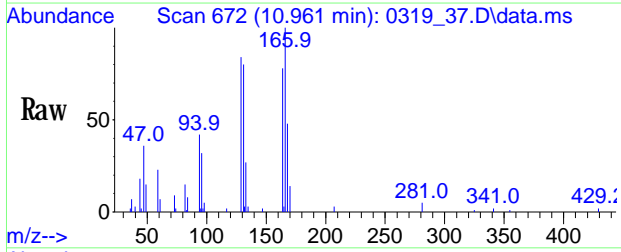
Tgt Ion	Ratio	Lower	Upper
91	100		
92	48.6	43.9	65.9
65	14.6	10.2	15.2





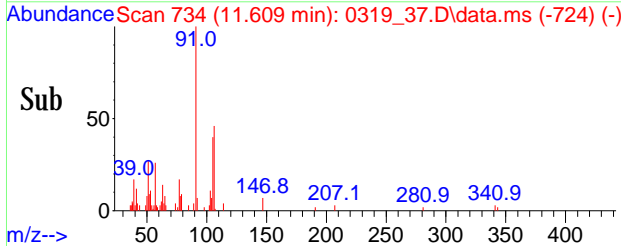
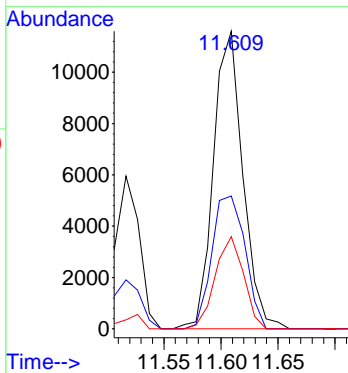
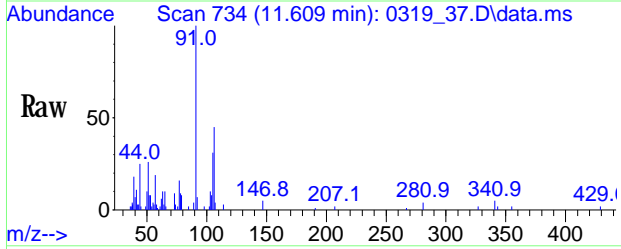
#53
Tetrachloroethene
 Conc: 8S 0.438 ppbv
 RT: 10.961 min Scan# 672
 Delta R.T. 0.003 min
 Lab File: 0319_37.D
 Acq: 20 Mar 2022 3:24 am

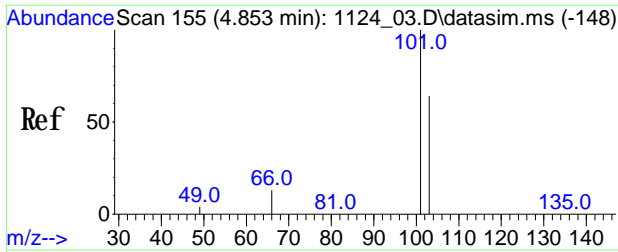
Tgt Ion	Ratio	Resp Lower	Upper
166	100		
164	80.1	60.0	90.0
129	78.0	59.0	88.4



#58
m p-Xylene
 Conc: 8S 0.257 ppbv
 RT: 11.609 min Scan# 734
 Delta R.T. 0.003 min
 Lab File: 0319_37.D
 Acq: 20 Mar 2022 3:24 am

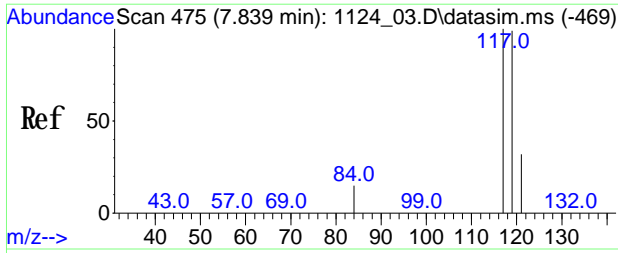
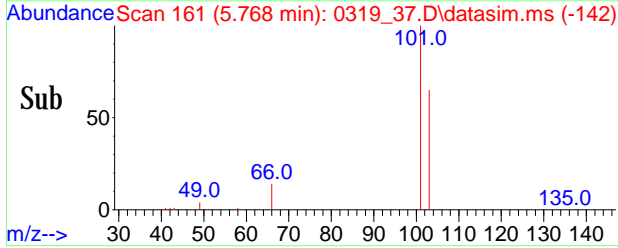
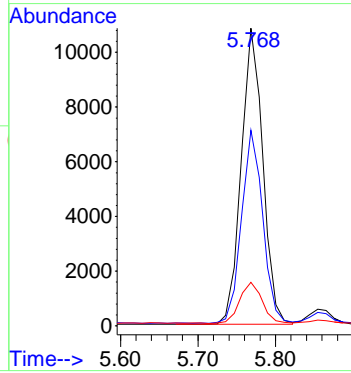
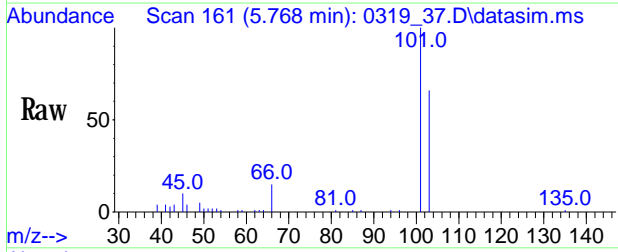
Tgt Ion	Ratio	Resp Lower	Upper
91	100		
106	50.5	39.8	59.8
105	30.0	19.9	29.9#





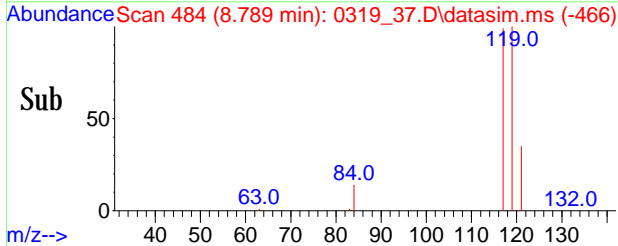
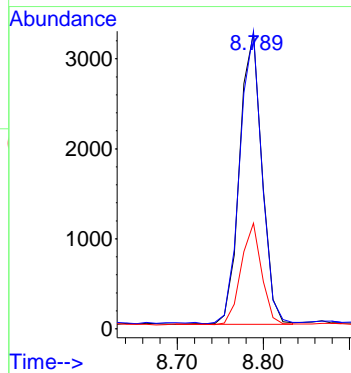
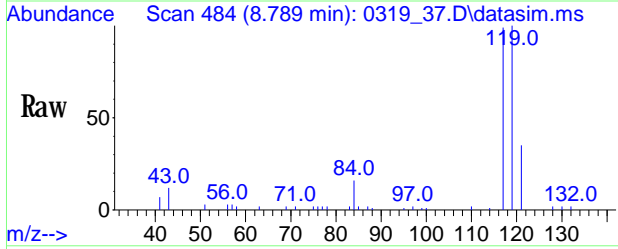
#85
 Trichlorofluoromethane(sim)
 Conc: 8S 0.257 ppbv
 RT: 5.768 min Scan# 161
 Delta R.T. 0.000 min
 Lab File: 0319_37.D
 Acq: 20 Mar 2022 3:24 am

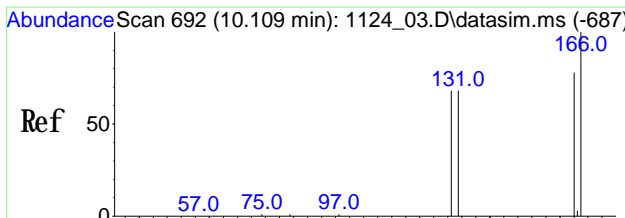
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	20996		
103	64.0	51.2	76.8	
66	14.6	13.5	13.5#	



#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.081 ppbv
 RT: 8.789 min Scan# 484
 Delta R.T. 0.003 min
 Lab File: 0319_37.D
 Acq: 20 Mar 2022 3:24 am

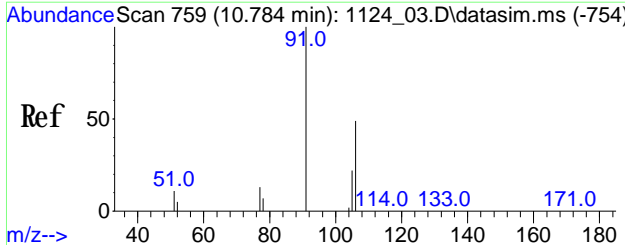
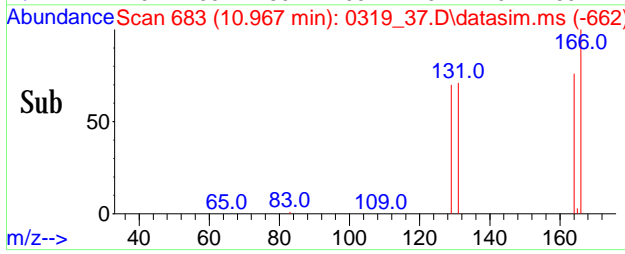
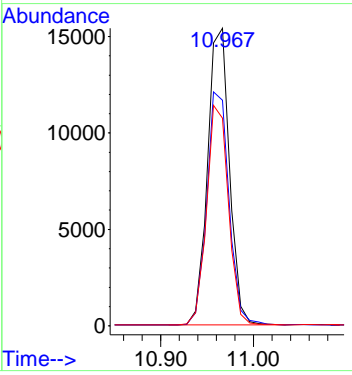
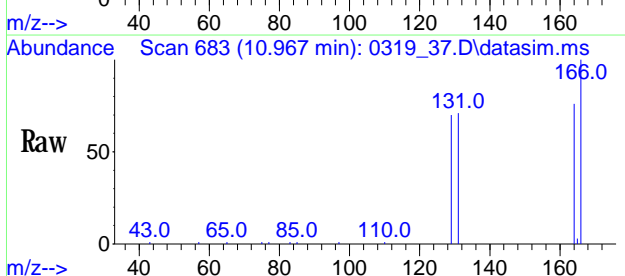
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5852		
119	99.4	76.2	114.4	
121	31.6	23.9	35.9	





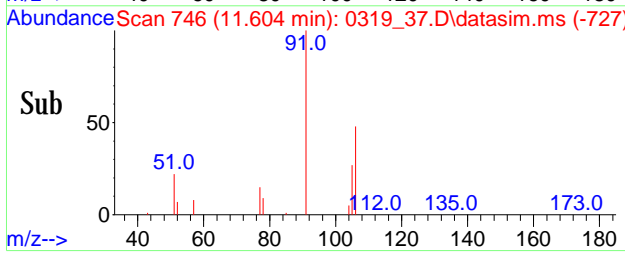
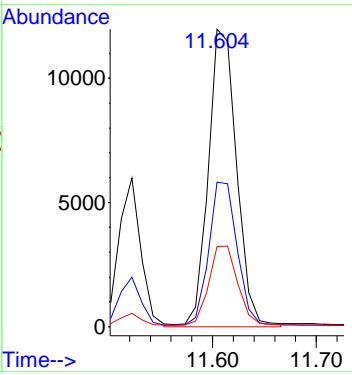
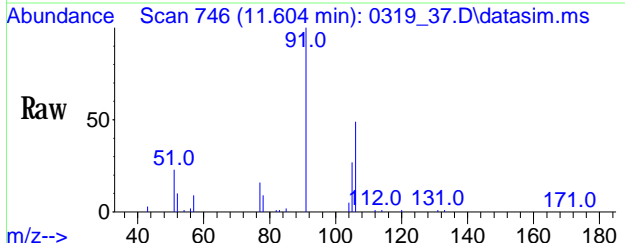
#105
 Tetrachloroethene(sim)
 Conc: 8S 0.368 ppbv
 RT: 10.967 min Scan# 683
 Delta R.T. 0.003 min
 Lab File: 0319_37.D
 Acq: 20 Mar 2022 3:24 am

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	25131		
164	80.2	59.0	99.0	
129	73.8	54.3	94.3	



#108
 m p-Xylene(sim)
 Conc: 8S 0.253 ppbv
 RT: 11.609 min Scan# 746
 Delta R.T. 0.003 min
 Lab File: 0319_37.D
 Acq: 20 Mar 2022 3:24 am

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	20731		
106	50.5	44.8	54.8	
105	30.0	19.9	29.9#	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

VP-8

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90295
Canister:	221	Lab File ID:	0319_38.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	Date Received: 03/18/22
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.505		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	2.30	S	0.531	0.531	r
67-64-1	Acetone	0.882	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.253		0.178	0.178	r
67-63-0	Isopropylalcohol	0.413	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.295		0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.285		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	2.85		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.493		0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

VP-8

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90295
Canister:	221	Lab File ID:	0319_38.D
Instrument:	CHEM20	Column:	RTX-1 60M
Date Received:	03/18/22		
Purge Volume	200 (cc)	Date Analyzed:	03/20/22
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.079		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_38.D
 Acq On : 20 Mar 2022 3:59 am
 Operator :
 Client ID : VP-8
 Lab ID : CK90295
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 20 08:55:15 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

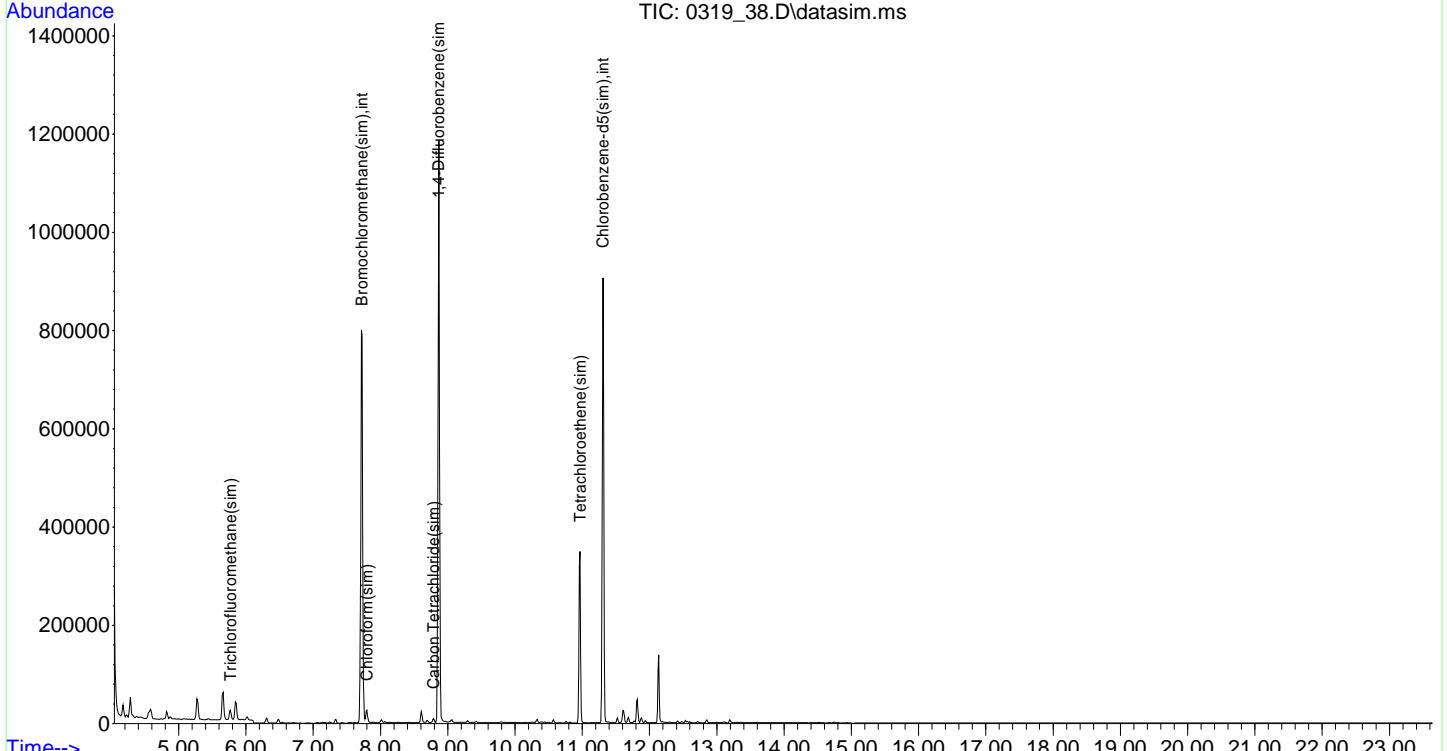
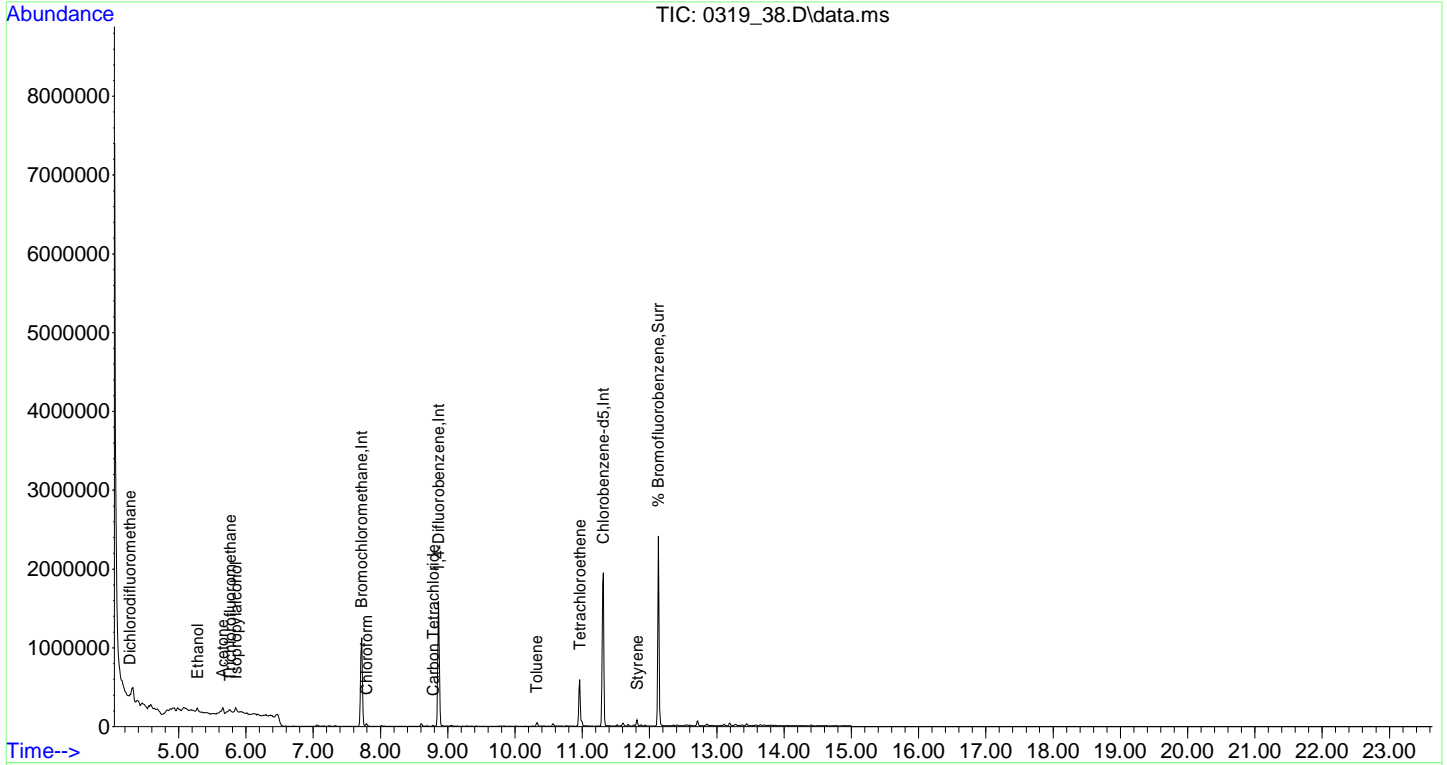
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.720	130	271538	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	921783	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	449913	10.000	ng	0.00
81) Bromochloromethane(sim)	7.725	130	302245	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	8.862	114	921787	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	450064	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.131	95	595523	10.305	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	103.00%	
Target Compounds						
3) Dichlorodifluoromethane	4.275	85	36684	0.505	ppbv	Qvalue 98
11) Ethanol	5.277	45	49807	2.297	ppbv	98
12) Acetone	5.655	43	66743	0.882	ppbv#	89
13) Trichlorofluoromethane	5.762	101	19623	0.253	ppbv	94
14) Isopropylalcohol	5.849	45	38475	0.413	ppbv#	95
29) Chloroform	7.793	83	17991	0.295	ppbv	97
35) Carbon Tetrachloride	8.783	117	5202	0.073	ppbv	86
49) Toluene	10.322	91	25806	0.285	ppbv#	92
53) Tetrachloroethene	10.961	166	144054	2.847	ppbv	94
60) Styrene	11.814	104	29936	0.493	ppbv	96
85] Trichlorofluoromethane...	5.768	101	20640	0.246	ppbv#	99
89] Carbon Tetrachloride(sim)	8.789	117	5810	0.079	ppbv	96
95] Chloroform(sim)	7.798	83	19686	0.295	ppbv	95
105] Tetrachloroethene(sim)	10.967	166	168933	2.436	ppbv	100

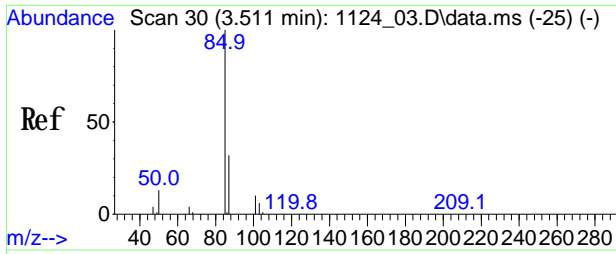
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0319_38.D
Acq On : 20 Mar 2022 3:59 am
Operator :
Client ID : VP-8
Lab ID : CK90295
ALS Vial : 30 Sample Multiplier: 1

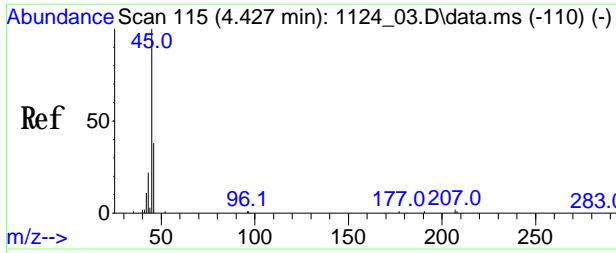
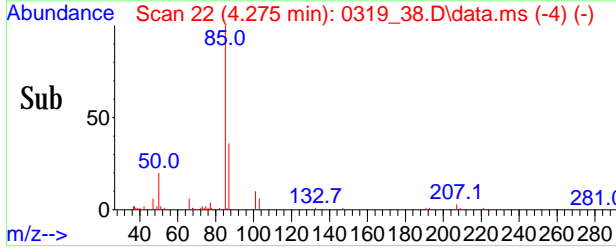
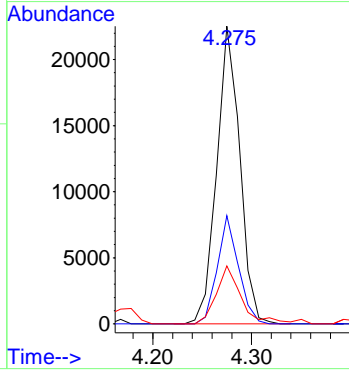
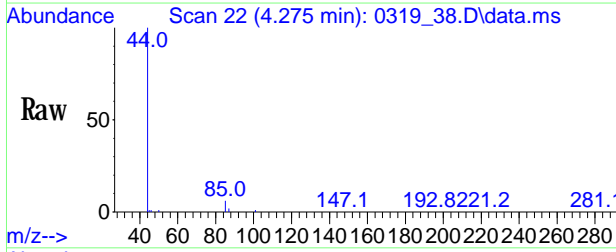
Quant Time: Mar 20 08:55:15 2022
Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 18 08:43:01 2022
Response via : Initial Calibration





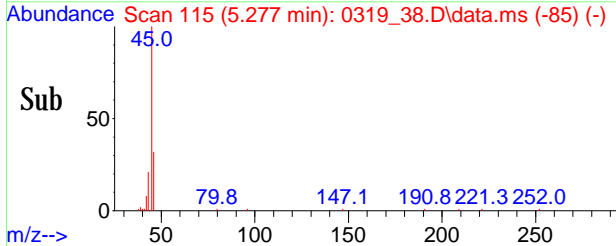
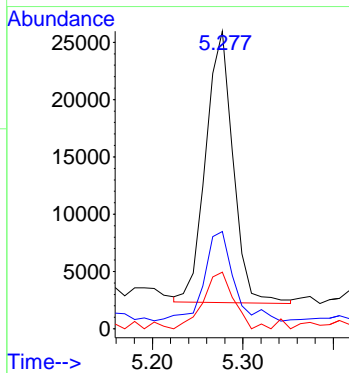
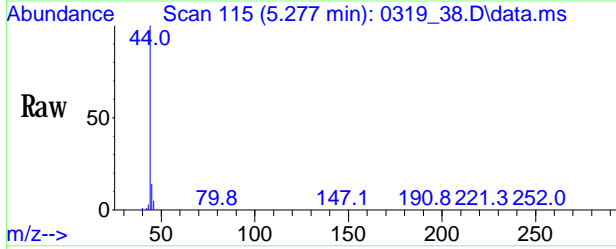
#3
 Dichlorodifluoromethane
 Conc: 8S 0.505 ppbv
 RT: 4.275 min Scan# 22
 Delta R.T. -0.011 min
 Lab File: 0319_38.D
 Acq: 20 Mar 2022 3:59 am

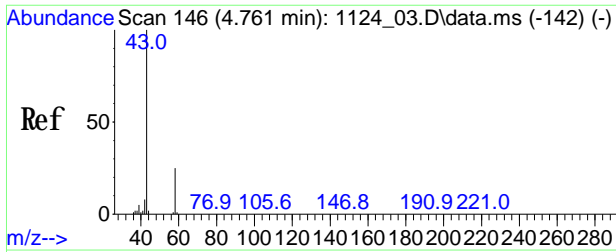
Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.3	26.0	39.0
50	21.6	16.2	24.4



#11
 Ethanol
 Conc: 8S 2.297 ppbv
 RT: 5.277 min Scan# 115
 Delta R.T. 0.021 min
 Lab File: 0319_38.D
 Acq: 20 Mar 2022 3:59 am

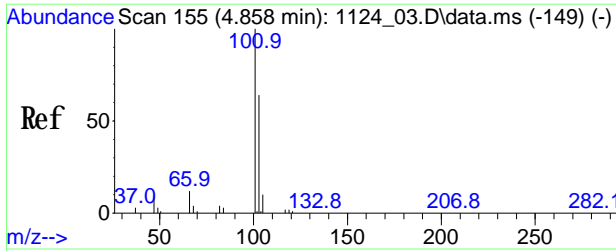
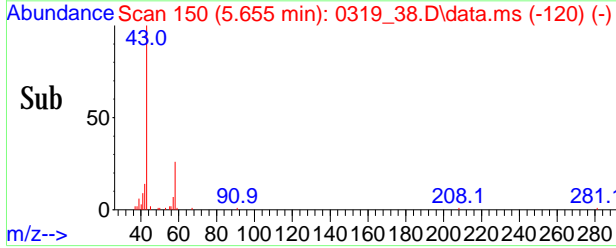
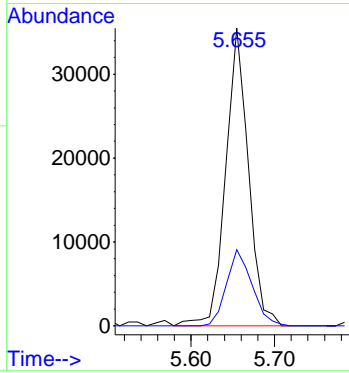
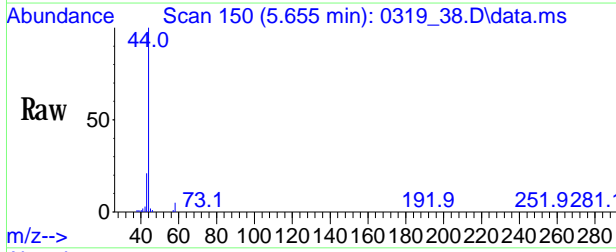
Tgt Ion	Ratio	Lower	Upper
45	100		
46	35.5	27.2	40.8
43	23.2	19.4	29.0





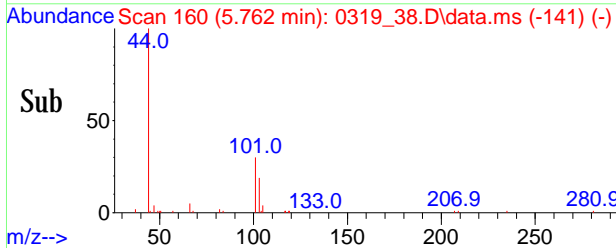
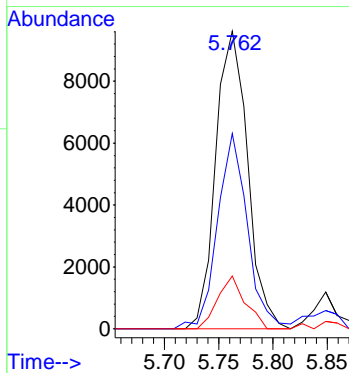
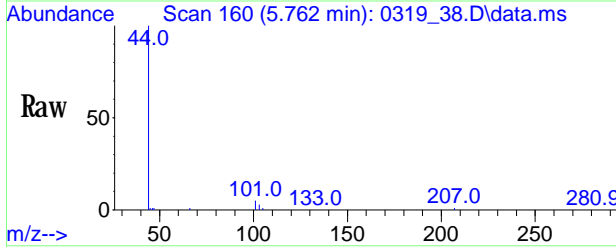
#12
 Acetone
 Conc: 8S 0.882 ppbv
 RT: 5.655 min Scan# 150
 Delta R.T. 0.021 min
 Lab File: 0319_38.D
 Acq: 20 Mar 2022 3:59 am

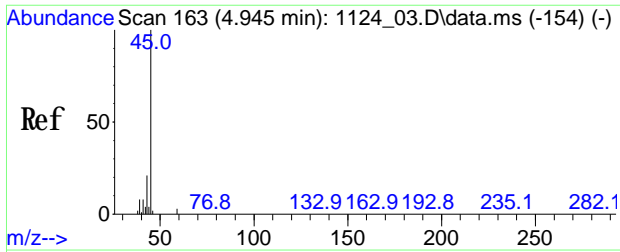
Tgt Ion: 43 Resp: 66743
 Ion Ratio Lower Upper
 43 100
 58 28.8 18.6 27.8#



#13
 Trichlorofluoromethane
 Conc: 8S 0.253 ppbv
 RT: 5.762 min Scan# 160
 Delta R.T. -0.000 min
 Lab File: 0319_38.D
 Acq: 20 Mar 2022 3:59 am

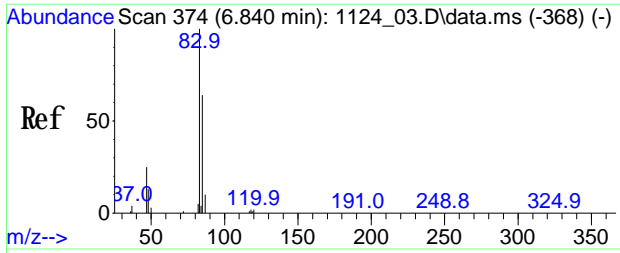
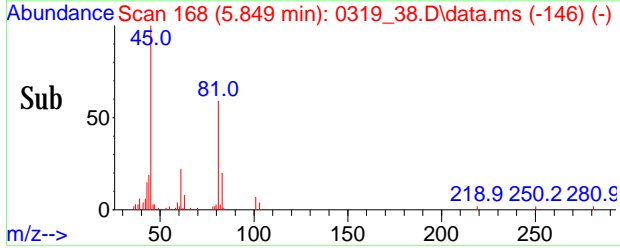
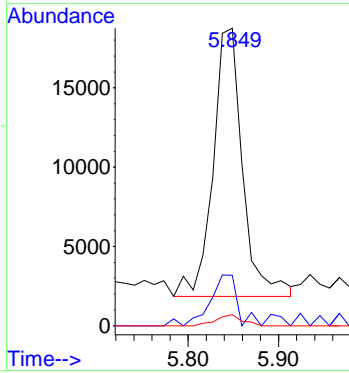
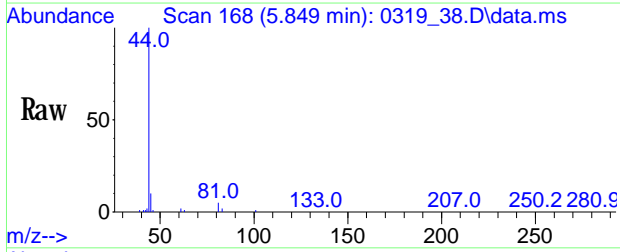
Tgt Ion: 101 Resp: 19623
 Ion Ratio Lower Upper
 101 100
 103 61.7 53.4 80.0
 66 15.2 11.2 16.8





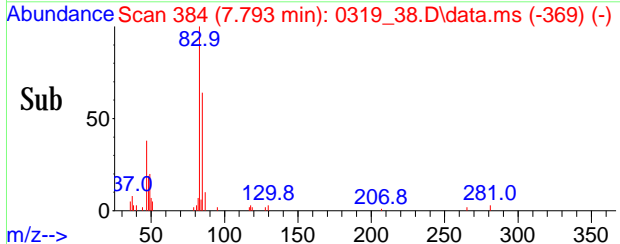
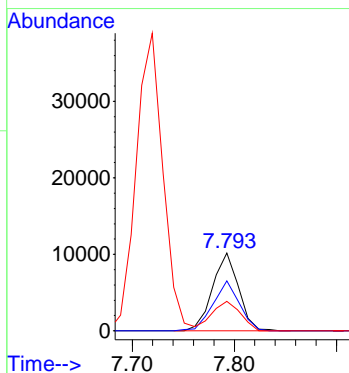
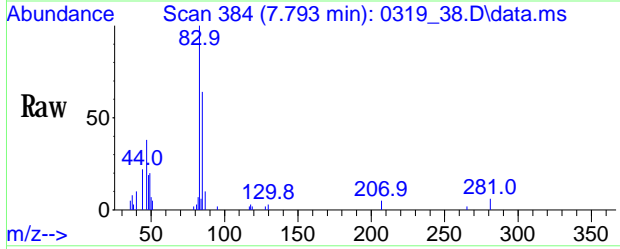
#14
Isopropyl alcohol
 Conc: 8S 0.413 ppbv
 RT: 5.849 min Scan# 168
 Delta R.T. 0.032 min
 Lab File: 0319_38.D
 Acq: 20 Mar 2022 3:59 am

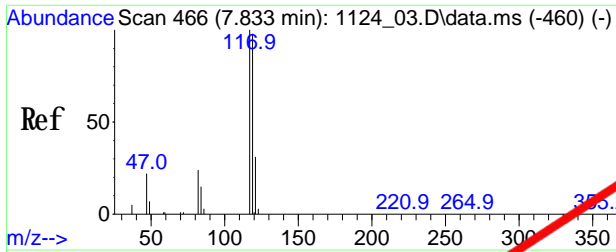
Tgt Ion	Ratio	Lower	Upper
45	100		
43	18.0	16.6	24.8
59	3.7	2.4	3.6#



#29
Chloroform
 Conc: 8S 0.295 ppbv
 RT: 7.793 min Scan# 384
 Delta R.T. 0.002 min
 Lab File: 0319_38.D
 Acq: 20 Mar 2022 3:59 am

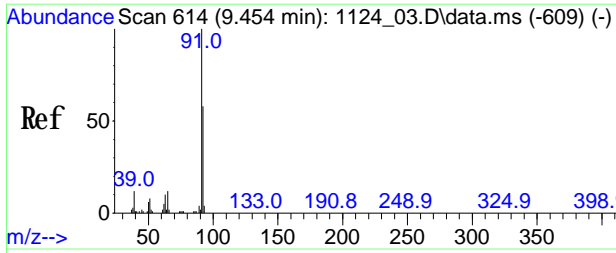
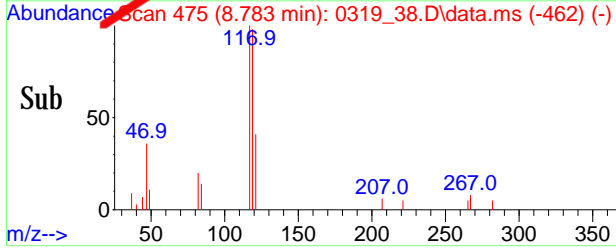
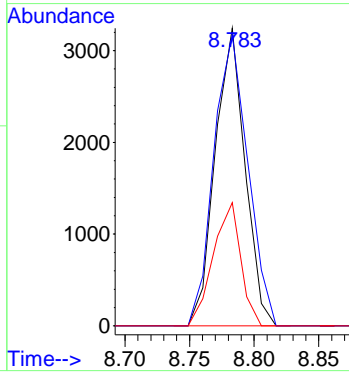
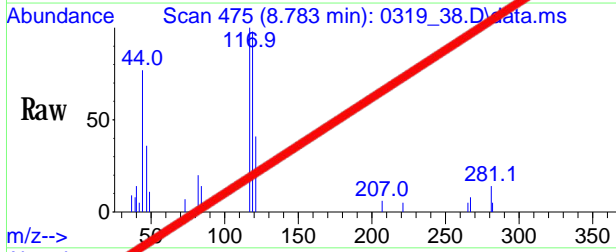
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	41.5	81.5
47	41.6	22.2	62.2





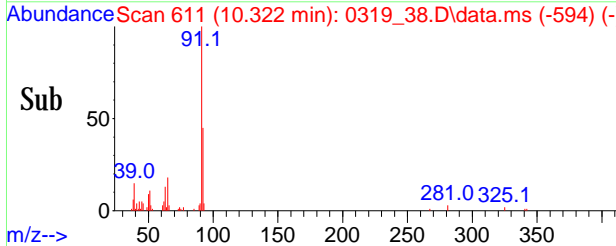
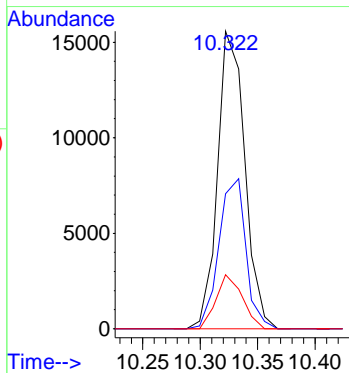
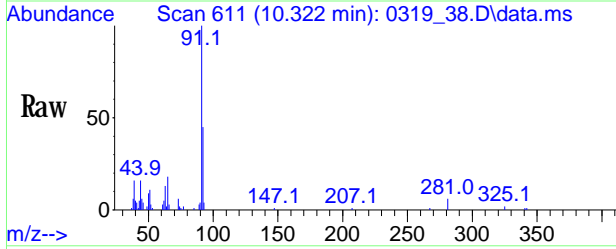
#35
Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 8.783 min Scan# 475
 Delta R.T. 0.002 min
 Lab File: 0319_38.D
 Acq: 20 Mar 2022 3:59 am

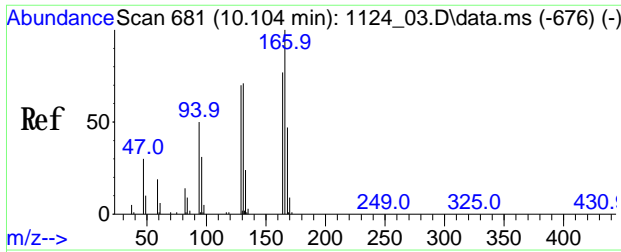
Tgt Ion	Ratio	Lower	Upper
117	100		
119	111.7	77.5	117.5
121	38.4	10.7	50.7



#49
Toluene
 Conc: 8S 0.285 ppbv
 RT: 10.322 min Scan# 611
 Delta R.T. -0.009 min
 Lab File: 0319_38.D
 Acq: 20 Mar 2022 3:59 am

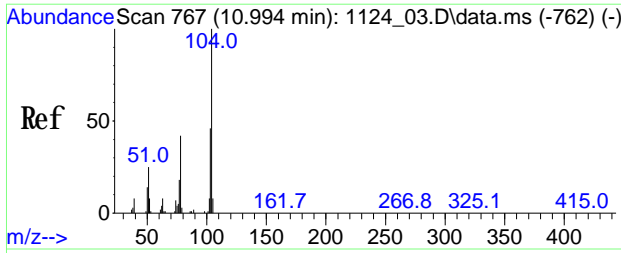
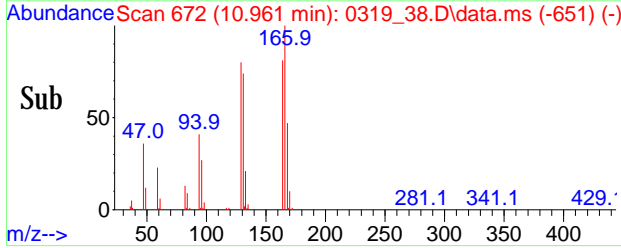
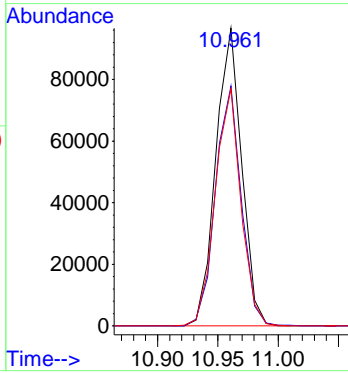
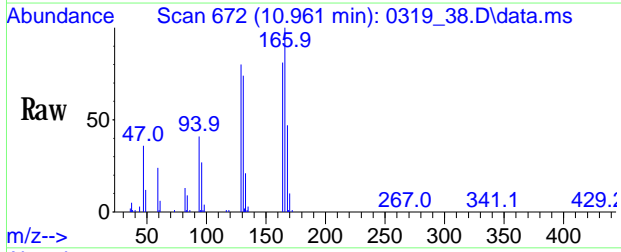
Tgt Ion	Ratio	Lower	Upper
91	100		
92	49.9	43.9	65.9
65	17.5	10.2	15.2#





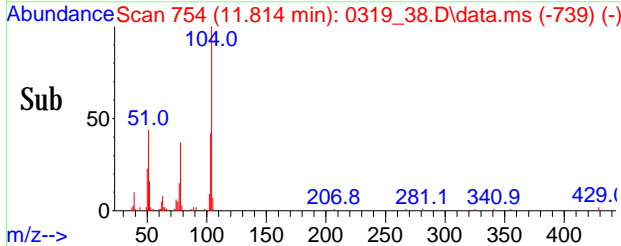
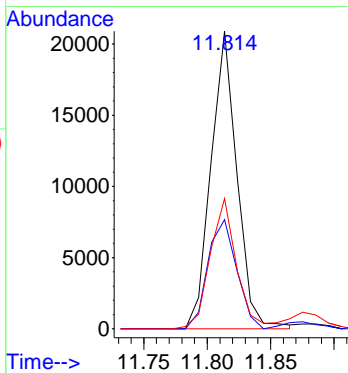
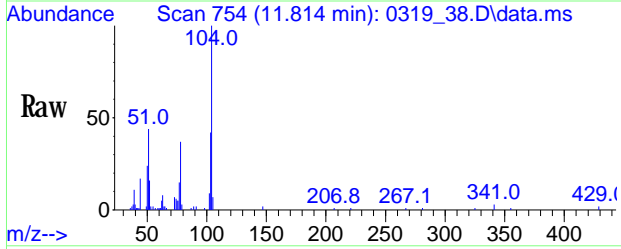
#53
 Tetrachloroethene
 Conc: 8S 2.847 ppbv
 RT: 10.961 min Scan# 672
 Delta R.T. 0.002 min
 Lab File: 0319_38.D
 Acq: 20 Mar 2022 3:59 am

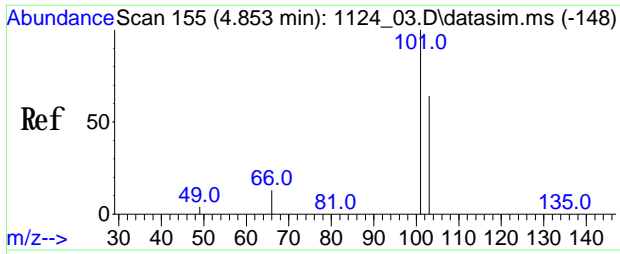
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	144054		
164	80.4	60.0	90.0	
129	79.0	59.0	88.4	



#60
 Styrene
 Conc: 8S 0.493 ppbv
 RT: 11.814 min Scan# 754
 Delta R.T. 0.003 min
 Lab File: 0319_38.D
 Acq: 20 Mar 2022 3:59 am

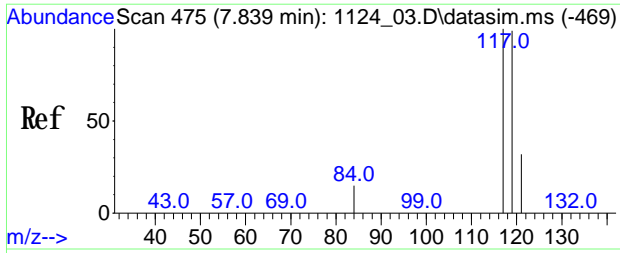
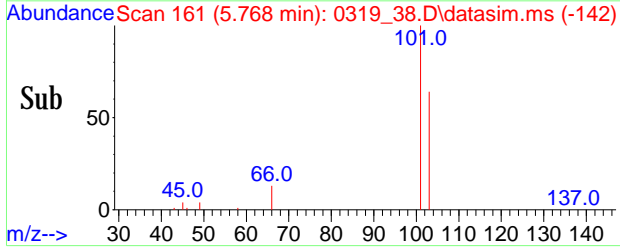
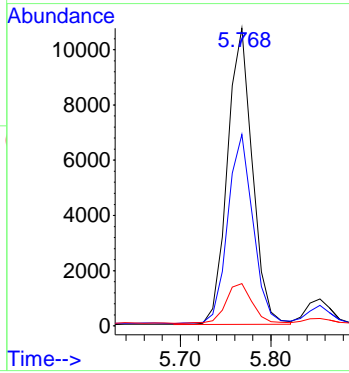
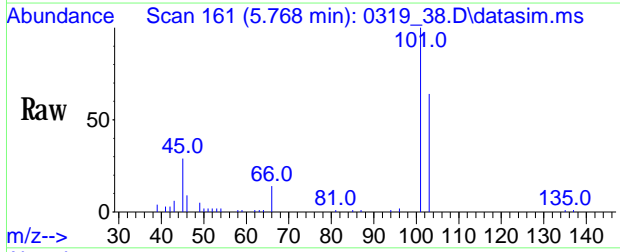
Tgt Ion	Ratio	Resp	Lower	Upper
104	100	29936		
78	40.9	34.2	51.4	
51	44.1	32.8	49.2	





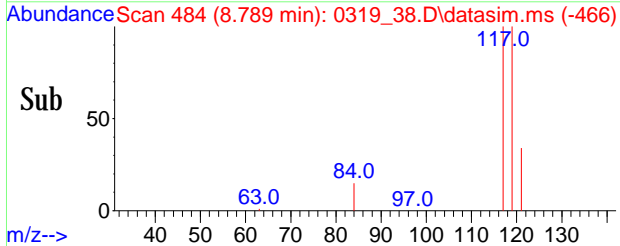
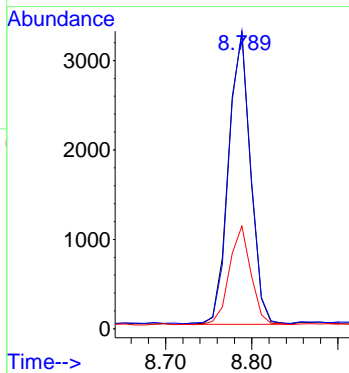
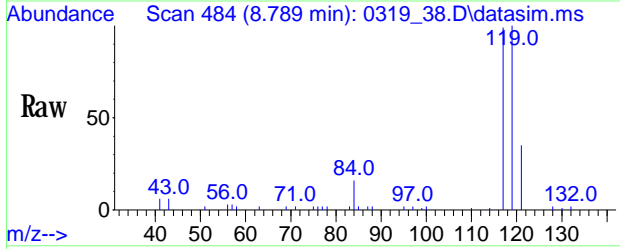
#85
 Trichlorofluoromethane(sim)
 Conc: 8S 0.246 ppbv
 RT: 5.768 min Scan# 161
 Delta R.T. -0.000 min
 Lab File: 0319_38.D
 Acq: 20 Mar 2022 3:59 am

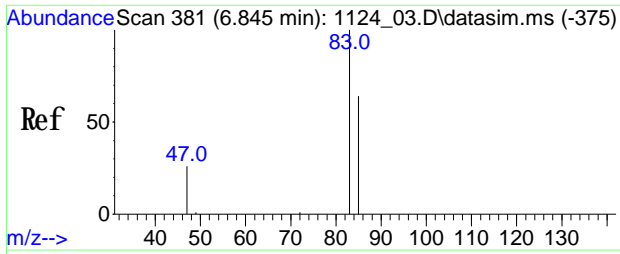
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	20640		
103	64.6	51.2	76.8	
66	14.2	13.5	13.5#	



#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.079 ppbv
 RT: 8.789 min Scan# 484
 Delta R.T. 0.002 min
 Lab File: 0319_38.D
 Acq: 20 Mar 2022 3:59 am

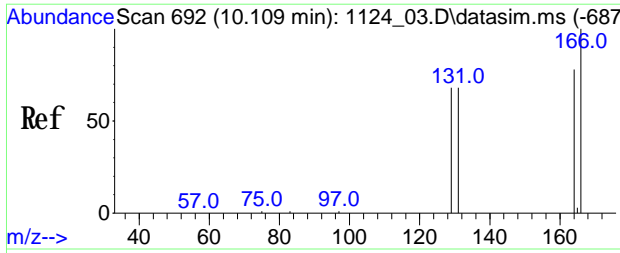
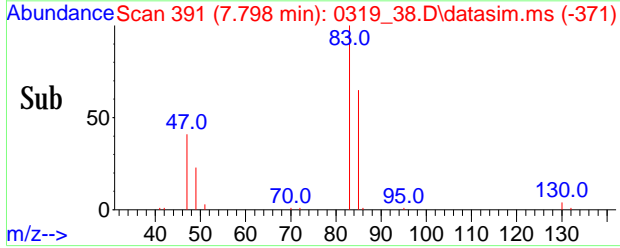
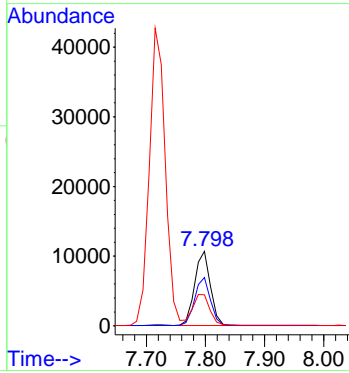
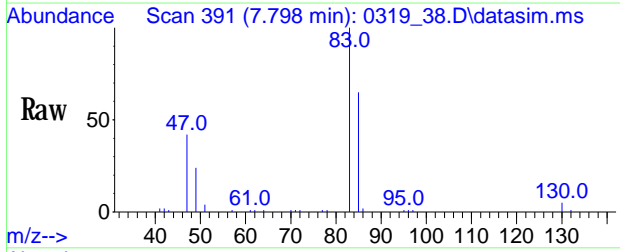
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5810		
119	98.9	76.2	114.4	
121	33.0	23.9	35.9	





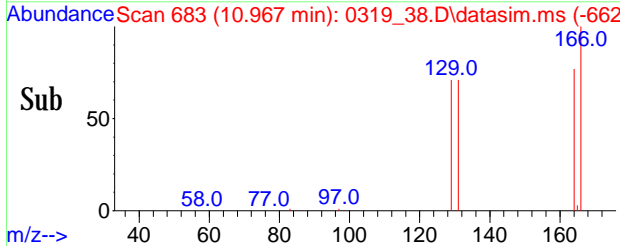
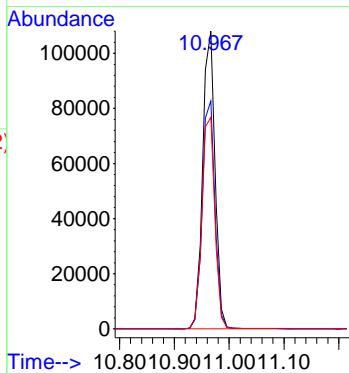
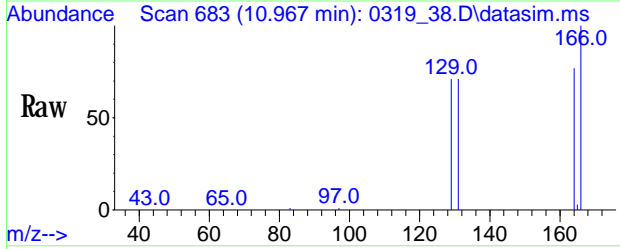
#95
 Chloroform(sim)
 Conc: 8S 0.295 ppbv
 RT: 7.798 min Scan# 391
 Delta R.T. 0.013 min
 Lab File: 0319_38.D
 Acq: 20 Mar 2022 3:59 am

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.2	53.4	80.2
47	47.0	33.8	50.8



#105
 Tetrachloroethene(sim)
 Conc: 8S 2.436 ppbv
 RT: 10.967 min Scan# 683
 Delta R.T. 0.002 min
 Lab File: 0319_38.D
 Acq: 20 Mar 2022 3:59 am

Tgt Ion	Ratio	Lower	Upper
166	100		
164	78.8	59.0	99.0
129	73.9	54.3	94.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-2

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90296
Canister:	350	Lab File ID:	0319_17.D
Instrument:	CHEM20	Column:	RTX-1 60M
Date Received:	03/18/22		
Purge Volume	200 (cc)	Date Analyzed:	03/19/22
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.478		0.202	0.202	r
74-87-3	Chloromethane	0.523		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	7.97	S	0.531	0.531	r
67-64-1	Acetone	3.83	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.249		0.178	0.178	r
67-63-0	Isopropylalcohol	1.41	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.433		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-2

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90296
Canister:	350	Lab File ID:	0319_17.D
Instrument:	CHEM20	Column:	RTX-1 60M
Date Received:	03/18/22		
Purge Volume	200	(cc)	03/19/22
Date Analyzed:	03/19/22		
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.080		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.050		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_17.D
 Acq On : 19 Mar 2022 4:21 pm
 Operator :
 Client ID : IA-2
 Lab ID : CK90296
 ALS Vial : 9 Sample Multiplier: 1

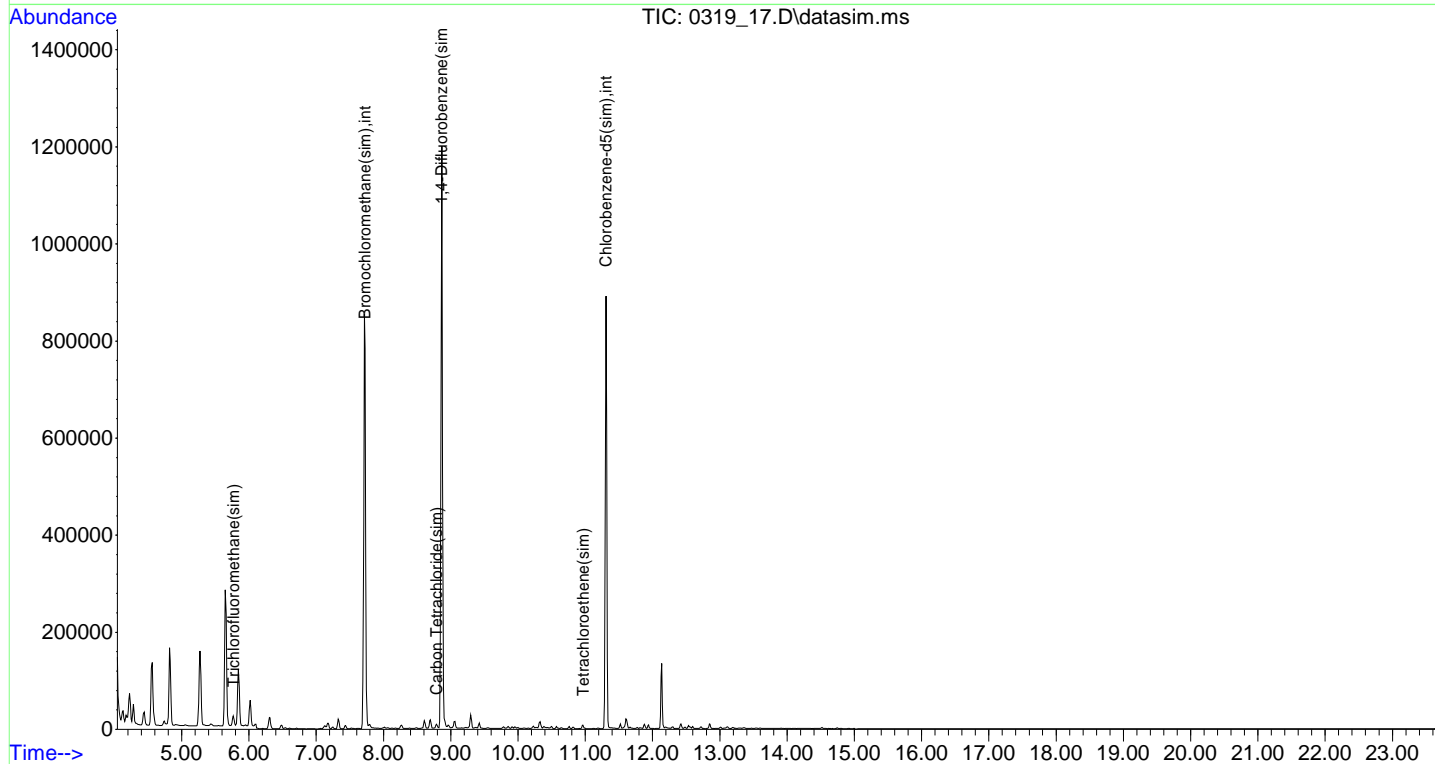
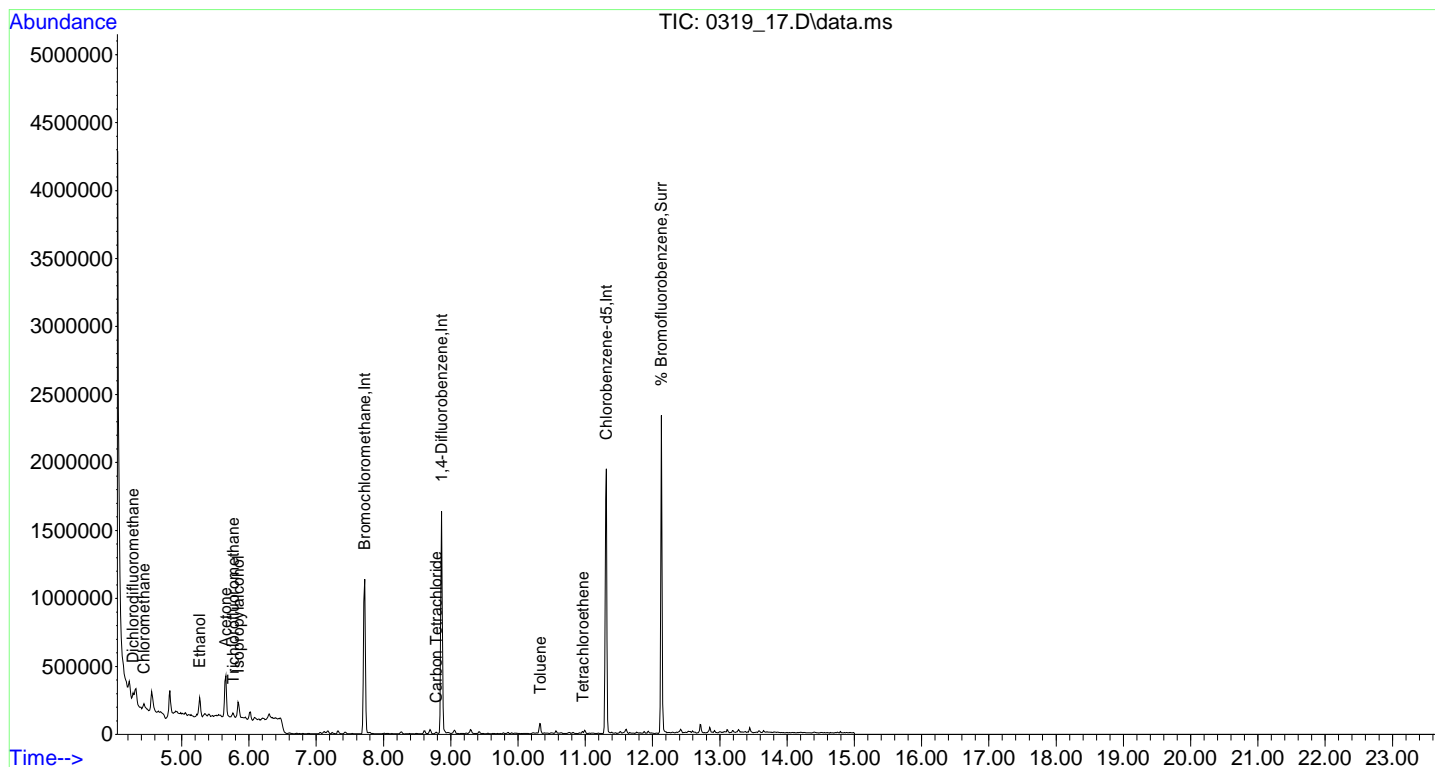
Quant Time: Mar 20 09:02:59 2022
 Quant Title :
 QLast Update : Fri Mar 18 08:42:58 2022
 Response via : Initial Calibration

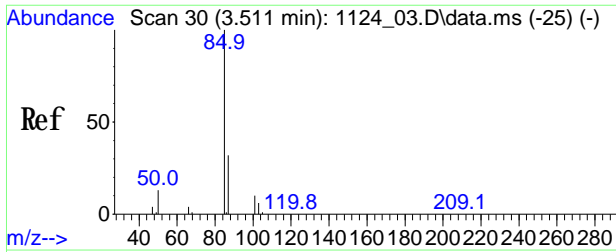
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.720	130	284778	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	977676	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	446745	10.000	ng	0.00
81) Bromochloromethane(sim)	7.725	130	307603	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	8.862	114	977676	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	446745	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.131	95	565553	9.856	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	98.60%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.275	85	36423	0.478	ppbv	98
4) Chloromethane	4.437	50	25931	0.523	ppbv	88
11) Ethanol	5.267	45	181205	7.968	ppbv	95
12) Acetone	5.655	43	303753	3.826	ppbv	97
13) Trichlorofluoromethane	5.762	101	20279	0.249	ppbv	95
14) Isopropylalcohol	5.838	45	137579	1.409	ppbv	98
35) Carbon Tetrachloride	8.783	117	5621	0.075	ppbv	99
49) Toluene	10.333	91	41592	0.433	ppbv#	94
53) Tetrachloroethene	10.961	166	3290	0.061	ppbv	99
85) Trichlorofluoromethane...	5.768	101	20350	0.238	ppbv#	98
89) Carbon Tetrachloride(sim)	8.789	117	5990	0.080	ppbv	99
105) Tetrachloroethene(sim)	10.967	166	3685	0.050	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0319_17.D
Acq On : 19 Mar 2022 4:21 pm
Operator :
Client ID : IA-2
Lab ID : CK90296
ALS Vial : 9 Sample Multiplier: 1

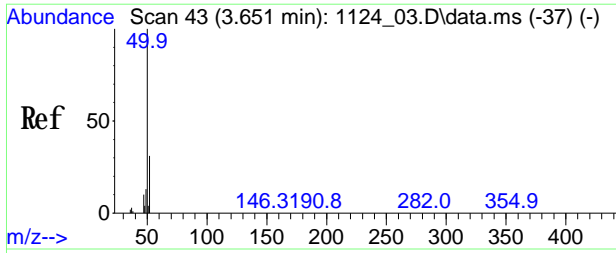
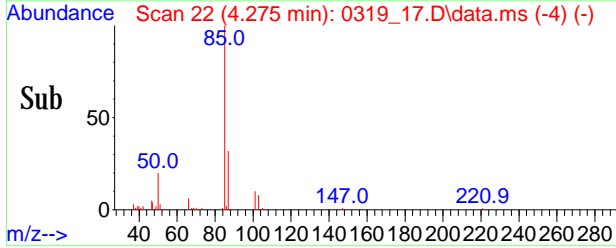
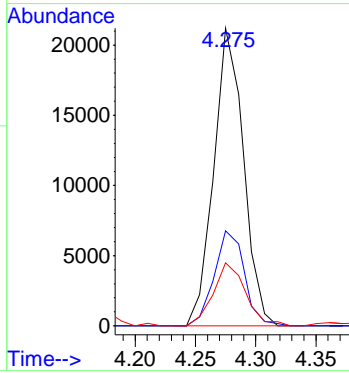
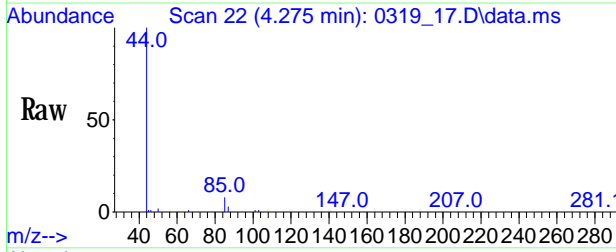
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Quant Title :
Last Update : Fri Mar 18 08:42:58 2022
Response via : Initial Calibration





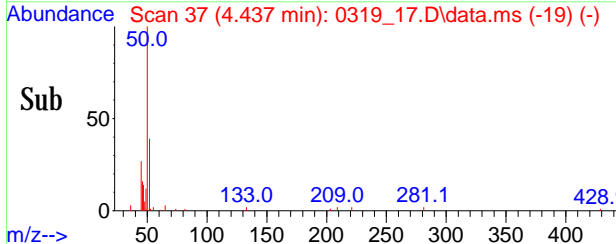
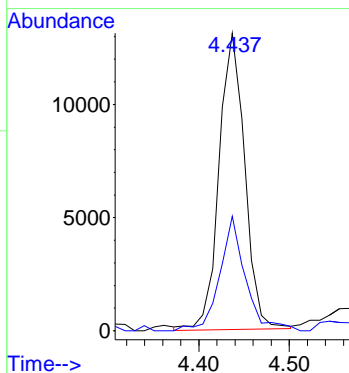
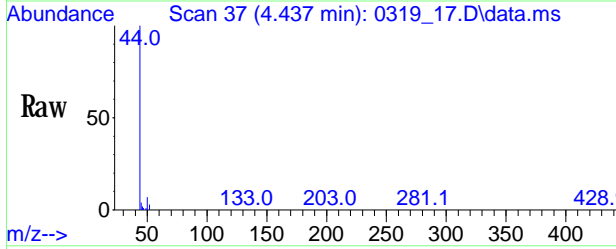
#3
Dichlorodifluoromethane
 Conc: 8S 0.478 ppbv
 RT: 4.275 min Scan# 22
 Delta R.T. -0.011 min
 Lab File: 0319_17.D
 Acq: 19 Mar 2022 4:21 pm

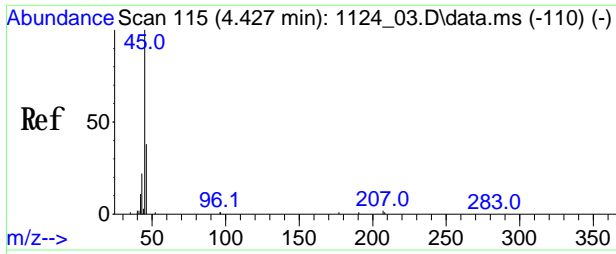
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.4	26.0	39.0
50	23.0	16.2	24.4



#4
Chloromethane
 Conc: 8S 0.523 ppbv
 RT: 4.437 min Scan# 37
 Delta R.T. -0.011 min
 Lab File: 0319_17.D
 Acq: 19 Mar 2022 4:21 pm

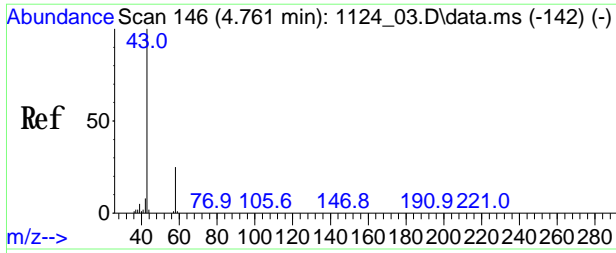
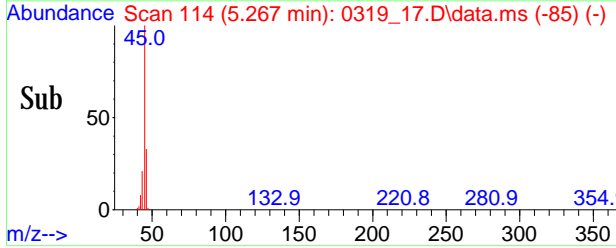
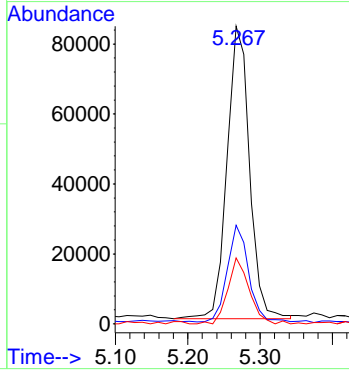
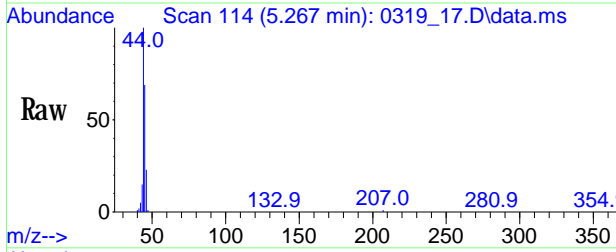
Tgt Ion	Ratio	Lower	Upper
50	100		
52	38.7	11.9	51.9





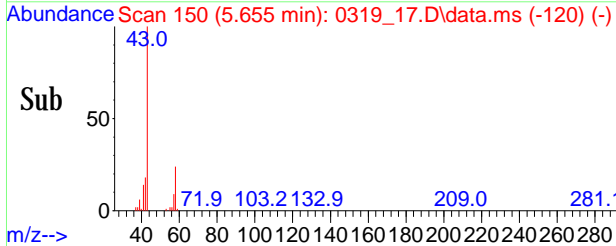
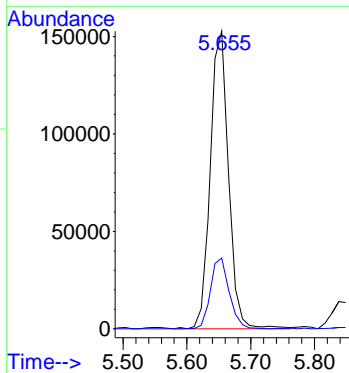
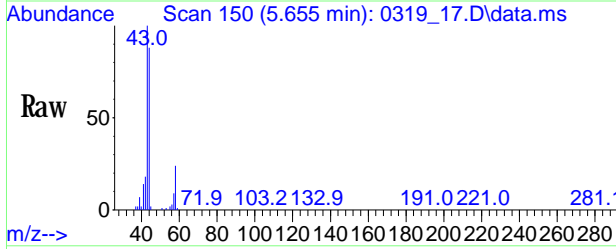
#11
 Ethanol
 Conc: 8S 7.968 ppbv
 RT: 5.267 min Scan# 114
 Delta R.T. 0.011 min
 Lab File: 0319_17.D
 Acq: 19 Mar 2022 4:21 pm

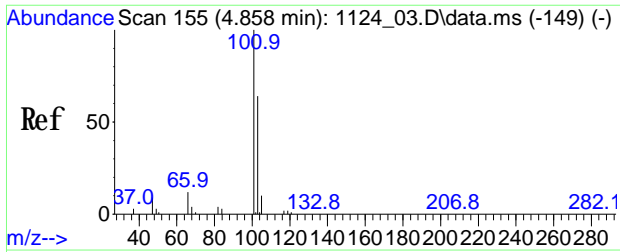
Tgt Ion	Ratio	Lower	Upper
45	100		
46	31.6	27.2	40.8
43	21.5	19.4	29.0



#12
 Acetone
 Conc: 8S 3.826 ppbv
 RT: 5.655 min Scan# 150
 Delta R.T. 0.021 min
 Lab File: 0319_17.D
 Acq: 19 Mar 2022 4:21 pm

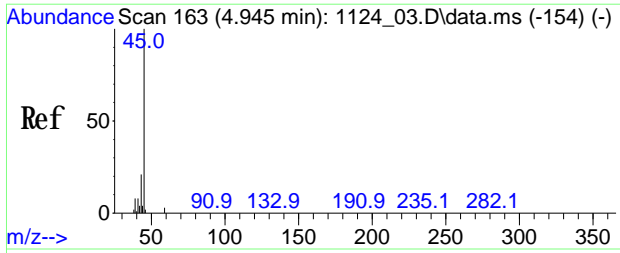
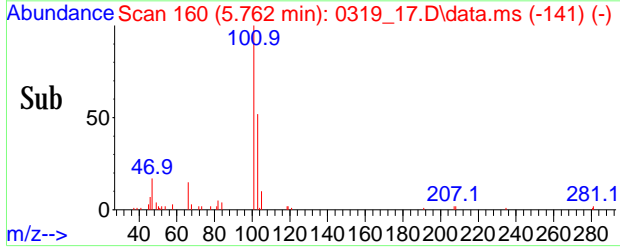
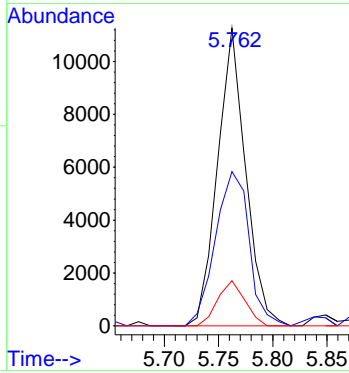
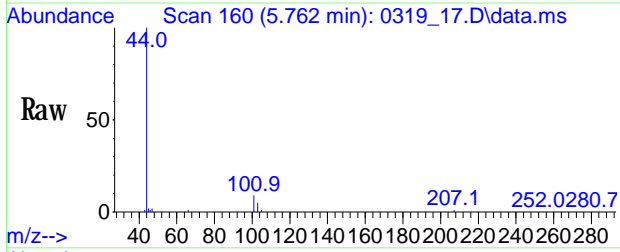
Tgt Ion	Ratio	Lower	Upper
43	100		
58	24.5	18.6	27.8





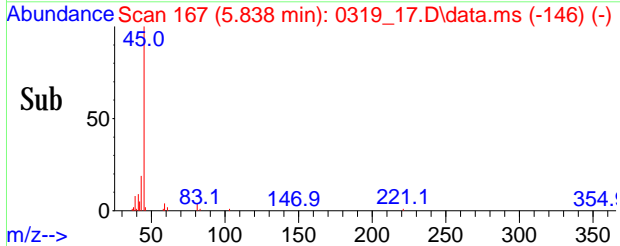
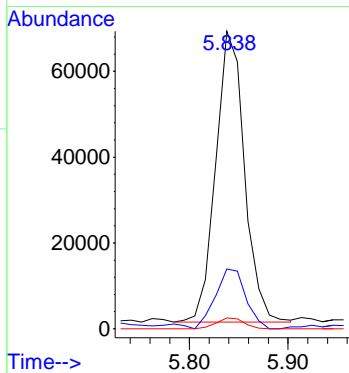
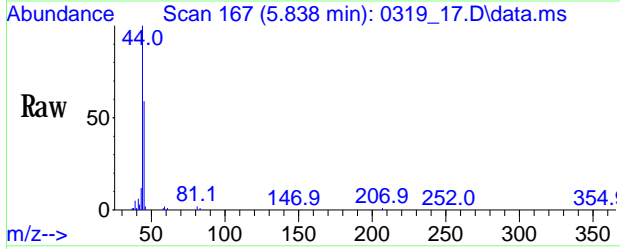
#13
 Trichlorofluoromethane
 Conc: 8S 0.249 ppbv
 RT: 5.762 min Scan# 160
 Delta R.T. -0.000 min
 Lab File: 0319_17.D
 Acq: 19 Mar 2022 4:21 pm

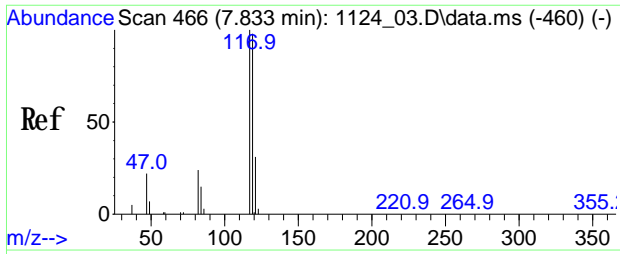
Tgt Ion	Ratio	Resp Lower	Upper
101	100		
103	62.0	53.4	80.0
66	14.6	11.2	16.8



#14
 Isopropylalcohol
 Conc: 8S 1.409 ppbv
 RT: 5.838 min Scan# 167
 Delta R.T. 0.021 min
 Lab File: 0319_17.D
 Acq: 19 Mar 2022 4:21 pm

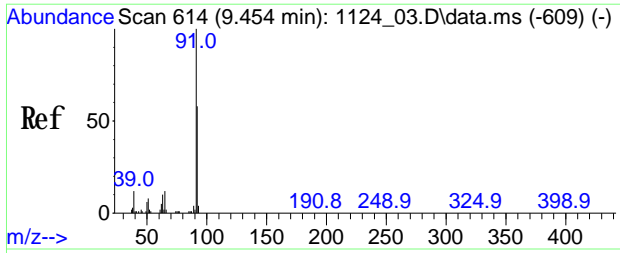
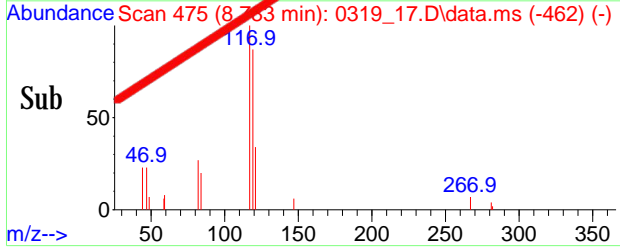
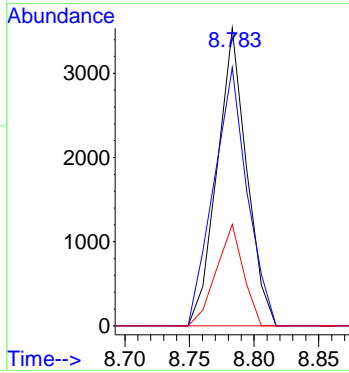
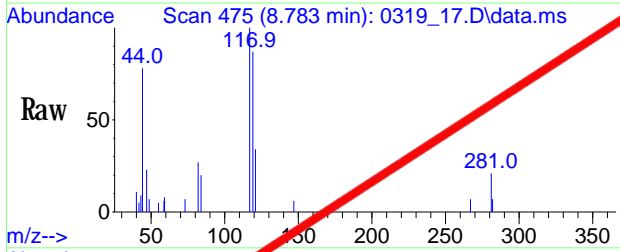
Tgt Ion	Ratio	Resp Lower	Upper
45	100		
43	21.6	16.6	24.8
59	3.6	2.4	3.6





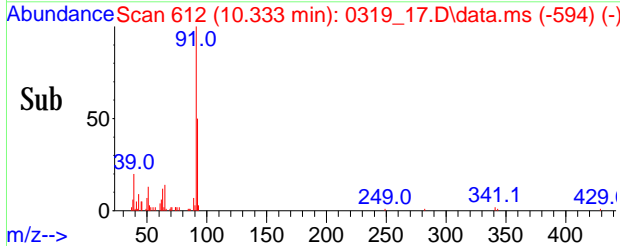
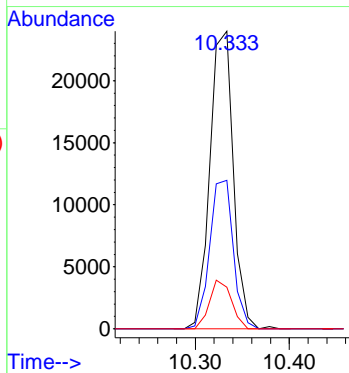
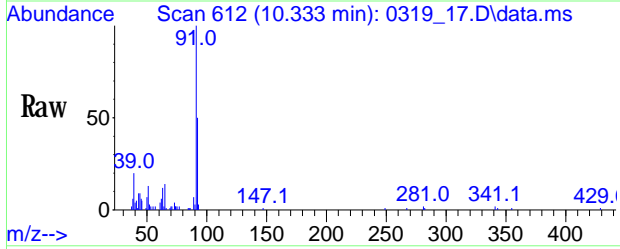
#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 8.783 min Scan# 475
 Delta R.T. 0.002 min
 Lab File: 0319_17.D
 Acq: 19 Mar 2022 4:21 pm

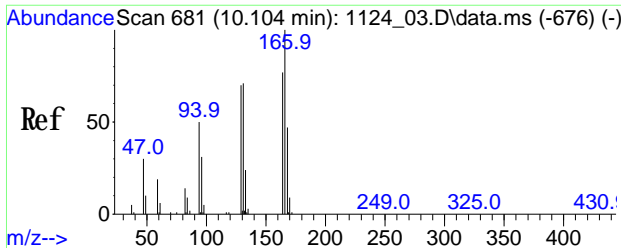
Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.4	77.5	117.5
121	31.3	10.7	50.7



#49
 Toluene
 Conc: 8S 0.433 ppbv
 RT: 10.333 min Scan# 612
 Delta R.T. 0.002 min
 Lab File: 0319_17.D
 Acq: 19 Mar 2022 4:21 pm

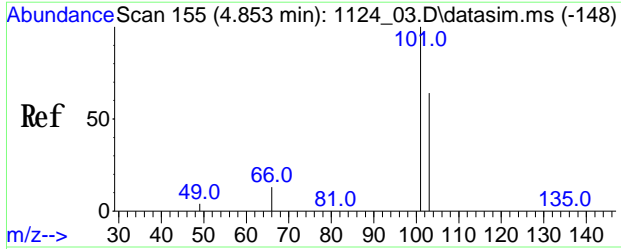
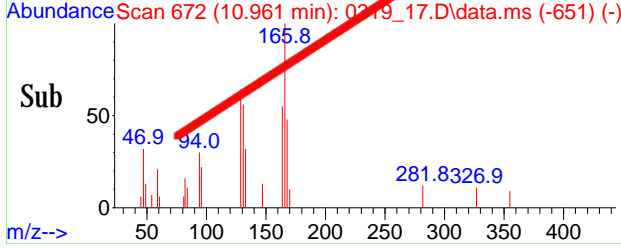
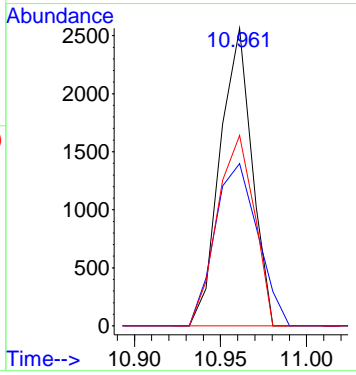
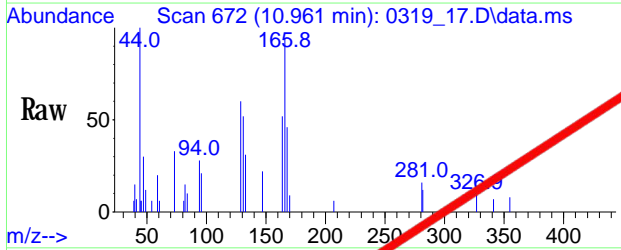
Tgt Ion	Ratio	Lower	Upper
91	100		
92	50.3	43.9	65.9
65	15.3	10.2	15.2#





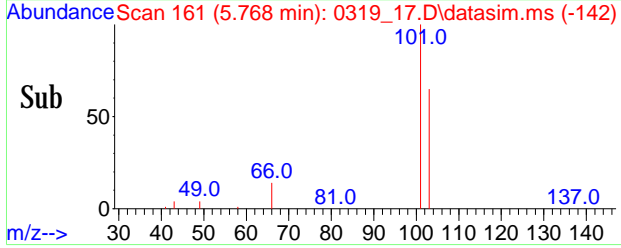
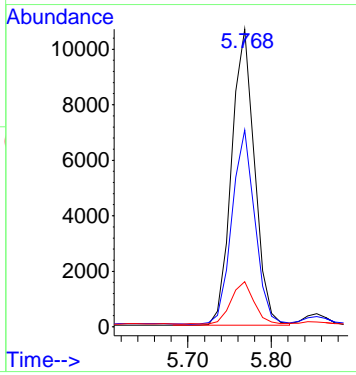
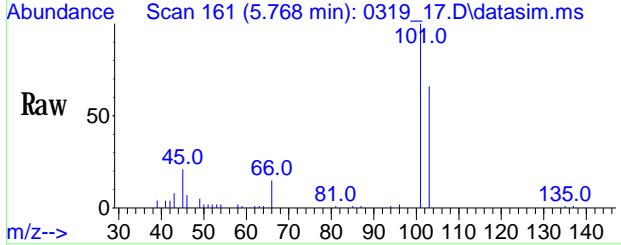
#53
 Tetrachloroethene
 Conc: 8S Below Cal
 RT: 10.961 min Scan# 672
 Delta R.T. 0.002 min
 Lab File: 0319_17.D
 Acq: 19 Mar 2022 4:21 pm

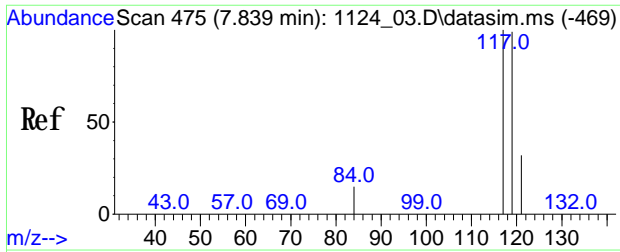
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	3290		
164	73.6	60.0	90.0	
129	74.1	59.0	88.4	



#85
 Trichlorofluoromethane (sim)
 Conc: 8S 0.238 ppbv
 RT: 5.768 min Scan# 161
 Delta R.T. -0.000 min
 Lab File: 0319_17.D
 Acq: 19 Mar 2022 4:21 pm

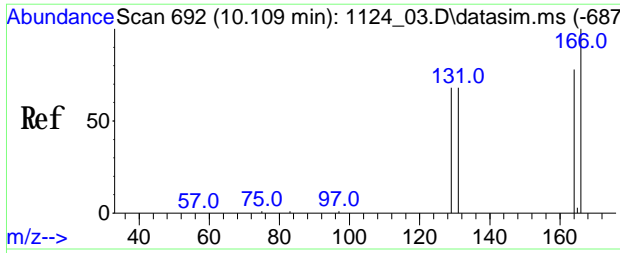
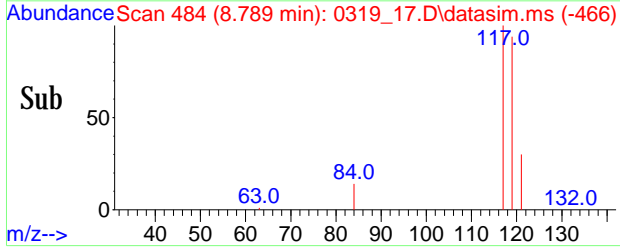
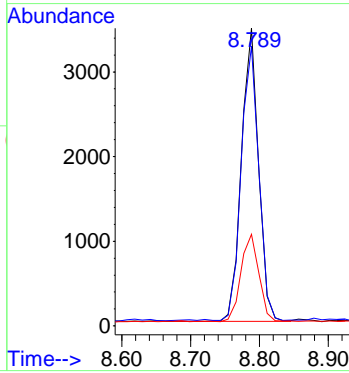
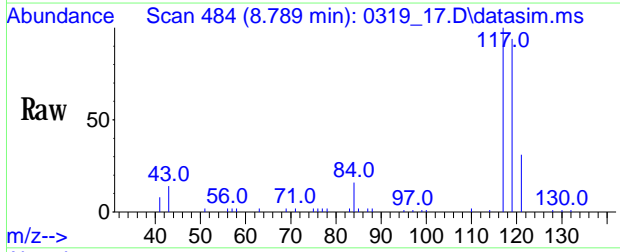
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	20350		
103	65.3	51.2	76.8	
66	14.4	13.5	13.5#	





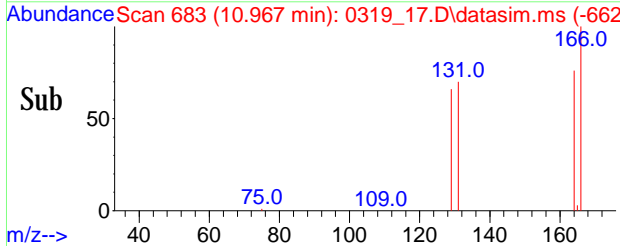
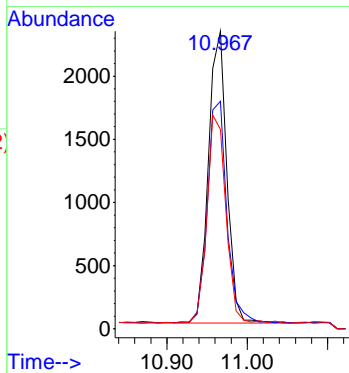
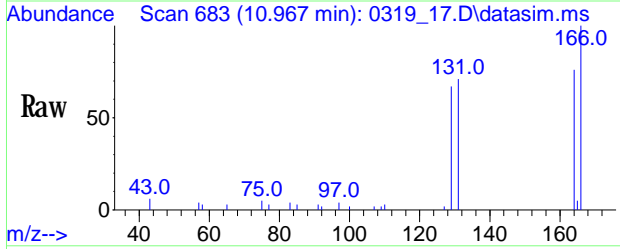
#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.080 ppbv
 RT: 8.789 min Scan# 484
 Delta R.T. 0.002 min
 Lab File: 0319_17.D
 Acq: 19 Mar 2022 4:21 pm

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5990		
119	96.1	76.2	114.4	
121	31.2	23.9	35.9	



#105
 Tetrachloroethene(sim)
 Conc: 8S 0.050 ppbv
 RT: 10.967 min Scan# 683
 Delta R.T. 0.002 min
 Lab File: 0319_17.D
 Acq: 19 Mar 2022 4:21 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	3685		
164	80.9	59.0	99.0	
129	73.1	54.3	94.3	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

VP-7

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90297
Canister:	23336	Lab File ID:	0319_39.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	Date Received: 03/18/22
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.501		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	32.9	S	0.531	0.531	r
67-64-1	Acetone	5.93	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.241		0.178	0.178	r
67-63-0	Isopropylalcohol	9.39	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.534		0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.393		0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.485		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

VP-7

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90297
Canister:	23336	Lab File ID:	0319_39.D
Instrument:	CHEM20	Column:	RTX-1 60M
Date Received:	03/18/22		
Purge Volume	200	(cc)	03/20/22
Date Analyzed:	03/20/22		
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.082		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.042		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_39.D
 Acq On : 20 Mar 2022 4:34 am
 Operator :
 Client ID : VP-7
 Lab ID : CK90297
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 20 09:11:48 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)

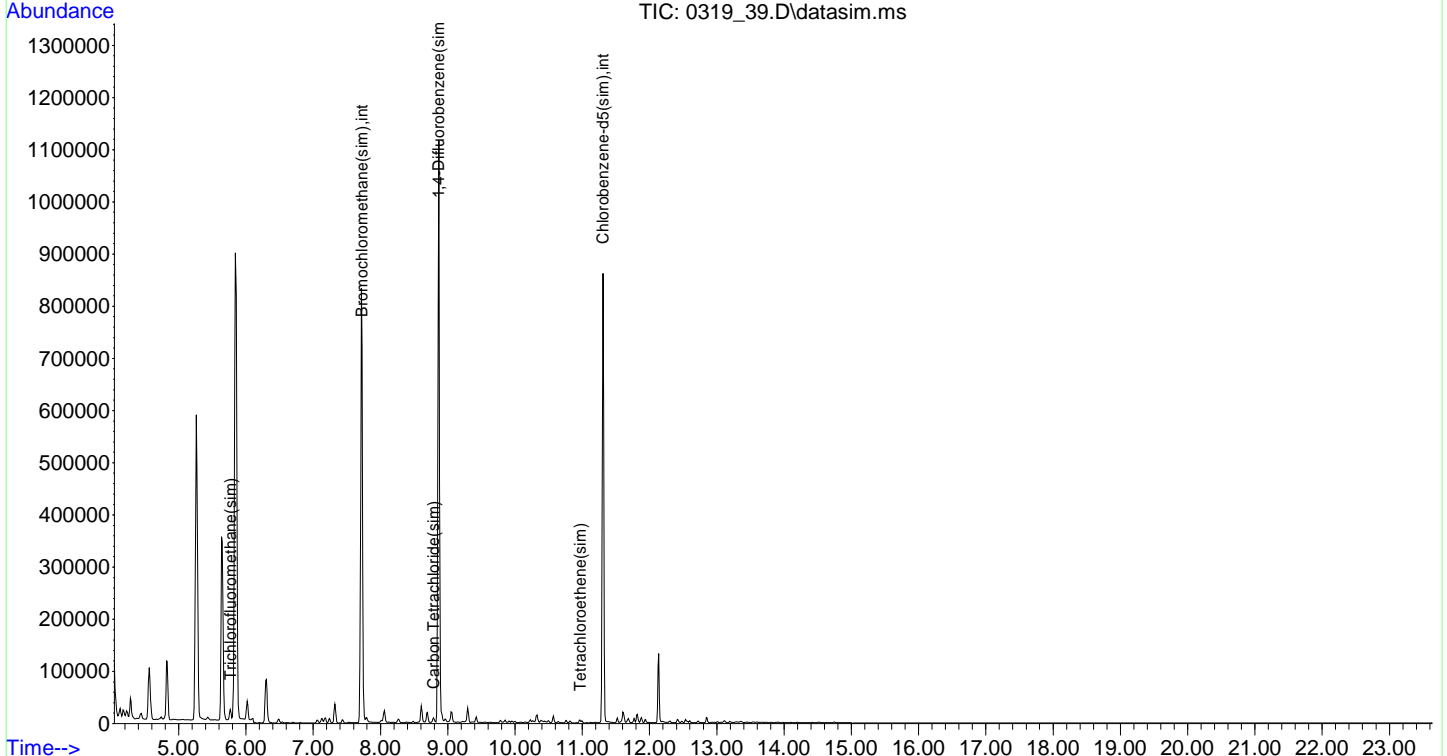
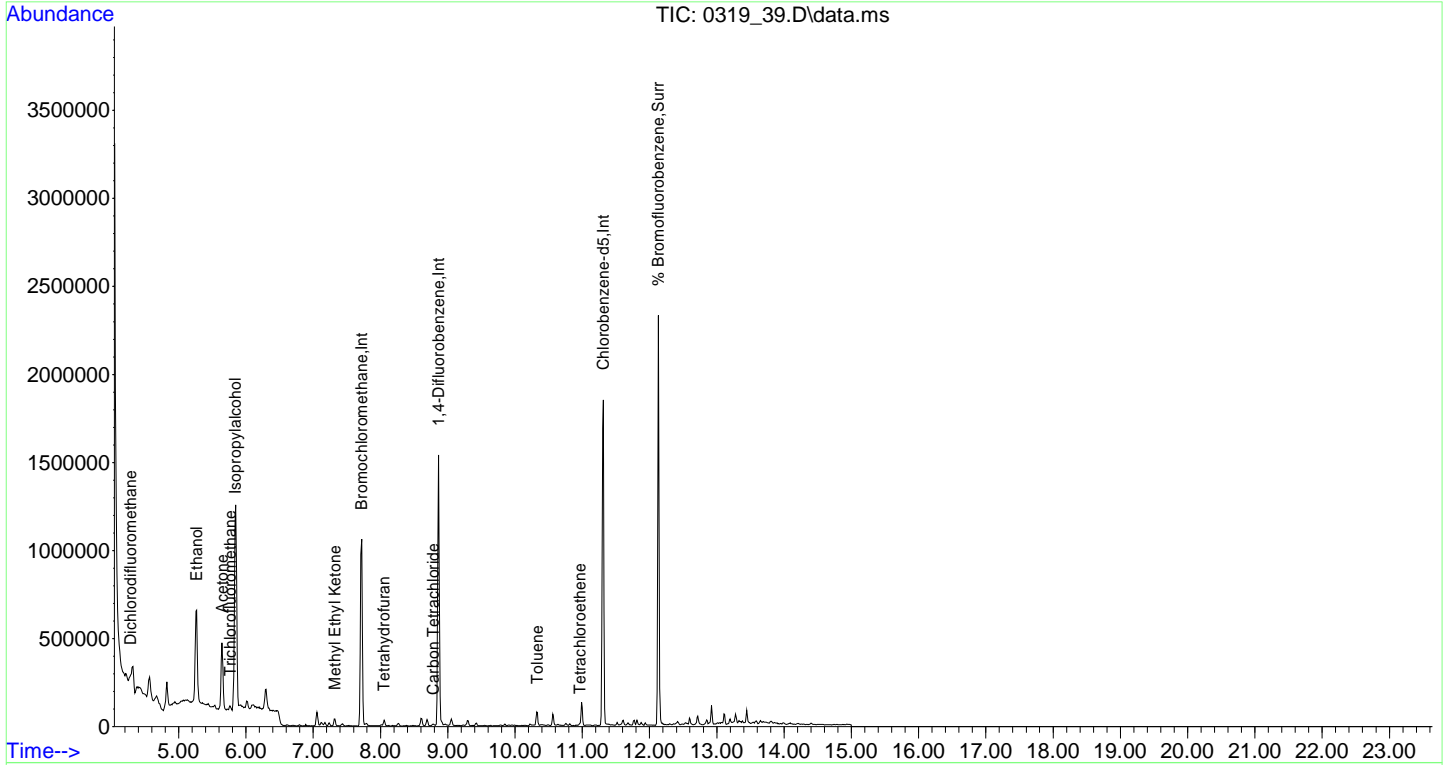
Internal Standards						
1) Bromochloromethane	7.720	130	270839	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	893434	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	434312	10.000	ng	0.00
81) Bromochloromethane(sim)	7.725	130	293642	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	8.862	114	893434	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	434312	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.131	95	573823	10.286	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	102.90%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.286	85	36290	0.501	ppbv	95
11) Ethanol	5.267	45	712095	32.926	ppbv	96
12) Acetone	5.644	43	447591	5.929	ppbv#	90
13) Trichlorofluoromethane	5.762	101	18668	0.241	ppbv	100
14) Isopropylalcohol	5.838	45	872141	9.391	ppbv#	89
26) Methyl Ethyl Ketone	7.322	43	52386	0.534	ppbv#	93
31) Tetrahydrofuran	8.053	42	20478	0.393	ppbv#	85
35) Carbon Tetrachloride	8.783	117	6185	0.087	ppbv	94
49) Toluene	10.333	91	42583	0.485	ppbv#	97
53) Tetrachloroethene	10.961	166	2406	0.049	ppbv#	87
85] Trichlorofluoromethane...	5.768	101	20736	0.254	ppbv#	100
89] Carbon Tetrachloride(sim)	8.789	117	5921	0.082	ppbv	97
105] Tetrachloroethene(sim)	10.967	166	2838	0.042	ppbv	93

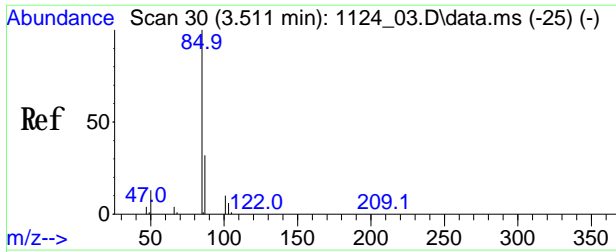
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0319_39.D
Acq On : 20 Mar 2022 4:34 am
Operator :
Client ID : VP-7
Lab ID : CK90297
ALS Vial : 31 Sample Multiplier: 1

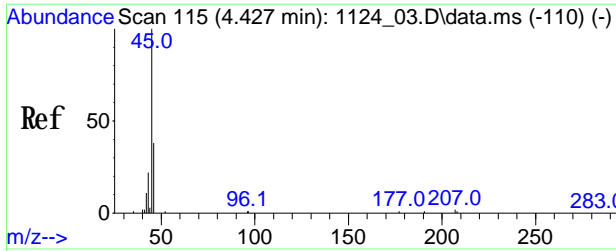
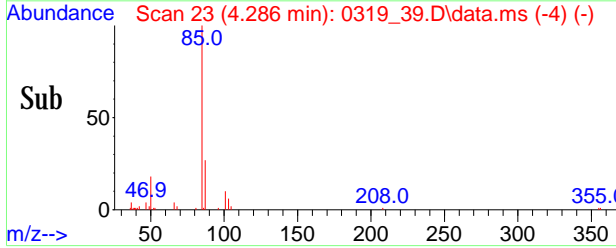
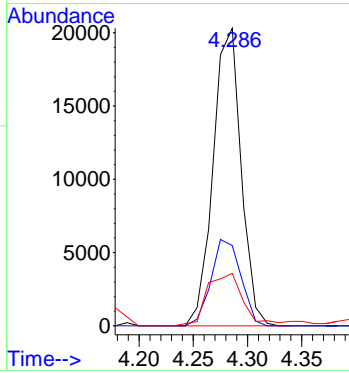
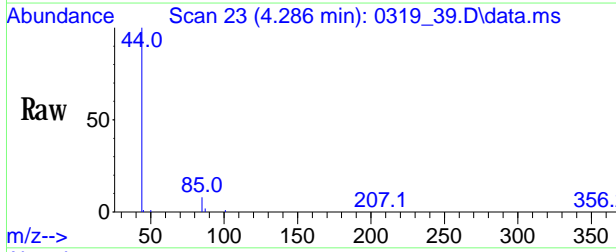
Quant Time: Mar 20 09:11:48 2022
Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 18 08:43:01 2022
Response via : Initial Calibration





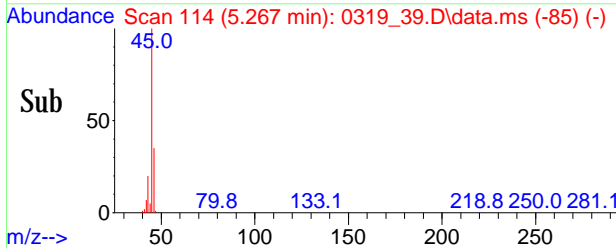
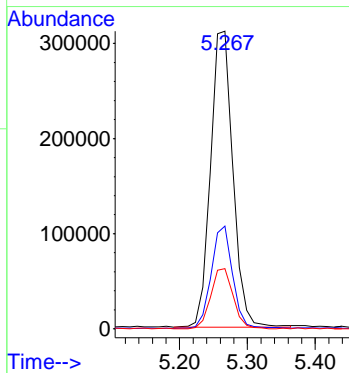
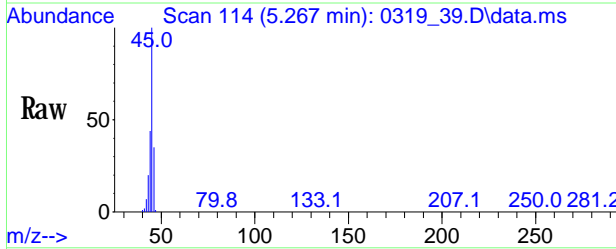
#3
 Dichlorodifluoromethane
 Conc: 8S 0.501 ppbv
 RT: 4.286 min Scan# 23
 Delta R.T. -0.000 min
 Lab File: 0319_39.D
 Acq: 20 Mar 2022 4:34 am

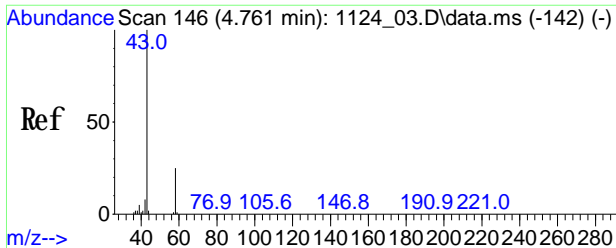
Tgt Ion	Ratio	Lower	Upper
85	100		
87	30.9	26.0	39.0
50	24.1	16.2	24.4



#11
 Ethanol
 Conc: 8S 32.926 ppbv
 RT: 5.267 min Scan# 114
 Delta R.T. 0.011 min
 Lab File: 0319_39.D
 Acq: 20 Mar 2022 4:34 am

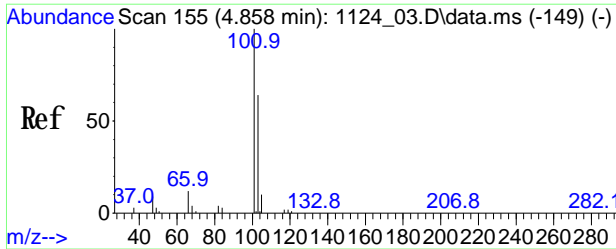
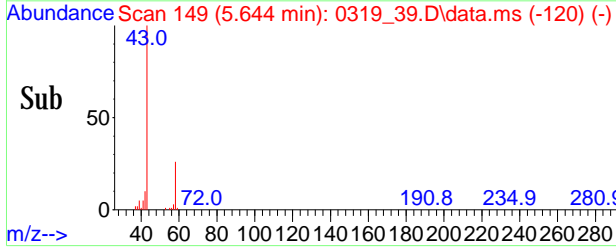
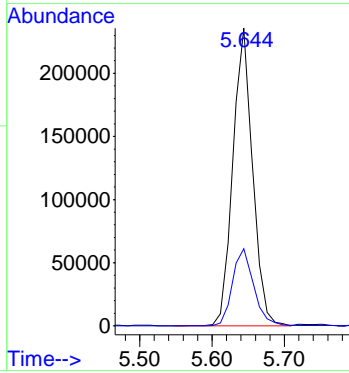
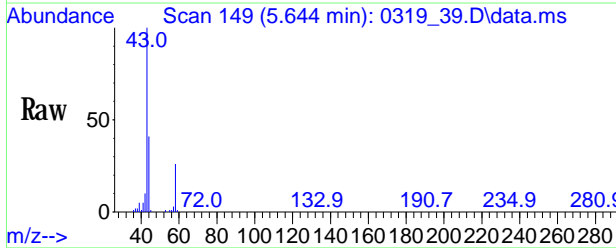
Tgt Ion	Ratio	Lower	Upper
45	100		
46	33.0	27.2	40.8
43	20.4	19.4	29.0





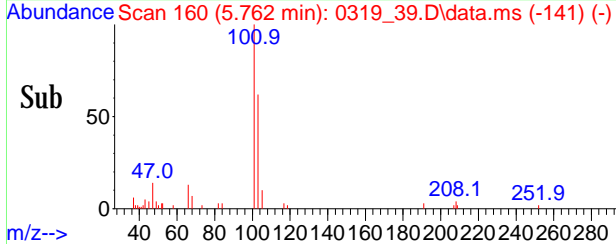
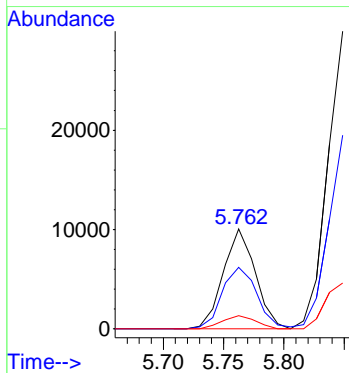
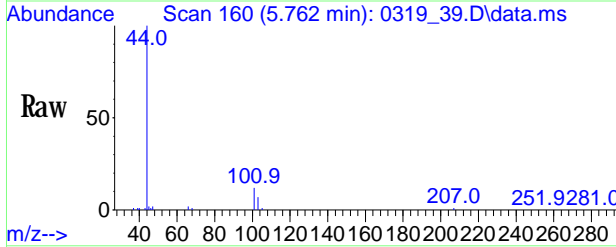
#12
 Acetone
 Conc: 8S 5.929 ppbv
 RT: 5.644 min Scan# 149
 Delta R.T. 0.011 min
 Lab File: 0319_39.D
 Acq: 20 Mar 2022 4:34 am

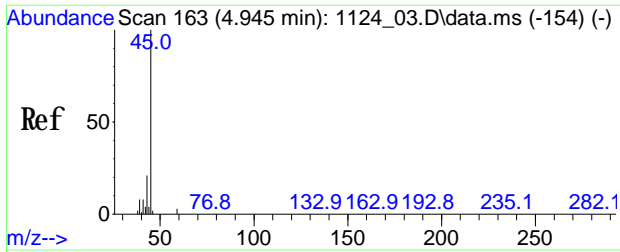
Tgt Ion: 43 Resp: 447591
 Ion Ratio Lower Upper
 43 100
 58 28.0 18.6 27.8#



#13
 Trichlorofluoromethane
 Conc: 8S 0.241 ppbv
 RT: 5.762 min Scan# 160
 Delta R.T. -0.000 min
 Lab File: 0319_39.D
 Acq: 20 Mar 2022 4:34 am

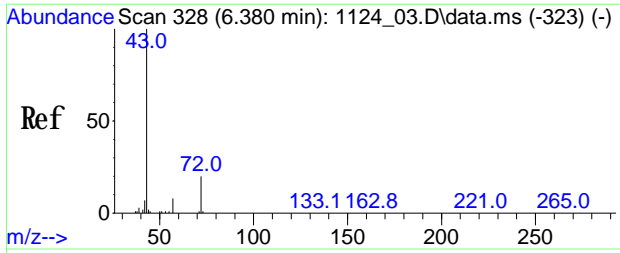
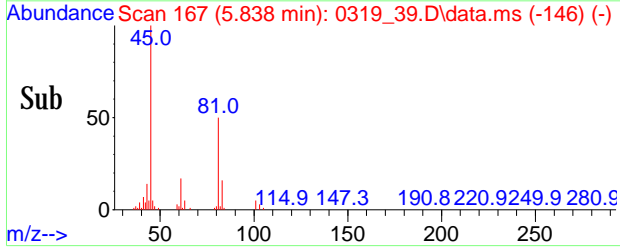
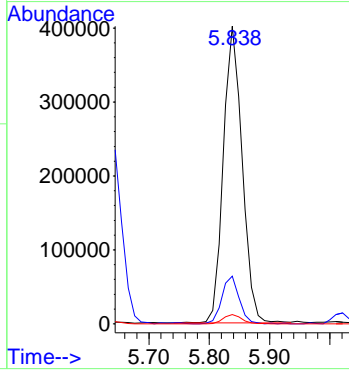
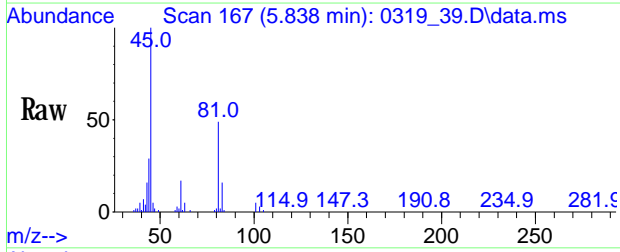
Tgt Ion: 101 Resp: 18668
 Ion Ratio Lower Upper
 101 100
 103 66.9 53.4 80.0
 66 13.7 11.2 16.8





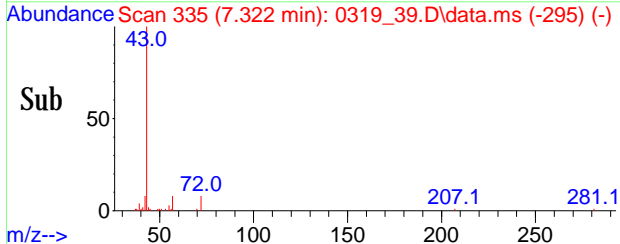
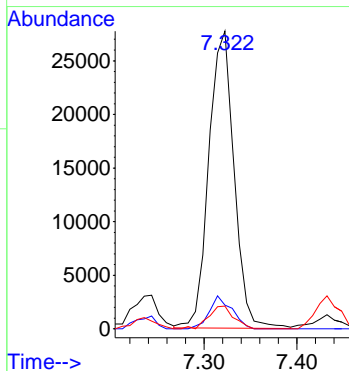
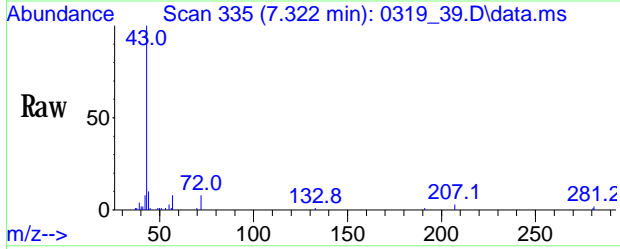
#14
 Isopropyl alcohol
 Conc: 8S 9.391 ppbv
 RT: 5.838 min Scan# 167
 Delta R.T. 0.021 min
 Lab File: 0319_39.D
 Acq: 20 Mar 2022 4:34 am

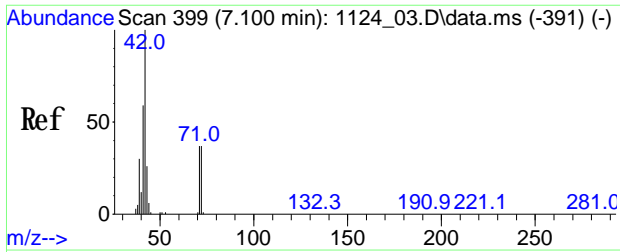
Tgt Ion	Ratio	Lower	Upper
45	100		
43	14.9	16.6	24.8#
59	3.1	2.4	3.6



#26
 Methyl Ethyl Ketone
 Conc: 8S 0.534 ppbv
 RT: 7.322 min Scan# 335
 Delta R.T. 0.016 min
 Lab File: 0319_39.D
 Acq: 20 Mar 2022 4:34 am

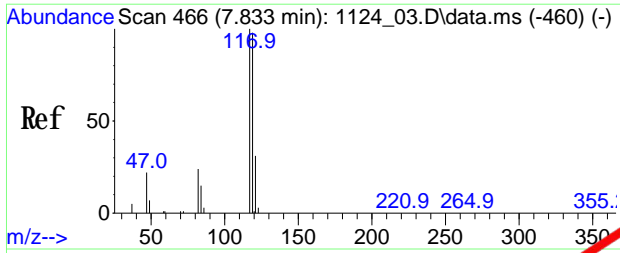
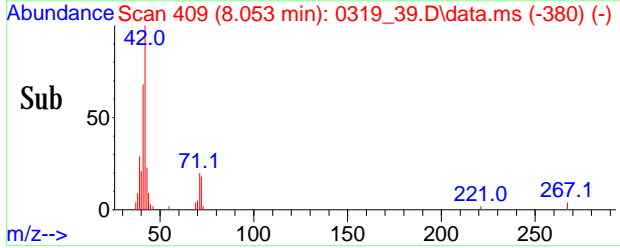
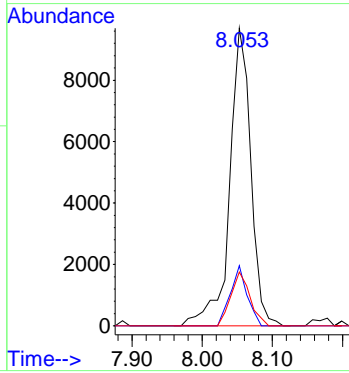
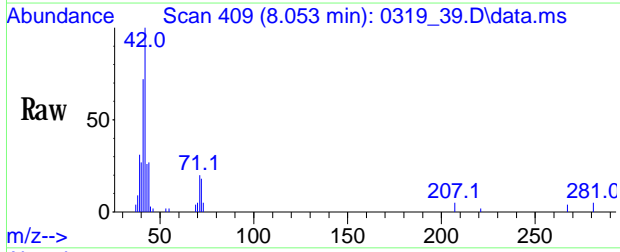
Tgt Ion	Ratio	Lower	Upper
43	100		
72	9.9	11.1	16.7#
57	7.6	6.0	9.0





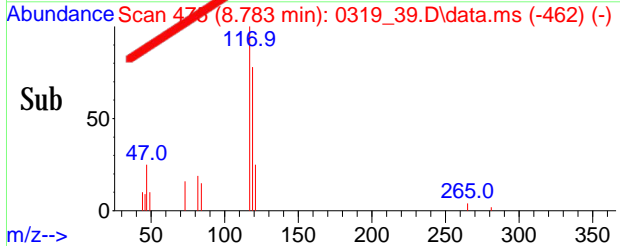
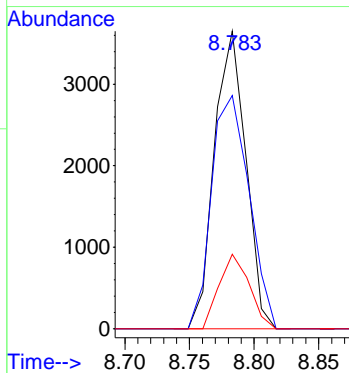
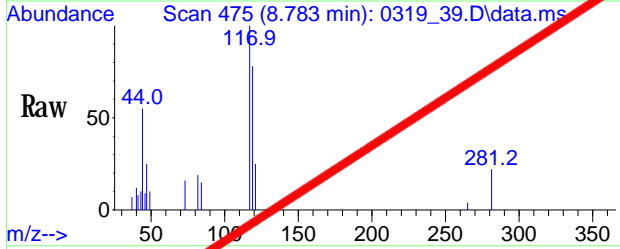
#31
 Tetrahydrofuran
 Conc: 8S 0.393 ppbv
 RT: 8.053 min Scan# 409
 Delta R.T. 0.002 min
 Lab File: 0319_39.D
 Acq: 20 Mar 2022 4:34 am

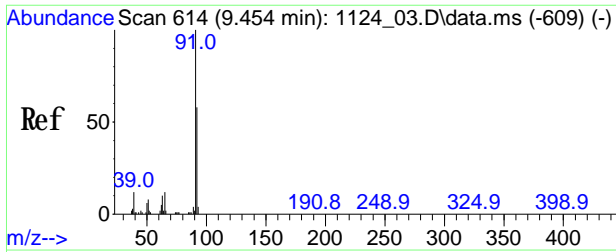
Tgt Ion	Ratio	Lower	Upper
42	100		
71	16.0	19.4	29.2#
72	16.3	18.0	27.0#



#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 8.783 min Scan# 475
 Delta R.T. 0.002 min
 Lab File: 0319_39.D
 Acq: 20 Mar 2022 4:34 am

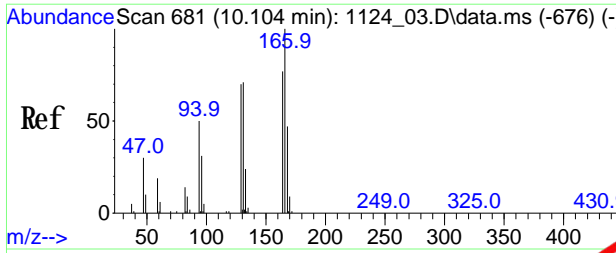
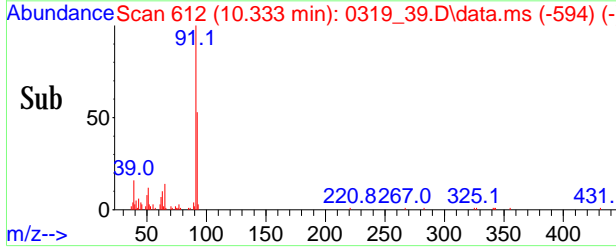
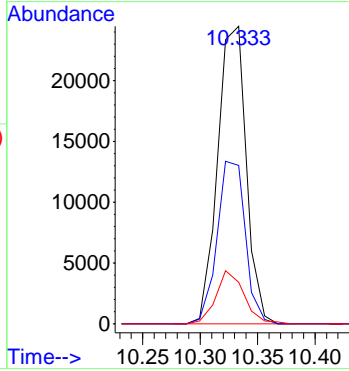
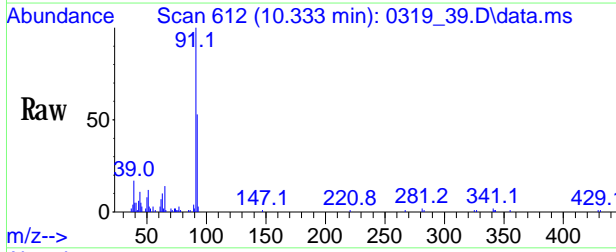
Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.6	77.5	117.5
121	24.1	10.7	50.7





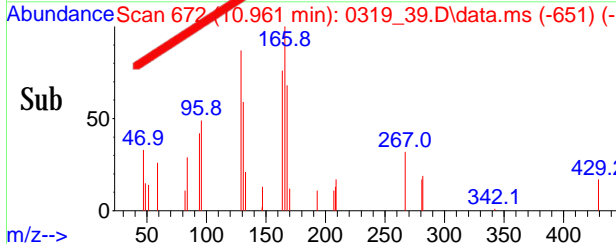
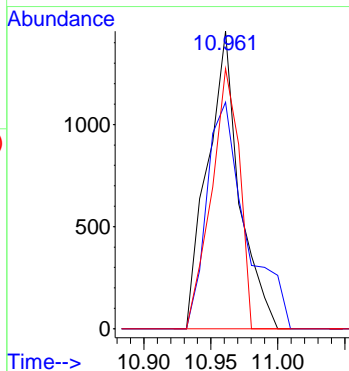
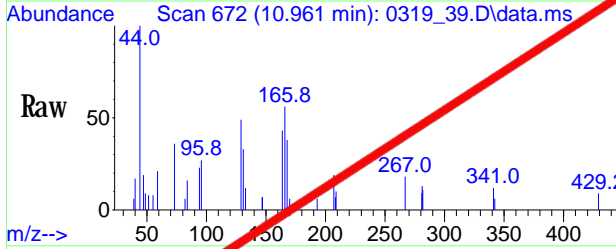
#49
 Toluene
 Conc: 8S 0.485 ppbv
 RT: 10.333 min Scan# 612
 Delta R.T. 0.002 min
 Lab File: 0319_39.D
 Acq: 20 Mar 2022 4:34 am

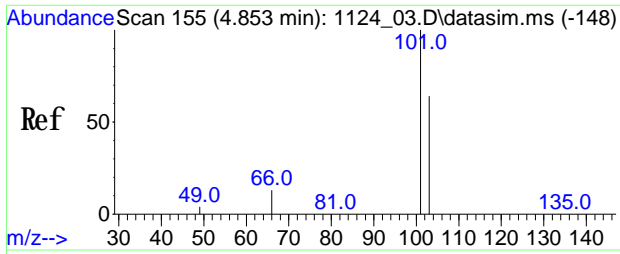
Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.9	43.9	65.9
65	17.6	10.2	15.2#



#53
 Tetrachloroethene
 Conc: 8S Below Cal
 RT: 10.961 min Scan# 672
 Delta R.T. 0.002 min
 Lab File: 0319_39.D
 Acq: 20 Mar 2022 4:34 am

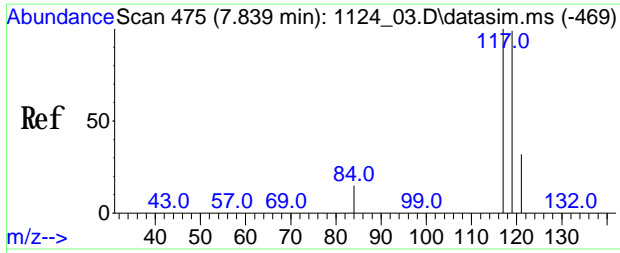
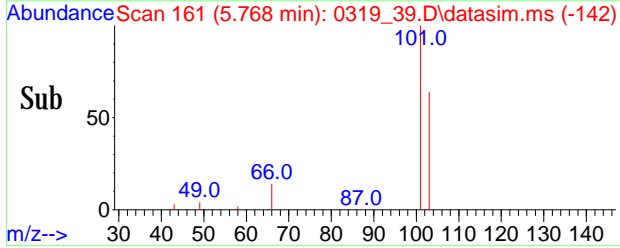
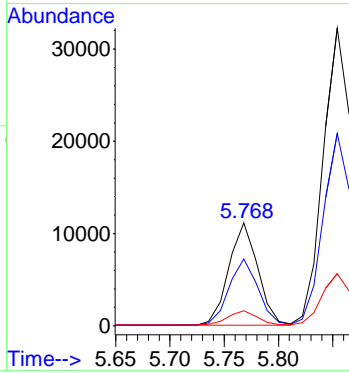
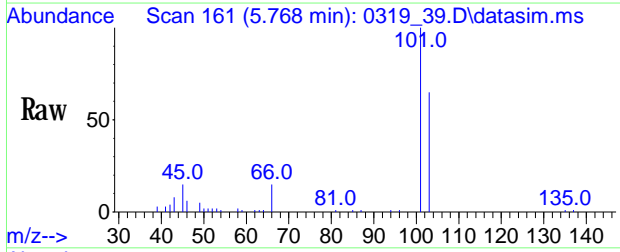
Tgt Ion	Ratio	Lower	Upper
166	100		
164	93.6	60.0	90.0#
129	77.0	59.0	88.4





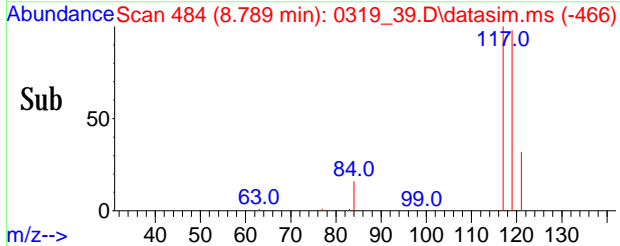
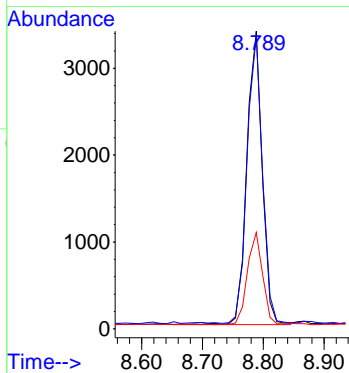
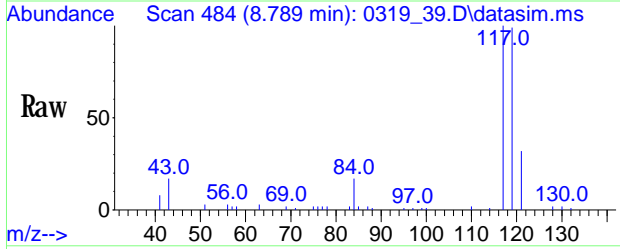
#85
 Trichlorofluoromethane(sim)
 Conc: 8S 0.254 ppbv
 RT: 5.768 min Scan# 161
 Delta R.T. -0.000 min
 Lab File: 0319_39.D
 Acq: 20 Mar 2022 4:34 am

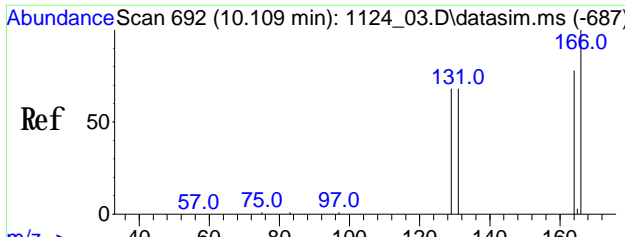
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	20736		
103	64.0	51.2	76.8	
66	14.0	13.5	13.5#	



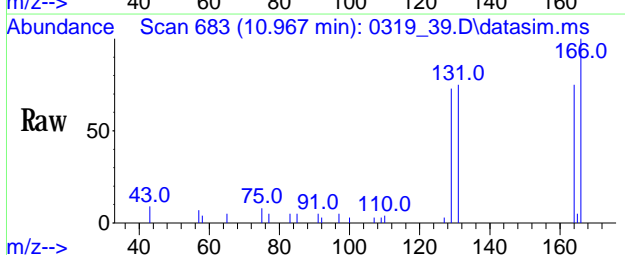
#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.082 ppbv
 RT: 8.789 min Scan# 484
 Delta R.T. 0.002 min
 Lab File: 0319_39.D
 Acq: 20 Mar 2022 4:34 am

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5921		
119	98.3	76.2	114.4	
121	31.2	23.9	35.9	

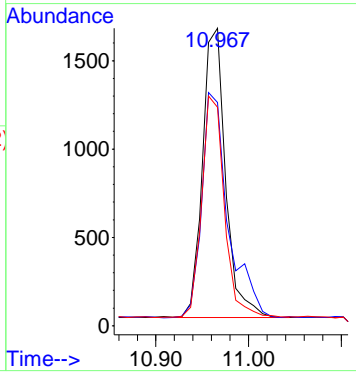
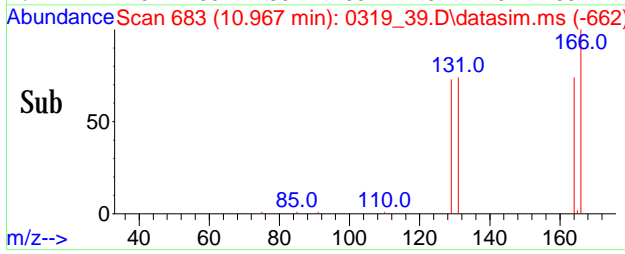




#105
 Tetrachloroethene(sim)
 Conc: 8S 0.042 ppbv
 RT: 10.967 min Scan# 683
 Delta R.T. 0.002 min
 Lab File: 0319_39.D
 Acq: 20 Mar 2022 4:34 am



Tgt Ion	Resp	Lower	Upper
166	100		
164	89.5	59.0	99.0
129	75.0	54.3	94.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-3

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90298
Canister:	19931	Lab File ID:	0319_18.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200 (cc)	Date Received:	03/18/22
Matrix:	AIR	Date Analyzed:	03/19/22
		Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.529		0.202	0.202	r
74-87-3	Chloromethane	0.614		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	5.32	S	0.531	0.531	r
67-64-1	Acetone	3.64	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.252		0.178	0.178	r
67-63-0	Isopropylalcohol	0.928	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.631		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-3

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCK90290</u>	Lab Sample ID:	<u>CK90298</u>
Canister:	<u>19931</u>	Lab File ID:	<u>0319_18.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
		Date Received:	<u>03/18/22</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>03/19/22</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.082		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.046		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_18.D
 Acq On : 19 Mar 2022 4:56 pm
 Operator :
 Client ID : IA-3
 Lab ID : CK90298
 ALS Vial : 10 Sample Multiplier: 1

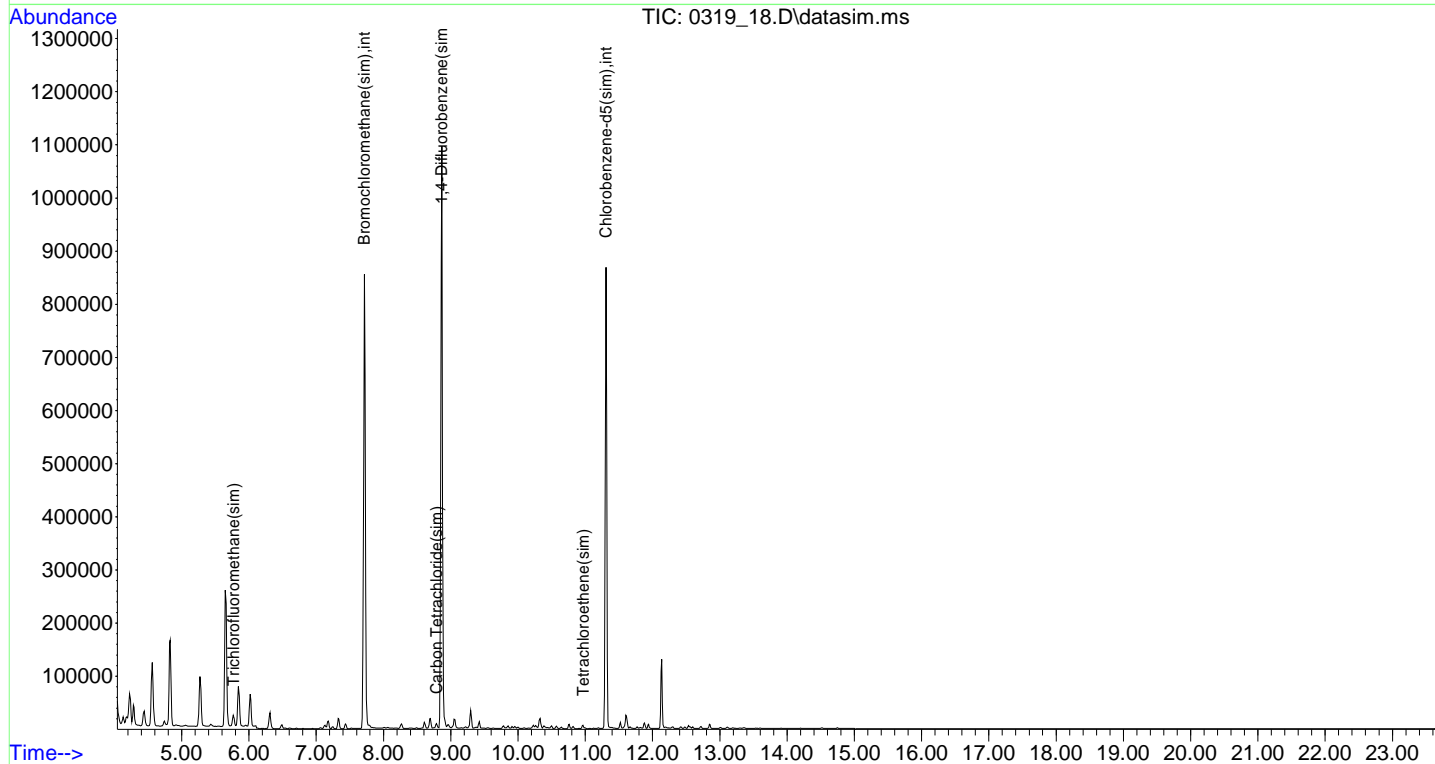
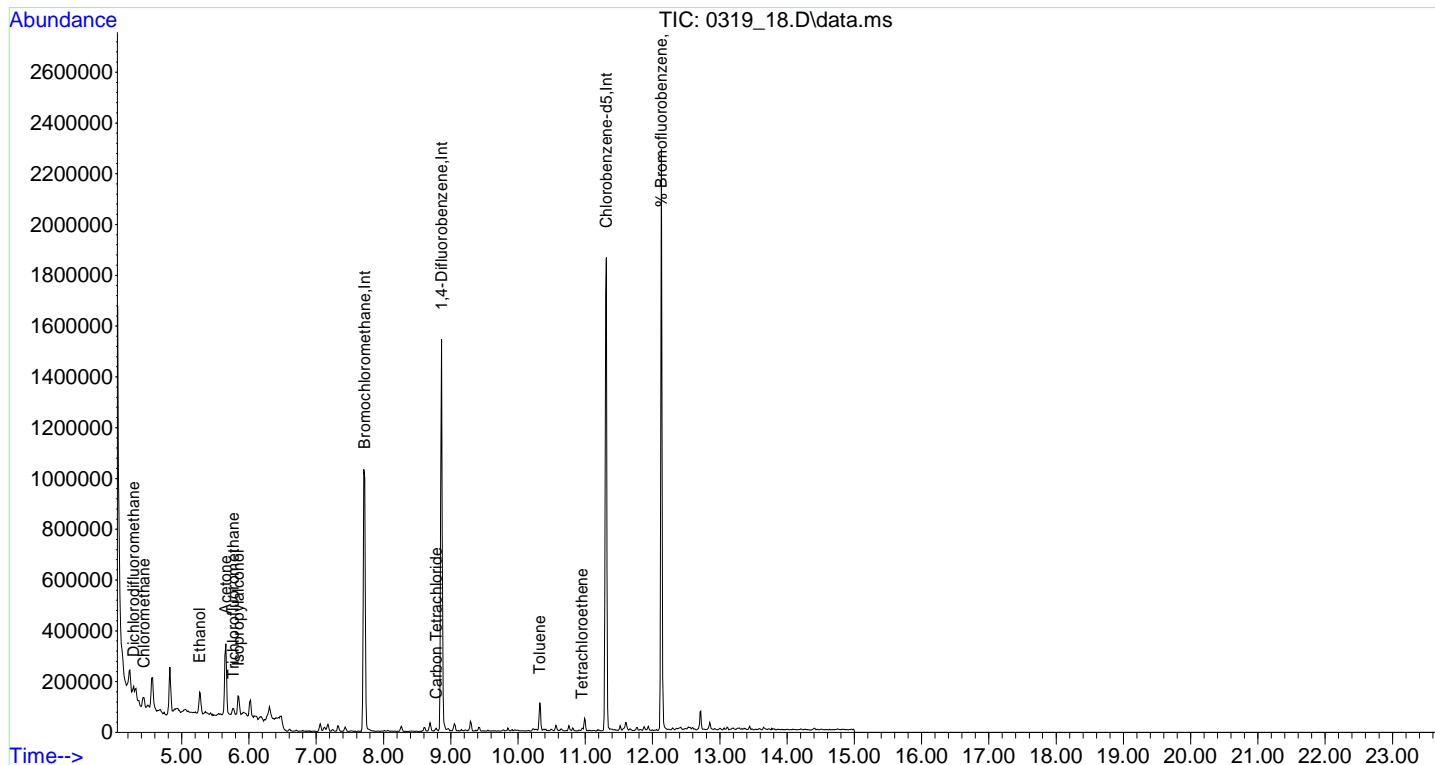
Quant Time: Mar 20 09:03:42 2022
 Quant Title :
 QLast Update : Fri Mar 18 08:42:58 2022
 Response via : Initial Calibration

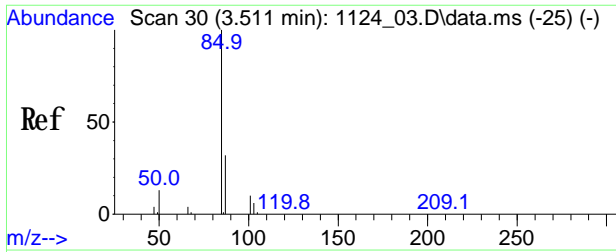
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.720	130	271263	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	914006	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	431941	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	295551	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	914006	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	431941	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	560135	10.096	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	101.00%	
Target Compounds						
3) Dichlorodifluoromethane	4.286	85	38382	0.529	ppbv	Qvalue 98
4) Chloromethane	4.437	50	28989	0.614	ppbv	97
11) Ethanol	5.267	45	115134	5.315	ppbv	94
12) Acetone	5.655	43	274953	3.636	ppbv	97
13) Trichlorofluoromethane	5.763	101	19498	0.252	ppbv	97
14) Isopropylalcohol	5.838	45	86305	0.928	ppbv	99
35) Carbon Tetrachloride	8.783	117	5164	0.073	ppbv	83
49) Toluene	10.322	91	56656	0.631	ppbv#	96
53) Tetrachloroethene	10.951	166	3032	0.060	ppbv	91
85] Trichlorofluoromethane...	5.768	101	21398	0.260	ppbv#	98
89] Carbon Tetrachloride(sim)	8.789	117	5894	0.081	ppbv	96
105] Tetrachloroethene(sim)	10.967	166	3186	0.046	ppbv	97

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0319_18.D
Acq On : 19 Mar 2022 4:56 pm
Operator :
Client ID : IA-3
Lab ID : CK90298
ALS Vial : 10 Sample Multiplier: 1

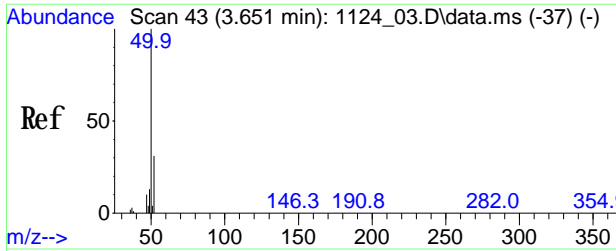
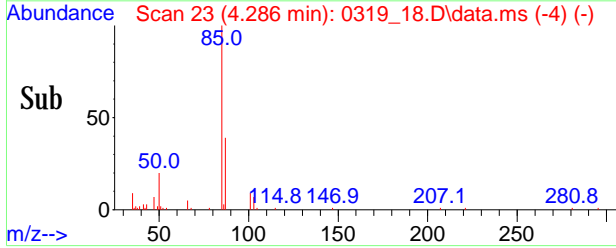
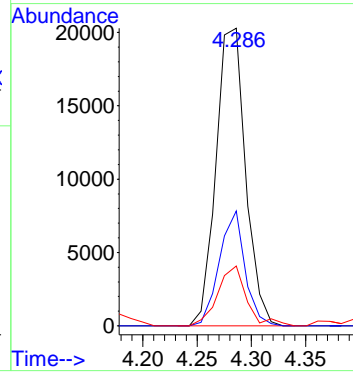
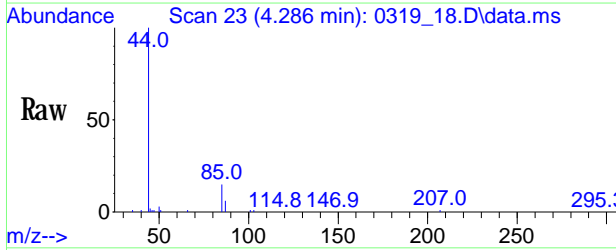
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Quant Title :
Last Update : Fri Mar 18 08:42:58 2022
Response via : Initial Calibration





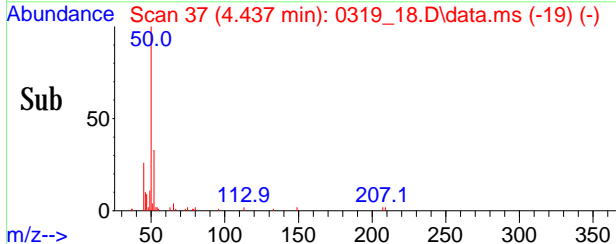
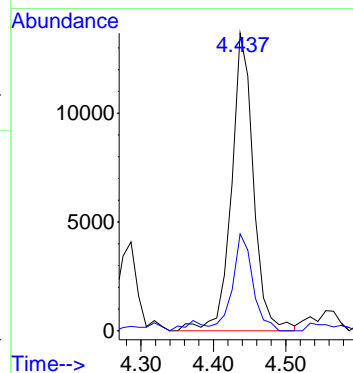
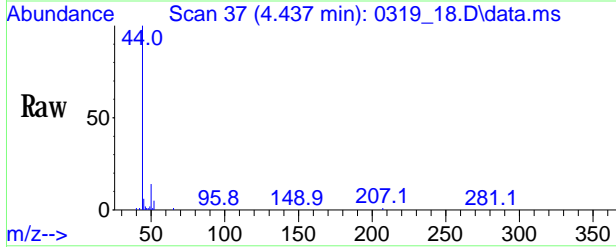
#3
 Dichlorodifluoromethane
 Conc: 8S 0.529 ppbv
 RT: 4.286 min Scan# 23
 Delta R.T. 0.000 min
 Lab File: 0319_18.D
 Acq: 19 Mar 2022 4:56 pm

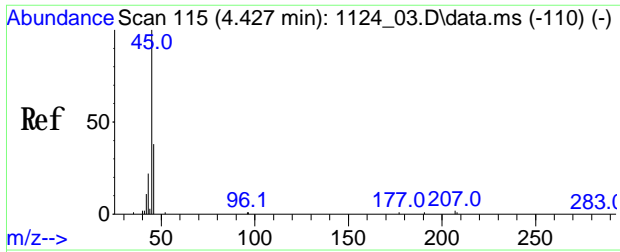
Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.5	26.0	39.0
50	19.6	16.2	24.4



#4
 Chloromethane
 Conc: 8S 0.614 ppbv
 RT: 4.437 min Scan# 37
 Delta R.T. -0.011 min
 Lab File: 0319_18.D
 Acq: 19 Mar 2022 4:56 pm

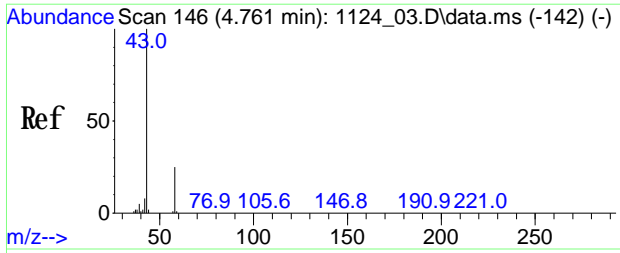
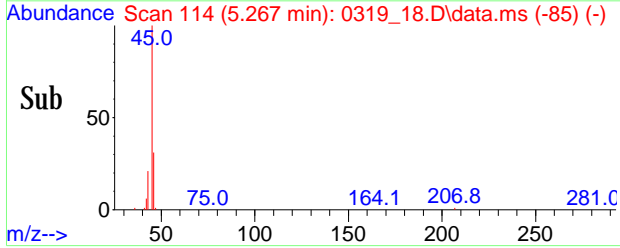
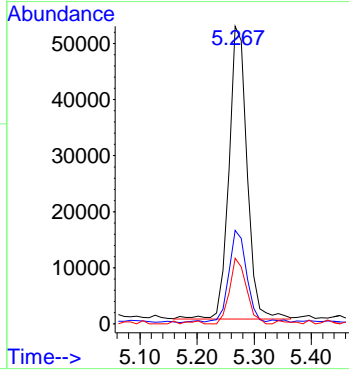
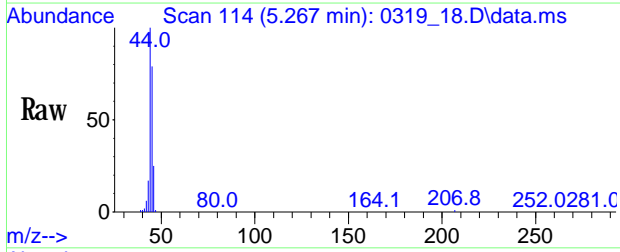
Tgt Ion	Ratio	Lower	Upper
50	100		
52	30.0	11.9	51.9





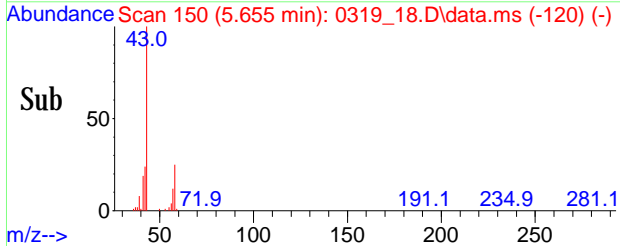
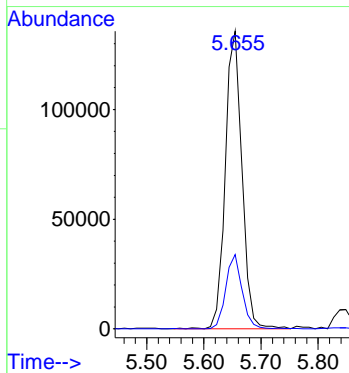
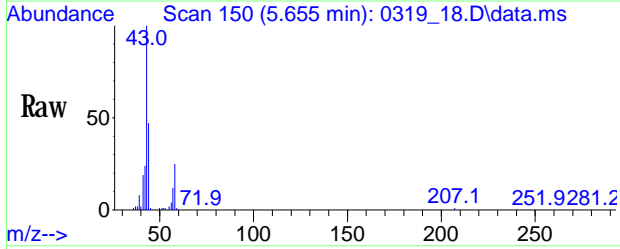
#11
 Ethanol
 Conc: 8S 5.315 ppbv
 RT: 5.267 min Scan# 114
 Delta R.T. 0.011 min
 Lab File: 0319_18.D
 Acq: 19 Mar 2022 4:56 pm

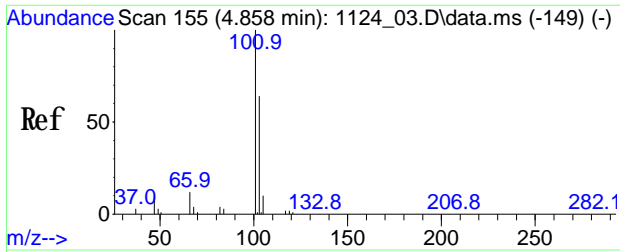
Tgt Ion	Ratio	Lower	Upper
45	100		
46	31.2	27.2	40.8
43	20.9	19.4	29.0



#12
 Acetone
 Conc: 8S 3.636 ppbv
 RT: 5.655 min Scan# 150
 Delta R.T. 0.022 min
 Lab File: 0319_18.D
 Acq: 19 Mar 2022 4:56 pm

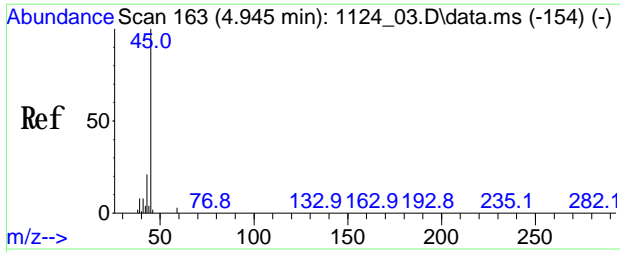
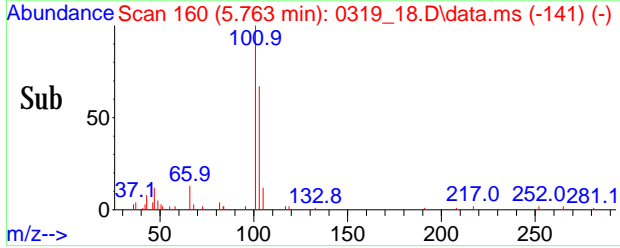
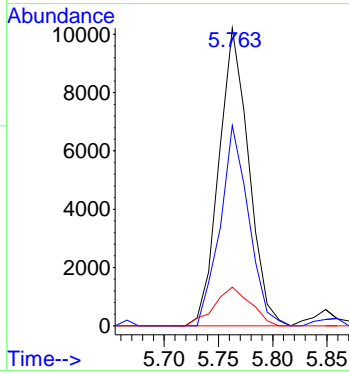
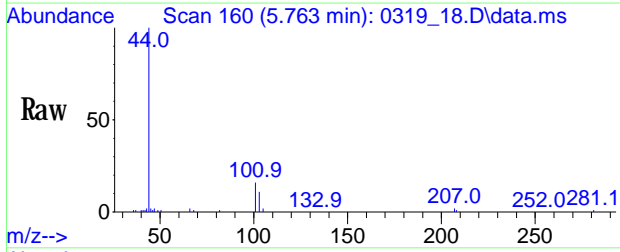
Tgt Ion	Ratio	Lower	Upper
43	100		
58	24.5	18.6	27.8





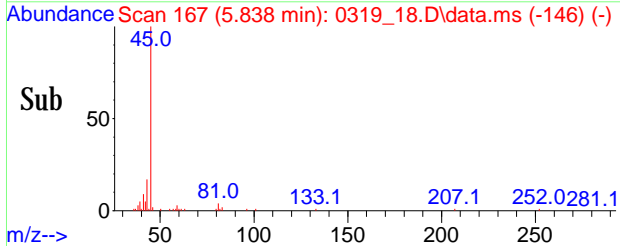
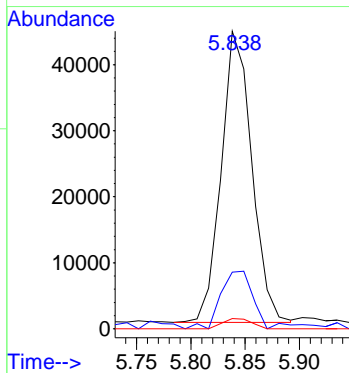
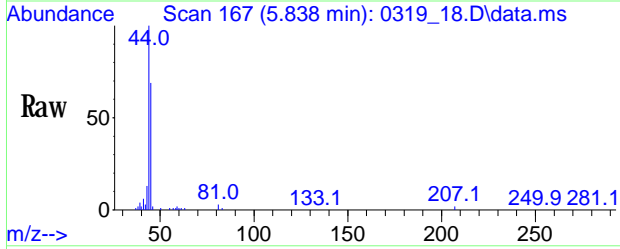
#13
 Trichlorofluoromethane
 Conc: 8S 0.252 ppbv
 RT: 5.763 min Scan# 160
 Delta R.T. 0.000 min
 Lab File: 0319_18.D
 Acq: 19 Mar 2022 4:56 pm

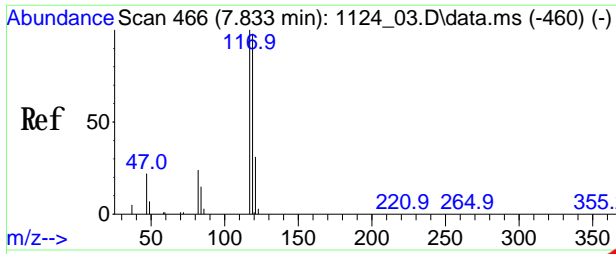
Tgt Ion	Ratio	Resp: Lower	Upper
101	100		
103	64.5	53.4	80.0
66	15.8	11.2	16.8



#14
 Isopropylalcohol
 Conc: 8S 0.928 ppbv
 RT: 5.838 min Scan# 167
 Delta R.T. 0.022 min
 Lab File: 0319_18.D
 Acq: 19 Mar 2022 4:56 pm

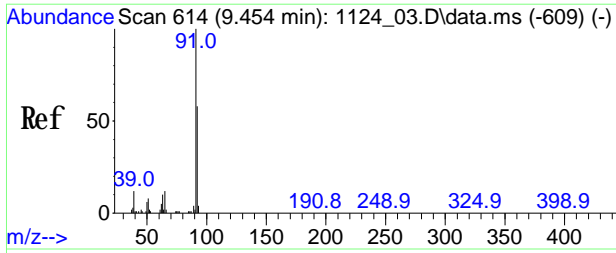
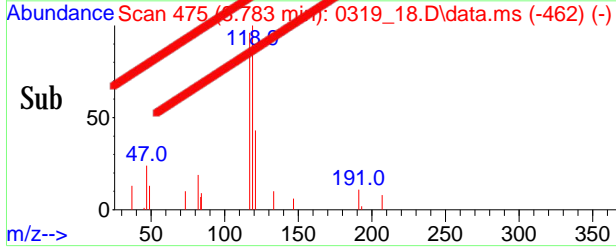
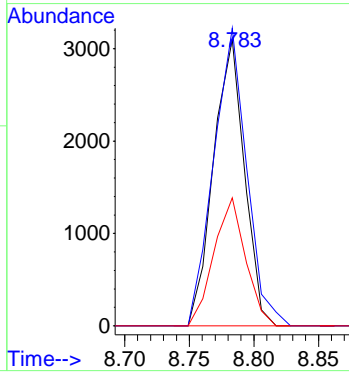
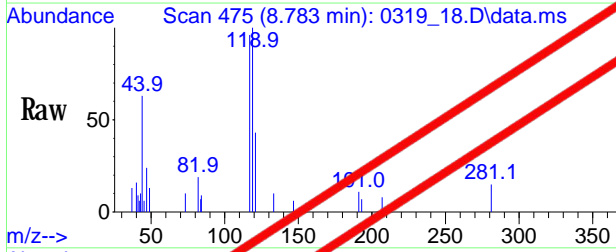
Tgt Ion	Ratio	Resp: Lower	Upper
45	100		
43	21.4	16.6	24.8
59	3.4	2.4	3.6





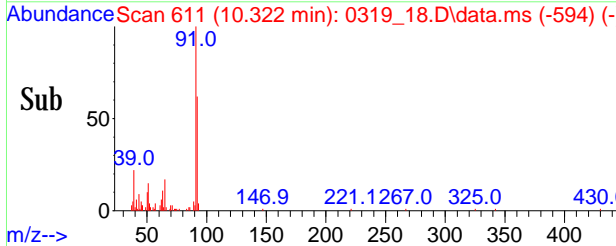
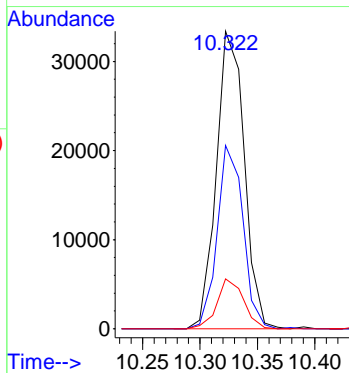
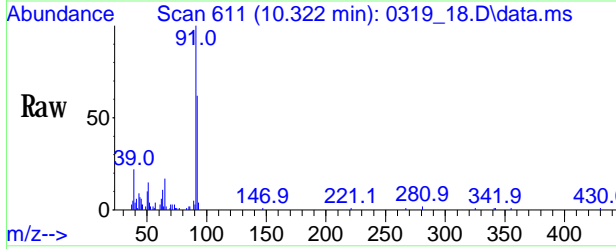
#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 8.783 min Scan# 475
 Delta R.T. 0.003 min
 Lab File: 0319_18.D
 Acq: 19 Mar 2022 4:56 pm

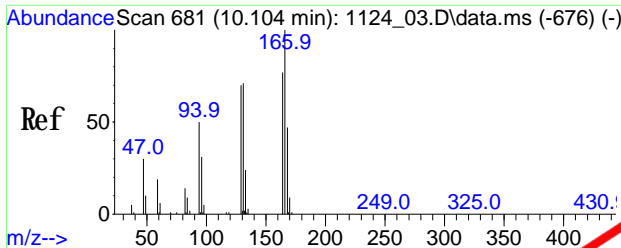
Tgt Ion	Ratio	Lower	Upper
117	100		
119	110.7	77.5	117.5
121	45.8	10.7	50.7



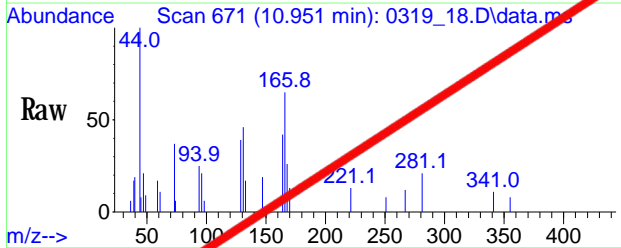
#49
 Toluene
 Conc: 8S 0.631 ppbv
 RT: 10.322 min Scan# 611
 Delta R.T. -0.009 min
 Lab File: 0319_18.D
 Acq: 19 Mar 2022 4:56 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.2	43.9	65.9
65	16.1	10.2	15.2#

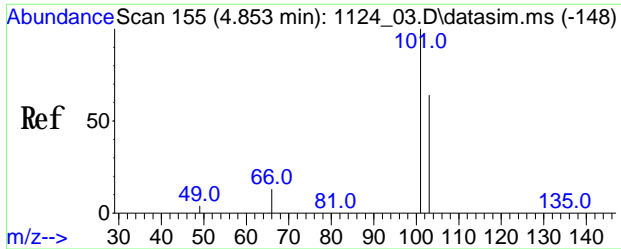
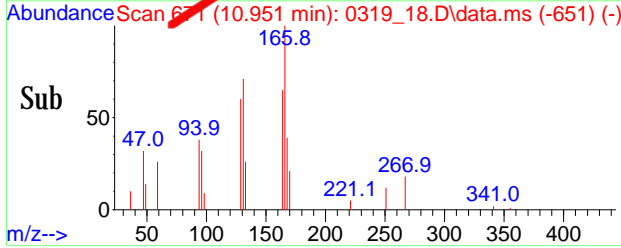
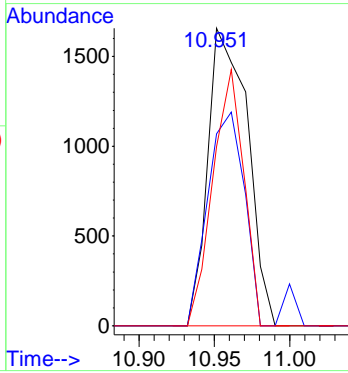




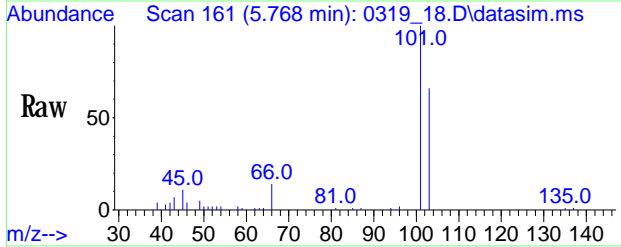
#53
 Tetrachloroethene
 Conc: 8S Below Cal
 RT: 10.951 min Scan# 671
 Delta R.T. -0.007 min
 Lab File: 0319_18.D
 Acq: 19 Mar 2022 4:56 pm



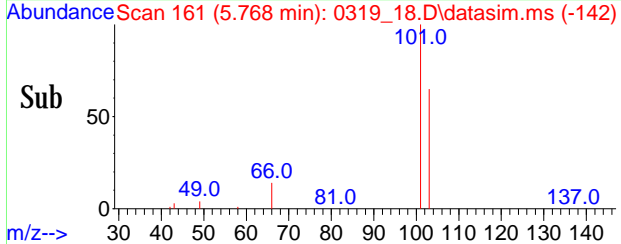
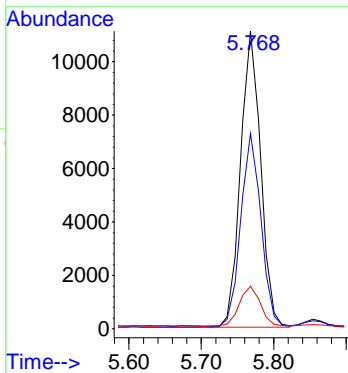
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	3032		
164	66.6	60.0	90.0	
129	67.3	59.0	88.4	

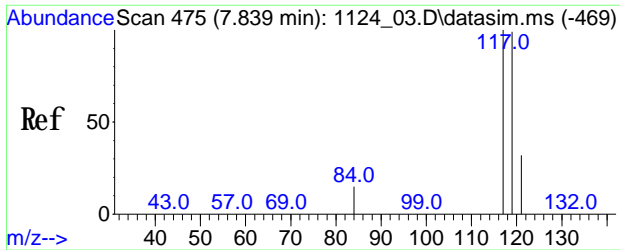


#85
 Trichlorofluoromethane (sim)
 Conc: 8S 0.260 ppbv
 RT: 5.768 min Scan# 161
 Delta R.T. 0.000 min
 Lab File: 0319_18.D
 Acq: 19 Mar 2022 4:56 pm



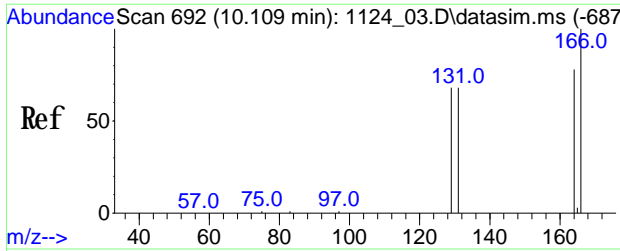
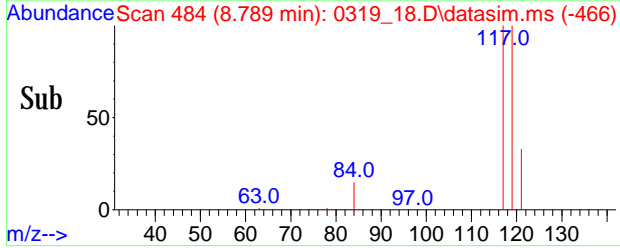
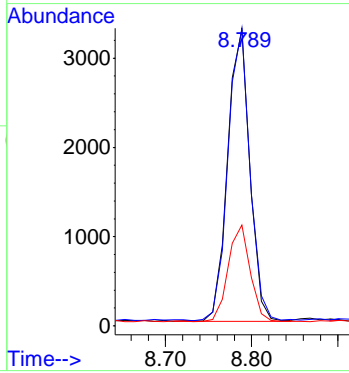
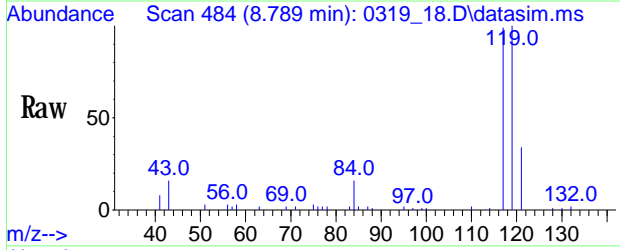
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	21398		
103	65.2	51.2	76.8	
66	14.2	13.5	13.5#	





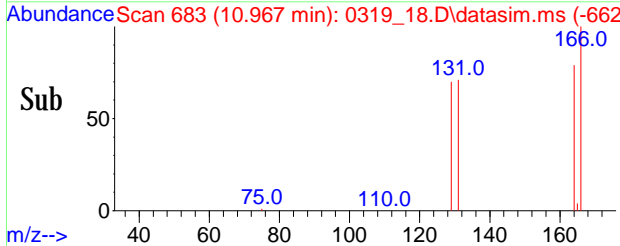
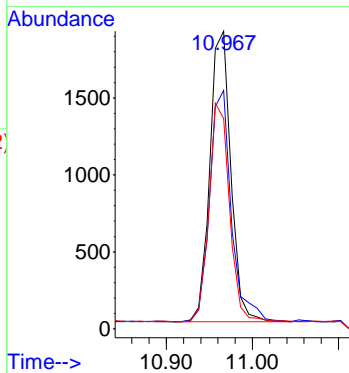
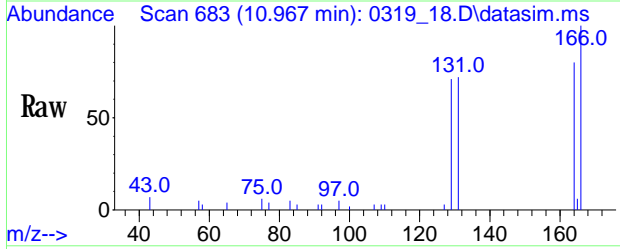
#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.081 ppbv
 RT: 8.789 min Scan# 484
 Delta R.T. 0.003 min
 Lab File: 0319_18.D
 Acq: 19 Mar 2022 4:56 pm

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5894		
119	99.1	76.2	114.4	
121	32.9	23.9	35.9	



#105
 Tetrachloroethene(sim)
 Conc: 8S 0.046 ppbv
 RT: 10.967 min Scan# 683
 Delta R.T. 0.003 min
 Lab File: 0319_18.D
 Acq: 19 Mar 2022 4:56 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	3186		
164	82.5	59.0	99.0	
129	73.4	54.3	94.3	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

VP-2

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90299
Canister:	16010	Lab File ID:	0319_31.D
Instrument:	CHEM20	Column:	RTX-1 60M
Date Received:	03/18/22		
Purge Volume	200	(cc)	03/19/22
Date Analyzed:	03/19/22		
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.487		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	60.1	ES	0.531	0.531	r
67-64-1	Acetone	9.53	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.261		0.178	0.178	r
67-63-0	Isopropylalcohol	9.38	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.725		0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.621		0.339	0.339	r
71-43-2	Benzene	0.329		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	2.24		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.979		0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

VP-2

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90299
Canister:	16010	Lab File ID:	0319_31.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	Date Received:
			03/18/22
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.101		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.075		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.236		0.230	0.230	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_31.D
 Acq On : 19 Mar 2022 11:56 pm
 Operator :
 Client ID : VP-2
 Lab ID : CK90299
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 20 09:07:50 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

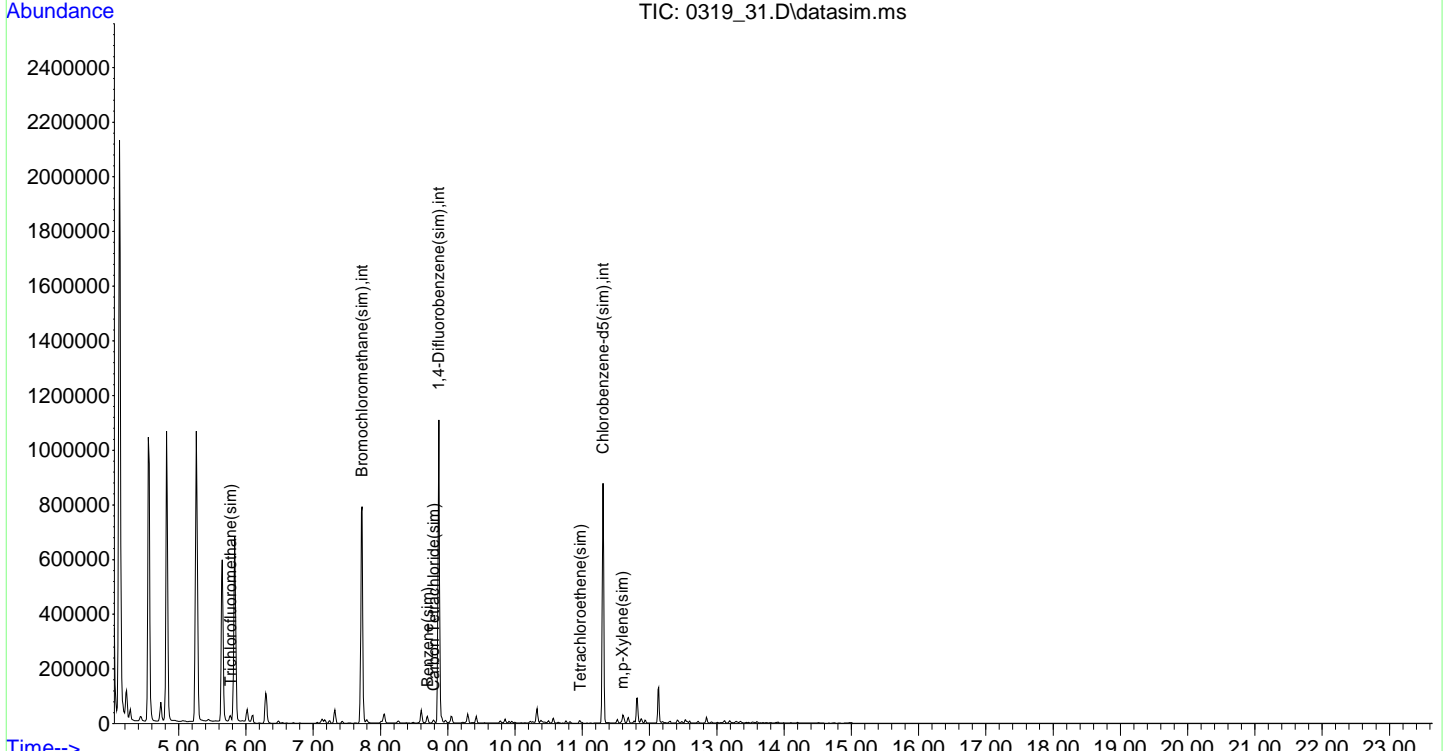
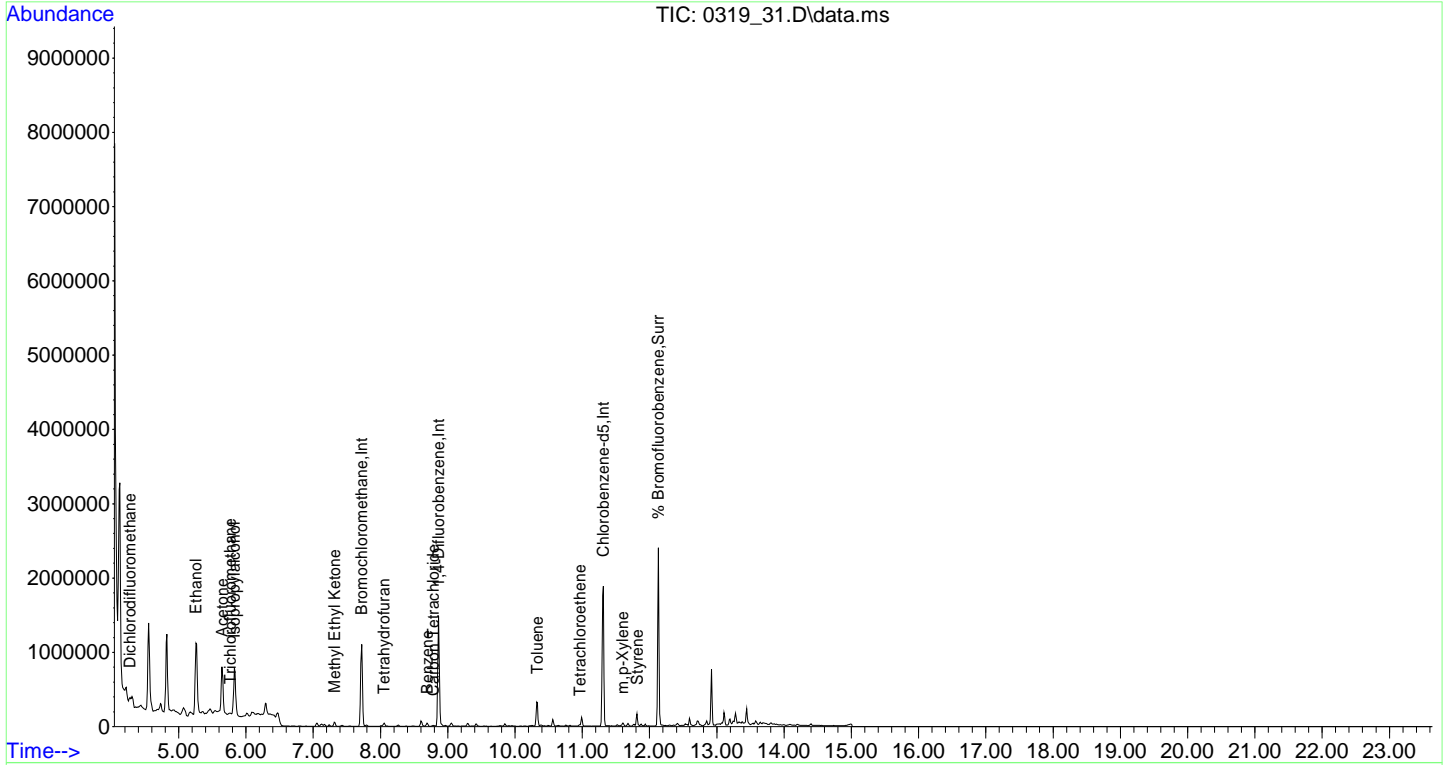
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.720	130	265426	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	862360	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	447047	10.000	ng	0.00
81) Bromochloromethane(sim)	7.725	130	288504	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	8.862	114	862360	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	447047	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	589501	10.266	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	102.70%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.275	85	34557	0.487	ppbv	95
11) Ethanol	5.256	45	1274088	60.112	ppbv	94
12) Acetone	5.644	43	704805	9.526	ppbv#	90
13) Trichlorofluoromethane	5.763	101	19789	0.261	ppbv#	94
14) Isopropylalcohol	5.827	45	853245	9.375	ppbv	99
26) Methyl Ethyl Ketone	7.314	43	69727	0.725	ppbv#	93
31) Tetrahydrofuran	8.053	42	31719	0.621	ppbv#	83
34) Benzene	8.693	78	24269	0.329	ppbv	95
35) Carbon Tetrachloride	8.783	117	6596	0.095	ppbv	98
49) Toluene	10.334	91	189897	2.243	ppbv#	97
53) Tetrachloroethene	10.961	166	3046	0.064	ppbv#	48
58) m p-Xylene	11.599	91	20371	0.239	ppbv	95
60) Styrene	11.814	104	59064	0.979	ppbv	93
85] Trichlorofluoromethane...	5.768	101	21559	0.269	ppbv#	99
88] Benzene(sim)	8.693	78	24269	0.328	ppbv	95
89] Carbon Tetrachloride(sim)	8.789	117	7143	0.101	ppbv	99
105] Tetrachloroethene(sim)	10.967	166	4836	0.075	ppbv	89
108] m p-Xylene(sim)	11.599	91	20372	0.236	ppbv	95

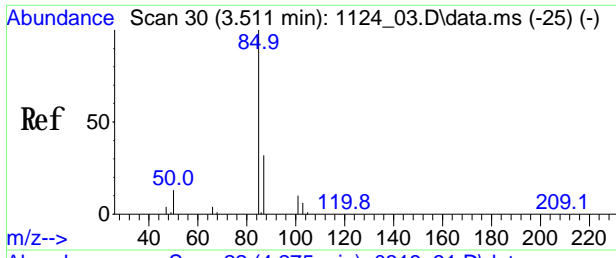
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0319_31.D
Acq On : 19 Mar 2022 11:56 pm
Operator :
Client ID : VP-2
Lab ID : CK90299
ALS Vial : 23 Sample Multiplier: 1

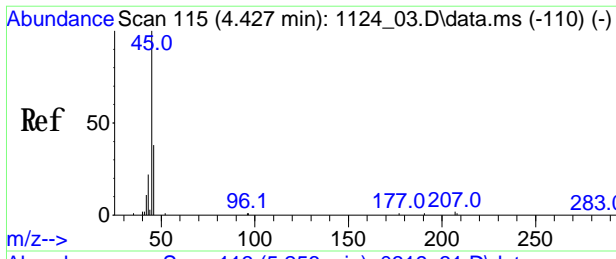
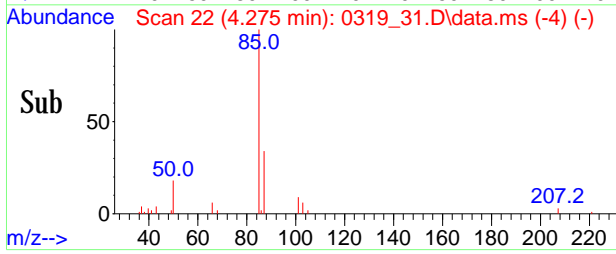
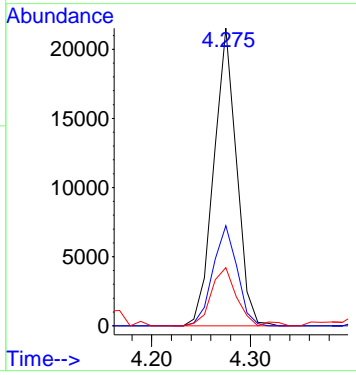
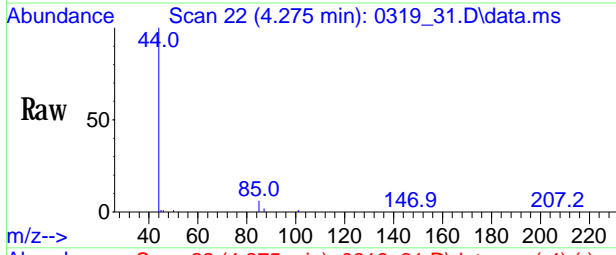
Quant Time: Mar 20 09:07:50 2022
Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 18 08:43:01 2022
Response via : Initial Calibration





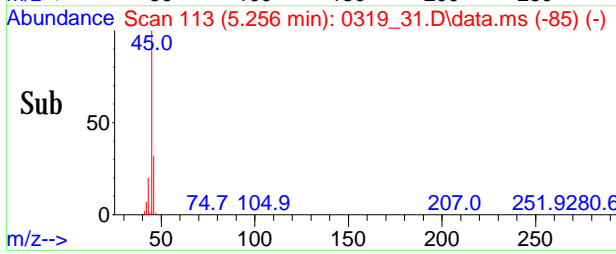
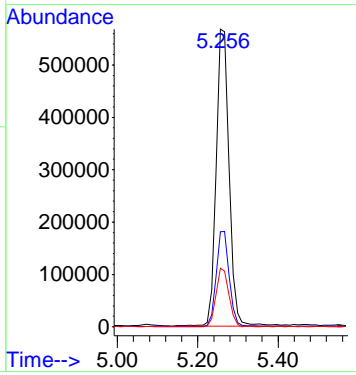
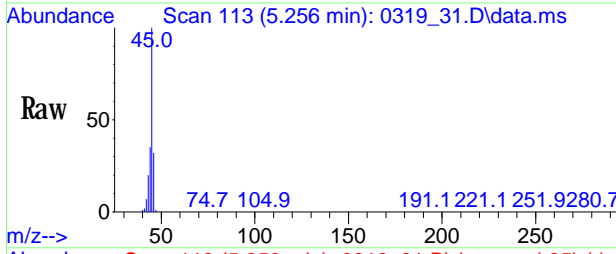
#3
 Dichlorodifluoromethane
 Conc: 8S 0.487 ppbv
 RT: 4.275 min Scan# 22
 Delta R.T. -0.011 min
 Lab File: 0319_31.D
 Acq: 19 Mar 2022 11:56 pm

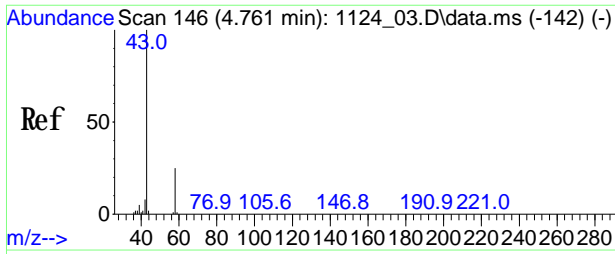
Tgt Ion	Ratio	Lower	Upper
85	100		
87	35.9	26.0	39.0
50	22.3	16.2	24.4



#11
 Ethanol
 Conc: 8S 60.112 ppbv
 RT: 5.256 min Scan# 113
 Delta R.T. 0.000 min
 Lab File: 0319_31.D
 Acq: 19 Mar 2022 11:56 pm

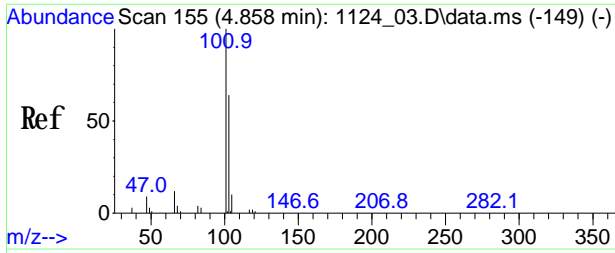
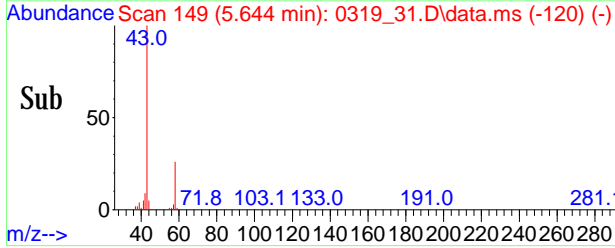
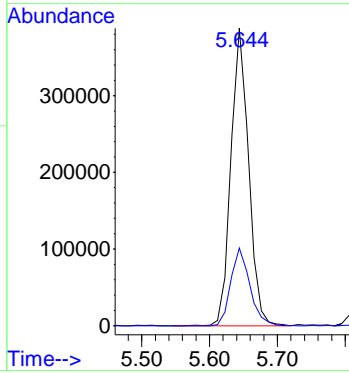
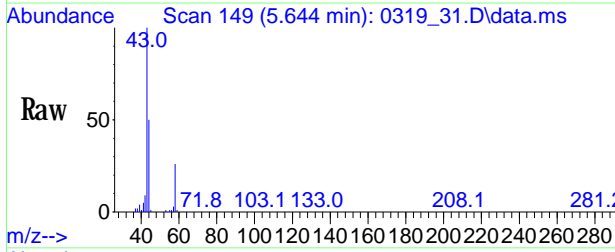
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.0	27.2	40.8
43	19.6	19.4	29.0





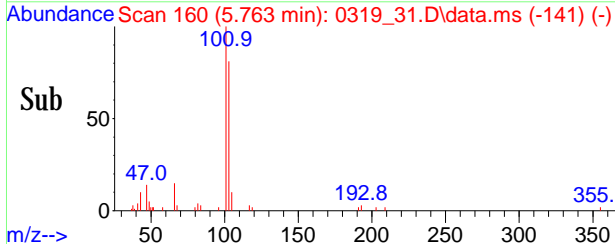
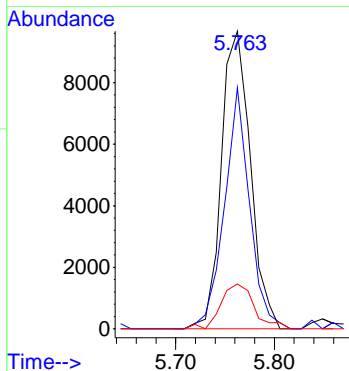
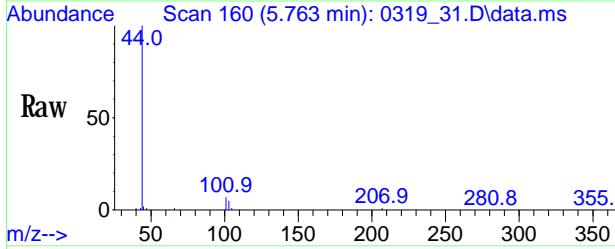
#12
 Acetone
 Conc: 8S 9.526 ppbv
 RT: 5.644 min Scan# 149
 Delta R.T. 0.011 min
 Lab File: 0319_31.D
 Acq: 19 Mar 2022 11:56 pm

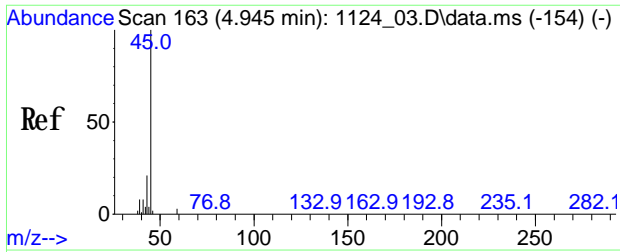
Tgt Ion: 43 Resp: 704805
 Ion Ratio Lower Upper
 43 100
 58 28.2 18.6 27.8#



#13
 Trichlorofluoromethane
 Conc: 8S 0.261 ppbv
 RT: 5.763 min Scan# 160
 Delta R.T. 0.000 min
 Lab File: 0319_31.D
 Acq: 19 Mar 2022 11:56 pm

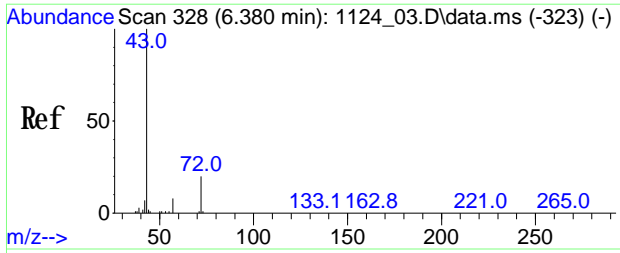
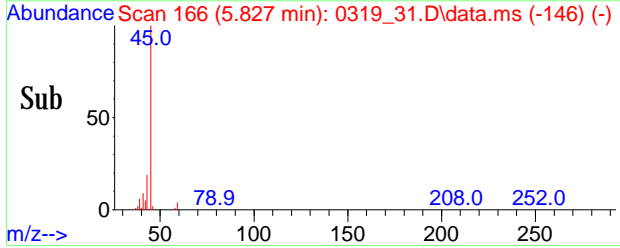
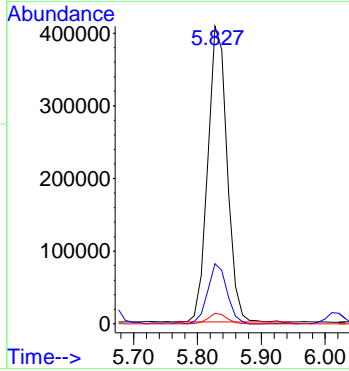
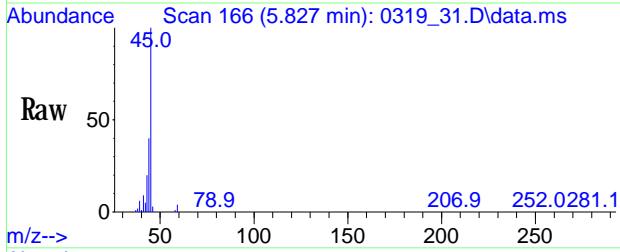
Tgt Ion: 101 Resp: 19789
 Ion Ratio Lower Upper
 101 100
 103 70.6 53.4 80.0
 66 17.4 11.2 16.8#





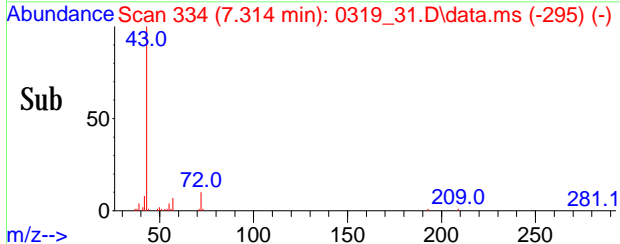
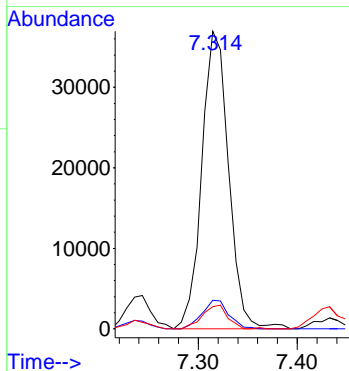
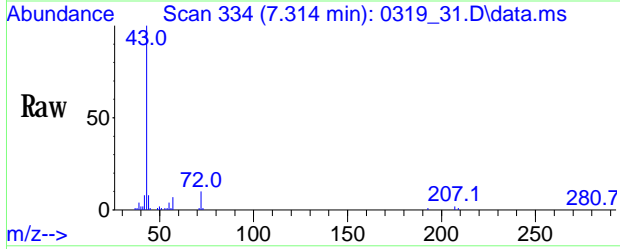
#14
 Isopropyl alcohol
 Conc: 8S 9.375 ppbv
 RT: 5.827 min Scan# 166
 Delta R.T. 0.011 min
 Lab File: 0319_31.D
 Acq: 19 Mar 2022 11:56 pm

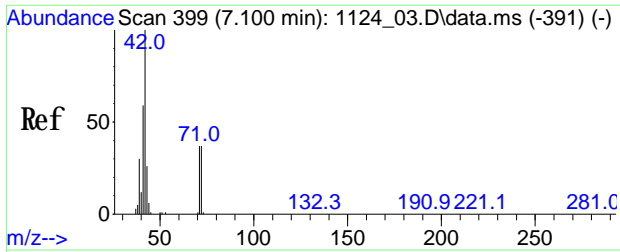
Tgt Ion	Ratio	Lower	Upper
45	100		
43	20.5	16.6	24.8
59	3.5	2.4	3.6



#26
 Methyl Ethyl Ketone
 Conc: 8S 0.725 ppbv
 RT: 7.314 min Scan# 334
 Delta R.T. 0.008 min
 Lab File: 0319_31.D
 Acq: 19 Mar 2022 11:56 pm

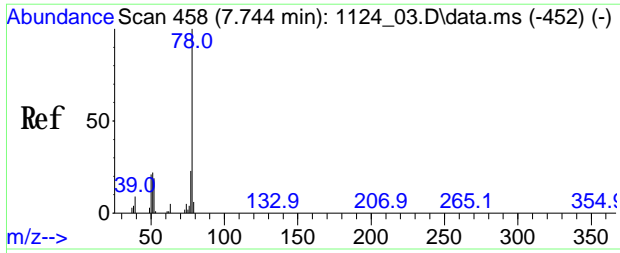
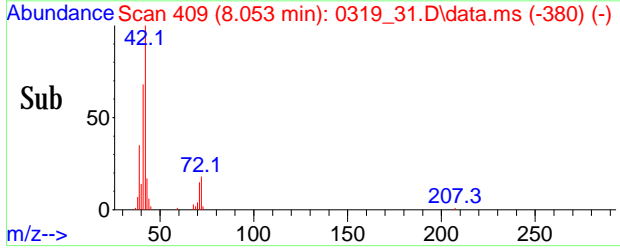
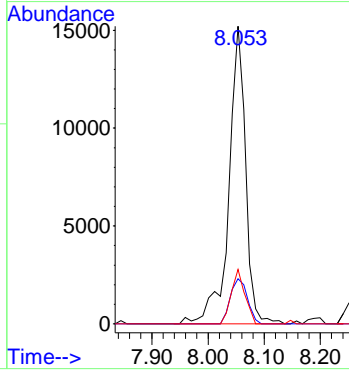
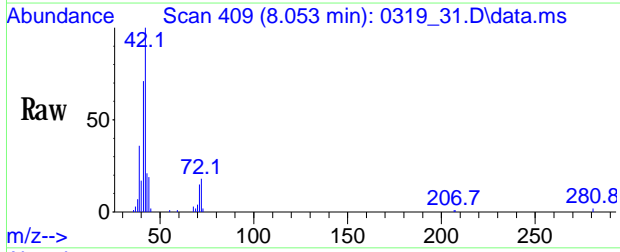
Tgt Ion	Ratio	Lower	Upper
43	100		
72	9.6	11.1	16.7#
57	7.5	6.0	9.0





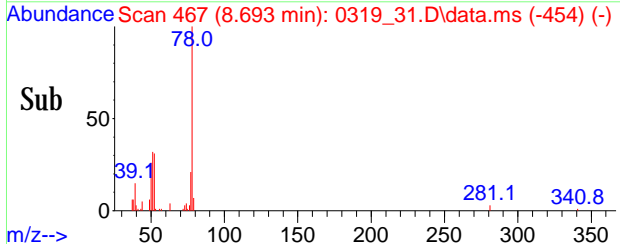
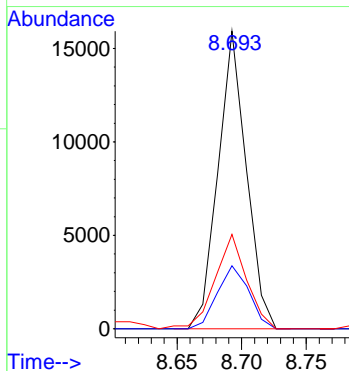
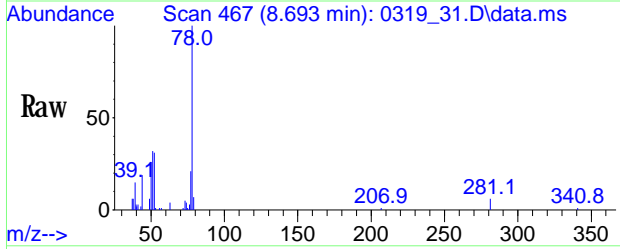
#31
 Tetrahydrofuran
 Conc: 8S 0.621 ppbv
 RT: 8.053 min Scan# 409
 Delta R.T. 0.003 min
 Lab File: 0319_31.D
 Acq: 19 Mar 2022 11:56 pm

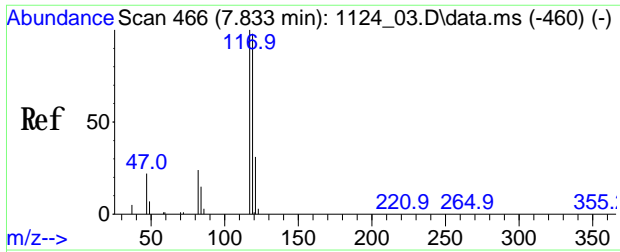
Tgt Ion	Ratio	Lower	Upper
42	100		
71	15.3	19.4	29.2#
72	14.9	18.0	27.0#



#34
 Benzene
 Conc: 8S 0.329 ppbv
 RT: 8.693 min Scan# 467
 Delta R.T. 0.003 min
 Lab File: 0319_31.D
 Acq: 19 Mar 2022 11:56 pm

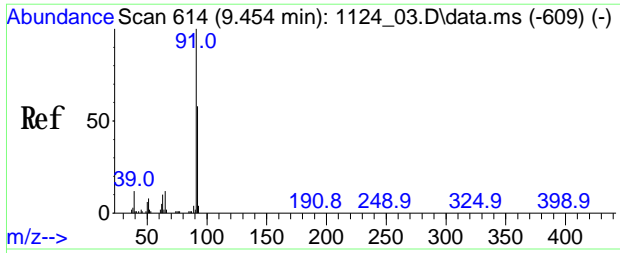
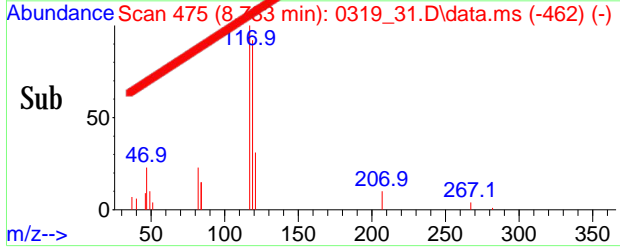
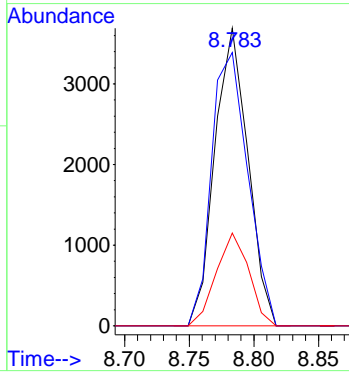
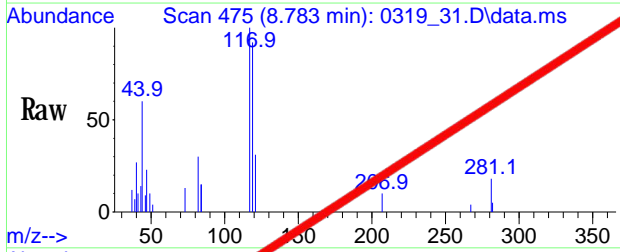
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.2	28.8
51	35.6	24.7	37.1





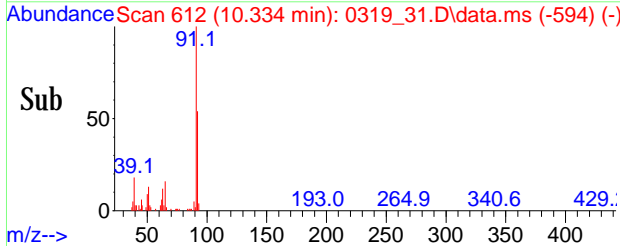
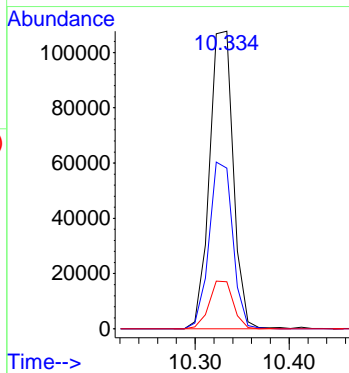
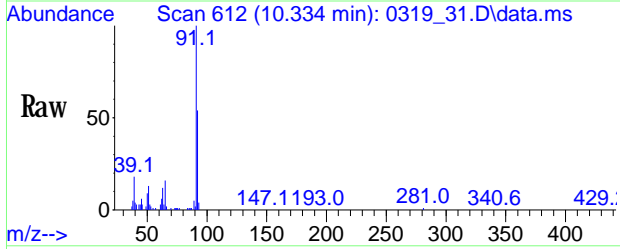
#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 8.783 min Scan# 475
 Delta R.T. 0.003 min
 Lab File: 0319_31.D
 Acq: 19 Mar 2022 11:56 pm

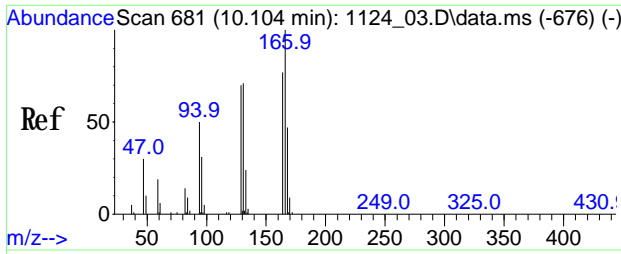
Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.5	77.5	117.5
121	30.8	10.7	50.7



#49
 Toluene
 Conc: 8S 2.243 ppbv
 RT: 10.334 min Scan# 612
 Delta R.T. 0.003 min
 Lab File: 0319_31.D
 Acq: 19 Mar 2022 11:56 pm

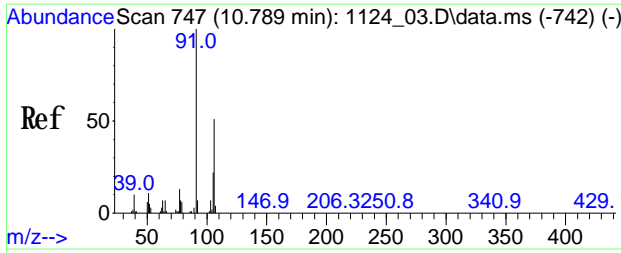
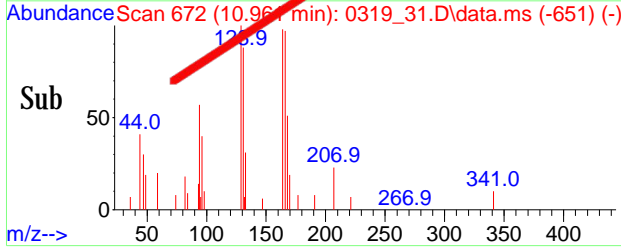
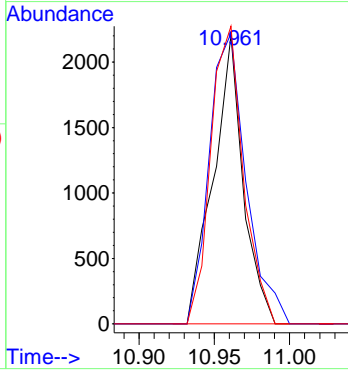
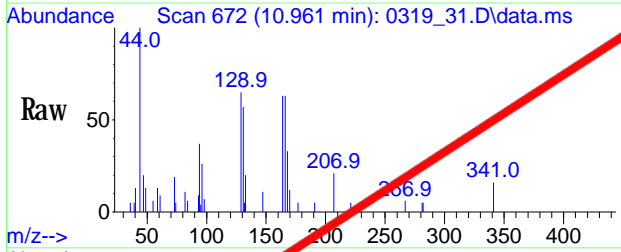
Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.7	43.9	65.9
65	16.3	10.2	15.2#





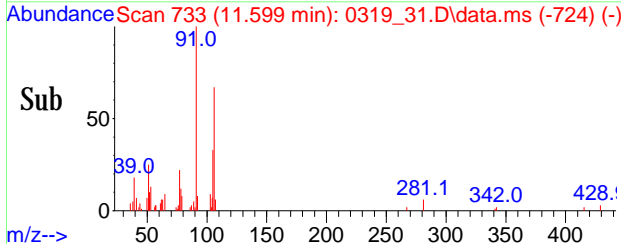
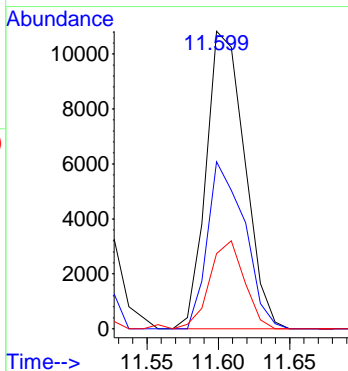
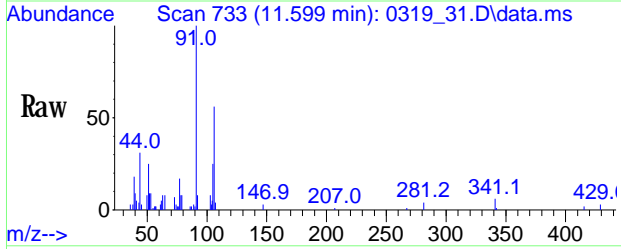
#53
 Tetrachloroethene
 Conc: 8S Below Cal
 RT: 10.961 min Scan# 672
 Delta R.T. 0.003 min
 Lab File: 0319_31.D
 Acq: 19 Mar 2022 11:56 pm

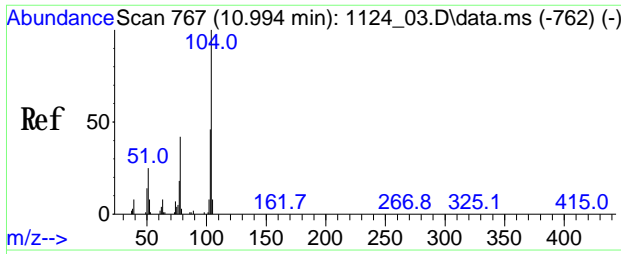
Tgt Ion	Ratio	Lower	Upper
166	100		
164	124.0	60.0	90.0#
129	112.5	59.0	88.4#



#58
 m p-Xylene
 Conc: 8S 0.239 ppbv
 RT: 11.599 min Scan# 733
 Delta R.T. -0.007 min
 Lab File: 0319_31.D
 Acq: 19 Mar 2022 11:56 pm

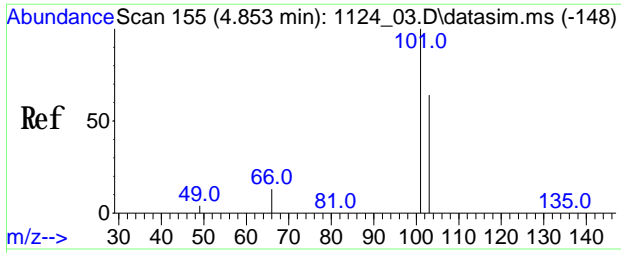
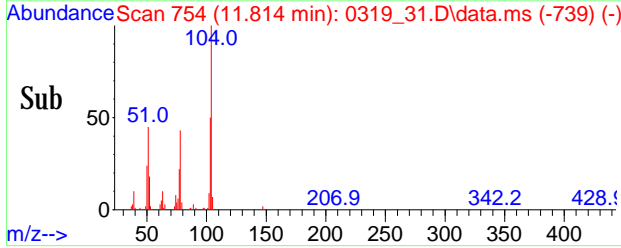
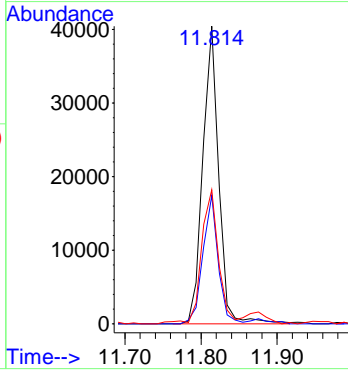
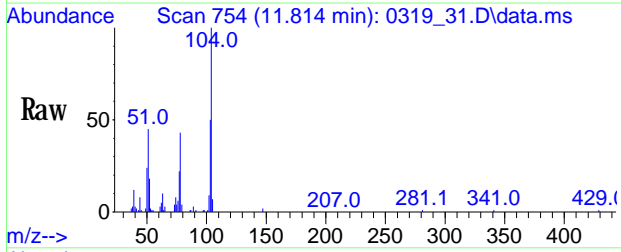
Tgt Ion	Ratio	Lower	Upper
91	100		
106	53.8	39.8	59.8
105	27.1	19.9	29.9





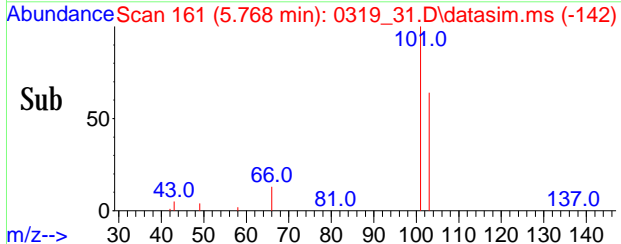
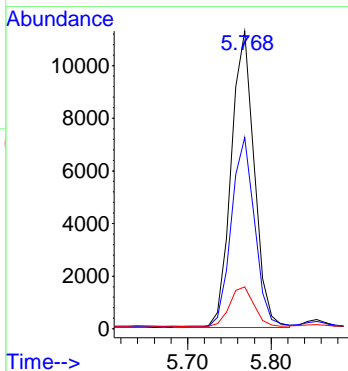
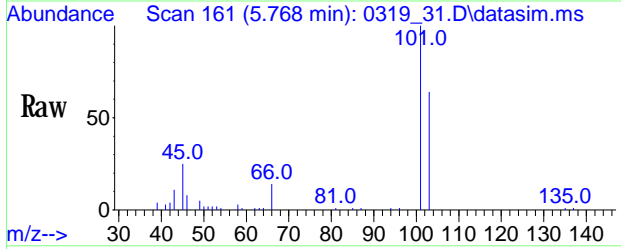
#60
 Styrene
 Conc: 8S 0.979 ppbv
 RT: 11.814 min Scan# 754
 Delta R.T. 0.003 min
 Lab File: 0319_31.D
 Acq: 19 Mar 2022 11:56 pm

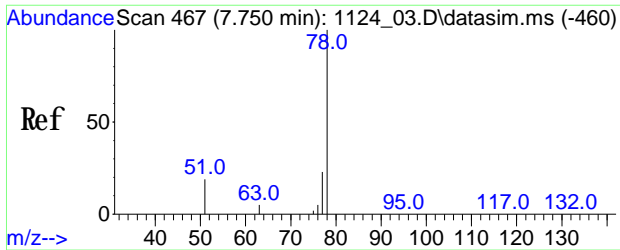
Tgt Ion	Ratio	Resp	Lower	Upper
104	100	59064		
78	41.2	34.2	51.4	
51	47.8	32.8	49.2	



#85
 Trichlorofluoromethane (sim)
 Conc: 8S 0.269 ppbv
 RT: 5.768 min Scan# 161
 Delta R.T. 0.000 min
 Lab File: 0319_31.D
 Acq: 19 Mar 2022 11:56 pm

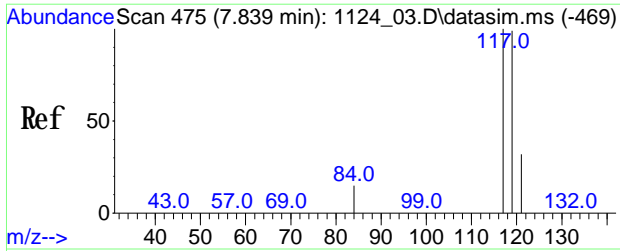
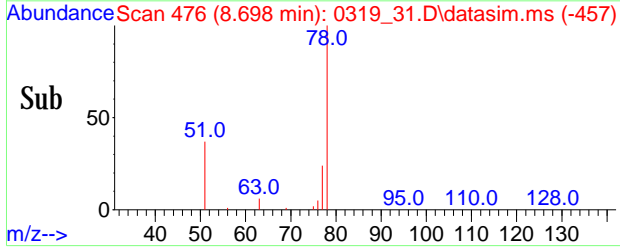
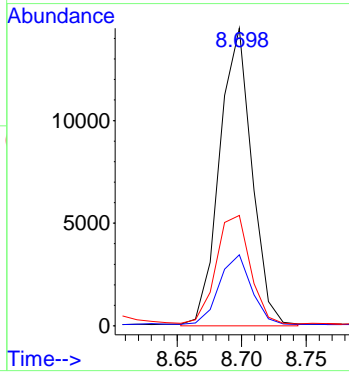
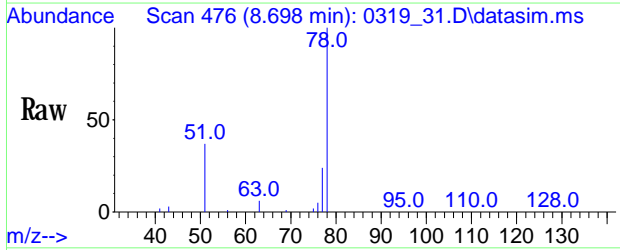
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	21559		
103	64.3	51.2	76.8	
66	14.1	13.5	13.5#	





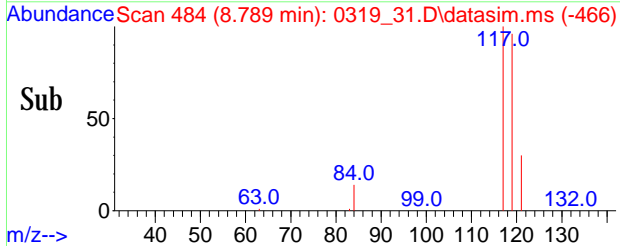
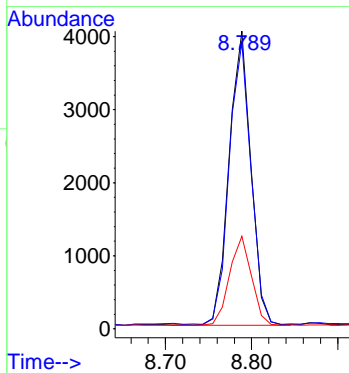
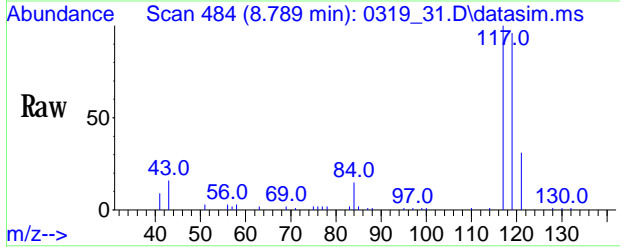
#88
Benzene(sim)
Conc: 8S 0.328 ppbv
RT: 8.693 min Scan# 476
Delta R.T. 0.003 min
Lab File: 0319_31.D
Acq: 19 Mar 2022 11:56 pm

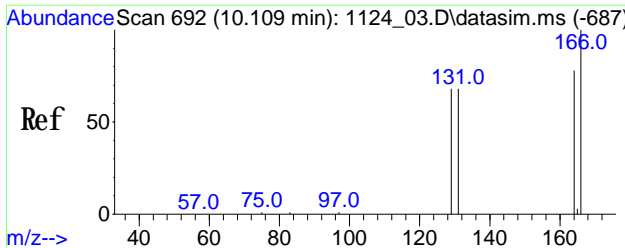
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.2	28.8
51	35.6	24.7	37.1



#89
Carbon Tetrachloride(sim)
Conc: 8S 0.101 ppbv
RT: 8.789 min Scan# 484
Delta R.T. 0.003 min
Lab File: 0319_31.D
Acq: 19 Mar 2022 11:56 pm

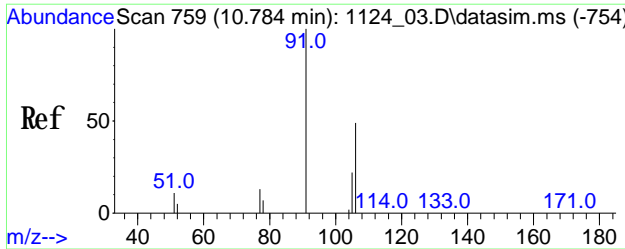
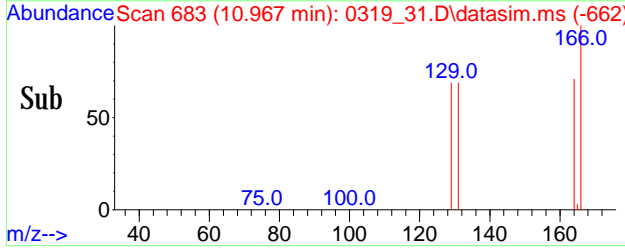
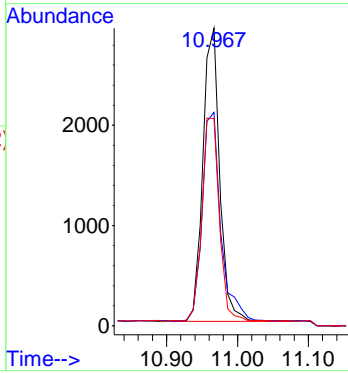
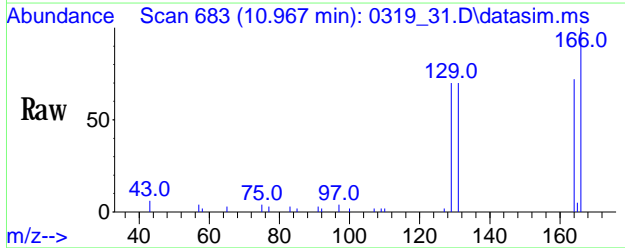
Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.1	76.2	114.4
121	30.6	23.9	35.9





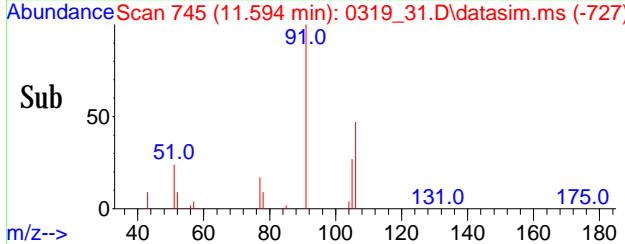
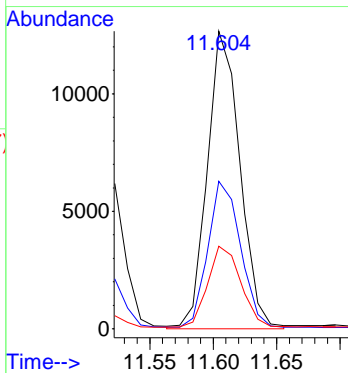
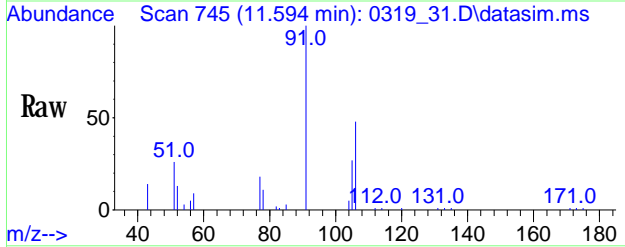
#105
 Tetrachloroethene(sim)
 Conc: 8S 0.075 ppbv
 RT: 10.967 min Scan# 683
 Delta R.T. 0.003 min
 Lab File: 0319_31.D
 Acq: 19 Mar 2022 11:56 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	4836		
164	89.3	59.0	99.0	
129	82.6	54.3	94.3	



#108
 m p-Xylene(sim)
 Conc: 8S 0.236 ppbv
 RT: 11.599 min Scan# 745
 Delta R.T. -0.007 min
 Lab File: 0319_31.D
 Acq: 19 Mar 2022 11:56 pm

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	20372		
106	53.8	44.8	54.8	
105	27.1	19.9	29.9	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-4

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90300
Canister:	19635	Lab File ID:	0319_13.D
Instrument:	CHEM20	Column:	RTX-1 60M
		Date Received:	03/18/22
Purge Volume	200 (cc)	Date Analyzed:	03/19/22
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	1.06		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.529		0.202	0.202	r
74-87-3	Chloromethane	0.574		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	12.4	S	0.531	0.531	r
67-64-1	Acetone	3.66	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.262		0.178	0.178	r
67-63-0	Isopropylalcohol	1.64	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.785		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.351		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-4

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90300
Canister:	19635	Lab File ID:	0319_13.D
Instrument:	CHEM20	Column:	RTX-1 60M
Date Received:	03/18/22		
Purge Volume	200	(cc)	03/19/22
Date Analyzed:	03/19/22		
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.084		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.075		0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_13.D
 Acq On : 19 Mar 2022 2:01 pm
 Operator :
 Client ID : IA-4
 Lab ID : CK90300
 ALS Vial : 5 Sample Multiplier: 1

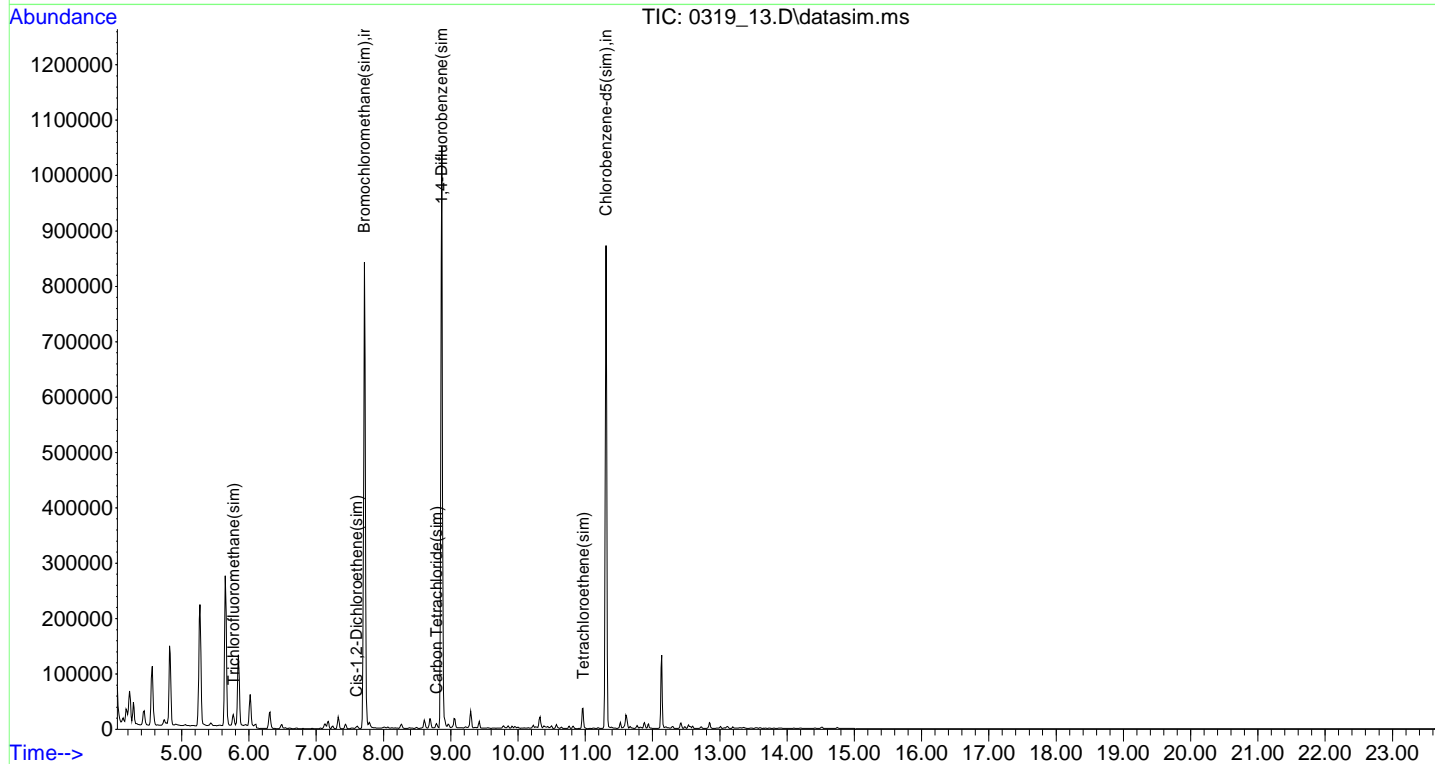
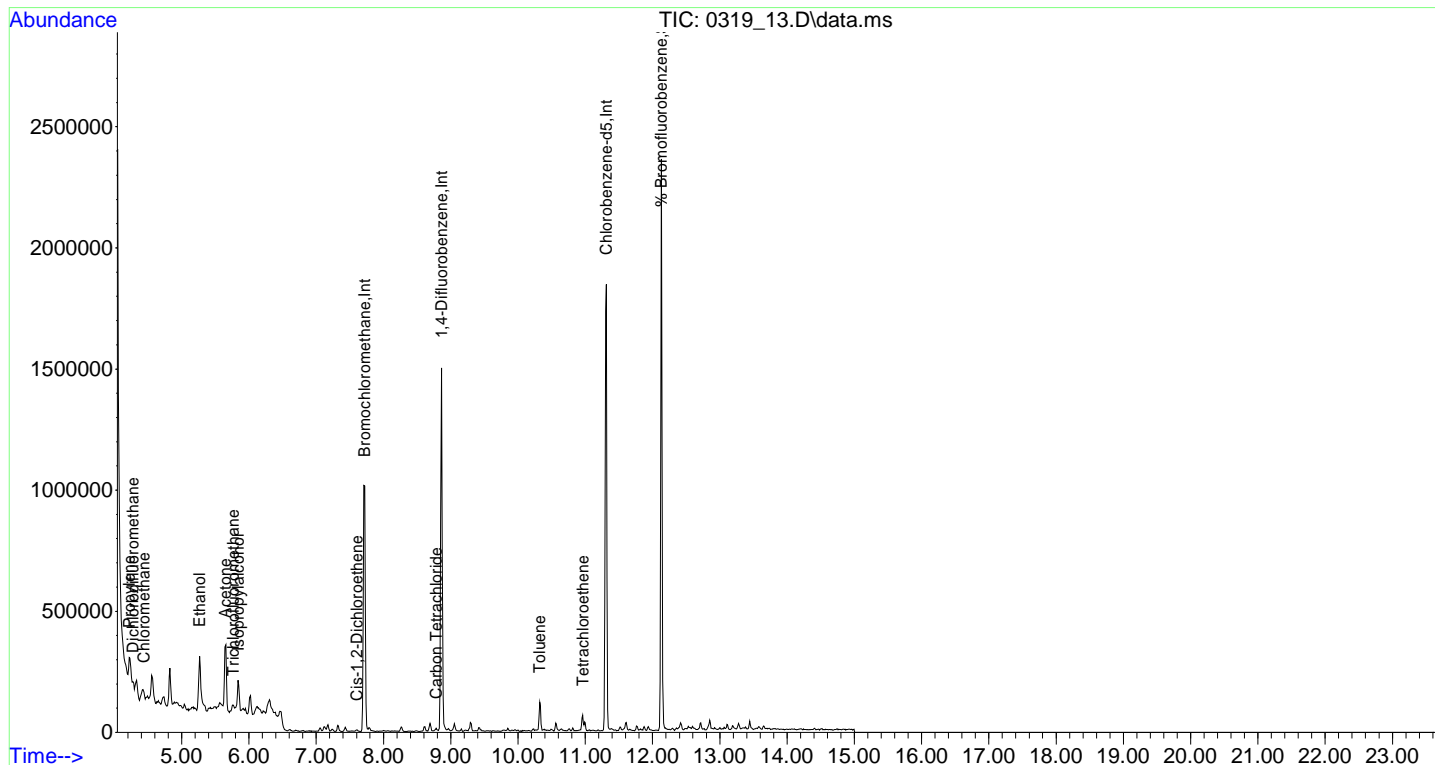
Quant Time: Mar 20 09:01:05 2022
 Quant Title :
 QLast Update : Fri Mar 18 08:42:58 2022
 Response via : Initial Calibration

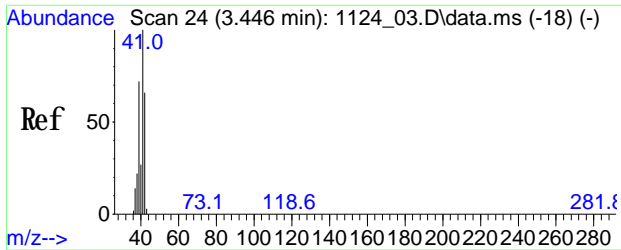
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.720	130	271199	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	872261	10.000	ng	0.00
54) Chlorobenzene-d5	11.311	82	434409	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	290339	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	872261	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.311	82	434409	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.131	95	587645	10.532	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	105.30%	
Target Compounds						
						Qvalue
2) Propylene	4.221	41	37473	1.056	ppbv#	78
3) Dichlorodifluoromethane	4.275	85	38343	0.528	ppbv	99
4) Chloromethane	4.437	50	27084	0.574	ppbv	97
11) Ethanol	5.267	45	268027	12.376	ppbv	95
12) Acetone	5.644	43	276846	3.662	ppbv	96
13) Trichlorofluoromethane	5.762	101	20309	0.262	ppbv#	95
14) Isopropylalcohol	5.838	45	152351	1.638	ppbv	99
27) Cis-1,2-Dichloroethene	7.605	61	3636	0.068	ppbv	96
35) Carbon Tetrachloride	8.783	117	5839	0.082	ppbv	97
49) Toluene	10.322	91	67269	0.785	ppbv#	95
53) Tetrachloroethene	10.961	166	16800	0.351	ppbv	95
85] Trichlorofluoromethane...	5.768	101	21129	0.262	ppbv#	99
89] Carbon Tetrachloride(sim)	8.788	117	5984	0.084	ppbv	99
94] Cis-1,2-Dichloroethene...	7.605	61	3636	0.075	ppbv	96
105] Tetrachloroethene(sim)	10.967	166	18796	0.286	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0319_13.D
Acq On : 19 Mar 2022 2:01 pm
Operator :
Client ID : IA-4
Lab ID : CK90300
ALS Vial : 5 Sample Multiplier: 1

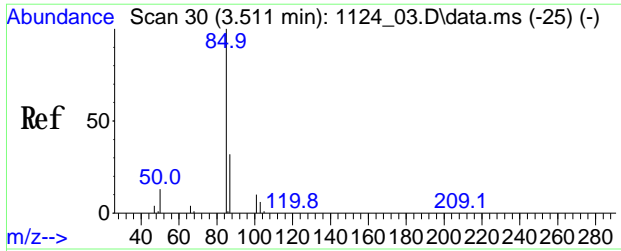
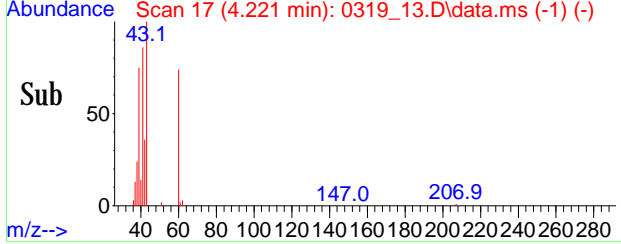
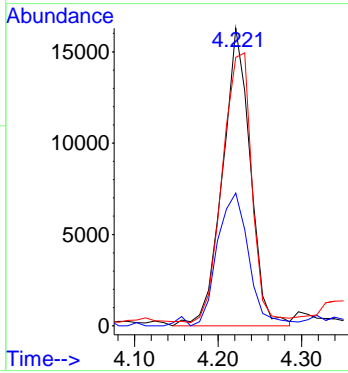
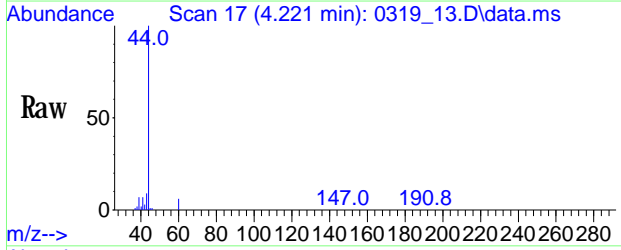
Quant Time: Mar 20 09:01:05 2022
Quant Title :
Last Update : Fri Mar 18 08:42:58 2022
Response via : Initial Calibration





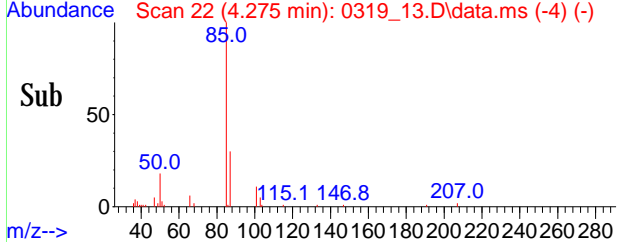
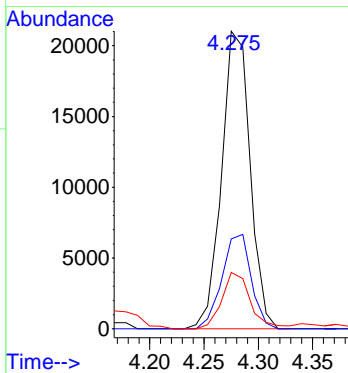
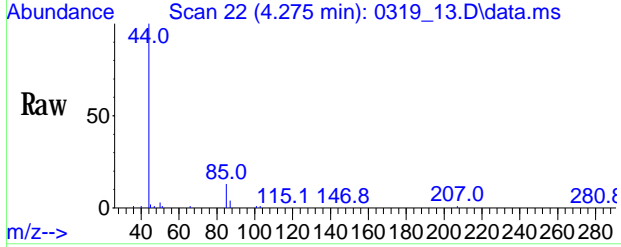
#2
 Propylene
 Conc: 8S 1.056 ppbv
 RT: 4.221 min Scan# 17
 Delta R.T. 0.011 min
 Lab File: 0319_13.D
 Acq: 19 Mar 2022 2:01 pm

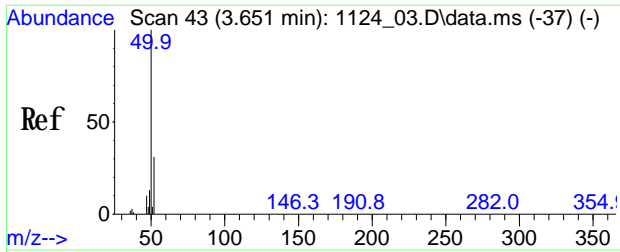
Tgt Ion	Ratio	Resp: Lower	Upper
41	100		
42	51.9	51.0	76.6
39	94.9	57.2	85.8#



#3
 Dichlorodifluoromethane
 Conc: 8S 0.528 ppbv
 RT: 4.275 min Scan# 22
 Delta R.T. -0.011 min
 Lab File: 0319_13.D
 Acq: 19 Mar 2022 2:01 pm

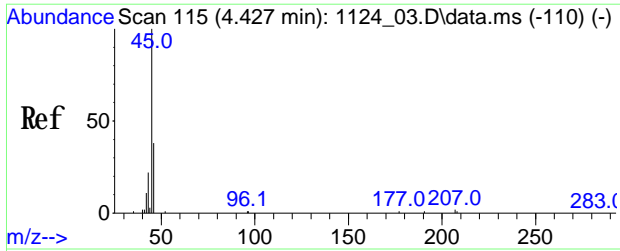
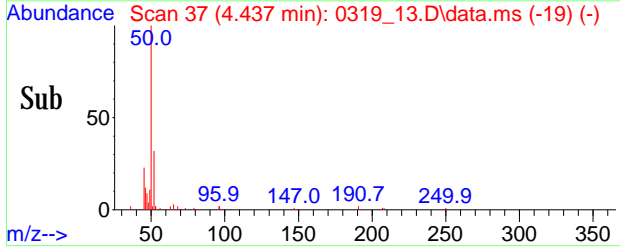
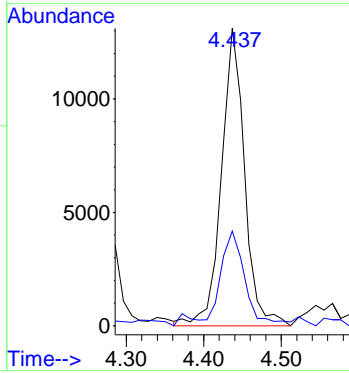
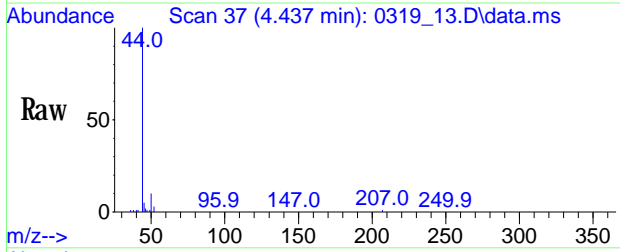
Tgt Ion	Ratio	Resp: Lower	Upper
85	100		
87	32.6	26.0	39.0
50	19.2	16.2	24.4





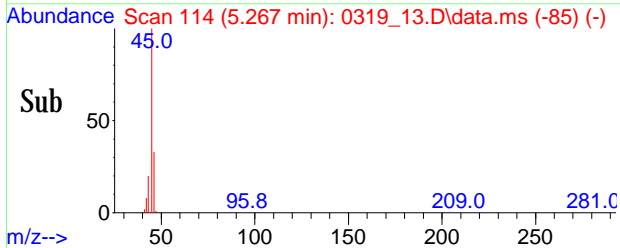
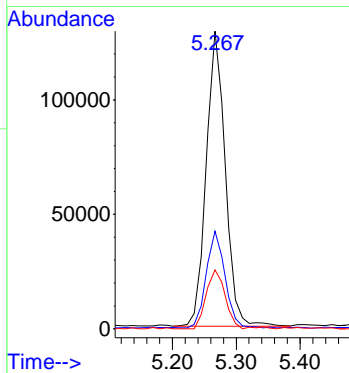
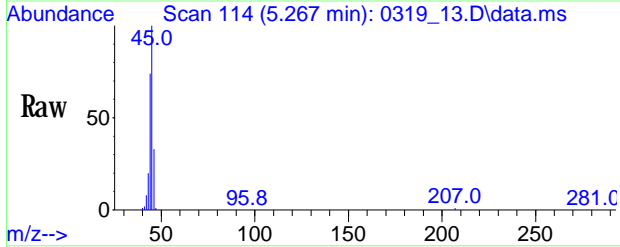
#4
Chloromethane
 Conc: 8S 0.574 ppbv
 RT: 4.437 min Scan# 37
 Delta R.T. -0.011 min
 Lab File: 0319_13.D
 Acq: 19 Mar 2022 2:01 pm

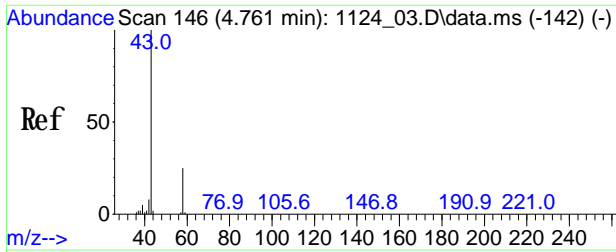
Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.6	11.9	51.9



#11
Ethanol
 Conc: 8S 12.376 ppbv
 RT: 5.267 min Scan# 114
 Delta R.T. 0.011 min
 Lab File: 0319_13.D
 Acq: 19 Mar 2022 2:01 pm

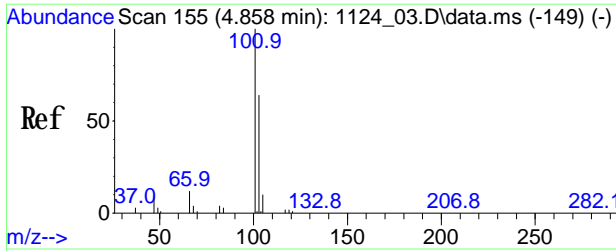
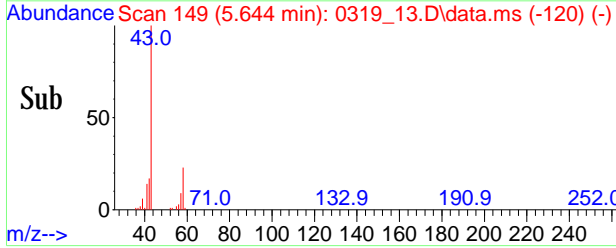
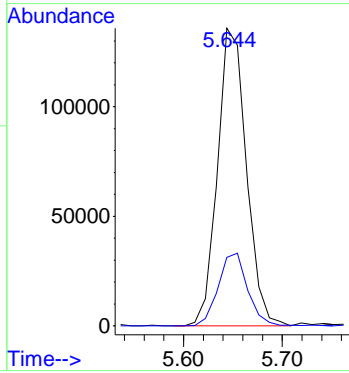
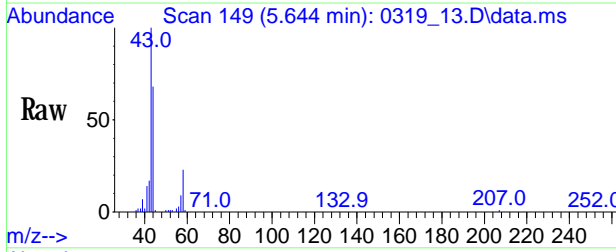
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.4	27.2	40.8
43	19.9	19.4	29.0





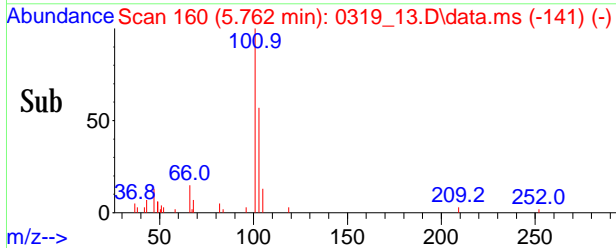
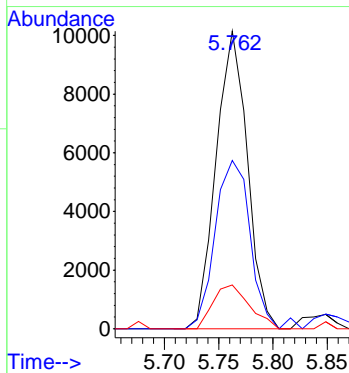
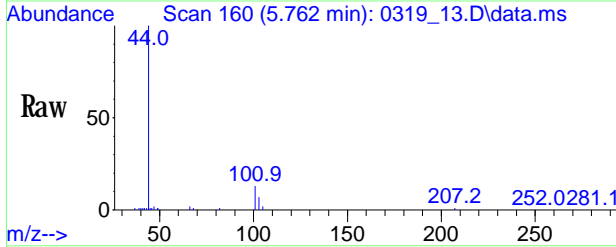
#12
 Acetone
 Conc: 8S 3.662 ppbv
 RT: 5.644 min Scan# 149
 Delta R.T. 0.011 min
 Lab File: 0319_13.D
 Acq: 19 Mar 2022 2:01 pm

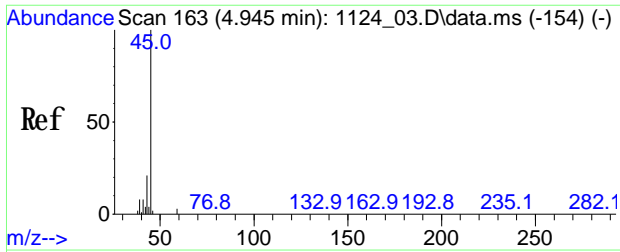
Tgt Ion: 43 Resp: 276846
 Ion Ratio Lower Upper
 43 100
 58 25.0 18.6 27.8



#13
 Trichlorofluoromethane
 Conc: 8S 0.262 ppbv
 RT: 5.762 min Scan# 160
 Delta R.T. -0.000 min
 Lab File: 0319_13.D
 Acq: 19 Mar 2022 2:01 pm

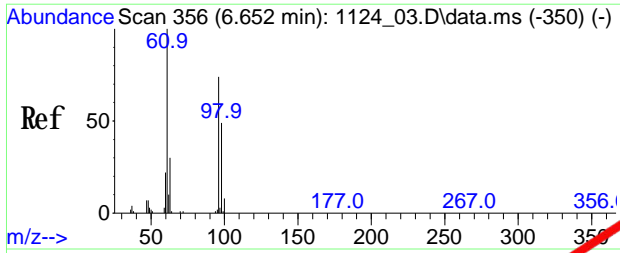
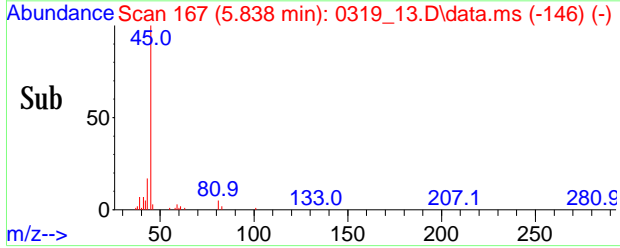
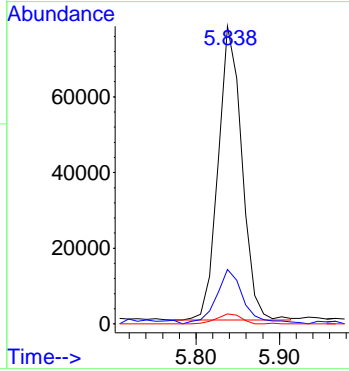
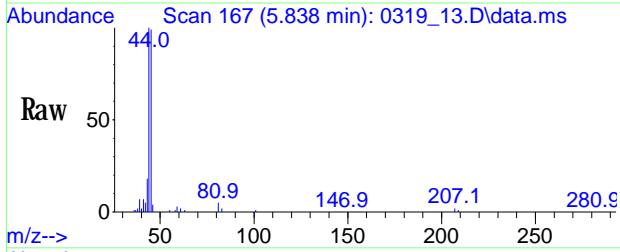
Tgt Ion: 101 Resp: 20309
 Ion Ratio Lower Upper
 101 100
 103 62.8 53.4 80.0
 66 17.2 11.2 16.8#





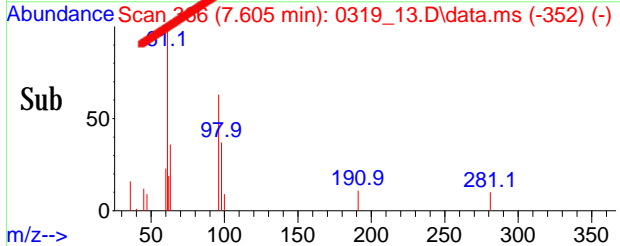
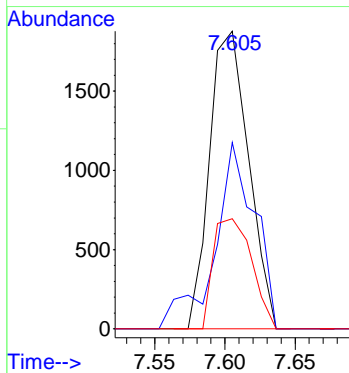
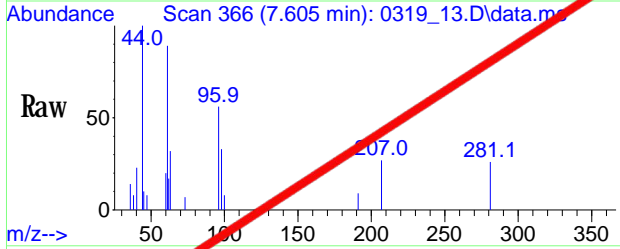
#14
 Isopropyl alcohol
 Conc: 8S 1.638 ppbv
 RT: 5.838 min Scan# 167
 Delta R.T. 0.021 min
 Lab File: 0319_13.D
 Acq: 19 Mar 2022 2:01 pm

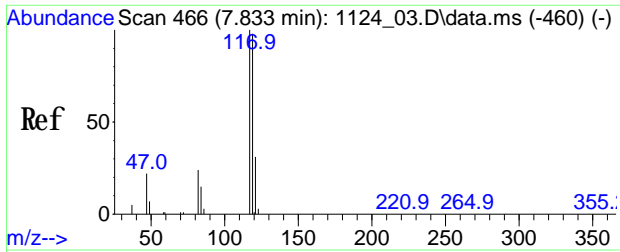
Tgt Ion	Ratio	Lower	Upper
45	100		
43	21.4	16.6	24.8
59	3.5	2.4	3.6



#27
 Cis-1,2-Dichloroethene
 Conc: 8S Below Cal
 RT: 7.605 min Scan# 366
 Delta R.T. 0.002 min
 Lab File: 0319_13.D
 Acq: 19 Mar 2022 2:01 pm

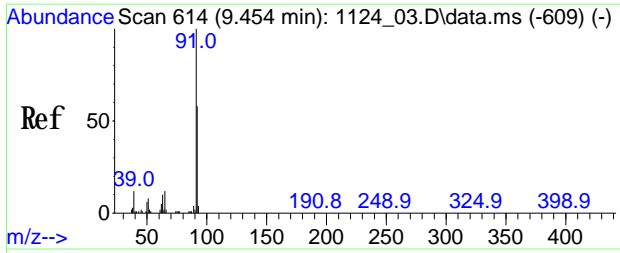
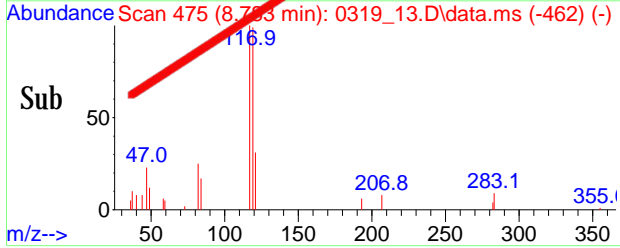
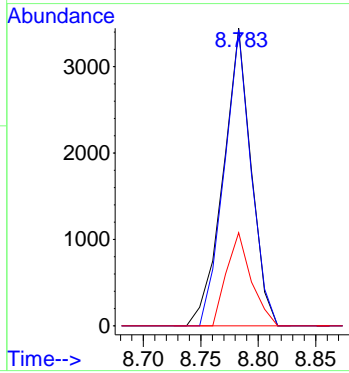
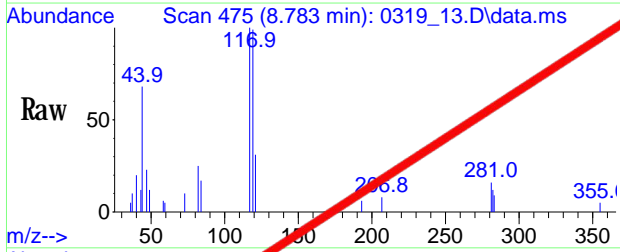
Tgt Ion	Ratio	Lower	Upper
61	100		
96	64.4	48.6	72.8
98	36.5	30.4	45.6





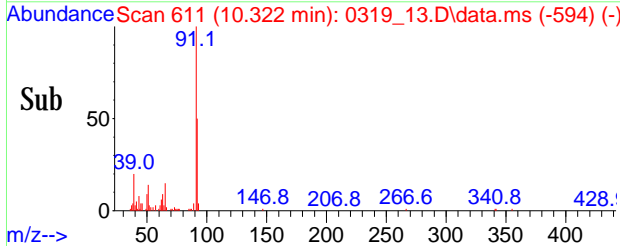
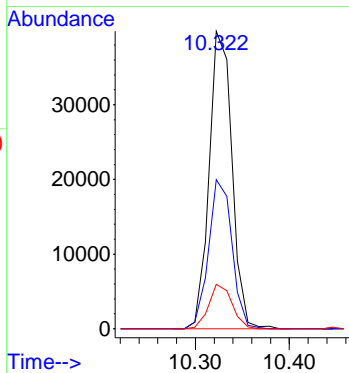
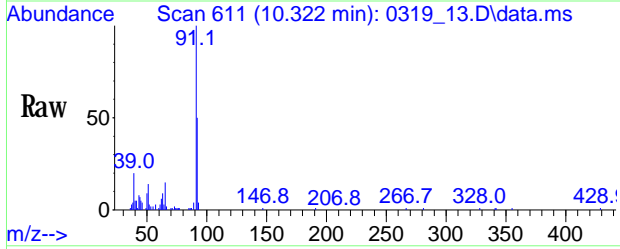
#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 8.783 min Scan# 475
 Delta R.T. 0.002 min
 Lab File: 0319_13.D
 Acq: 19 Mar 2022 2:01 pm

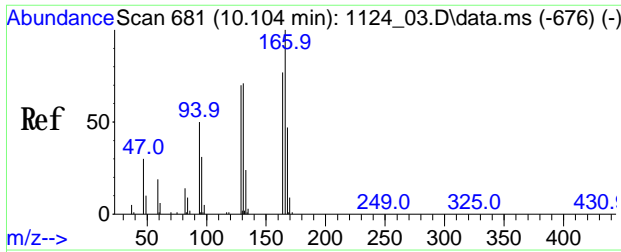
Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.5	77.5	117.5
121	27.7	10.7	50.7



#49
 Toluene
 Conc: 8S 0.785 ppbv
 RT: 10.322 min Scan# 611
 Delta R.T. -0.009 min
 Lab File: 0319_13.D
 Acq: 19 Mar 2022 2:01 pm

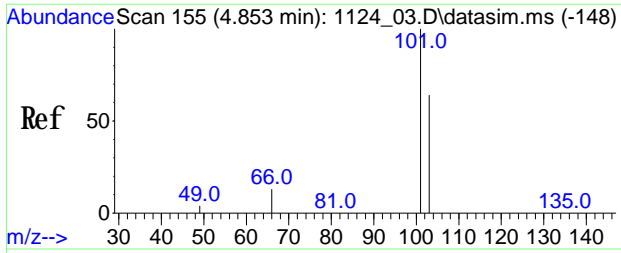
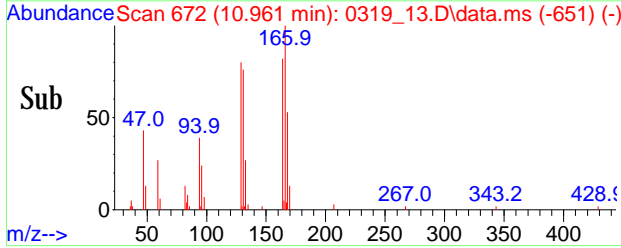
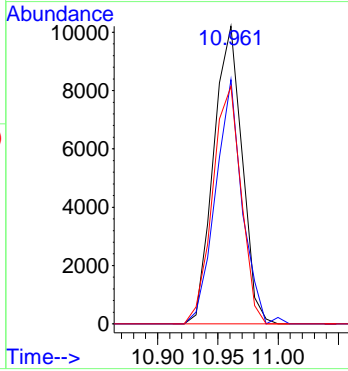
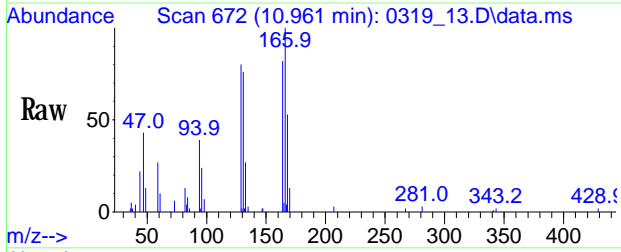
Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.5	43.9	65.9
65	15.3	10.2	15.2#





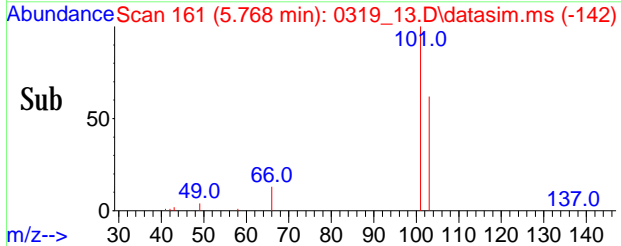
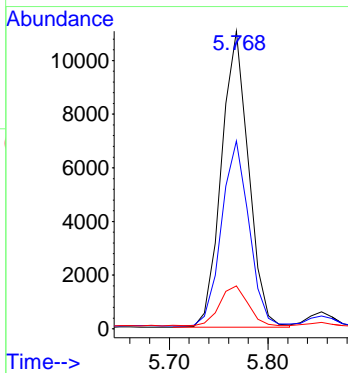
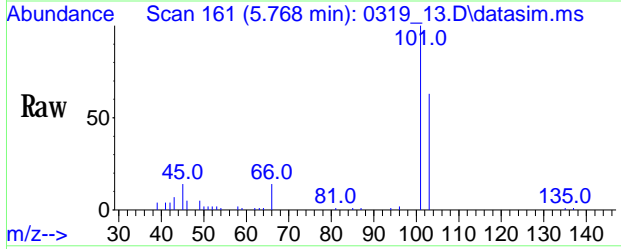
#53
 Tetrachloroethene
 Conc: 8S 0.351 ppbv
 RT: 10.961 min Scan# 672
 Delta R.T. 0.002 min
 Lab File: 0319_13.D
 Acq: 19 Mar 2022 2:01 pm

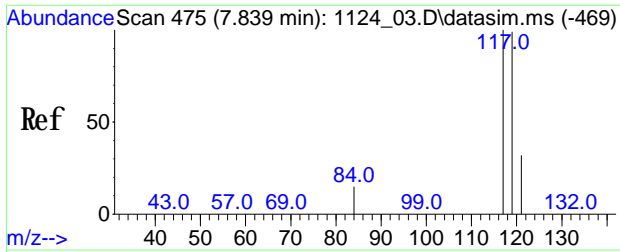
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	16800		
164	76.9	60.0	90.0	
129	79.8	59.0	88.4	



#85
 Trichlorofluoromethane (sim)
 Conc: 8S 0.262 ppbv
 RT: 5.768 min Scan# 161
 Delta R.T. -0.000 min
 Lab File: 0319_13.D
 Acq: 19 Mar 2022 2:01 pm

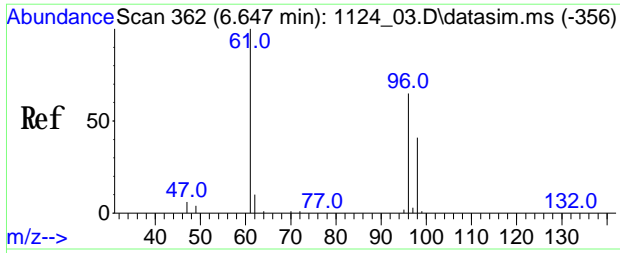
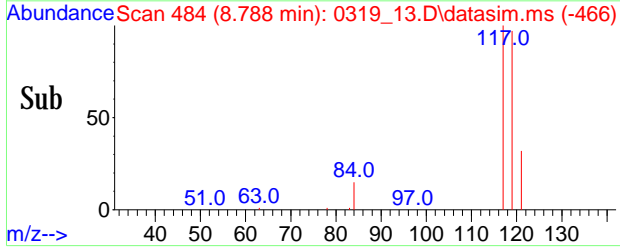
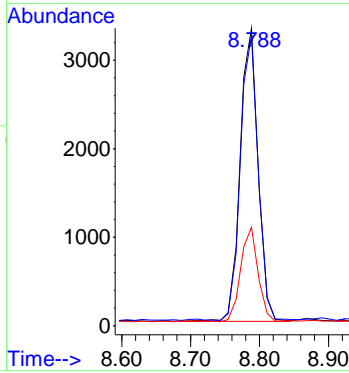
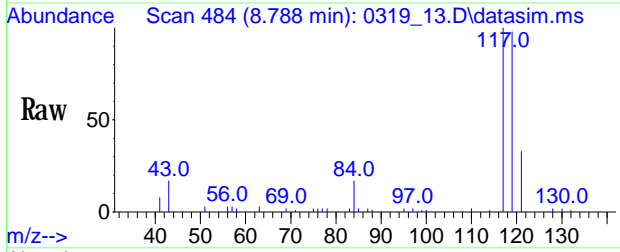
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	21129		
103	63.2	51.2	76.8	
66	14.0	13.5	13.5#	





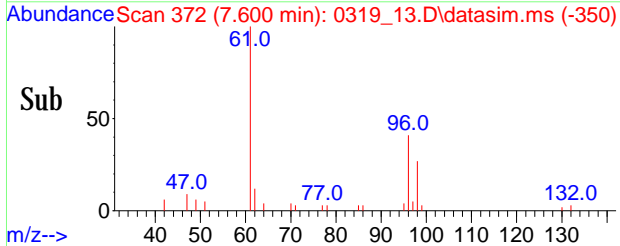
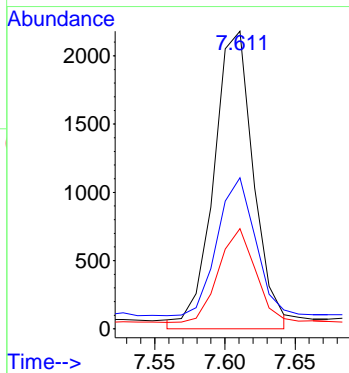
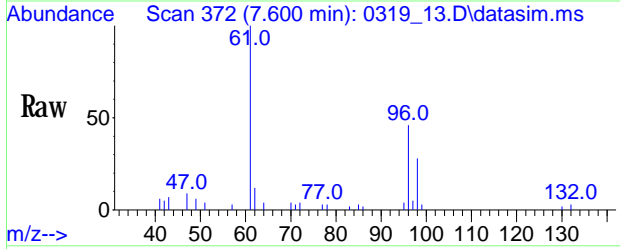
#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.084 ppbv
 RT: 8.788 min Scan# 484
 Delta R.T. 0.002 min
 Lab File: 0319_13.D
 Acq: 19 Mar 2022 2:01 pm

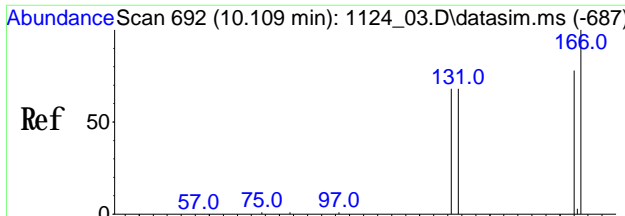
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5984		
119	96.3	76.2	114.4	
121	30.8	23.9	35.9	



#94
 Cis-1,2-Dichloroethene(sim)
 Conc: 8S 0.075 ppbv
 RT: 7.605 min Scan# 372
 Delta R.T. 0.002 min
 Lab File: 0319_13.D
 Acq: 19 Mar 2022 2:01 pm

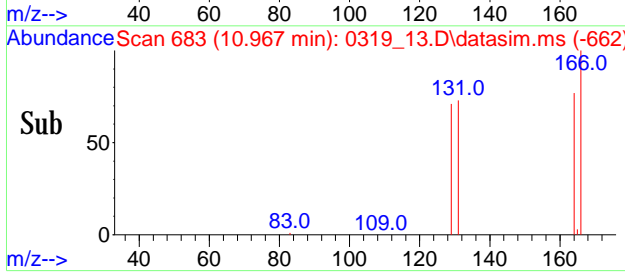
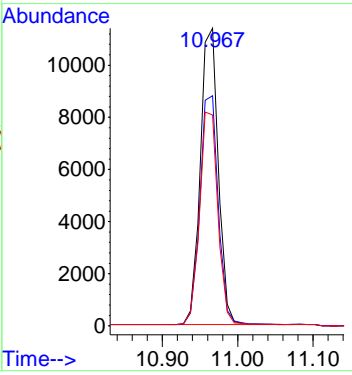
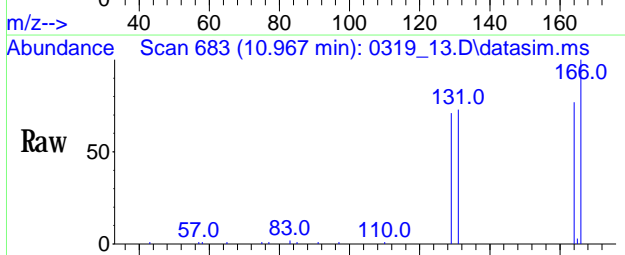
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	3636		
96	64.4	48.6	72.8	
98	36.5	30.4	45.6	





#105
 Tetrachloroethene(sim)
 Conc: 8S 0.286 ppbv
 RT: 10.967 min Scan# 683
 Delta R.T. 0.002 min
 Lab File: 0319_13.D
 Acq: 19 Mar 2022 2:01 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	18796		
164	78.7	59.0	59.0	99.0
129	72.5	54.3	54.3	94.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-1D

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90301
Canister:	480	Lab File ID:	0319_14.D
Instrument:	CHEM20	Column:	RTX-1 60M
		Date Received:	03/18/22
Purge Volume	200 (cc)	Date Analyzed:	03/19/22
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.468		0.202	0.202	r
74-87-3	Chloromethane	0.612		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	63.9	ES	0.531	0.531	r
67-64-1	Acetone	7.78	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.236		0.178	0.178	r
67-63-0	Isopropylalcohol	7.45	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	1.43	S	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.643		0.339	0.339	r
110-54-3	Hexane	0.307	S	0.284	0.284	r
67-66-3	Chloroform	0.227		0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.519		0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.704		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.253		0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-1D

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90301
Canister:	480	Lab File ID:	0319_14.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200 (cc)	Date Received:	03/18/22
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.086		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.089		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_14.D
 Acq On : 19 Mar 2022 2:36 pm
 Operator :
 Client ID : IA-1D
 Lab ID : CK90301
 ALS Vial : 6 Sample Multiplier: 1

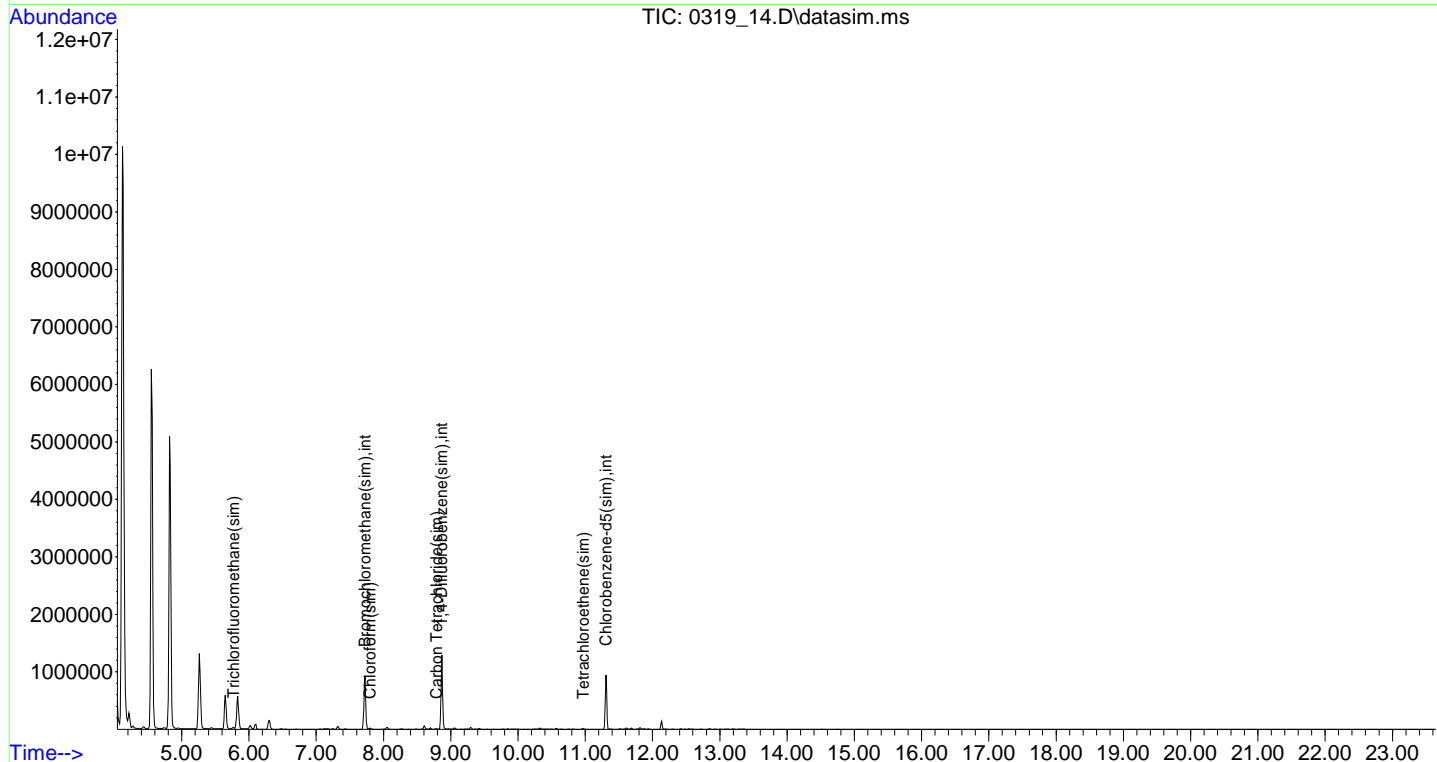
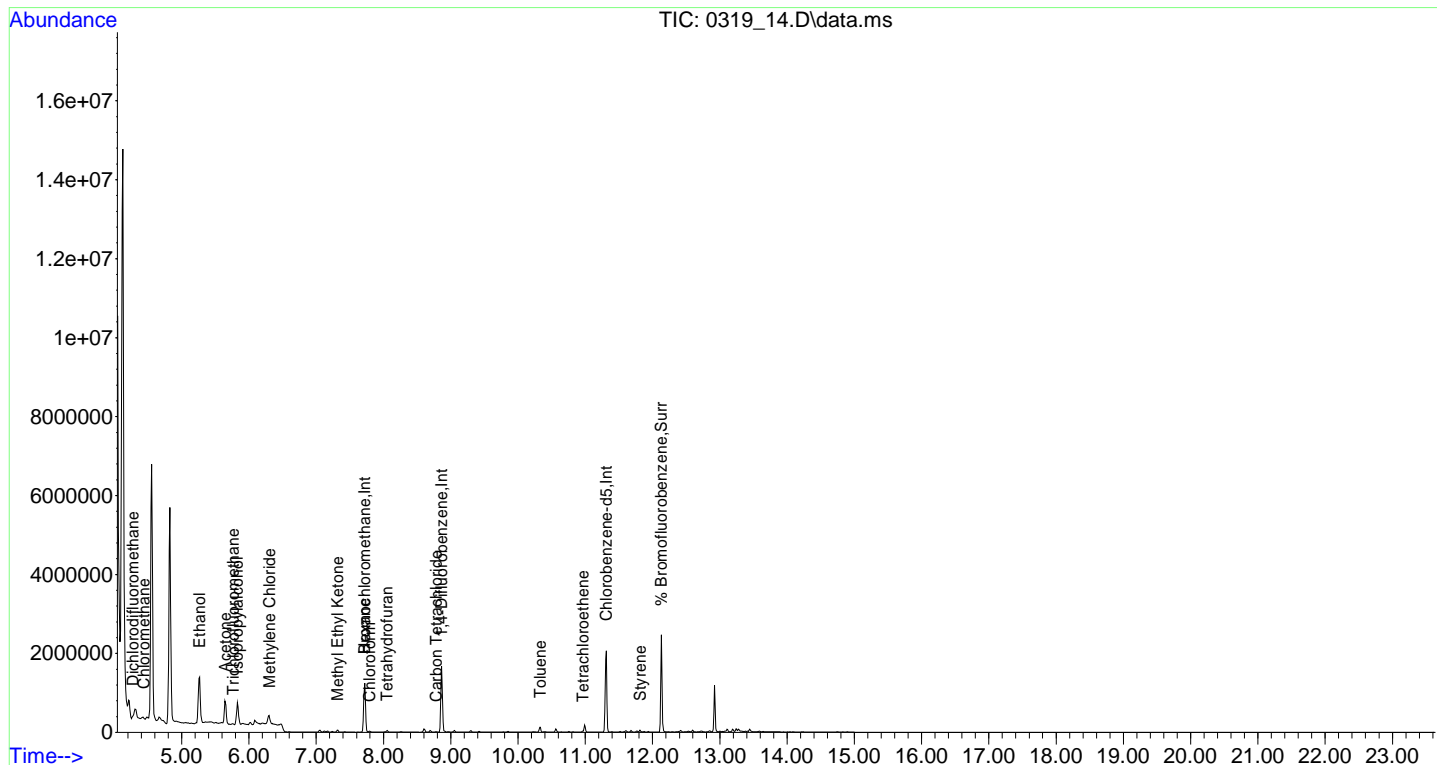
Quant Time: Mar 20 09:01:14 2022
 Quant Title :
 QLast Update : Fri Mar 18 08:42:58 2022
 Response via : Initial Calibration

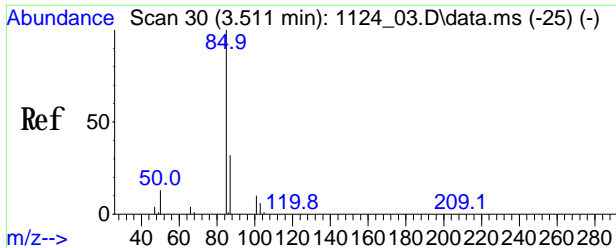
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.720	130	297329	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	1011261	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	471082	10.000	ng	0.00
81) Bromochloromethane(sim)	7.725	130	318747	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	8.862	114	1011261	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	471082	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	605975	10.015	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	100.10%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.275	85	37253	0.468	ppbv#	95
4) Chloromethane	4.437	50	31643	0.612	ppbv	91
11) Ethanol	5.267	45	1516458	63.870	ppbv	94
12) Acetone	5.644	43	644656	7.778	ppbv	92
13) Trichlorofluoromethane	5.763	101	20057	0.236	ppbv#	94
14) Isopropylalcohol	5.827	45	759323	7.448	ppbv	99
17) Methylene Chloride	6.306	49	95930	1.433	ppbv#	88
26) Methyl Ethyl Ketone	7.314	43	69224	0.643	ppbv#	95
28) Hexane	7.720	57	21891	0.307	ppbv#	95
29) Chloroform	7.793	83	15168	0.227	ppbv	97
31) Tetrahydrofuran	8.053	42	29683	0.519	ppbv#	83
35) Carbon Tetrachloride	8.783	117	5946	0.076	ppbv	92
49) Toluene	10.334	91	69855	0.703	ppbv#	97
53) Tetrachloroethene	10.961	166	5978	0.108	ppbv	93
60) Styrene	11.814	104	16092	0.253	ppbv#	90
85] Trichlorofluoromethane...	5.768	101	21997	0.248	ppbv#	100
89] Carbon Tetrachloride(sim)	8.789	117	6699	0.086	ppbv	96
95] Chloroform(sim)	7.798	83	16361	0.232	ppbv	98
105] Tetrachloroethene(sim)	10.967	166	6793	0.089	ppbv	95

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0319_14.D
Acq On : 19 Mar 2022 2:36 pm
Operator :
Client ID : IA-1D
Lab ID : CK90301
ALS Vial : 6 Sample Multiplier: 1

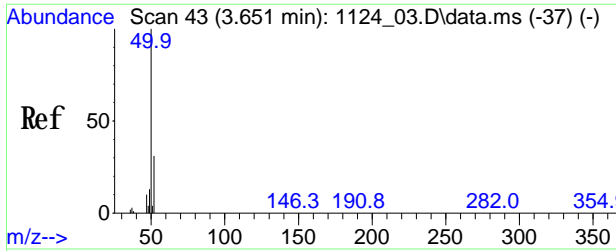
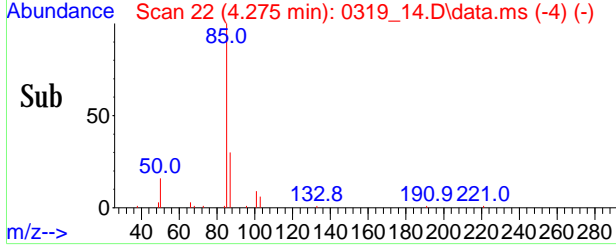
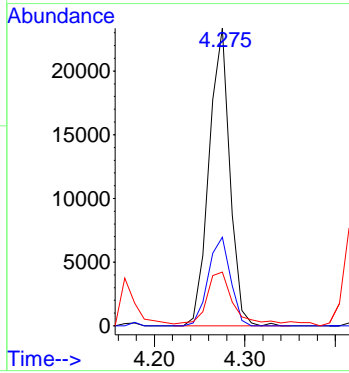
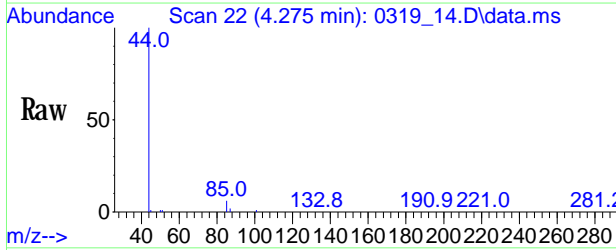
Quant Time: Mar 20 09:01:14 2022
Quant Title :
Last Update : Fri Mar 18 08:42:58 2022
Response via : Initial Calibration





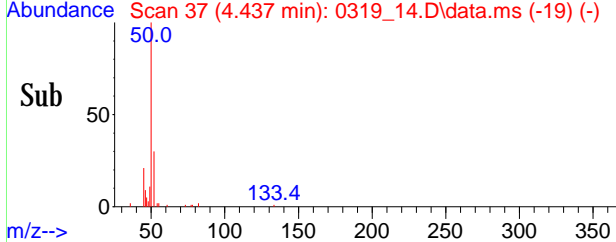
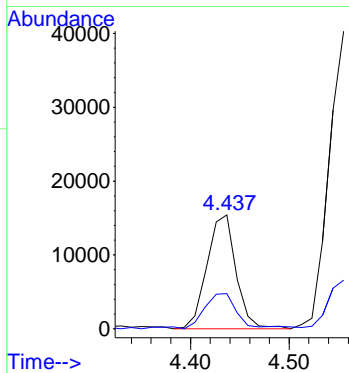
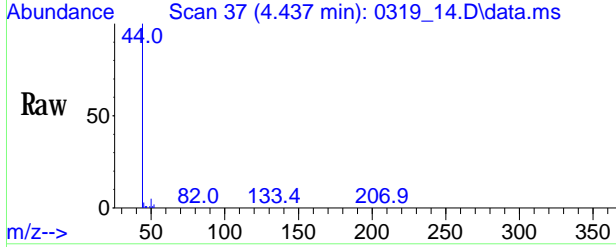
#3
Dichlorodifluoromethane
 Conc: 8S 0.468 ppbv
 RT: 4.275 min Scan# 22
 Delta R.T. -0.011 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

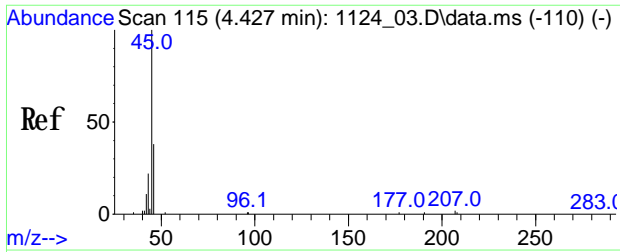
Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.8	26.0	39.0
50	25.4	16.2	24.4#



#4
Chloromethane
 Conc: 8S 0.612 ppbv
 RT: 4.437 min Scan# 37
 Delta R.T. -0.011 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

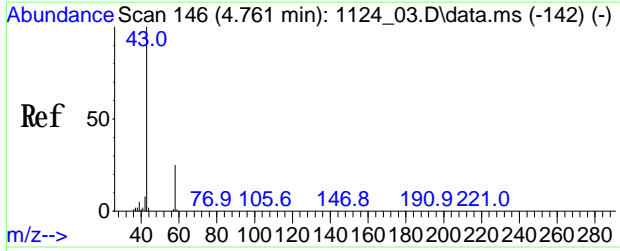
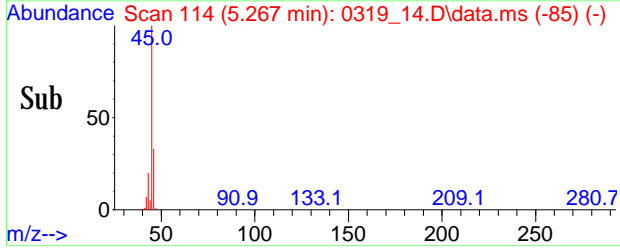
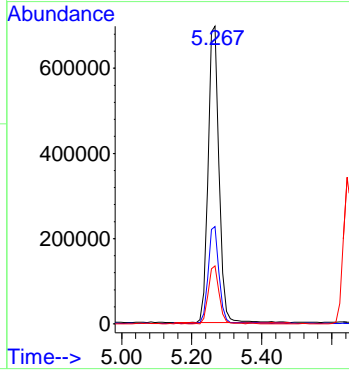
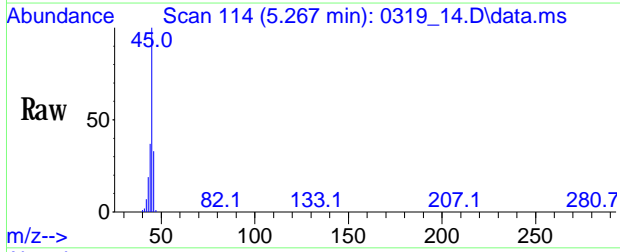
Tgt Ion	Ratio	Lower	Upper
50	100		
52	37.0	11.9	51.9





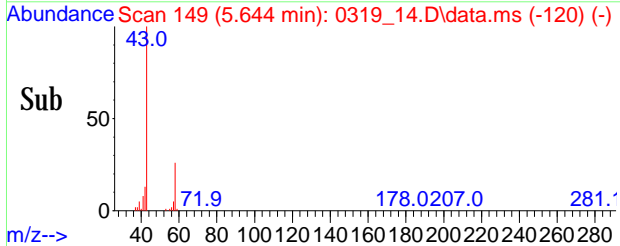
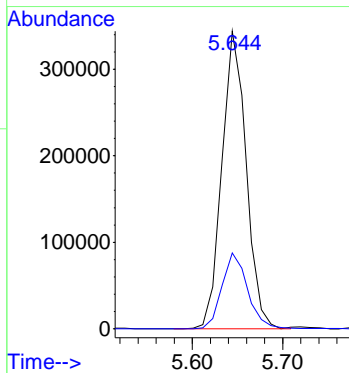
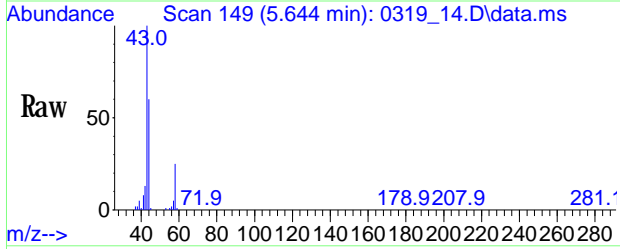
#11
 Ethanol
 Conc: 8S 63.870 ppbv
 RT: 5.267 min Scan# 114
 Delta R.T. 0.011 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

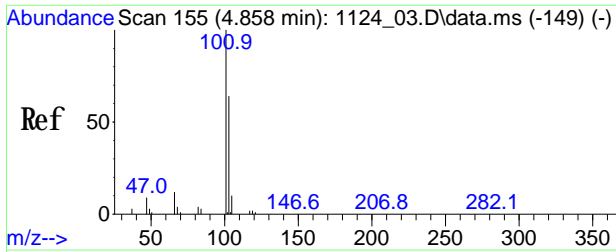
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.4	27.2	40.8
43	19.4	19.4	29.0



#12
 Acetone
 Conc: 8S 7.778 ppbv
 RT: 5.644 min Scan# 149
 Delta R.T. 0.011 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

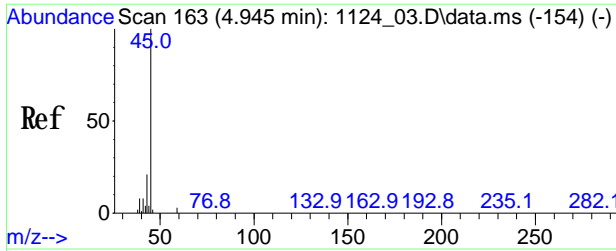
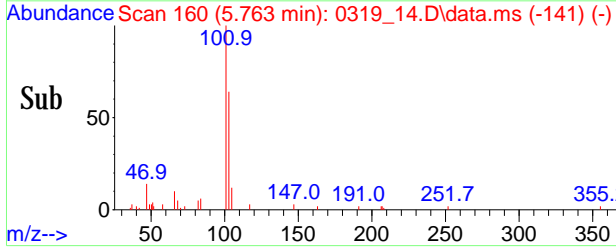
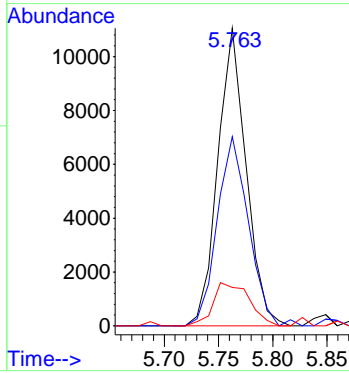
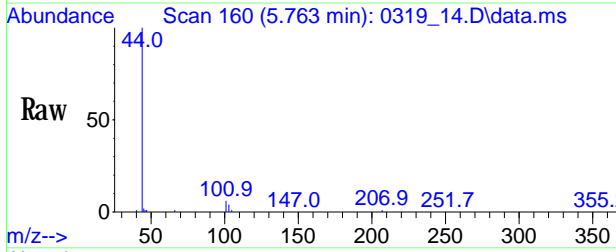
Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.1	18.6	27.8





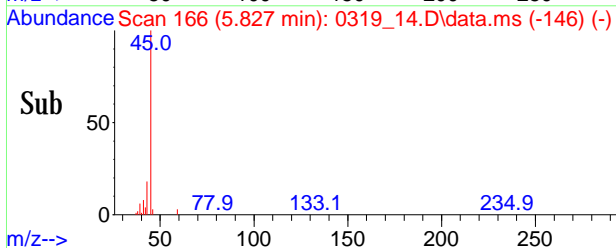
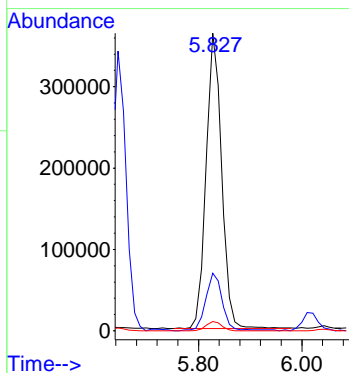
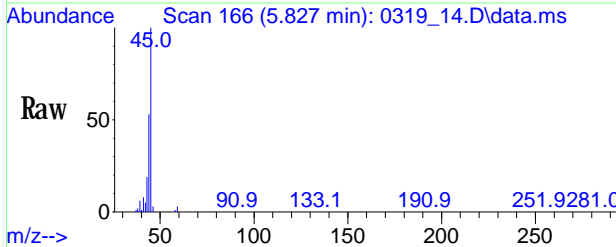
#13
 Trichlorofluoromethane
 Conc: 8S 0.236 ppbv
 RT: 5.763 min Scan# 160
 Delta R.T. 0.000 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

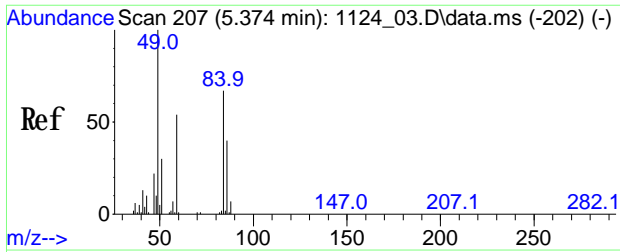
Tgt Ion	Ratio	Resp: Lower	Upper
101	100		
103	70.3	53.4	80.0
66	18.4	11.2	16.8#



#14
 Isopropylalcohol
 Conc: 8S 7.448 ppbv
 RT: 5.827 min Scan# 166
 Delta R.T. 0.011 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

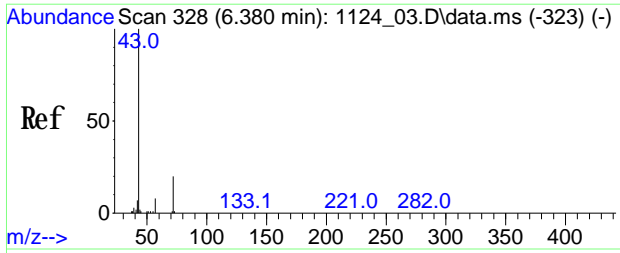
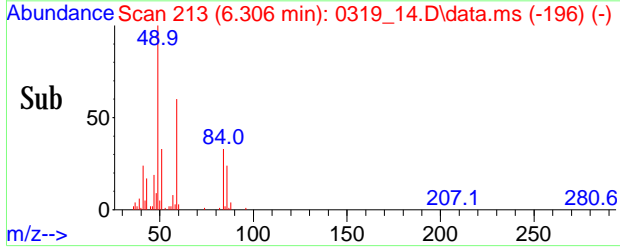
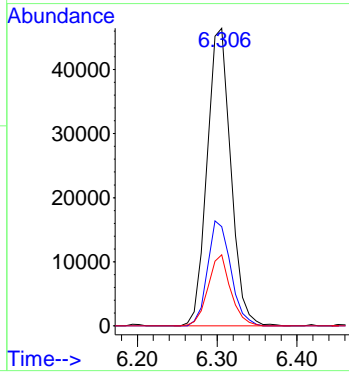
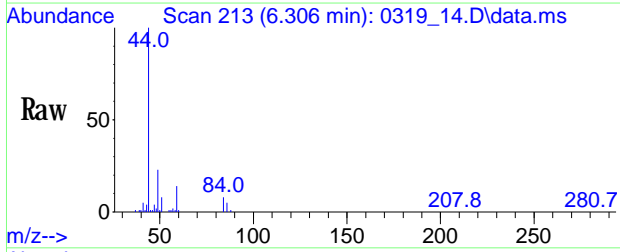
Tgt Ion	Ratio	Resp: Lower	Upper
45	100		
43	21.1	16.6	24.8
59	3.2	2.4	3.6





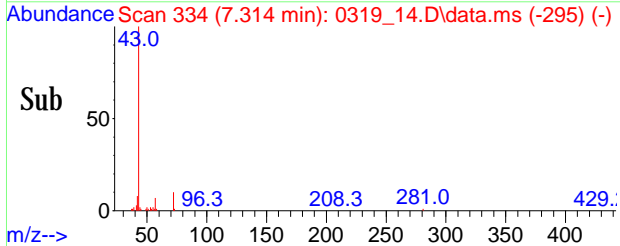
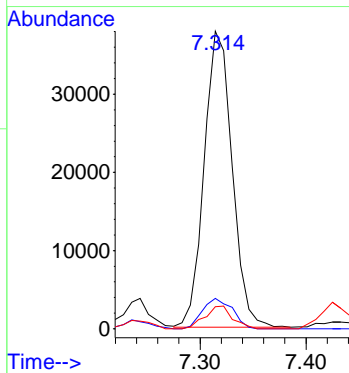
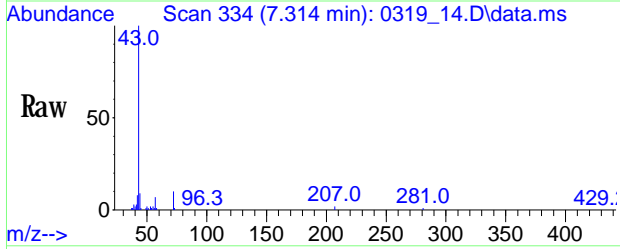
#17
 Methylene Chloride
 Conc: 8S 1.433 ppbv
 RT: 6.306 min Scan# 213
 Delta R.T. 0.000 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

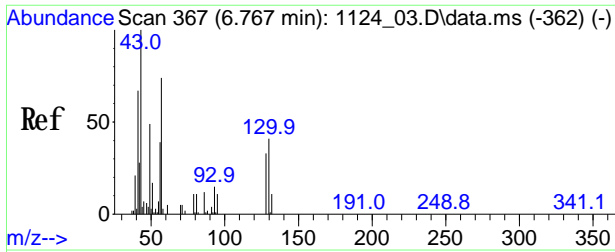
Tgt Ion	Ratio	Resp	Lower	Upper
49	100	95930		
84	34.4	35.4	53.0#	
86	22.8	21.6	32.4	



#26
 Methyl Ethyl Ketone
 Conc: 8S 0.643 ppbv
 RT: 7.314 min Scan# 334
 Delta R.T. 0.008 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

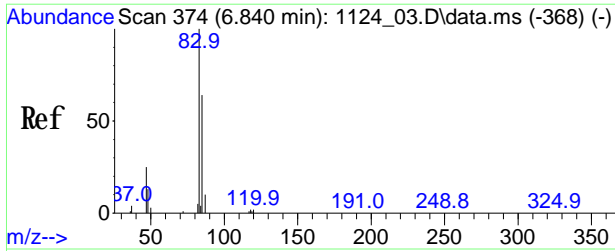
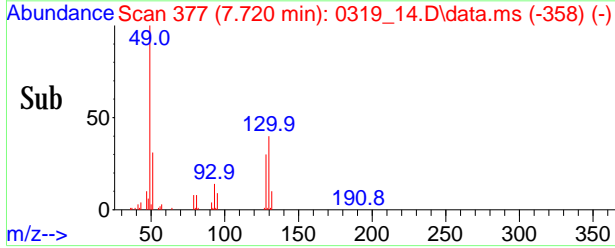
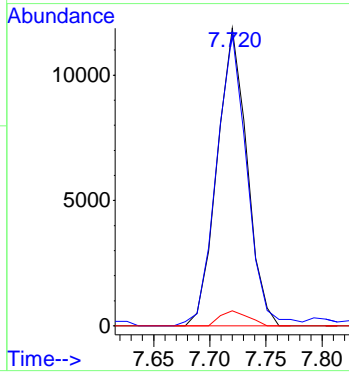
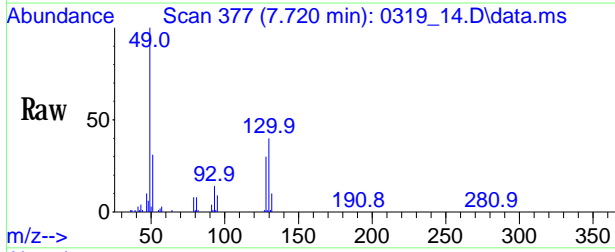
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	69224		
72	11.0	11.1	16.7#	
57	7.6	6.0	9.0	





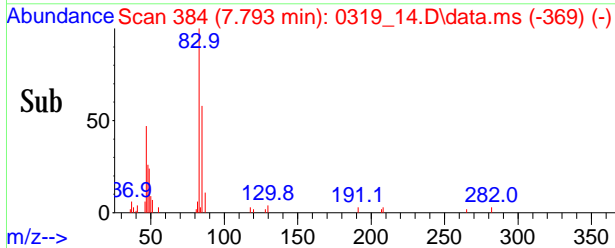
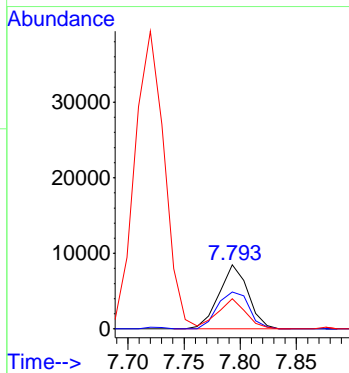
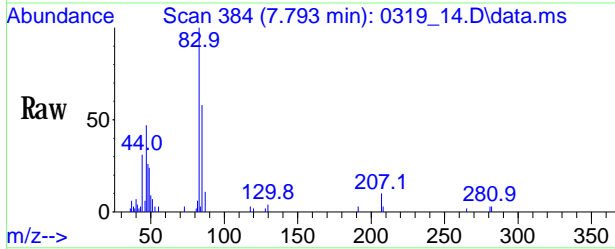
#28
 Hexane
 Conc: 8S 0.307 ppbv
 RT: 7.720 min Scan# 377
 Delta R.T. 0.003 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

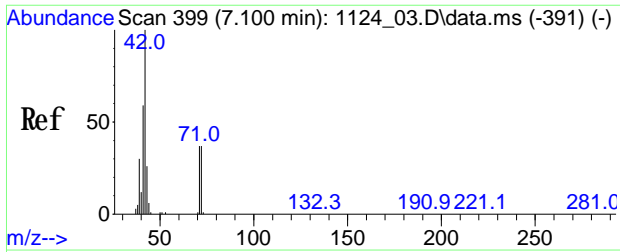
Tgt Ion	Ratio	Lower	Upper
57	100		
41	100.3	83.9	125.9
86	4.8	7.2	10.8#



#29
 Chloroform
 Conc: 8S 0.227 ppbv
 RT: 7.793 min Scan# 384
 Delta R.T. 0.003 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

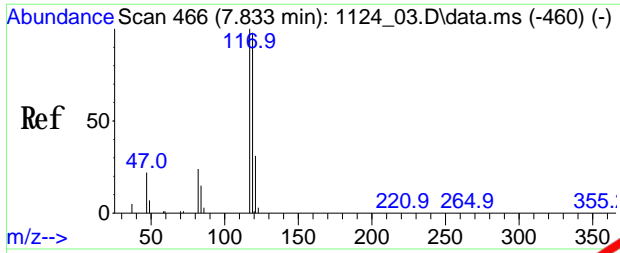
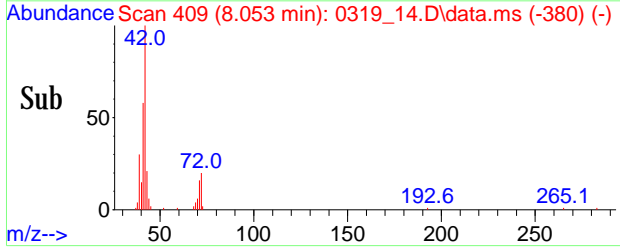
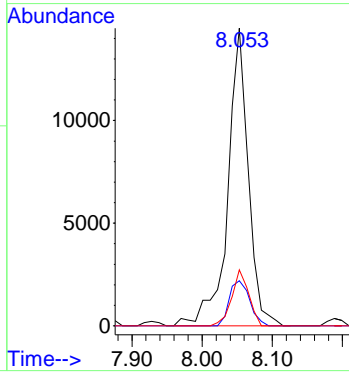
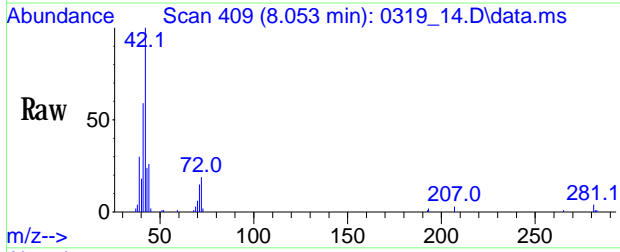
Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.1	41.5	81.5
47	45.3	22.2	62.2





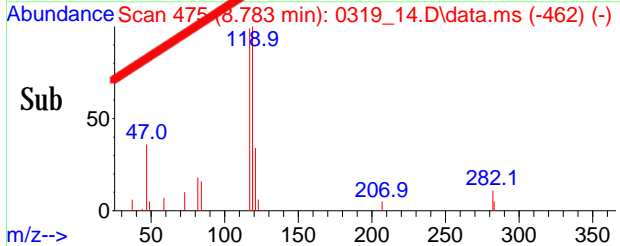
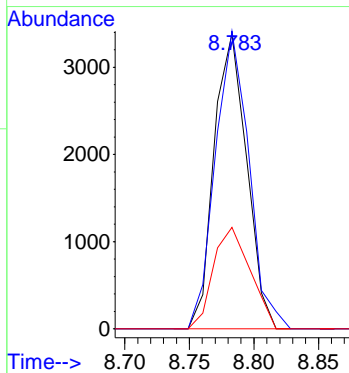
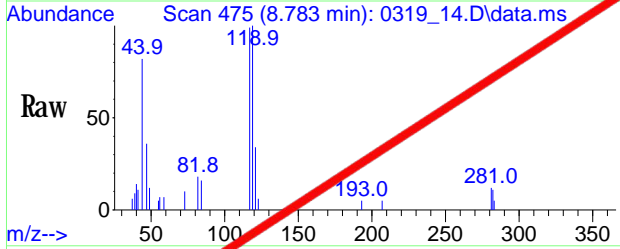
#31
 Tetrahydrofuran
 Conc: 8S 0.519 ppbv
 RT: 8.053 min Scan# 409
 Delta R.T. 0.003 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

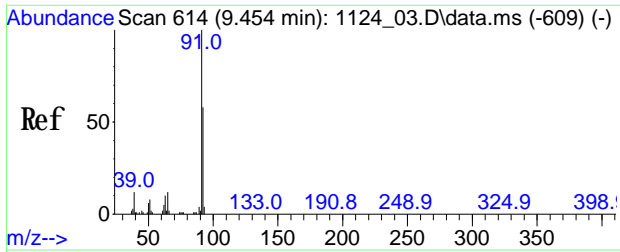
Tgt Ion	Ratio	Lower	Upper
42	100		
71	15.1	19.4	29.2#
72	15.6	18.0	27.0#



#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 8.783 min Scan# 475
 Delta R.T. 0.003 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

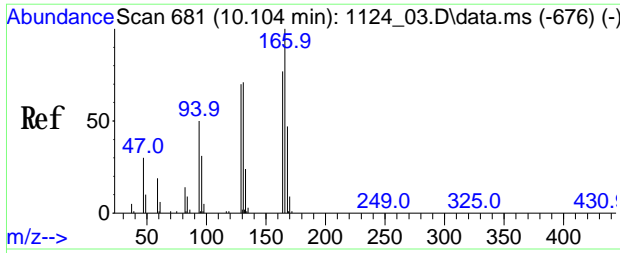
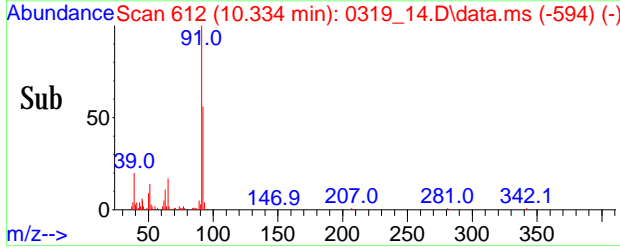
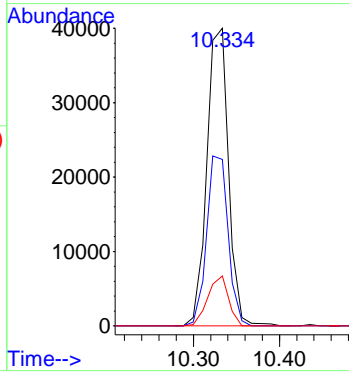
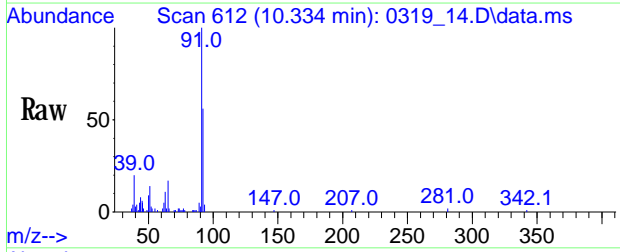
Tgt Ion	Ratio	Lower	Upper
117	100		
119	103.8	77.5	117.5
121	39.0	10.7	50.7





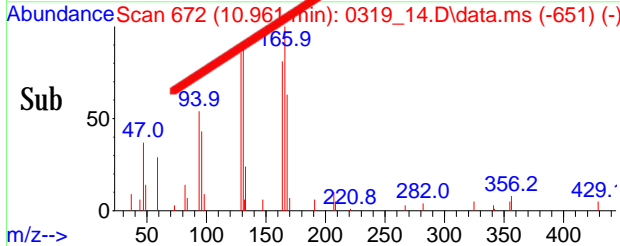
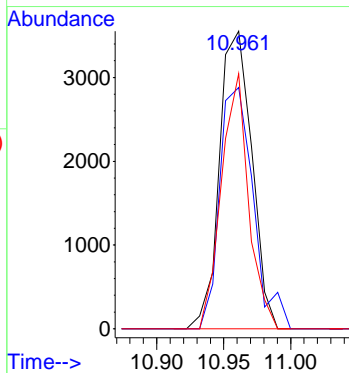
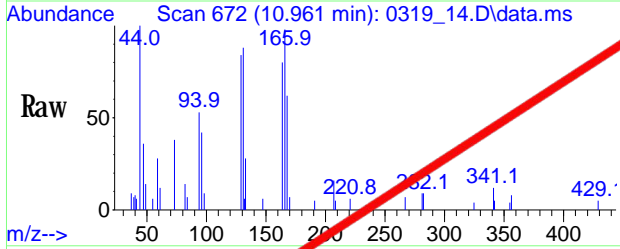
#49
 Toluene
 Conc: 8S 0.703 ppbv
 RT: 10.334 min Scan# 612
 Delta R.T. 0.003 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

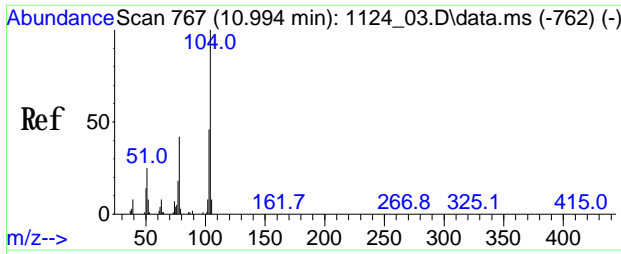
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	69855		
92	56.6	43.9	65.9	
65	16.1	10.2	15.2#	



#53
 Tetrachloroethene
 Conc: 8S Below Cal
 RT: 10.961 min Scan# 672
 Delta R.T. 0.003 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

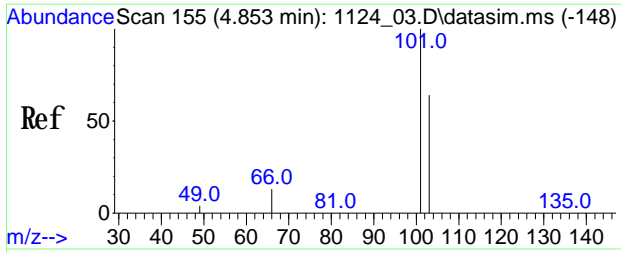
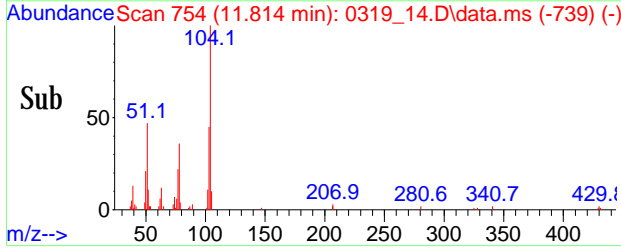
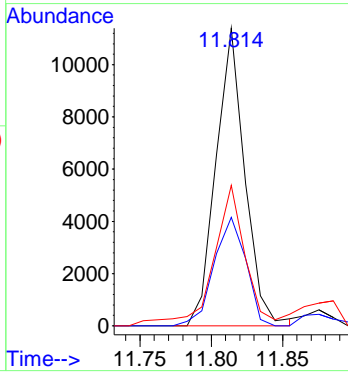
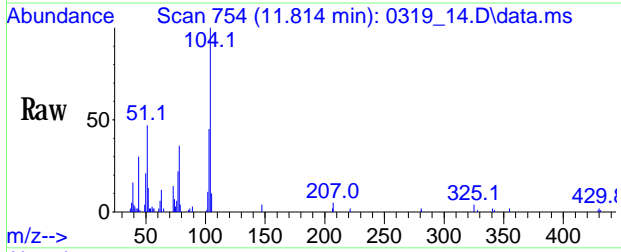
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	5978		
164	84.3	60.0	90.0	
129	72.0	59.0	88.4	





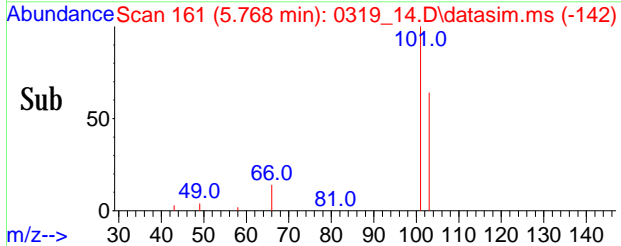
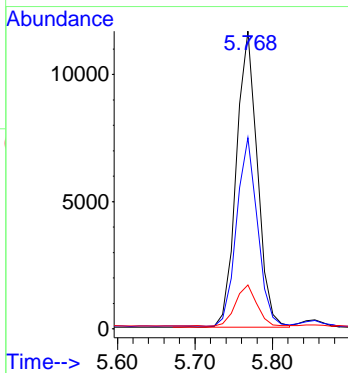
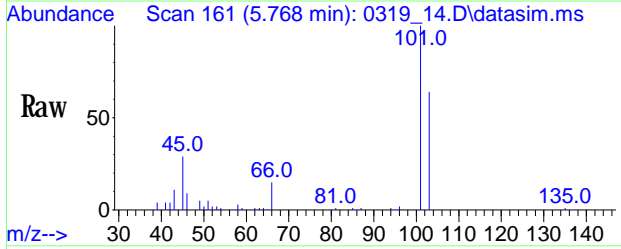
#60
 Styrene
 Conc: 8S 0.253 ppbv
 RT: 11.814 min Scan# 754
 Delta R.T. 0.003 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

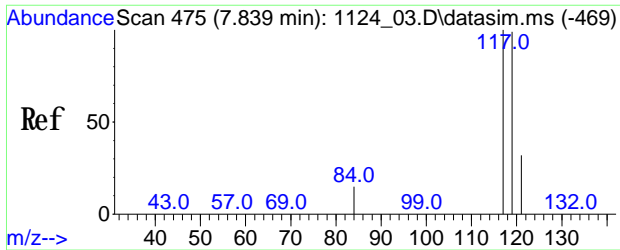
Tgt Ion	104	Resp:	16092
Ion Ratio	104	Lower	Upper
78	40.1	34.2	51.4
51	51.7	32.8	49.2#



#85
 Trichlorofluoromethane (sim)
 Conc: 8S 0.248 ppbv
 RT: 5.768 min Scan# 161
 Delta R.T. 0.000 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

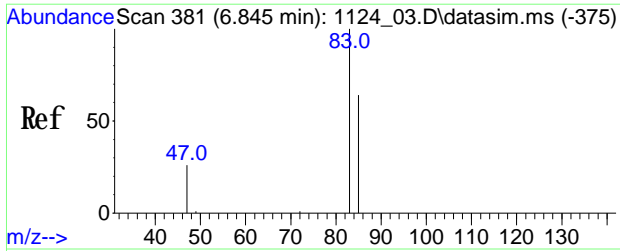
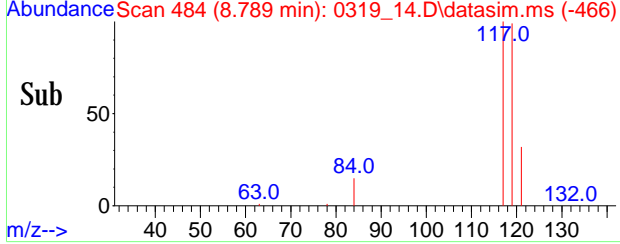
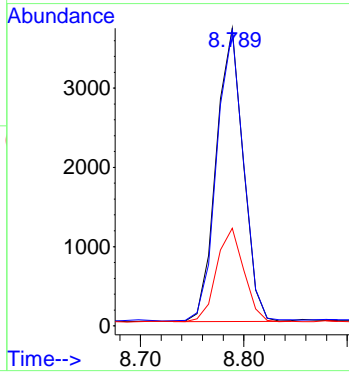
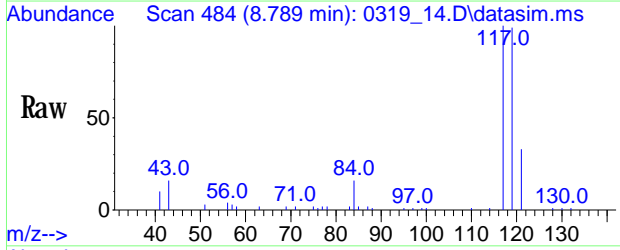
Tgt Ion	101	Resp:	21997
Ion Ratio	101	Lower	Upper
103	64.0	51.2	76.8
66	14.5	13.5	13.5#





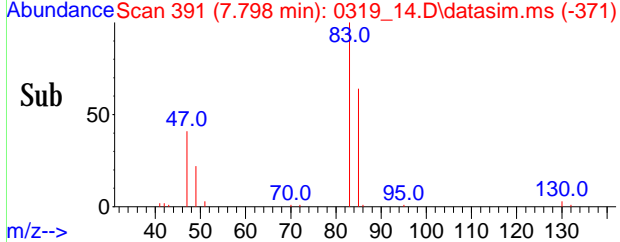
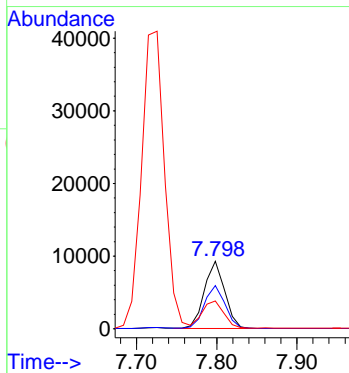
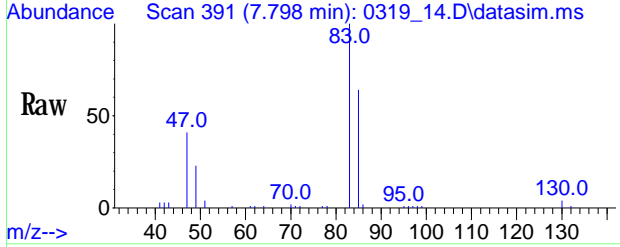
#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.086 ppbv
 RT: 8.789 min Scan# 484
 Delta R.T. 0.003 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

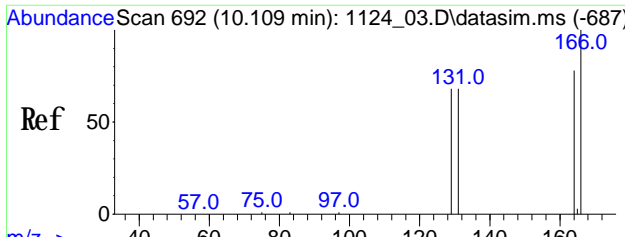
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	6699		
119	98.3	76.2	114.4	
121	32.6	23.9	35.9	



#95
 Chloroform(sim)
 Conc: 8S 0.232 ppbv
 RT: 7.798 min Scan# 391
 Delta R.T. 0.013 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

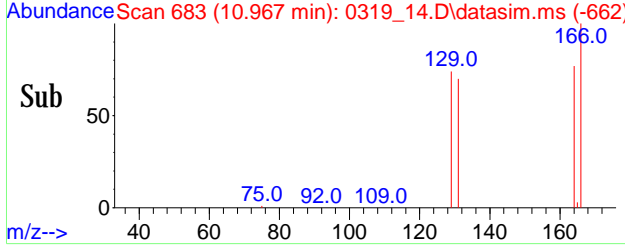
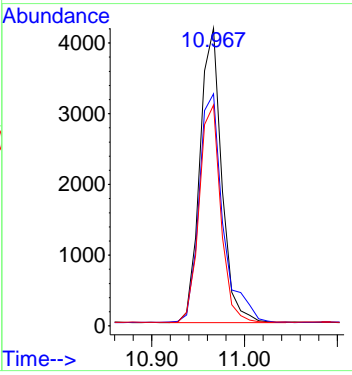
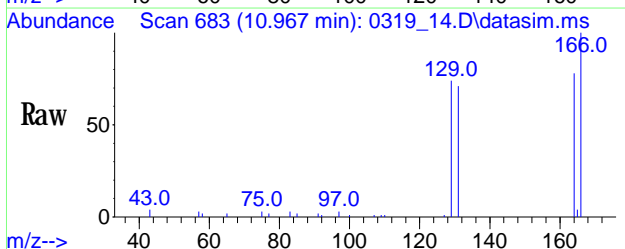
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	16361		
85	64.6	53.4	80.2	
47	43.4	33.8	50.8	





#105
 Tetrachloroethene(sim)
 Conc: 8S 0.089 ppbv
 RT: 10.967 min Scan# 683
 Delta R.T. 0.003 min
 Lab File: 0319_14.D
 Acq: 19 Mar 2022 2:36 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	6793		
164	85.9		59.0	99.0
129	73.4		54.3	94.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

AMBIENT

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90302
Canister:	23340	Lab File ID:	0319_15.D
Instrument:	CHEM20	Column:	RTX-1 60M
Date Received:	03/18/22		
Purge Volume	200 (cc)	Date Analyzed:	03/19/22
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	1.80		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.536		0.202	0.202	r
74-87-3	Chloromethane	0.588		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	11.9	S	0.531	0.531	r
67-64-1	Acetone	4.78	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.282		0.178	0.178	r
67-63-0	Isopropylalcohol	1.63	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.434		0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.456		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.979		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene	0.406		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

AMBIENT

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCK90290</u>	Lab Sample ID:	<u>CK90302</u>
Canister:	<u>23340</u>	Lab File ID:	<u>0319_15.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
		Date Received:	<u>03/18/22</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>03/19/22</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.083		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.060		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_15.D
 Acq On : 19 Mar 2022 3:11 pm
 Operator :
 Client ID : AMBIENT
 Lab ID : CK90302
 ALS Vial : 7 Sample Multiplier: 1

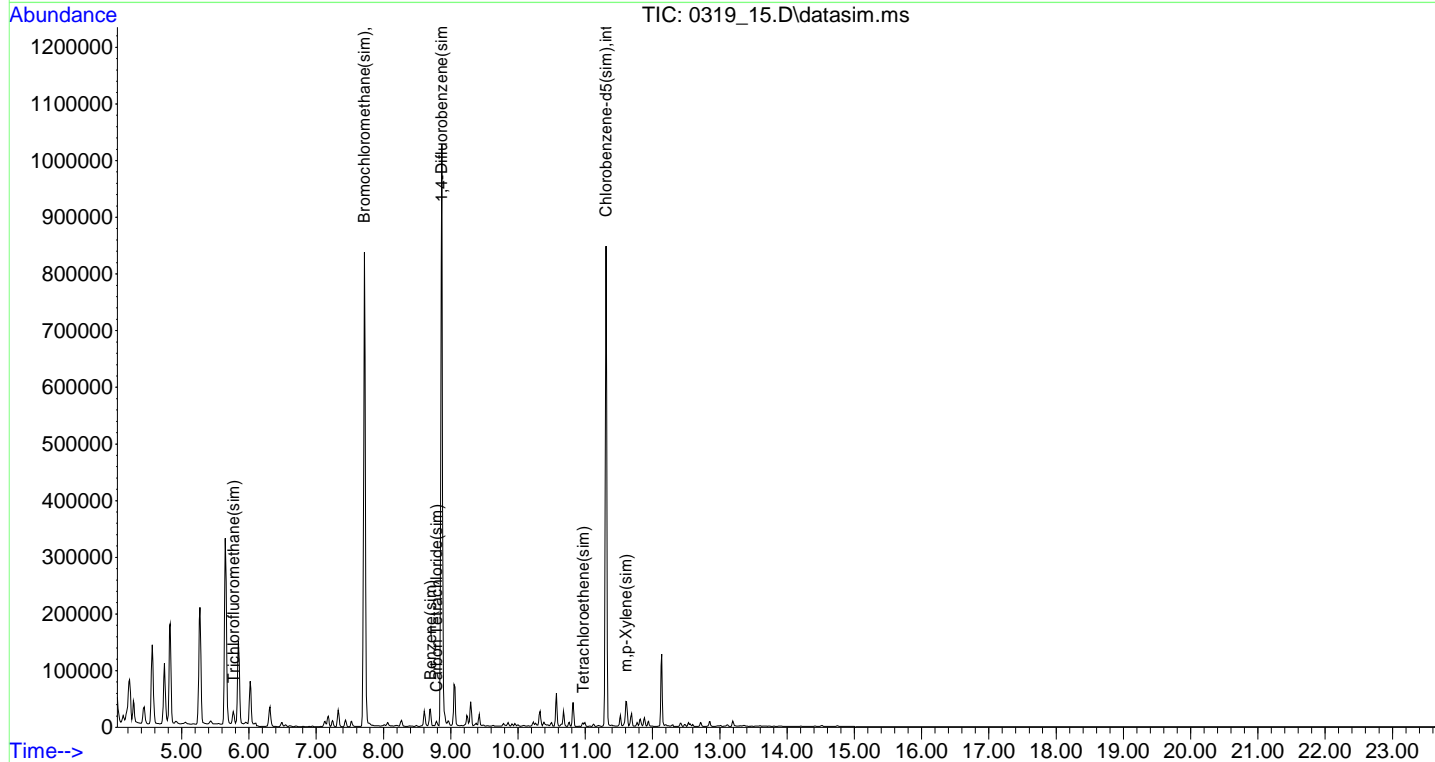
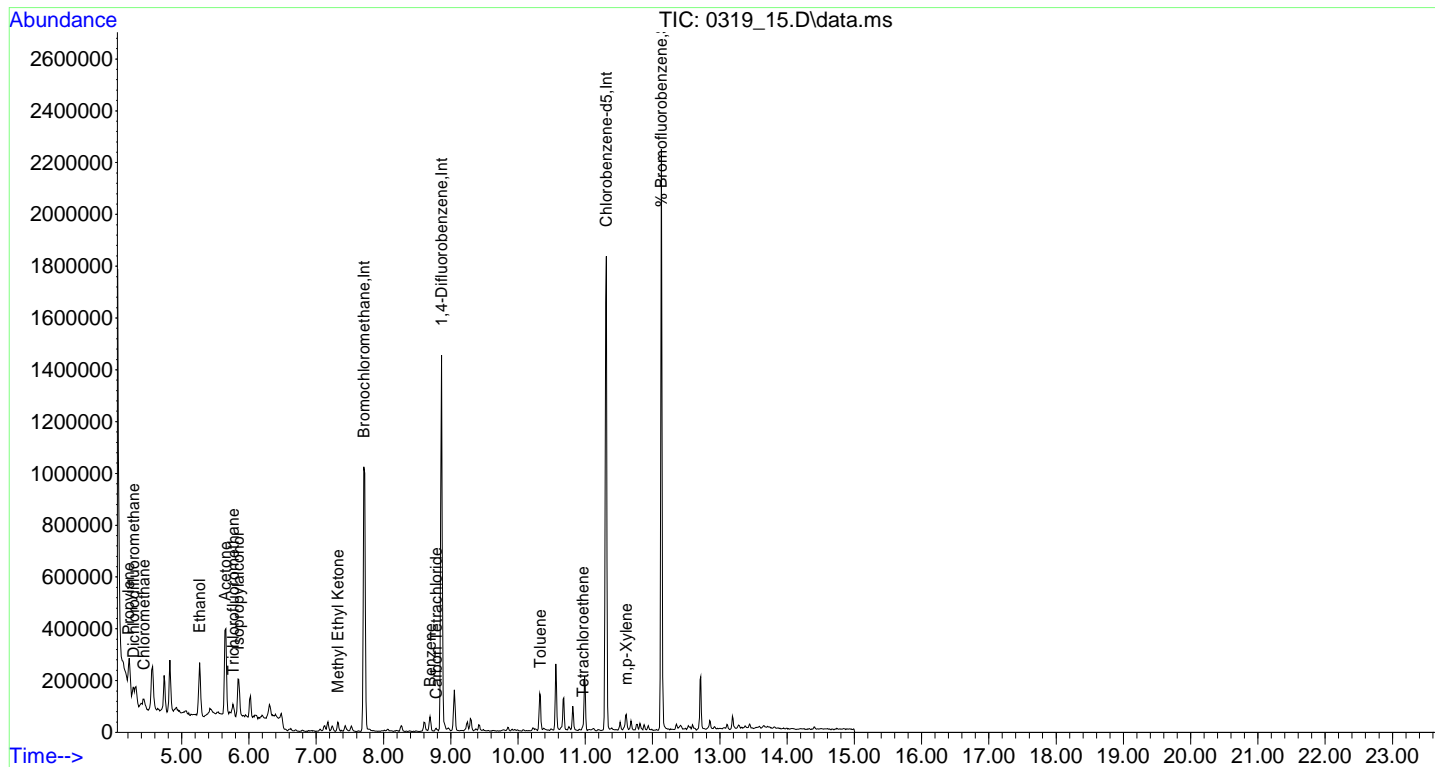
Quant Time: Mar 20 09:02:09 2022
 Quant Title :
 QLast Update : Fri Mar 18 08:42:58 2022
 Response via : Initial Calibration

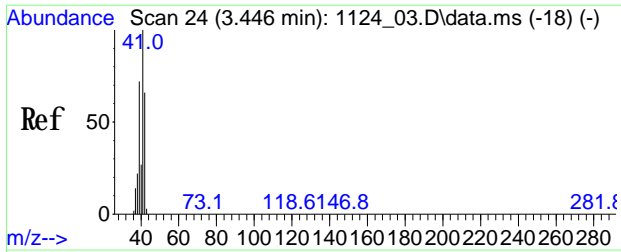
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.709	130	260606	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	848895	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	426394	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	284681	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	848725	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	426394	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	566457	10.343	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	103.40%	
Target Compounds						
						Qvalue
2) Propylene	4.210	41	61434	1.802	ppbv#	82
3) Dichlorodifluoromethane	4.286	85	37397	0.536	ppbv	95
4) Chloromethane	4.437	50	26650	0.588	ppbv	99
11) Ethanol	5.267	45	248197	11.927	ppbv	97
12) Acetone	5.644	43	347179	4.779	ppbv#	88
13) Trichlorofluoromethane	5.762	101	20963	0.282	ppbv	97
14) Isopropylalcohol	5.838	45	145737	1.631	ppbv	97
26) Methyl Ethyl Ketone	7.322	43	40944	0.434	ppbv#	92
34) Benzene	8.692	78	32995	0.456	ppbv#	91
35) Carbon Tetrachloride	8.783	117	5620	0.082	ppbv	94
49) Toluene	10.333	91	81567	0.979	ppbv	96
53) Tetrachloroethene	10.961	166	2662	0.057	ppbv#	69
58) m p-Xylene	11.609	91	32992	0.406	ppbv	97
85) Trichlorofluoromethane...	5.768	101	21682	0.274	ppbv#	98
88) Benzene(sim)	8.692	78	32995	0.451	ppbv#	91
89) Carbon Tetrachloride(sim)	8.789	117	5791	0.083	ppbv	96
105) Tetrachloroethene(sim)	10.967	166	3853	0.060	ppbv	90
108) m p-Xylene(sim)	11.609	91	32992	0.400	ppbv	97

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0319_15.D
Acq On : 19 Mar 2022 3:11 pm
Operator :
Client ID : AMBIENT
Lab ID : CK90302
ALS Vial : 7 Sample Multiplier: 1

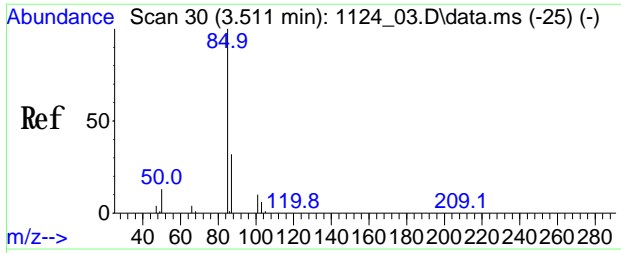
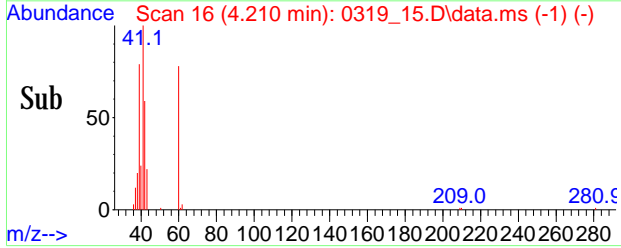
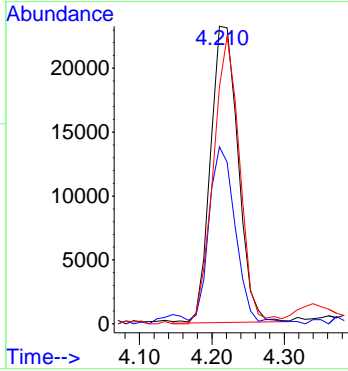
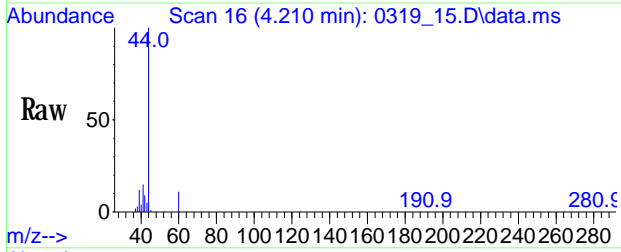
Quant Time: Mar 20 09:02:09 2022
Quant Title :
Last Update : Fri Mar 18 08:42:58 2022
Response via : Initial Calibration





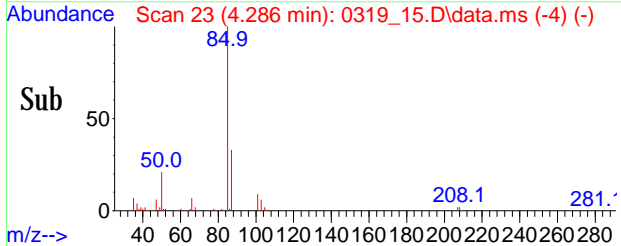
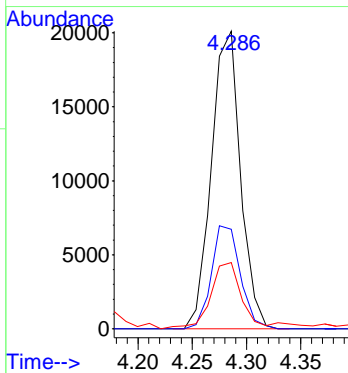
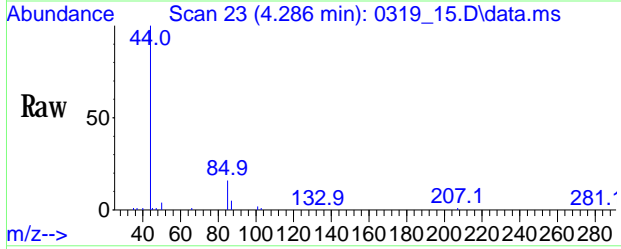
#2
 Propylene
 Conc: 8S 1.802 ppbv
 RT: 4.210 min Scan# 16
 Delta R.T. -0.000 min
 Lab File: 0319_15.D
 Acq: 19 Mar 2022 3:11 pm

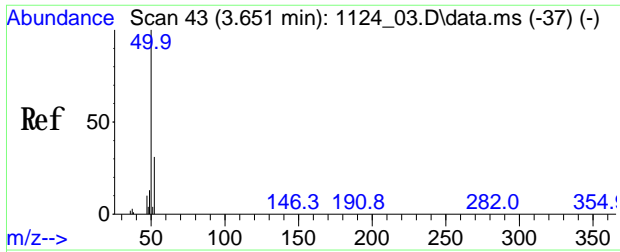
Tgt Ion	Ratio	Resp: Lower	Upper
41	100		
42	57.7	51.0	76.6
39	93.4	57.2	85.8#



#3
 Dichlorodifluoromethane
 Conc: 8S 0.536 ppbv
 RT: 4.286 min Scan# 23
 Delta R.T. -0.000 min
 Lab File: 0319_15.D
 Acq: 19 Mar 2022 3:11 pm

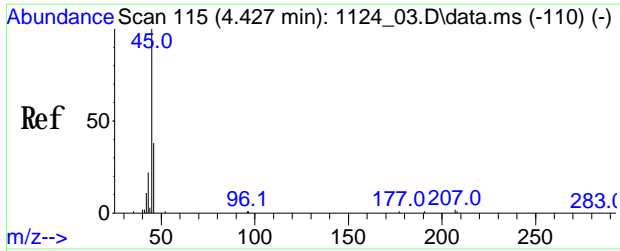
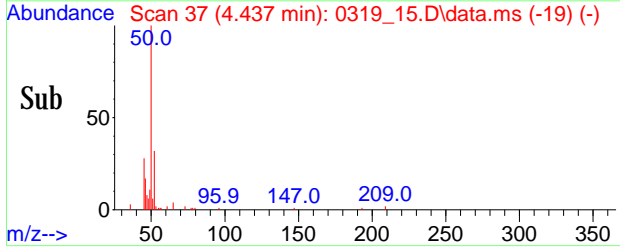
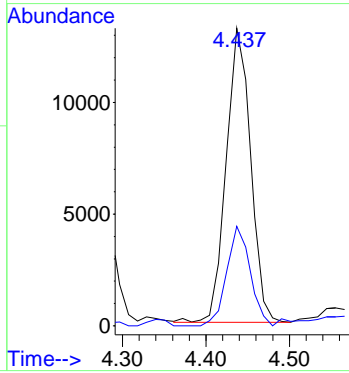
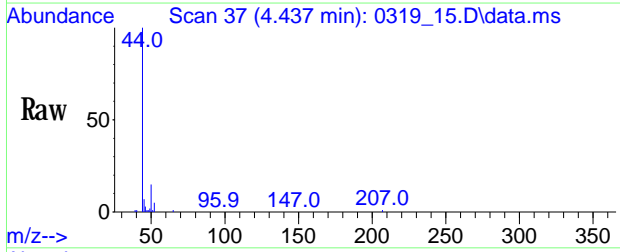
Tgt Ion	Ratio	Resp: Lower	Upper
85	100		
87	34.3	26.0	39.0
50	23.3	16.2	24.4





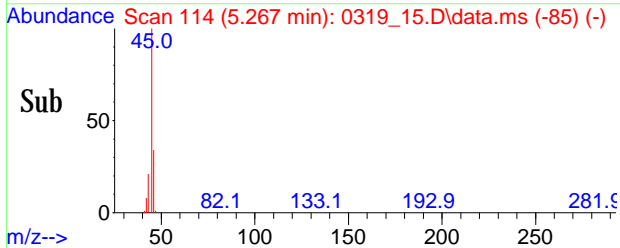
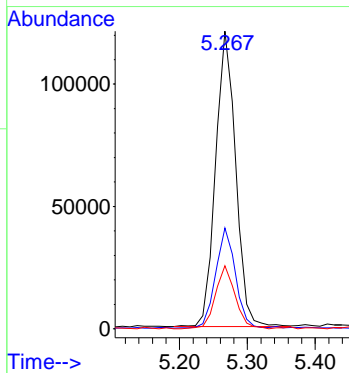
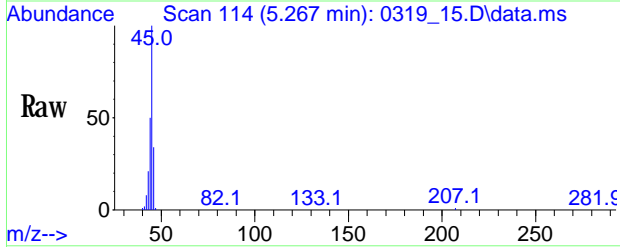
#4
Chloromethane
 Conc: 8S 0.588 ppbv
 RT: 4.437 min Scan# 37
 Delta R.T. -0.011 min
 Lab File: 0319_15.D
 Acq: 19 Mar 2022 3:11 pm

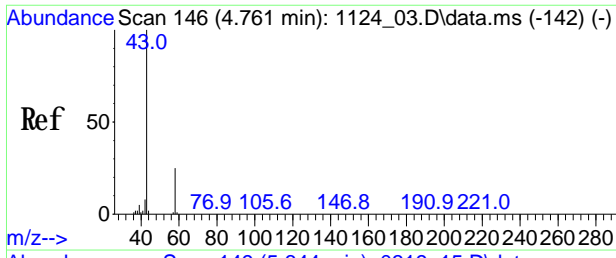
Tgt Ion	Ratio	Lower	Upper
50	100		
52	32.5	11.9	51.9



#11
Ethanol
 Conc: 8S 11.927 ppbv
 RT: 5.267 min Scan# 114
 Delta R.T. 0.011 min
 Lab File: 0319_15.D
 Acq: 19 Mar 2022 3:11 pm

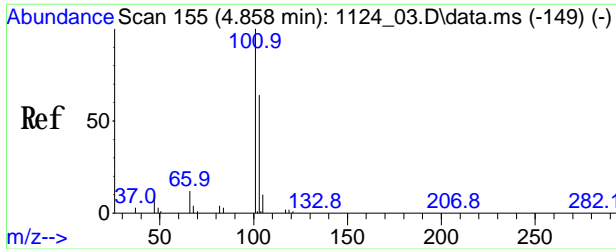
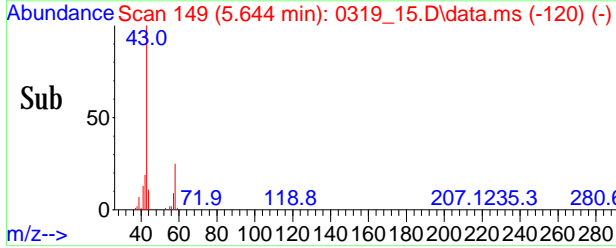
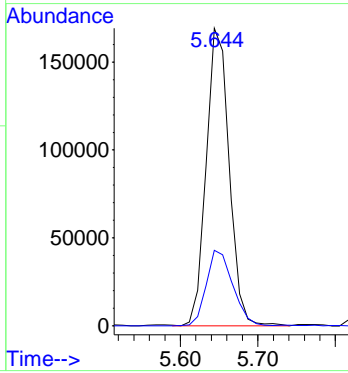
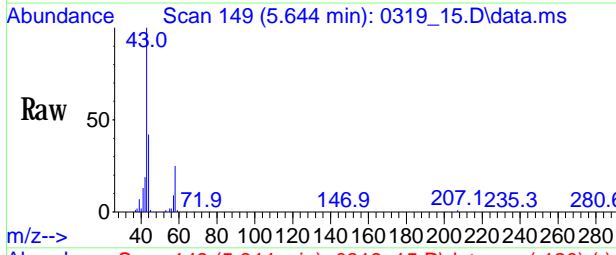
Tgt Ion	Ratio	Lower	Upper
45	100		
46	33.6	27.2	40.8
43	21.1	19.4	29.0





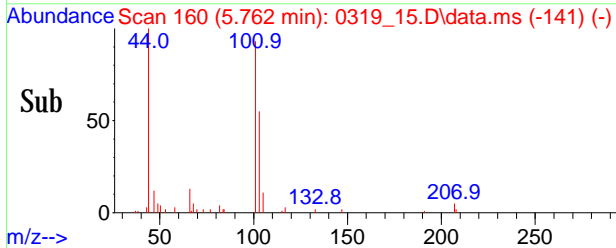
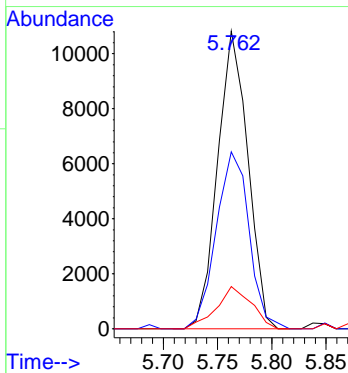
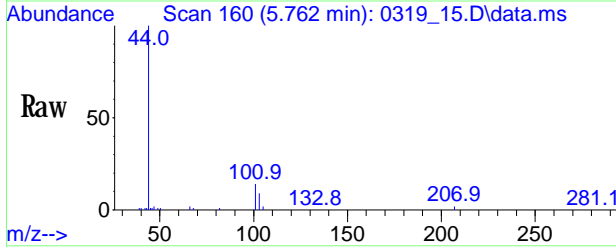
#12
 Acetone
 Conc: 8S 4.779 ppbv
 RT: 5.644 min Scan# 149
 Delta R.T. 0.011 min
 Lab File: 0319_15.D
 Acq: 19 Mar 2022 3:11 pm

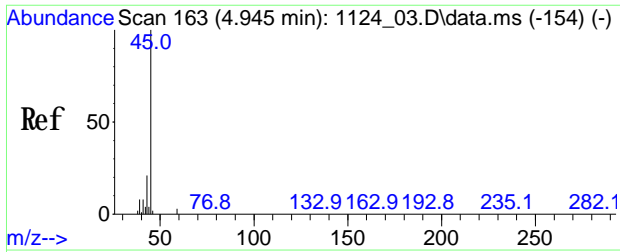
Tgt Ion: 43 Resp: 347179
 Ion Ratio Lower Upper
 43 100
 58 29.2 18.6 27.8#



#13
 Trichlorofluoromethane
 Conc: 8S 0.282 ppbv
 RT: 5.762 min Scan# 160
 Delta R.T. -0.000 min
 Lab File: 0319_15.D
 Acq: 19 Mar 2022 3:11 pm

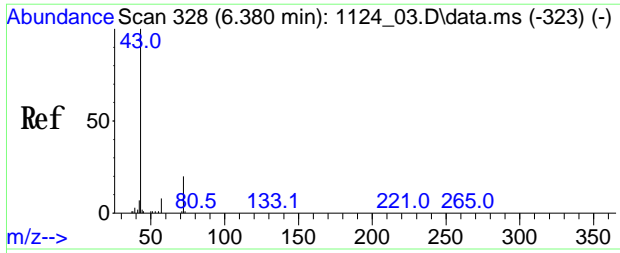
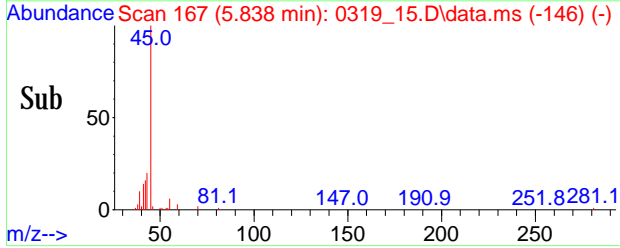
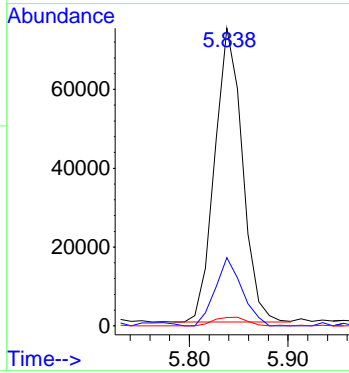
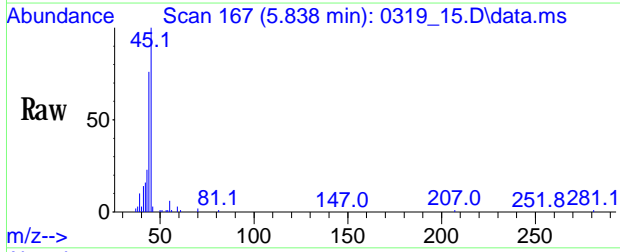
Tgt Ion: 101 Resp: 20963
 Ion Ratio Lower Upper
 101 100
 103 64.7 53.4 80.0
 66 16.4 11.2 16.8





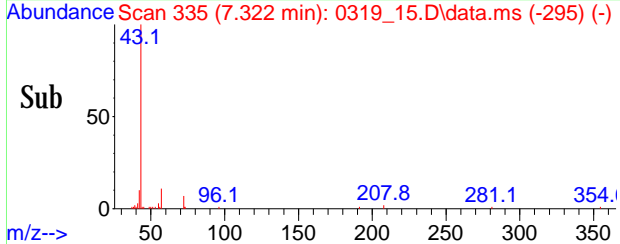
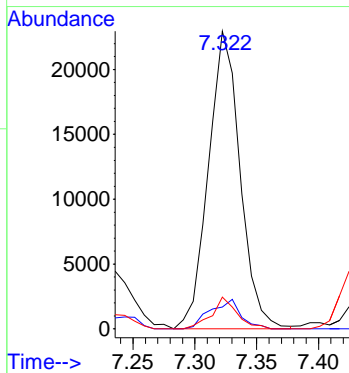
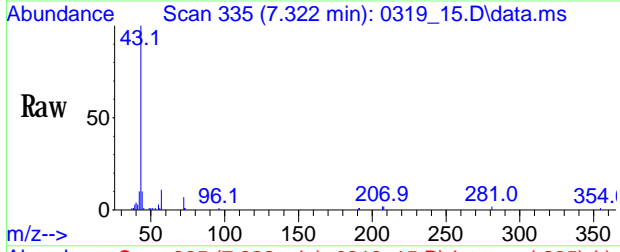
#14
 Isopropyl alcohol
 Conc: 8S 1.631 ppbv
 RT: 5.838 min Scan# 167
 Delta R.T. 0.021 min
 Lab File: 0319_15.D
 Acq: 19 Mar 2022 3:11 pm

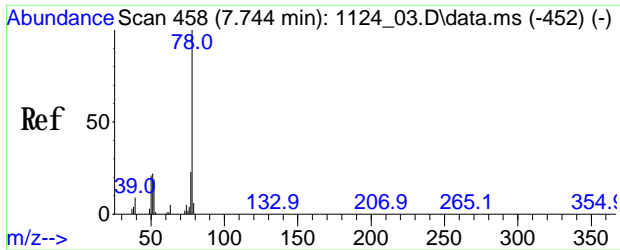
Tgt Ion	Ratio	Lower	Upper
45	100		
43	22.4	16.6	24.8
59	3.5	2.4	3.6



#26
 Methyl Ethyl Ketone
 Conc: 8S 0.434 ppbv
 RT: 7.322 min Scan# 335
 Delta R.T. 0.016 min
 Lab File: 0319_15.D
 Acq: 19 Mar 2022 3:11 pm

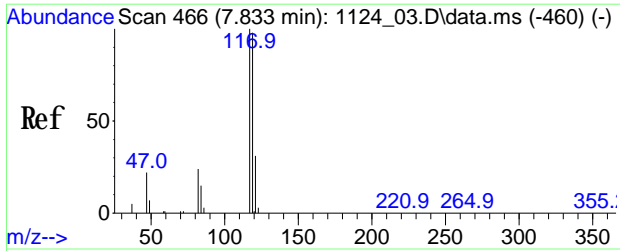
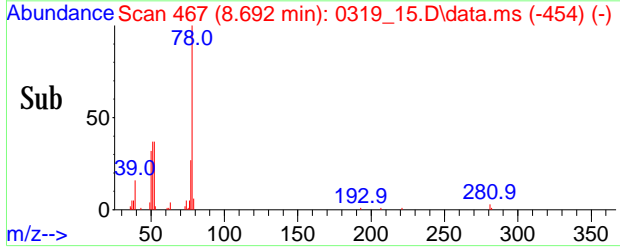
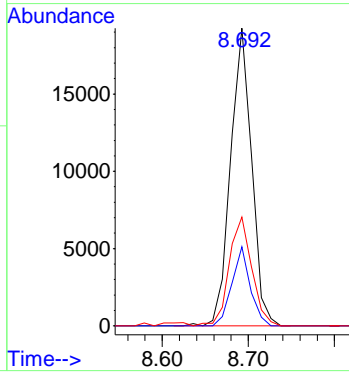
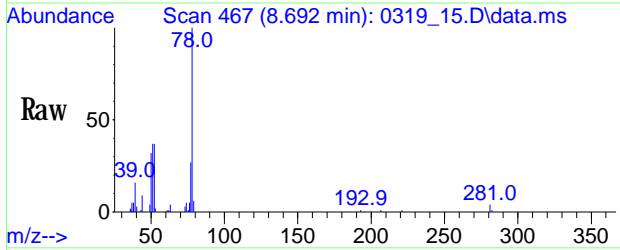
Tgt Ion	Ratio	Lower	Upper
43	100		
72	9.6	11.1	16.7#
57	8.5	6.0	9.0





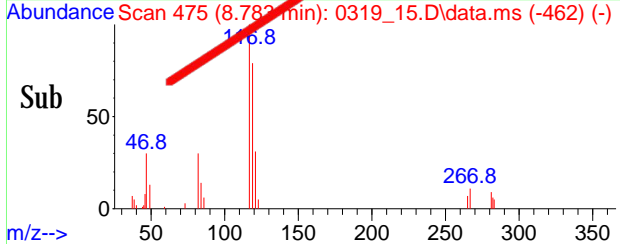
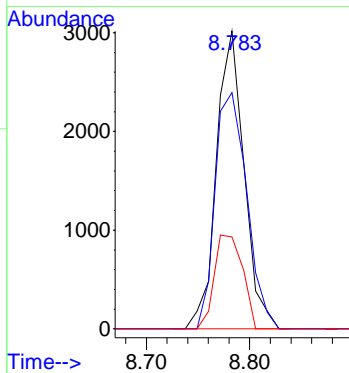
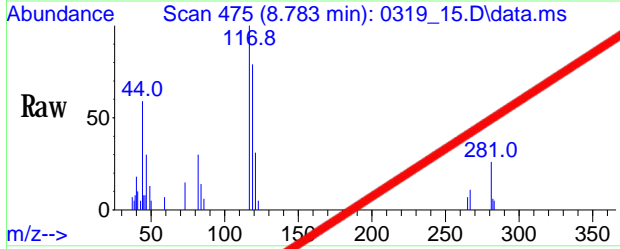
#34
Benzene
Conc: 8S 0.456 ppbv
RT: 8.692 min Scan# 467
Delta R.T. 0.002 min
Lab File: 0319_15.D
Acq: 19 Mar 2022 3:11 pm

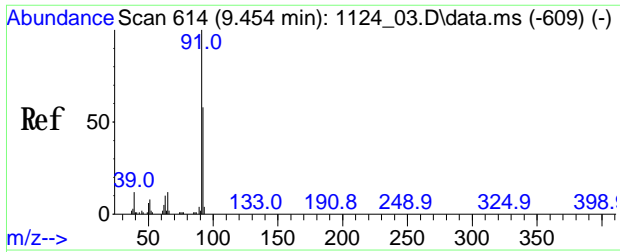
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.2	28.8
51	39.2	24.7	37.1#



#35
Carbon Tetrachloride
Conc: 8S Below Cal
RT: 8.783 min Scan# 475
Delta R.T. 0.002 min
Lab File: 0319_15.D
Acq: 19 Mar 2022 3:11 pm

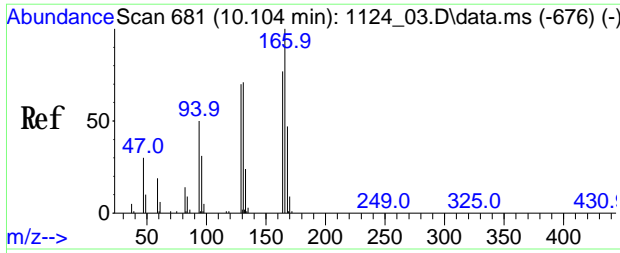
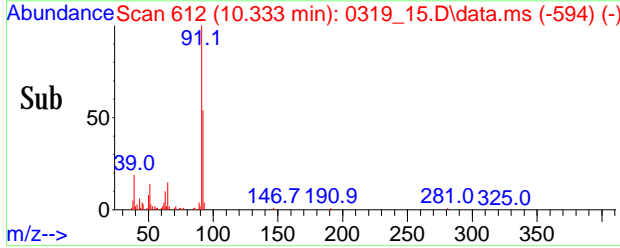
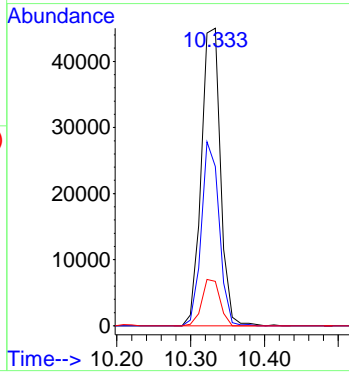
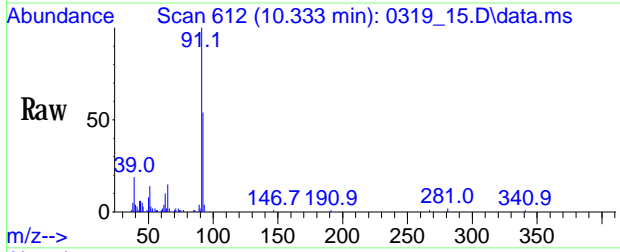
Tgt Ion	Ratio	Lower	Upper
117	100		
119	90.6	77.5	117.5
121	32.1	10.7	50.7





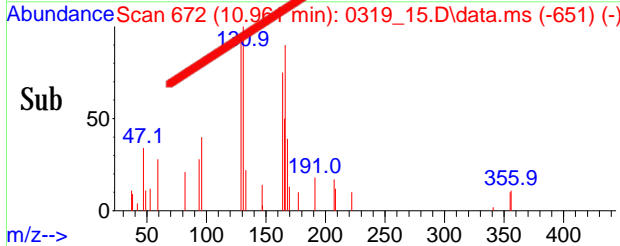
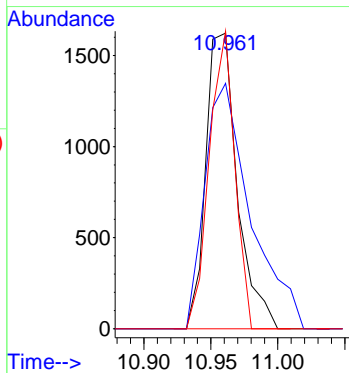
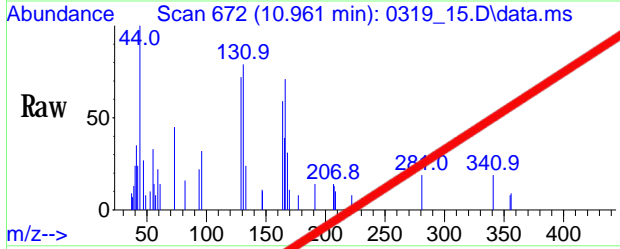
#49
 Toluene
 Conc: 8S 0.979 ppbv
 RT: 10.333 min Scan# 612
 Delta R.T. 0.002 min
 Lab File: 0319_15.D
 Acq: 19 Mar 2022 3:11 pm

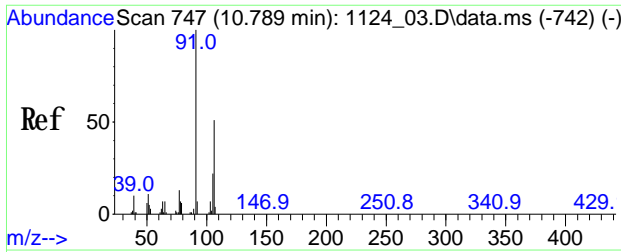
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	81567		
92	57.3	43.9	65.9	
65	14.7	10.2	15.2	



#53
 Tetrachloroethene
 Conc: 8S Below Cal
 RT: 10.961 min Scan# 672
 Delta R.T. 0.002 min
 Lab File: 0319_15.D
 Acq: 19 Mar 2022 3:11 pm

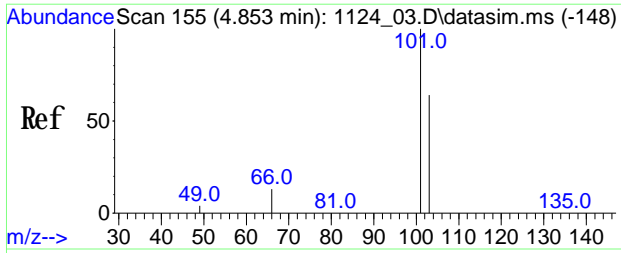
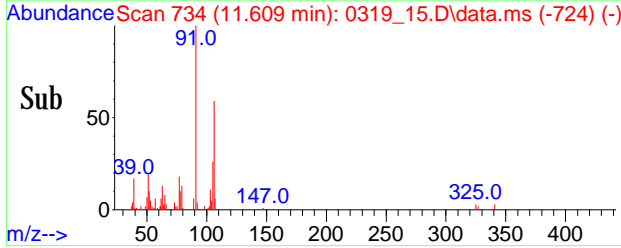
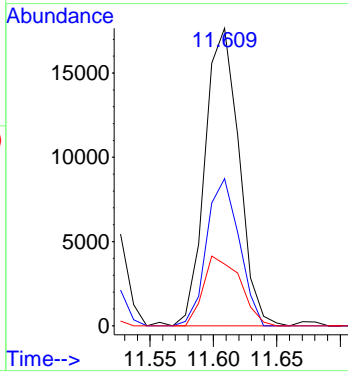
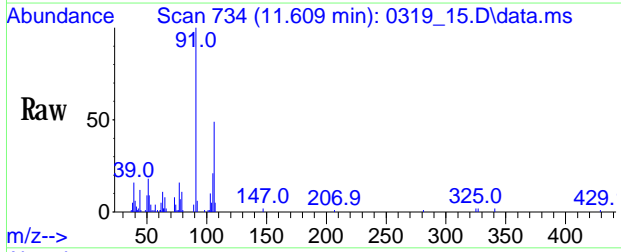
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	2662		
164	120.0	60.0	90.0#	
129	81.4	59.0	88.4	





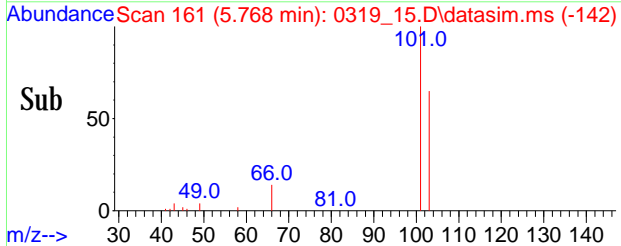
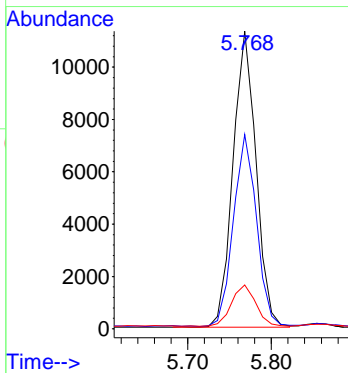
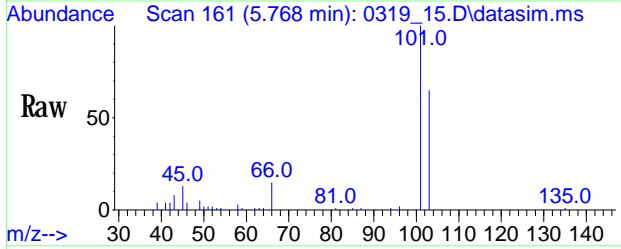
#58
 m p-Xylene
 Conc: 8S 0.406 ppbv
 RT: 11.609 min Scan# 734
 Delta R.T. 0.003 min
 Lab File: 0319_15.D
 Acq: 19 Mar 2022 3:11 pm

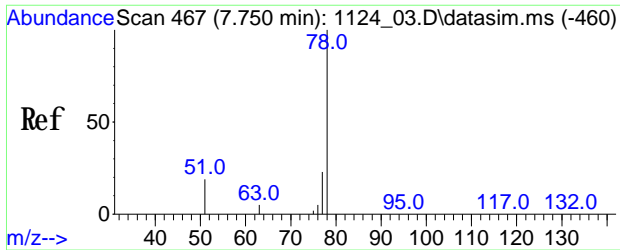
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	32992		
106	47.4	39.8	59.8	
105	25.4	19.9	29.9	



#85
 Trichlorofluoromethane (sim)
 Conc: 8S 0.274 ppbv
 RT: 5.768 min Scan# 161
 Delta R.T. -0.000 min
 Lab File: 0319_15.D
 Acq: 19 Mar 2022 3:11 pm

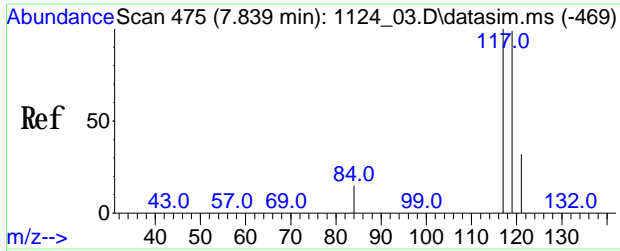
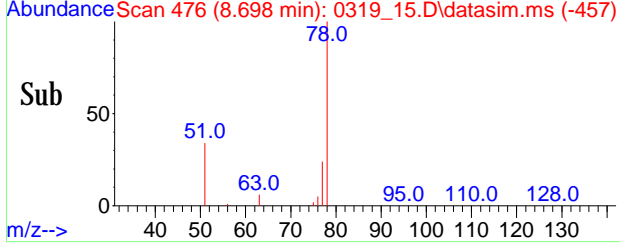
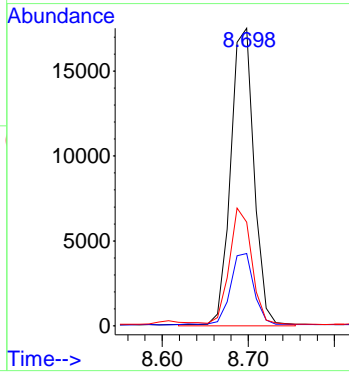
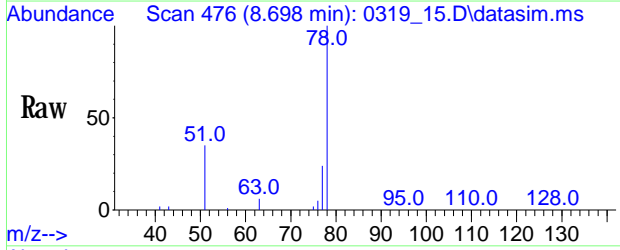
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	21682		
103	65.0	51.2	76.8	
66	14.7	13.5	13.5#	





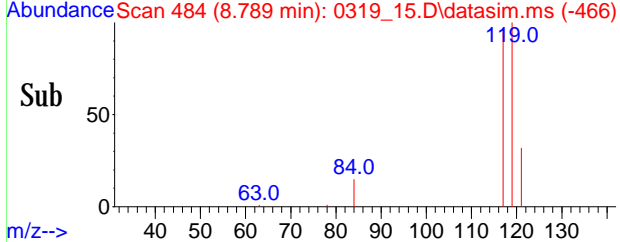
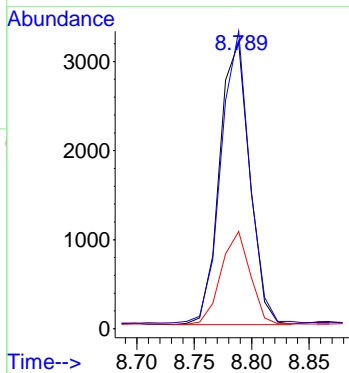
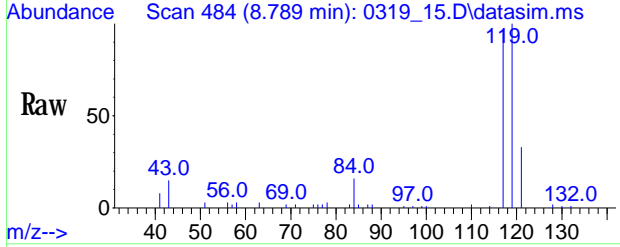
#88
 Benzene(sim)
 Conc: 8S 0.451 ppbv
 RT: 8.692 min Scan# 476
 Delta R.T. 0.002 min
 Lab File: 0319_15.D
 Acq: 19 Mar 2022 3:11 pm

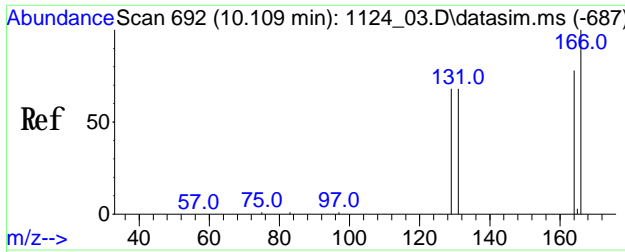
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.2	28.8
51	39.2	24.7	37.1#



#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.083 ppbv
 RT: 8.789 min Scan# 484
 Delta R.T. 0.002 min
 Lab File: 0319_15.D
 Acq: 19 Mar 2022 3:11 pm

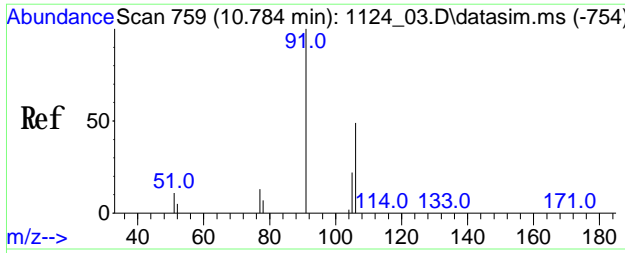
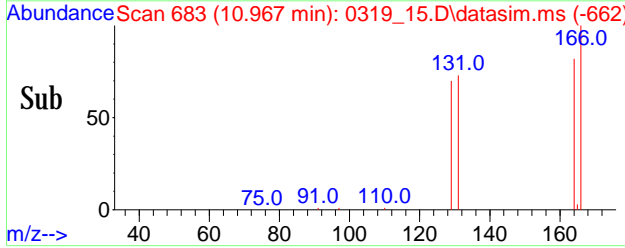
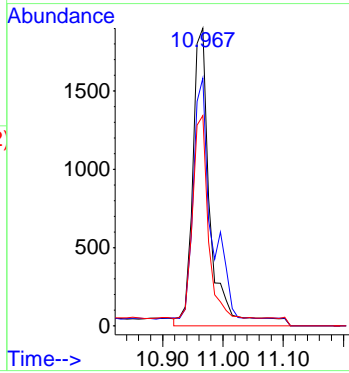
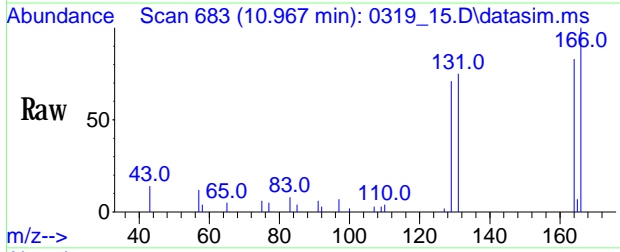
Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.1	76.2	114.4
121	32.0	23.9	35.9





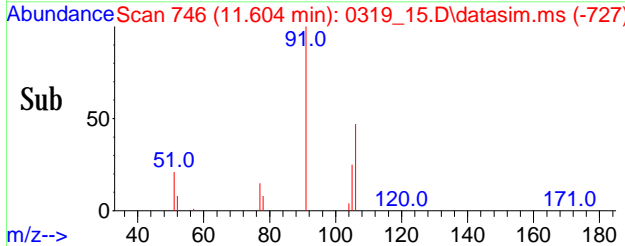
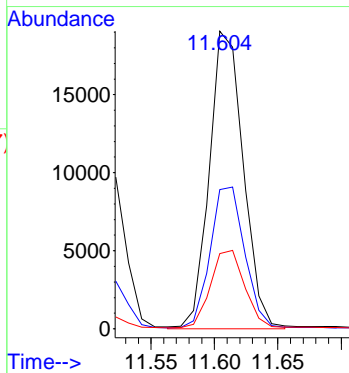
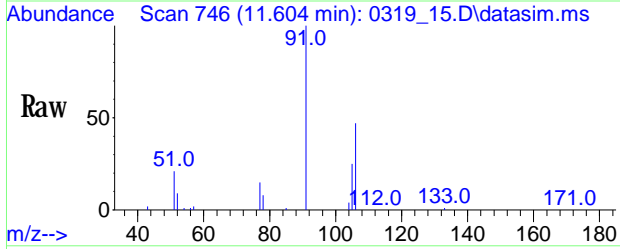
#105
 Tetrachloroethene(sim)
 Conc: 8S 0.060 ppbv
 RT: 10.967 min Scan# 683
 Delta R.T. 0.002 min
 Lab File: 0319_15.D
 Acq: 19 Mar 2022 3:11 pm

Tgt Ion:	166	Resp:	3853
Ion Ratio	100	Lower	Upper
166	100		
164	82.6	59.0	99.0
129	60.0	54.3	94.3



#108
 m-p-Xylene(sim)
 Conc: 8S 0.400 ppbv
 RT: 11.609 min Scan# 746
 Delta R.T. 0.003 min
 Lab File: 0319_15.D
 Acq: 19 Mar 2022 3:11 pm

Tgt Ion:	91	Resp:	32992
Ion Ratio	100	Lower	Upper
91	100		
106	47.4	44.8	54.8
105	25.4	19.9	29.9



Response Factor Report CHEM20

Method Path : H:\AIR2022\CHEM20\Methods\
 Method File : 20_AIR_0317.M
 Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 18 08:42:58 2022
 Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,q,qf) display calculated conc and corr. coefficient.)
 .035=0317_05.D 0.05=0317_06.D 0.10=0317_09.D 0.2=0317_10.D 0.5=0317_11.D 1.0=0317_16.D 2.5=0317_12.D 5.0=0317_13.D
 10=0317_17.D 25=0317_14.D 40=0317_15.D 0.02=0317_04.D 0.01=0317_03.D

Compound	.035	0.05	0.10	0.2	0.5	1.0	2.5	5.0	10	25	40	0.02	0.01	Avg	%RSD
1) Int Bromochloromethane	-----ISTD-----														
2) Propylene	1.445	1.410	1.421	1.281	1.519	1.400	0.682							1.308	21.80
3) Dichlorodifluo...	2.699	2.583	2.624	2.620	3.012	2.621	2.638	2.605						2.675	5.23
4) Chloromethane	2.019	1.726	1.733	1.624	1.880	1.658	1.630	1.650						1.740	8.08
5) 1,2-Dichlorote...	2.472	2.352	2.713	2.463	2.783	2.468	2.419	2.503						2.522	5.88
6) Vinyl Chloride	1.389	1.312	1.376	1.276	1.463	1.320	1.298	1.347						1.348	4.48
7) 1,3-Butadiene	1.404	1.278	1.451	1.234	1.456	1.322	1.318	1.350						1.352	5.90
8) Brommethane	1.039	0.874	0.919	0.846	0.987	0.864	0.866	0.890						0.911	7.48
9) Chloroethane	0.616	0.551	0.577	0.504	0.581	0.521	0.522	0.541						0.551	6.80
11) Ethanol		0.869	0.862	0.746	0.873	0.756	0.719	0.763						0.799	8.35
12) Acetone	3.481	2.920	2.841	2.510	2.861	2.559	2.541	2.588						2.788	11.64
13) Trichlorofluor...	2.981	2.717	2.840	2.772	3.129	2.804	2.806	2.808						2.857	4.66
14) Isopropylalcohol	3.676	3.120	3.630	3.216	3.817	3.388	3.224	3.361						3.429	7.32
15) Acrylonitrile	1.468	1.355	1.358	1.392	1.536	1.421	1.381	1.450						1.420	4.38
16) 1,1-Dichloroet...	2.293	2.170	2.381	2.172	2.492	2.344	2.336	2.354						2.318	4.63
17) Methylene Chlo...		2.169	2.331	2.175	2.472	2.222	2.200	2.193						2.252	4.95
20) Carbon Disulfide	2.643	2.559	2.684	2.559	2.893	2.690	2.677	2.732						2.680	3.96
21) Trichlorotrifl...	2.254	2.107	2.317	2.092	2.367	2.153	2.146	2.151						2.198	4.62
22) Trans-1,2-Dich...	1.987	1.886	2.054	1.959	2.229	2.123	2.155	2.217						2.076	6.04
23) 1,1-Dichloroet...	2.333	2.256	2.437	2.339	2.680	2.447	2.407	2.456						2.419	5.21
24) Methyl tert-bu...	2.084	1.996	2.253	2.032	2.527	2.402	2.419	2.501						2.277	9.46
26) Methyl Ethyl K...	3.420	3.229	3.684	3.343	4.061	3.673	3.774	3.803						3.623	7.58
27) Cis-1,2-Dichlo...		1.762	2.006	1.805	2.107	2.033	2.047	2.121						1.983	7.19
28) Hexane	2.108	1.896	2.332	2.209	2.749	2.590	2.633	2.698						2.402	12.99
29) Chloroform	2.230	2.092	2.244	2.137	2.465	2.255	2.240	2.283						2.243	4.92
30) Ethyl acetate	0.447	0.425	0.475	0.428	0.525	0.481	0.471	0.490						0.468	7.13
31) Tetrahydrofuran	1.783	1.490	1.894	1.719	2.166	2.057	2.116	2.166						1.924	12.78
32) 1,2-Dichloroet...	1.927	1.798	1.909	1.905	2.130	1.950	1.999	2.000						1.952	4.93
33) 1,1,1-Trichlor...	2.308	2.357	2.351	2.249	2.631	2.356	2.373	2.720						2.418	6.84
34) Benzene	2.541	2.514	2.679	2.590	3.047	2.907	2.932	2.996						2.776	7.84
35) Carbon Tetrach...	2.448	2.394	2.645	2.532	2.944	2.623	2.665	2.700						2.619	6.49
36) Cyclohexane		1.320	1.148	1.063	1.208	1.106	1.126	1.176						1.164	7.17
37) Int 1,4-Difluorobenzene	-----ISTD-----														
38) 1,2-dichloropr...	0.462	0.445	0.473	0.436	0.497	0.462	0.454	0.460						0.461	4.00
39) Bromdichlorom...	0.689	0.658	0.692	0.651	0.722	0.658	0.648	0.647						0.671	4.04
40) Trichloroethene	0.387	0.380	0.426	0.404	0.448	0.404	0.391	0.385						0.403	5.79
42) 1,4-Dioxane	0.141	0.128	0.169	0.155	0.182	0.168	0.155	0.172						0.159	11.20
44) Heptane	0.766	0.735	0.925	0.910	1.059	1.002	0.978	0.992						0.921	12.50
45) cis-1,3-Dichlo...	0.414	0.364	0.437	0.417	0.497	0.468	0.473	0.479						0.444	9.91

Response Factor Report CHEM20

Method Path : H:\AIR2022\CHEM20\Methods\
 Method File : 20_AIR_0317.M
 Title : VOA Standards for 5 point calibration

46)	4-Methyl-2-pen...	0.993	1.026	1.227	1.155	1.346	1.274	1.249	1.238	1.189	10.34
47)	trans-1,3-Dich...	0.327	0.343	0.405	0.378	0.448	0.437	0.449	0.462	0.406	12.70
48)	1,1,2-Trichlor...	0.360	0.349	0.370	0.354	0.395	0.364	0.360	0.358	0.364	3.92
49)	Toluene	0.853	0.821	0.996	0.925	1.080	1.049	1.055	1.076	0.982	10.50
50)	Dibromchlorom...	0.684	0.696	0.762	0.714	0.807	0.762	0.844	0.871	0.768	8.94
51)	2-Hexanone (MBK)	0.982	0.947	1.158	1.058	1.280	1.341	1.331	1.179	1.160	13.20
52)	1,2-Dibrometh...	0.522	0.505	0.566	0.541	0.604	0.574	0.570	0.593	0.559	6.09
53)	Tetrachloroethene	0.517	0.516	0.571	0.531	0.608	0.552	0.548	0.548	0.549	5.53

54)	Int Chlorobenzene-d5	-----ISTD-----										
55)	1,1,1,2-Tetrac...	1.070	1.043	1.042	1.020	1.110	0.961	0.879	0.807	0.992	10.35	
56)	Chlorobenzene	1.651	1.655	1.784	1.669	1.837	1.626	1.466	1.402	1.636	8.89	
57)	Ethylbenzene	2.375	2.153	2.135	2.380	2.381	2.817	2.595	2.365	2.261	2.385	8.93
58)	m p-Xylene	1.993	1.660	1.674	1.624	2.028	2.348	2.104	1.918	1.813	1.907	12.56
59)	Bromform	1.388	1.287	1.419	1.366	1.506	1.376	1.276	1.232	1.356	6.51	
60)	Styrene	1.011	1.049	1.373	1.349	1.632	1.544	1.439	1.400	1.350	16.18	
61)	1,1,2,2-Tetrac...	1.746	1.561	1.770	1.664	1.792	1.591	1.454	1.370	1.618	9.46	
62)	o-Xylene	1.841	1.684	1.735	2.144	2.118	2.430	2.131	1.982	1.903	1.996	11.77
63)	Surr% Bromfluorob...	1.253	1.312	1.308	1.348	1.336	1.292	1.258	1.169	1.284	4.46	
65)	Isopropylbenzene	2.979	2.800	3.008	2.982	3.393	2.990	2.754	2.590	2.937	8.06	
67)	4-Ethyltoluene	2.595	2.574	3.261	3.378	3.887	3.278	3.167	2.921	3.132	13.83	
68)	1,3,5-Trimethy...	1.662	1.920	2.344	2.365	2.671	2.545	2.224	2.191	2.240	14.55	
69)	1,2,4-Trimethy...	1.857	2.000	2.513	2.621	3.066	2.724	2.546	2.412	2.467	15.70	
71)	Benzyl chloride	4.590	4.544	5.369	5.328	6.210	5.625	5.094	4.308	5.134	12.36	
72)	1,3-Dichlorobe...	1.262	1.370	1.712	1.675	1.911	1.824	1.767	1.670	1.649	13.48	
73)	1,4-Dichlorobe...	0.809	0.887	1.592	1.485	1.739	1.455	1.262	1.266	1.312	24.94	
74)	sec-Butylbenzene	3.050	3.010	3.791	3.867	4.336	3.773	3.533	3.255	3.577	12.72	
75)	4-Isopropyltol...	2.536	2.812	3.434	3.523	4.010	3.589	3.284	3.072	3.283	14.23	
76)	1,2-Dichlorobe...	1.422	1.376	1.720	1.660	1.866	1.692	1.598	1.504	1.605	10.22	
77)	n-Butylbenzene	1.995	1.944	2.717	2.691	3.193	2.907	2.777	2.613	2.604	16.51	
78)	1,2,4-Trichlor...	0.474	0.459	1.025	0.750	0.884	0.938	0.996	0.995	0.815	28.44	
80)	Hexachlorobuta...	1.607	1.521	1.734	1.729	1.764	1.508	1.424	1.325	1.576	10.12	

81)	int Bromchloromethane...	-----ISTD-----											
82)	1,2-Dichlorote...	2.496	2.416	2.397	2.244	2.148	2.533	2.276	2.514	2.524	2.546	2.409	5.86
83)	Vinyl Chloride...	1.291	1.218	1.427	1.316	1.268	1.417	1.286	1.447	1.310	1.492	1.347	6.76
84)	Brommethane(sim)	0.989	0.902	0.961	0.943	0.798	0.858	0.782	0.893	0.969	0.869	0.897	7.92
85)	Trichlorofluor...	2.522	2.545	3.088	2.849	2.738	2.924	2.782	3.114	2.535	2.706	2.780	7.78
86)	1,2-Dichloroet...	1.538	1.523	1.777	1.749	1.642	1.784	1.763	1.928	1.626	1.478	1.681	8.49
87)	1,1,1-Trichlor...	2.138	2.138	2.583	2.330	2.243	2.447	2.347	2.674	2.124	2.247	2.327	8.19
88)	Benzene(sim)	2.689	2.573	2.735	2.306	2.296	2.501				2.871	2.567	8.44
89)	Carbon Tetrach...	2.398	2.341	2.689	2.465	2.393	2.603	2.505		2.208	2.421	2.447	5.79
90)	1,1-Dichloroet...	2.138	2.049	2.215	2.081	1.982	2.223	2.007	2.256	1.831	2.299	2.108	6.90
91)	Trichlorotripl...	1.893	1.979	2.360	2.198	2.118	2.248	2.128	2.369	1.970	2.042	2.131	7.68
92)	Trans-1,2-Dich...	1.683	1.752	1.881	1.803	1.722	1.917	1.811	2.017	1.981	1.663	1.823	6.74
93)	1,1-Dichloroet...	2.090	2.098	2.549	2.358	2.303	2.510	2.338	2.668	2.132	2.341	2.339	8.39
94)	Cis-1,2-Dichlo...	1.551	1.504	1.843	1.710	1.609	1.873	1.668	1.907	1.607	1.501	1.677	9.02
95)	Chloroform(sim)	2.049	2.043	2.480	2.229	2.144	2.289	2.176	2.461	2.124	2.116	2.211	7.04

96)	int 1,4-Difluorobenzen...	-----ISTD-----									
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Response Factor Report CHEM20

Method Path : H:\AIR2022\CHEM20\Methods\ Method File : 20_AIR_0317.M Title : VOA Standards for 5 point calibration													
97)	1,2-dichloropr...	0.501	0.480	0.568	0.507	0.480	0.523	0.487	0.548	0.523	0.649	0.527	9.83
98)	Bromdichlorom...	0.679	0.580	0.825	0.689	0.660	0.692	0.652	0.722	0.564	0.927	0.699	15.46
99)	Trichloroethen...	0.432	0.427	0.479	0.440	0.422	0.458	0.437	0.491	0.465	0.472	0.452	5.31
100)	1,4-Dioxane(sim)			0.164	0.141	0.128	0.169	0.155	0.182			0.156	12.55
101)	cis-1,3-Dichlo...	0.405	0.381	0.487	0.434	0.421	0.493	0.460		0.409	0.493	0.442	9.58
102)	1,1,2-Trichlor...	0.353	0.328	0.352	0.360	0.349	0.370	0.354	0.395	0.240	0.392	0.349	12.40
103)	Dibromchlorom...	0.815	0.785	0.851	0.777	0.761	0.831	0.793		0.879	1.073	0.841	11.28
104)	1,2-Dibrometh...	0.427	0.504	0.563	0.522	0.505	0.566	0.541	0.604	0.512	0.534	0.528	8.98
105)	Tetrachloroeth...	0.911	0.904	0.636	0.607	0.605	0.657	0.621	0.693	0.634	0.982	1.025	22.06
106)	int Chlorobenze-d5(sim)	-----ISTD-----											
107)	Bromform(sim)	1.649	1.606	1.704	1.574	1.518	1.668	1.581		1.635	1.862	1.644	6.01
108)	m p-Xylene(sim)	1.816	1.827	1.993	1.660	1.674	2.044	2.038	2.357	1.940	1.988	1.934	10.57
109)	1,1,2,2-Tetrac...	1.923	1.928	1.923	1.781	1.723	1.872	1.788	1.965	1.942	2.089	1.893	5.62
112)	qfi Benzyl chlorid...	0.025	0.033	0.089	0.167	0.423	1.204	2.446		0.013	0.008	Coef R2	0.99
113)	1,3-Dichlorobe...	1.374	1.345	1.558	1.435	1.497	1.966	1.896	2.179	1.426	2.029	1.670	18.70
114)	qfi 1,4-Dichlorobe...	0.026	0.040	0.085	0.146	0.386	1.226	2.449		0.021	0.015	Coef R2	0.98@
115)	sec-Butylbenze...	3.243	3.182	3.293	3.115	3.358	4.030	4.122	4.619	3.131	2.834	3.493	16.19
116)	4-Isopropyltol...	2.325	2.691	2.958	2.544	2.812	3.434	3.527	4.010	2.011		2.924	21.66
117)	1,2-Dichlorobe...	1.546	1.496	1.653	1.545	1.564	1.966	1.846	2.091	1.671	2.056	1.743	13.02
118)	n-Butylbenzene...	1.498	1.707	2.025	1.995	1.944	2.717	2.691				2.082	22.23
119)	qfi 1,2,4-Trichlor...	0.040	0.068	0.146	0.226	0.425	1.017			0.018		Coef R2	0.99
121)	Hexachlorobuta...	2.070	2.333	2.281	2.077	2.037	2.242	2.206		1.688	0.721	1.962	25.63

(#, \$, @)=Out of Range l=linear lf=linear(0,0) q=Quadratic qf=Quadratic(0,0)

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM20
 Heated Purge (Y/N): Y
 GC Column: _____

Client: FPMGROUP
 SDG No.: GCK90290
 Calibration Date From: 03/17/22 20:23
 Calibration Date Thru: 03/18/22 00:17
 Method File: 20_AIR_0317.M

Laboratory File Ids

COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	% RSD
Propylene						1.445	1.410	1.421	1.281	1.519	1.400	0.682	1.308	21.80
Dichlorodifluoromethane						2.699	2.583	2.624	2.620	3.012	2.621	2.638	2.675	5.23
Chloromethane						2.019	1.726	1.733	1.624	1.880	1.658	1.630	1.740	8.08
1,2-Dichlorotetrafluoroethane						2.472	2.352	2.713	2.463	2.783	2.468	2.419	2.522	5.88
Vinyl Chloride						1.389	1.312	1.376	1.276	1.463	1.320	1.298	1.348	4.48
1,3-Butadiene						1.404	1.278	1.451	1.234	1.456	1.322	1.318	1.352	5.90
Bromomethane						1.039	0.874	0.919	0.846	0.987	0.864	0.866	0.911	7.48
Chloroethane						0.616	0.551	0.577	0.504	0.581	0.521	0.522	0.551	6.80
Ethanol							0.869	0.862	0.746	0.873	0.756	0.719	0.799	8.35
Acetone						3.481	2.920	2.841	2.510	2.861	2.559	2.541	2.788	11.64
Trichlorofluoromethane						2.981	2.717	2.840	2.772	3.129	2.804	2.806	2.857	4.66
Isopropylalcohol						3.676	3.120	3.630	3.216	3.817	3.388	3.224	3.429	7.32
Acrylonitrile						1.468	1.355	1.358	1.392	1.536	1.421	1.381	1.420	4.38
1,1-Dichloroethene						2.293	2.170	2.381	2.172	2.492	2.344	2.336	2.318	4.63
Methylene Chloride							2.169	2.331	2.175	2.472	2.222	2.200	2.252	4.95
Carbon Disulfide						2.643	2.559	2.684	2.559	2.893	2.690	2.677	2.680	3.96
Trichlorotrifluoroethane						2.254	2.107	2.317	2.092	2.367	2.153	2.146	2.198	4.62
Trans-1,2-Dichloroethene						1.987	1.886	2.054	1.959	2.229	2.123	2.155	2.076	6.04
1,1-Dichloroethane						2.333	2.256	2.437	2.339	2.680	2.447	2.407	2.419	5.21
Methyl tert-butyl ether(MTBE)						2.084	1.996	2.253	2.032	2.527	2.402	2.419	2.277	9.46
Methyl Ethyl Ketone						3.420	3.229	3.684	3.343	4.061	3.673	3.774	3.623	7.58
Cis-1,2-Dichloroethene							1.762	2.006	1.805	2.107	2.033	2.047	1.983	7.19
Hexane						2.108	1.896	2.332	2.209	2.749	2.590	2.633	2.402	12.99
Chloroform						2.230	2.092	2.244	2.137	2.465	2.255	2.240	2.243	4.92
Ethyl acetate						0.447	0.425	0.475	0.428	0.525	0.481	0.471	0.468	7.13

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM20
 Heated Purge (Y/N): Y
 GC Column: _____

Client: FPMGROUP
 SDG No.: GCK90290
 Calibration Date From: 03/17/22 20:23
 Calibration Date Thru: 03/18/22 00:17
 Method File: 20_AIR_0317.M

Laboratory File Ids

COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	% RSD
Tetrahydrofuran						1.783	1.490	1.894	1.719	2.166	2.057	2.116	1.924	12.78
1,2-Dichloroethane						1.927	1.798	1.909	1.905	2.130	1.950	1.999	1.952	4.93
1,1,1-Trichloroethane						2.308	2.357	2.351	2.249	2.631	2.356	2.373	2.418	6.84
Benzene						2.541	2.514	2.679	2.590	3.047	2.907	2.932	2.776	7.84
Carbon Tetrachloride						2.448	2.394	2.645	2.532	2.944	2.623	2.665	2.619	6.49
Cyclohexane							1.320	1.148	1.063	1.208	1.106	1.126	1.164	7.17
1,2-dichloropropane						0.462	0.445	0.473	0.436	0.497	0.462	0.454	0.461	4.00
Bromodichloromethane						0.689	0.658	0.692	0.651	0.722	0.658	0.648	0.671	4.04
Trichloroethene						0.387	0.380	0.426	0.404	0.448	0.404	0.391	0.403	5.79
1,4-Dioxane						0.141	0.128	0.169	0.155	0.182	0.168	0.155	0.159	11.20
Heptane						0.766	0.735	0.925	0.910	1.059	1.002	0.978	0.921	12.50
cis-1,3-Dichloropropene						0.414	0.364	0.437	0.417	0.497	0.468	0.473	0.444	9.91
4-Methyl-2-pentanone(MIBK)						0.993	1.026	1.227	1.155	1.346	1.274	1.249	1.189	10.34
trans-1,3-Dichloropropene						0.327	0.343	0.405	0.378	0.448	0.437	0.449	0.406	12.70
1,1,2-Trichloroethane						0.360	0.349	0.370	0.354	0.395	0.364	0.360	0.364	3.92
Toluene						0.853	0.821	0.996	0.925	1.080	1.049	1.055	0.982	10.50
Dibromochloromethane						0.684	0.696	0.762	0.714	0.807	0.762	0.844	0.768	8.94
2-Hexanone(MBK)						0.982	0.947	1.158	1.058	1.280	1.341	1.331	1.160	13.20
1,2-Dibromoethane(EDB)						0.522	0.505	0.566	0.541	0.604	0.574	0.570	0.559	6.09
Tetrachloroethene						0.517	0.516	0.571	0.531	0.608	0.552	0.548	0.549	5.53
1,1,1,2-Tetrachloroethane						1.070	1.043	1.042	1.020	1.110	0.961	0.879	0.992	10.35
Chlorobenzene						1.651	1.655	1.784	1.669	1.837	1.626	1.466	1.636	8.89
Ethylbenzene					2.375	2.153	2.135	2.380	2.381	2.817	2.595	2.365	2.385	8.93
m,p-Xylene					1.993	1.660	1.674	1.624	2.028	2.348	2.104	1.918	1.907	12.56
Bromoform						1.388	1.287	1.419	1.366	1.506	1.376	1.276	1.356	6.51

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM20
 Heated Purge (Y/N): Y
 GC Column: _____

Client: FPMGROUP
 SDG No.: GCK90290
 Calibration Date From: 03/17/22 20:23
 Calibration Date Thru: 03/18/22 00:17
 Method File: 20_AIR_0317.M

Laboratory File Ids

COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	% RSD
Styrene						1.011	1.049	1.373	1.349	1.632	1.544	1.439	1.350	16.18
1,1,2,2-Tetrachloroethane						1.746	1.561	1.770	1.664	1.792	1.591	1.454	1.618	9.46
o-Xylene					1.841	1.684	1.735	2.144	2.118	2.430	2.131	1.982	1.996	11.77
Isopropylbenzene						2.979	2.800	3.008	2.982	3.393	2.990	2.754	2.937	8.06
4-Ethyltoluene						2.595	2.574	3.261	3.378	3.887	3.278	3.167	3.132	13.83
1,3,5-Trimethylbenzene						1.662	1.920	2.344	2.365	2.671	2.545	2.224	2.240	14.55
1,2,4-Trimethylbenzene						1.857	2.000	2.513	2.621	3.066	2.724	2.546	2.467	15.70
Benzyl chloride						4.590	4.544	5.369	5.328	6.210	5.625	5.094	5.134	12.36
1,3-Dichlorobenzene						1.262	1.370	1.712	1.675	1.911	1.824	1.767	1.649	13.48
1,4-Dichlorobenzene						0.809	0.887	1.592	1.485	1.739	1.455	1.262	1.312	24.94
sec-Butylbenzene						3.050	3.010	3.791	3.867	4.336	3.773	3.533	3.577	12.72
4-Isopropyltoluene						2.536	2.812	3.434	3.523	4.010	3.589	3.284	3.283	14.23
1,2-Dichlorobenzene						1.422	1.376	1.720	1.660	1.866	1.692	1.598	1.605	10.22
n-Butylbenzene						1.995	1.944	2.717	2.691	3.193	2.907	2.777	2.604	16.51
1,2,4-Trichlorobenzene						0.474	0.459	1.025	0.750	0.884	0.938	0.996	0.815	28.44
Hexachlorobutadiene						1.607	1.521	1.734	1.729	1.764	1.508	1.424	1.576	10.12
1,2-Dichlorotetrafluoroethane(sim)	2.546	2.524	2.496	2.416	2.397	2.244	2.148	2.533	2.276	2.514			2.409	5.86
Vinyl Chloride(sim)	1.492	1.310	1.291	1.218	1.427	1.316	1.268	1.417	1.286	1.447			1.347	6.76
Bromomethane(sim)	0.869	0.969	0.989	0.902	0.961	0.943	0.798	0.858	0.782	0.893			0.897	7.92
Trichlorofluoromethane(sim)	2.706	2.535	2.522	2.545	3.088	2.849	2.738	2.924	2.782	3.114			2.780	7.78
1,2-Dichloroethane(sim)	1.478	1.626	1.538	1.523	1.777	1.749	1.642	1.784	1.763	1.928			1.681	8.49
1,1,1-Trichloroethane(sim)	2.247	2.124	2.138	2.138	2.583	2.330	2.243	2.447	2.347	2.674			2.327	8.19
Benzene(sim)			2.689	2.573	2.735	2.306	2.296	2.501					2.567	8.44
Carbon Tetrachloride(sim)	2.421	2.208	2.398	2.341	2.689	2.465	2.393	2.603	2.505				2.447	5.79
1,1-Dichloroethene(sim)	2.299	1.831	2.138	2.049	2.215	2.081	1.982	2.223	2.007	2.256			2.108	6.90

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM20
 Heated Purge (Y/N): Y
 GC Column: _____

Client: FPMGROUP
 SDG No.: GCK90290
 Calibration Date From: 03/17/22 20:23
 Calibration Date Thru: 03/18/22 00:17
 Method File: 20_AIR_0317.M

Laboratory File Ids

RRF1 <u>0317_03.D</u>	RRF2 <u>0317_04.D</u>	RRF3 <u>0317_05.D</u>	RRF4 <u>0317_06.D</u>	RRF5 <u>0317_09.D</u>	RRF6 <u>0317_10.D</u>
RRF7 <u>0317_11.D</u>	RRF8 <u>0317_16.D</u>	RRF9 <u>0317_12.D</u>	RRF10 <u>0317_13.D</u>	RRF11 <u>0317_17.D</u>	RRF12 <u>0317_14.D</u>

COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	% RSD
Trichlorotrifluoroethane(sim)	2.042	1.970	1.893	1.979	2.360	2.198	2.118	2.248	2.128	2.369			2.131	7.68
Trans-1,2-Dichloroethene(sim)	1.663	1.981	1.683	1.752	1.881	1.803	1.722	1.917	1.811	2.017			1.823	6.74
1,1-Dichloroethane(sim)	2.341	2.132	2.090	2.098	2.549	2.358	2.303	2.510	2.338	2.668			2.339	8.39
Cis-1,2-Dichloroethene(sim)	1.501	1.607	1.551	1.504	1.843	1.710	1.609	1.873	1.668	1.907			1.677	9.02
Chloroform(sim)	2.116	2.124	2.049	2.043	2.480	2.229	2.144	2.289	2.176	2.461			2.211	7.04
1,2-dichloropropane(sim)	0.649	0.523	0.501	0.480	0.568	0.507	0.480	0.523	0.487	0.548			0.527	9.83
Bromodichloromethane(sim)	0.927	0.564	0.679	0.580	0.825	0.689	0.660	0.692	0.652	0.722			0.699	15.46
Trichloroethene(sim)	0.472	0.465	0.432	0.427	0.479	0.440	0.422	0.458	0.437	0.491			0.452	5.31
1,4-Dioxane(sim)					0.164	0.141	0.128	0.169	0.155	0.182			0.156	12.55
cis-1,3-Dichloropropene(sim)	0.493	0.409	0.405	0.381	0.487	0.434	0.421	0.493	0.460				0.442	9.58
1,1,2-Trichloroethane(sim)	0.392	0.240	0.353	0.328	0.352	0.360	0.349	0.370	0.354	0.395			0.349	12.40
Dibromochloromethane(sim)	1.073	0.879	0.815	0.785	0.851	0.777	0.761	0.831	0.793				0.841	11.28
1,2-Dibromoethane(EDB)(sim)	0.534	0.512	0.427	0.504	0.563	0.522	0.505	0.566	0.541	0.604			0.528	8.98
Tetrachloroethene(sim)	1.025	0.982	0.911	0.904	0.636	0.607	0.605	0.657	0.621	0.693	0.634		0.752	22.06
Bromoform(sim)	1.862	1.635	1.649	1.606	1.704	1.574	1.518	1.668	1.581				1.644	6.01
m,p-Xylene(sim)	1.988	1.940	1.816	1.827	1.993	1.660	1.674	2.044	2.038	2.357			1.934	10.57
1,1,2,2-Tetrachloroethane(sim)	2.089	1.942	1.923	1.928	1.923	1.781	1.723	1.872	1.788	1.965			1.893	5.62
Benzyl chloride(sim) qfi	0.008	0.013	0.025	0.033	0.089	0.167	0.423	1.204	2.446				Coef R2	0.99
1,3-Dichlorobenzene(sim)	2.029	1.426	1.374	1.345	1.558	1.435	1.497	1.966	1.896	2.179			1.670	18.70
1,4-Dichlorobenzene(sim) qfi	0.015	0.021	0.026	0.040	0.085	0.146	0.386	1.226	2.449				Coef R2	0.98
sec-Butylbenzene(sim)	2.834	3.131	3.243	3.182	3.293	3.115	3.358	4.030	4.122	4.619			3.493	16.19
4-Isopropyltoluene(sim)		2.011	2.325	2.691	2.958	2.544	2.812	3.434	3.527	4.010			2.924	21.66
1,2-Dichlorobenzene(sim)	2.056	1.671	1.546	1.496	1.653	1.545	1.564	1.966	1.846	2.091			1.743	13.02
n-Butylbenzene(sim)			1.498	1.707	2.025	1.995	1.944	2.717	2.691				2.082	22.23
1,2,4-Trichlorobenzene(sim) qfi		0.018	0.040	0.068	0.146	0.226	0.425	1.017					Coef R2	0.99

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM20
 Heated Purge (Y/N): Y
 GC Column: _____

Client: FPMGROUP
 SDG No.: GCK90290
 Calibration Date From: 03/17/22 20:23
 Calibration Date Thru: 03/18/22 00:17
 Method File: 20_AIR_0317.M

Laboratory File Ids

RRF1	<u>0317_03.D</u>	RRF2	<u>0317_04.D</u>	RRF3	<u>0317_05.D</u>	RRF4	<u>0317_06.D</u>	RRF5	<u>0317_09.D</u>	RRF6	<u>0317_10.D</u>	RRF7	<u>0317_11.D</u>	RRF8	<u>0317_16.D</u>	RRF9	<u>0317_12.D</u>	RRF10	<u>0317_13.D</u>	RRF11	<u>0317_17.D</u>	RRF12	<u>0317_14.D</u>
COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	% RSD									
Hexachlorobutadiene(sim)	0.721	1.688	2.070	2.333	2.281	2.077	2.037	2.242	2.206				1.962	25.63									
% Bromofluorobenzene						1.253	1.312	1.308	1.348	1.336	1.292	1.258	1.284	4.46									

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed
 (l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero
 Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_03.D
 Acq On : 17 Mar 2022 5:39 pm
 Operator :
 Client ID : ICAL 0.01
 Lab ID : 0.01 (40cc-1)
 ALS Vial : 40 Sample Multiplier: 1

Quant Time: Mar 17 20:05:11 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 20:03:49 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.709	130	326063	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	1165160	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	555811	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	351093	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	1165160	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	555811	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	733749	0.000	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	0.00%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.210	41	1838	0.043	ppbv#	45
3) Dichlorodifluoromethane	4.297	85	734	0.008	ppbv#	1
4) Chloromethane	4.448	50	1997	0.035	ppbv	70
5) 1,2-Dichlorotetrafluor...	4.545	85	894	0.011	ppbv#	67
6) Vinyl Chloride	4.663	62	175	0.004	ppbv#	46
7) 1,3-Butadiene	4.782	54	534	0.012	ppbv#	32
8) Bromomethane	0.000	94	0	0.000	ppbv	0
9) Chloroethane	5.159	64	106	0.006	ppbv#	34
11) Ethanol	5.278	45	418	0.016	ppbv#	69
12) Acetone	5.655	43	7075	0.078	ppbv#	82
13) Trichlorofluoromethane	5.773	101	550	0.006	ppbv#	67
14) Isopropylalcohol	5.849	45	164	0.001	ppbv#	60
15) Acrylonitrile	5.978	53	462	0.010	ppbv#	17
16) 1,1-Dichloroethene	6.237	61	807	0.011	ppbv#	41
17) Methylene Chloride	6.306	49	1266	0.017	ppbv#	66
20) Carbon Disulfide	6.547	76	710	0.008	ppbv#	71
21) Trichlorotrifluoroethane	6.478	101	747	0.010	ppbv#	87
22) Trans-1,2-Dichloroethene	6.936	61	584	0.009	ppbv#	1
23) 1,1-Dichloroethane	7.070	63	686	0.009	ppbv	84
24) Methyl tert-butyl ethe...	7.110	73	403	0.005	ppbv#	33
26) Methyl Ethyl Ketone	7.464	43	73	0.001	ppbv#	70
27) Cis-1,2-Dichloroethene	7.605	61	527	0.008	ppbv#	46
28) Hexane	7.720	57	872	0.011	ppbv#	94
29) Chloroform	7.782	83	926	0.013	ppbv#	69
30) Ethyl acetate	0.000	61	0	0.000	ppbv	0
31) Tetrahydrofuran	0.000	42	0	0.000	ppbv	0
32) 1,2-Dichloroethane	8.241	62	519	0.008	ppbv#	1
33) 1,1,1-Trichloroethane	8.418	97	912	0.012	ppbv#	78
34) Benzene	8.681	78	1008	0.011	ppbv#	68
35) Carbon Tetrachloride	8.772	117	800	0.009	ppbv#	58
36) Cyclohexane	8.862	84	4823	0.127	ppbv#	43
38) 1,2-dichloropropane	9.168	63	908	0.017	ppbv#	53
39) Bromdichloromethane	9.270	83	1080	0.014	ppbv	95
40) Trichloroethene	9.281	130	608	0.013	ppbv#	54
42) 1,4-Dioxane	0.000	88	0	0.000	ppbv	0
44) Heptane	9.417	43	1067	0.010	ppbv#	80
45) cis-1,3-Dichloropropene	9.756	75	440	0.009	ppbv#	44
46) 4-Methyl-2-pentanone(M..	9.802	43	112	0.001	ppbv#	56
47) trans-1,3-Dichloropropene	10.051	75	303	0.006	ppbv#	22
48) 1,1,2-Trichloroethane	10.175	97	102	0.002	ppbv#	1
49) Toluene	10.322	91	1674	0.015	ppbv#	80
50) Dibromochloromethane	10.573	129	747	0.008	ppbv#	88

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_03.D
 Acq On : 17 Mar 2022 5:39 pm
 Operator :
 Client ID : ICAL 0.01
 Lab ID : 0.01 (40cc-1)
 ALS Vial : 40 Sample Multiplier: 1

Quant Time: Mar 17 20:05:11 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 20:03:49 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
51) 2-Hexanone (MBK)	0.000	43	0	0.000	ppbv	0
52) 1, 2-Dibromethane (EDB)	10.709	107	622	0.010	ppbv	100
53) Tetrachloroethene	10.951	166	1087	0.017	ppbv#	82
55) 1, 1, 1, 2-Tetrachloroethane	11.312	131	894	0.016	ppbv#	85
56) Chlorobenzene	11.332	112	1412	0.016	ppbv#	1
57) Ethylbenzene	11.517	91	1717	0.013	ppbv	79
58) m p-Xylene	11.609	91	2210	0.021	ppbv#	59
59) Bromform	11.701	173	779	0.010	ppbv#	88
60) Styrene	11.824	104	885	0.012	ppbv#	85
61) 1, 1, 2, 2-Tetrachloroethane	11.875	83	1258	0.014	ppbv#	92
62) o-Xylene	11.875	91	1215	0.011	ppbv	96
65) Isopropylbenzene	12.193	105	2518	0.015	ppbv#	80
67) 4-Ethyltoluene	12.552	105	1746	0.010	ppbv#	62
68) 1, 3, 5-Trimethylbenzene	12.593	105	1416	0.011	ppbv#	87
69) 1, 2, 4-Trimethylbenzene	12.850	105	747	0.005	ppbv#	92
71) Benzyl chloride	12.480	91	3063	0.011	ppbv#	83
72) 1, 3-Dichlorobenzene	12.973	146	820	0.009	ppbv#	16
73) 1, 4-Dichlorobenzene	13.004	146	1025	0.014	ppbv#	28
74) sec-Butylbenzene	13.014	105	1071	0.005	ppbv#	72
75) 4-Isopropyltoluene	13.106	119	273	0.001	ppbv#	48
76) 1, 2-Dichlorobenzene	13.229	146	1431	0.016	ppbv	93
77) n-Butylbenzene	13.373	91	280	0.002	ppbv#	37
78) 1, 2, 4-Trichlorobenzene	14.420	180	208	0.005	ppbv#	90
80) Hexachlorobutadiene	14.748	225	142	0.002	ppbv#	1
82) 1, 2-Dichlorotetrafluor...	4.545	85	894	0.011	ppbv#	67
83) Vinyl Chloride(sim)	4.669	62	524	0.011	ppbv	89
84) Bromomethane(sim)	5.035	94	305m	0.010	ppbv	0
85) Trichlorofluoromethane...	5.779	101	950	0.010	ppbv#	87
86) 1, 2-Dichloroethane(sim)	8.241	62	519	0.009	ppbv#	1
87) 1, 1, 1-Trichloroethane(...)	8.413	97	789	0.010	ppbv#	52
88) Benzene(sim)	8.681	78	1008	0.011	ppbv#	68
89) Carbon Tetrachloride(sim)	8.777	117	850	0.010	ppbv	96
90) 1, 1-Dichloroethene(sim)	6.237	61	807	0.011	ppbv#	41
91) Trichlorotrifluoroetha...	6.484	101	717	0.010	ppbv#	93
92) Trans-1, 2-Dichloroethe...	6.936	61	584	0.009	ppbv#	1
93) 1, 1-Dichloroethane(sim)	7.076	63	822	0.010	ppbv	98
94) Cis-1, 2-Dichloroethene...	7.605	61	527	0.009	ppbv#	46
95) Chloroform(sim)	7.788	83	743	0.010	ppbv#	68
97) 1, 2-dichloropropane(sim)	9.162	63	756	0.012	ppbv#	84
98) Bromdichloromethane(sim)	9.270	83	1080	0.013	ppbv	82
99) Trichloroethene(sim)	9.298	130	550	0.010	ppbv	98
100) 1, 4-Dioxane(sim)	0.000	88	0	0.000	ppbv	0
101) cis-1, 3-Dichloropropen...	9.762	75	575	0.011	ppbv	94
102) 1, 1, 2-Trichloroethane(...)	10.169	97	457m	0.011	ppbv	1
103) Dibromchloromethane(sim)	10.579	129	1250	0.013	ppbv#	77
104) 1, 2-Dibromethane(EDB)...	10.709	107	622	0.010	ppbv	100
105) Tetrachloroethene(sim)	10.967	166	1194	0.014	ppbv	98
107) Bromoform(sim)	11.697	173	1035	0.011	ppbv	98
108) m p-Xylene(sim)	11.609	91	2210	0.021	ppbv#	59
109) 1, 1, 2, 2-Tetrachloroeth...	11.871	83	1161m	0.011	ppbv	78
112) Benzyl chloride(sim)	12.948	91	528m	0.012	ppbv	59
113) 1, 3-Dichlorobenzene(sim)	12.968	146	1128	0.012	ppbv	96
114) 1, 4-Dichlorobenzene(sim)	13.009	146	891m	0.019	ppbv	28
115) sec-Butylbenzene(sim)	13.009	105	1575	0.008	ppbv	98
116) 4-Isopropyltoluene(sim)	13.102	119	310m	0.002	ppbv	48

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_03.D
 Acq On : 17 Mar 2022 5:39 pm
 Operator :
 Client ID : ICAL 0.01
 Lab ID : 0.01 (40cc-1)
 ALS Vial : 40 Sample Multiplier: 1

Quant Time: Mar 17 20:05:11 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 20:03:49 2022
 Response via : Initial Calibration

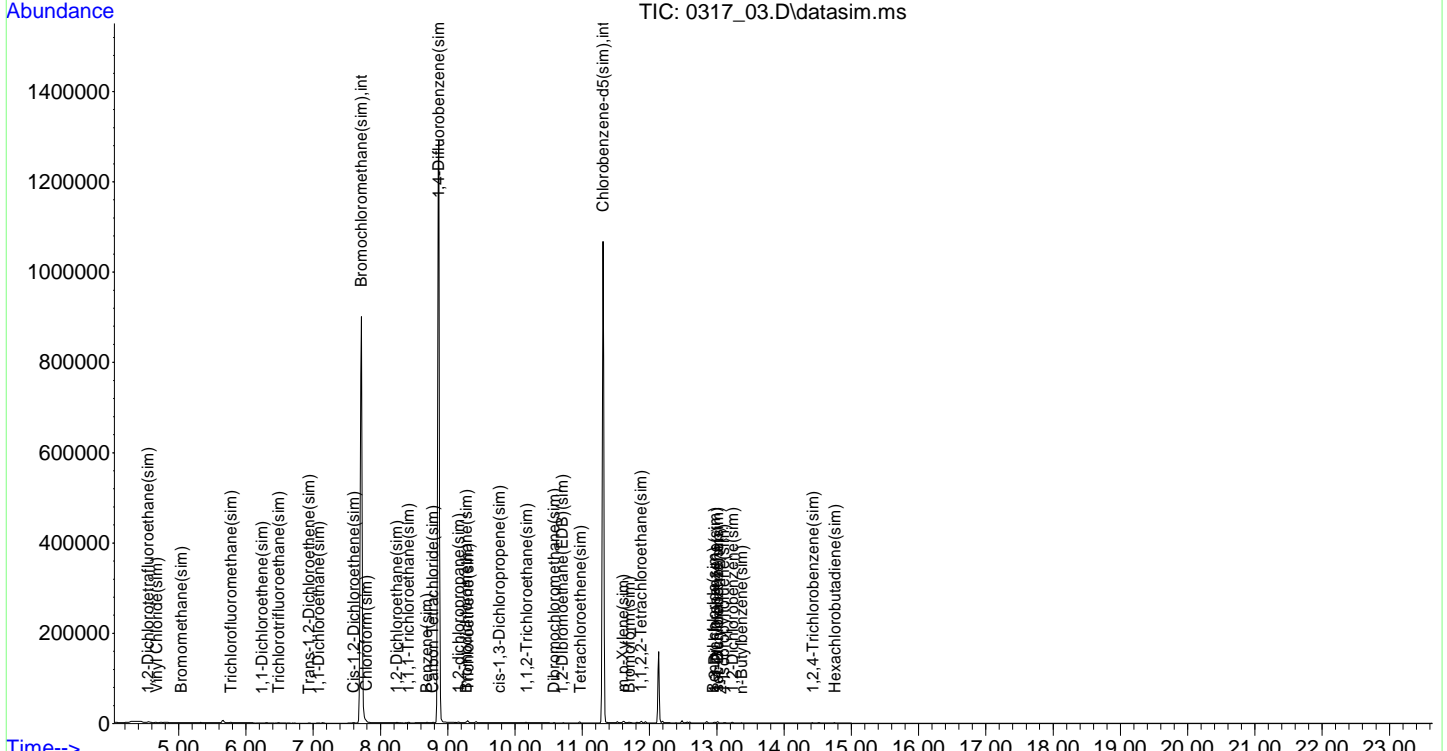
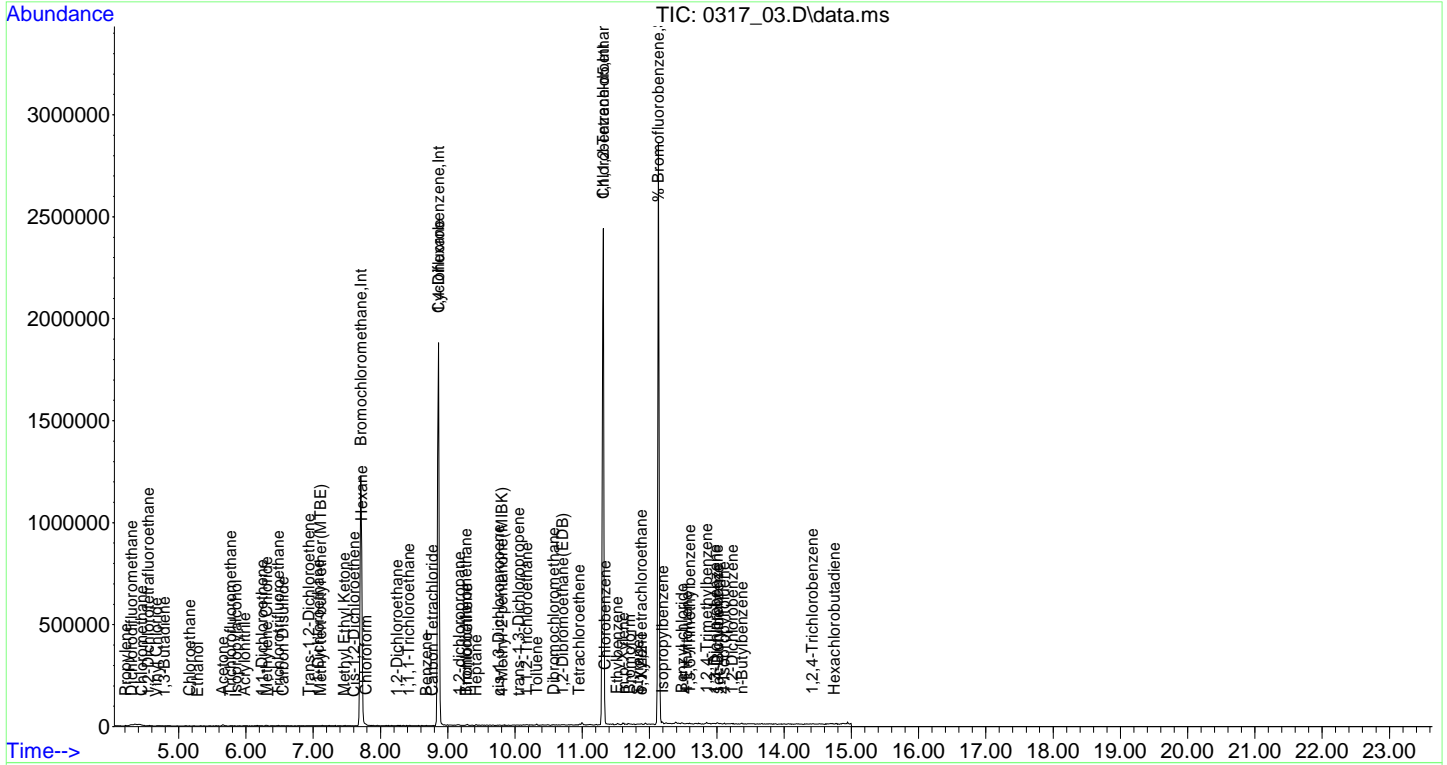
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
117] 1, 2-Dichlorobenzene(sim)	13.235	146	1143	0.012	ppbv	95
118] n-Butylbenzene(sim)	13.368	91	194m	0.002	ppbv	37
119] 1, 2, 4-Trichlorobenzene...	14.425	180	374	0.015	ppbv#	80
121] Hexachlorobutadiene(sim)	14.754	225	401	0.004	ppbv	97

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_03.D
 Acq On : 17 Mar 2022 5:39 pm
 Operator :
 Client ID : ICAL 0.01
 Lab ID : 0.01 (40cc-1)
 ALS Vial : 40 Sample Multiplier: 1

Quant Time: Mar 17 20:05:11 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 20:03:49 2022
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_04.D
 Acq On : 17 Mar 2022 6:12 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02 (80cc-1)
 ALS Vial : 41 Sample Multiplier: 1

Quant Time: Mar 17 20:06:31 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 20:05:22 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.709	130	329261	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	1165620	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	553136	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	352797	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	1165715	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	553136	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	719180	0.000	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	0.00%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.221	41	1619	0.038	ppbv	87
3) Dichlorodifluoromethane	4.286	85	1300	0.015	ppbv#	59
4) Chloromethane	4.469	50	2766	0.048	ppbv	80
5) 1,2-Dichlorotetrafluor...	4.545	85	1781	0.021	ppbv#	84
6) Vinyl Chloride	4.652	62	911	0.021	ppbv#	46
7) 1,3-Butadiene	4.782	54	785	0.018	ppbv	97
8) Bromomethane	5.030	94	490	0.016	ppbv#	1
9) Chloroethane	0.000	64	0	0.000	ppbv	0
11) Ethanol	5.256	45	779	0.030	ppbv#	73
12) Acetone	5.665	43	14767	0.161	ppbv#	87
13) Trichlorofluoromethane	5.773	101	1672	0.018	ppbv#	74
14) Isopropylalcohol	5.849	45	9195	0.081	ppbv#	78
15) Acrylonitrile	5.978	53	525	0.011	ppbv#	49
16) 1,1-Dichloroethene	6.237	61	1292	0.017	ppbv#	86
17) Methylene Chloride	6.314	49	1963	0.026	ppbv#	61
20) Carbon Disulfide	6.556	76	1212	0.014	ppbv#	71
21) Trichlorotrifluoroethane	6.487	101	1446	0.020	ppbv#	87
22) Trans-1,2-Dichloroethene	6.944	61	1398	0.020	ppbv#	73
23) 1,1-Dichloroethane	7.062	63	1559	0.020	ppbv	72
24) Methyl tert-butyl ethe...	7.125	73	1215	0.016	ppbv#	73
26) Methyl Ethyl Ketone	7.338	43	2239	0.019	ppbv#	76
27) Cis-1,2-Dichloroethene	7.595	61	1134	0.017	ppbv#	54
28) Hexane	7.720	57	1455	0.018	ppbv#	68
29) Chloroform	7.782	83	1429	0.019	ppbv#	66
30) Ethyl acetate	0.000	61	0	0.000	ppbv	0
31) Tetrahydrofuran	8.064	42	1034	0.016	ppbv#	73
32) 1,2-Dichloroethane	8.251	62	1147	0.018	ppbv#	57
33) 1,1,1-Trichloroethane	8.407	97	1375	0.017	ppbv	93
34) Benzene	8.693	78	1556	0.017	ppbv#	62
35) Carbon Tetrachloride	8.783	117	1600	0.019	ppbv	88
36) Cyclohexane	8.851	84	5709	0.149	ppbv#	49
38) 1,2-dichloropropane	9.157	63	1281	0.024	ppbv#	75
39) Bromdichloromethane	9.270	83	1315	0.017	ppbv	89
40) Trichloroethene	9.281	130	802	0.017	ppbv	95
42) 1,4-Dioxane	0.000	88	0	0.000	ppbv	0
44) Heptane	9.428	43	1868	0.017	ppbv#	63
45) cis-1,3-Dichloropropene	9.756	75	963	0.019	ppbv#	55
46) 4-Methyl-2-pentanone(M..	0.000	43	0	0.000	ppbv	0
47) trans-1,3-Dichloropropene	10.051	75	940	0.020	ppbv#	45
48) 1,1,2-Trichloroethane	10.164	97	560	0.013	ppbv#	36
49) Toluene	10.334	91	2439	0.021	ppbv#	93
50) Dibromochloromethane	10.573	129	1815	0.020	ppbv#	93

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_04.D
 Acq On : 17 Mar 2022 6:12 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02 (80cc-1)
 ALS Vial : 41 Sample Multiplier: 1

Quant Time: Mar 17 20:06:31 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 20:05:22 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
51) 2-Hexanone (MBK)	10.345	43	115	0.001	ppbv#	53
52) 1, 2-Dibromethane (EDB)	10.718	107	981	0.015	ppbv	82
53) Tetrachloroethene	10.961	166	1768	0.028	ppbv#	67
55) 1, 1, 1, 2-Tetrachloroethane	11.322	131	1528	0.028	ppbv	95
56) Chlorobenzene	11.332	112	2810	0.031	ppbv#	1
57) Ethylbenzene	11.517	91	3103	0.024	ppbv	95
58) m p-Xylene	11.609	91	4293	0.041	ppbv#	90
59) Bromform	11.701	173	1656	0.022	ppbv	95
60) Styrene	11.814	104	945	0.013	ppbv#	79
61) 1, 1, 2, 2-Tetrachloroethane	11.875	83	1785	0.020	ppbv#	74
62) o-Xylene	11.875	91	2001	0.018	ppbv#	59
65) Isopropylbenzene	12.193	105	4024	0.025	ppbv	99
67) 4-Ethyltoluene	12.562	105	3776	0.022	ppbv#	88
68) 1, 3, 5-Trimethylbenzene	12.593	105	2149	0.017	ppbv#	77
69) 1, 2, 4-Trimethylbenzene	12.850	105	2124	0.016	ppbv#	76
71) Benzyl chloride	12.480	91	5217	0.018	ppbv#	90
72) 1, 3-Dichlorobenzene	12.973	146	1505	0.016	ppbv#	65
73) 1, 4-Dichlorobenzene	13.014	146	978	0.013	ppbv#	52
74) sec-Butylbenzene	13.014	105	3390	0.017	ppbv#	94
75) 4-Isopropyltoluene	13.096	119	1896	0.010	ppbv#	90
76) 1, 2-Dichlorobenzene	13.229	146	1725	0.019	ppbv#	49
77) n-Butylbenzene	13.373	91	1438	0.010	ppbv#	71
78) 1, 2, 4-Trichlorobenzene	14.420	180	106	0.002	ppbv#	8
80) Hexachlorobutadiene	14.748	225	1579	0.018	ppbv	89
82) 1, 2-Dichlorotetrafluor...	4.545	85	1781	0.021	ppbv#	84
83) Vinyl Chloride(sim)	4.658	62	924	0.019	ppbv	98
84) Bromomethane(sim)	5.035	94	684m	0.022	ppbv	1
85) Trichlorofluoromethane...	5.779	101	1789	0.018	ppbv#	94
86) 1, 2-Dichloroethane(sim)	8.251	62	1147	0.019	ppbv#	57
87) 1, 1, 1-Trichloroethane(...)	8.413	97	1499	0.018	ppbv#	71
88) Benzene(sim)	8.698	78	2207m	0.024	ppbv	62
89) Carbon Tetrachloride(sim)	8.789	117	1558	0.018	ppbv	95
90) 1, 1-Dichloroethene(sim)	6.237	61	1292	0.017	ppbv#	86
91) Trichlorotrifluoroetha...	6.484	101	1390	0.018	ppbv#	95
92) Trans-1, 2-Dichloroethe...	6.944	61	1398	0.022	ppbv#	73
93) 1, 1-Dichloroethane(sim)	7.076	63	1504	0.018	ppbv	96
94) Cis-1, 2-Dichloroethene...	7.595	61	1134	0.019	ppbv#	54
95) Chloroform(sim)	7.788	83	1499	0.019	ppbv#	73
97) 1, 2-dichloropropane(sim)	9.162	63	1220	0.020	ppbv#	85
98) Bromdichloromethane(sim)	9.270	83	1315	0.016	ppbv	88
99) Trichloroethene(sim)	9.298	130	1084	0.021	ppbv	98
100) 1, 4-Dioxane(sim)	9.309	88	342m	0.019	ppbv	0
101) cis-1, 3-Dichloropropen...	9.762	75	953	0.018	ppbv	93
102) 1, 1, 2-Trichloroethane(...)	10.164	97	560	0.014	ppbv#	36
103) Dibromchloromethane(sim)	10.578	129	2049	0.021	ppbv	93
104) 1, 2-Dibromethane(EDB)...	10.724	107	1193m	0.019	ppbv	98
105) Tetrachloroethene(sim)	10.967	166	2289	0.026	ppbv	96
107) Bromoform(sim)	11.696	173	1809	0.020	ppbv	98
108) m p-Xylene(sim)	11.609	91	4293	0.040	ppbv#	90
109) 1, 1, 2, 2-Tetrachloroeth...	11.871	83	2148	0.021	ppbv#	97
112) Benzyl chloride(sim)	12.942	91	928	0.019	ppbv	78
113) 1, 3-Dichlorobenzene(sim)	12.968	146	1577	0.017	ppbv	91
114) 1, 4-Dichlorobenzene(sim)	13.009	146	1260m	0.018	ppbv	52
115) sec-Butylbenzene(sim)	13.009	105	3464	0.018	ppbv	99
116) 4-Isopropyltoluene(sim)	13.102	119	2225m	0.014	ppbv	90

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_04.D
 Acq On : 17 Mar 2022 6:12 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02 (80cc-1)
 ALS Vial : 41 Sample Multiplier: 1

Quant Time: Mar 17 20:06:31 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 20:05:22 2022
 Response via : Initial Calibration

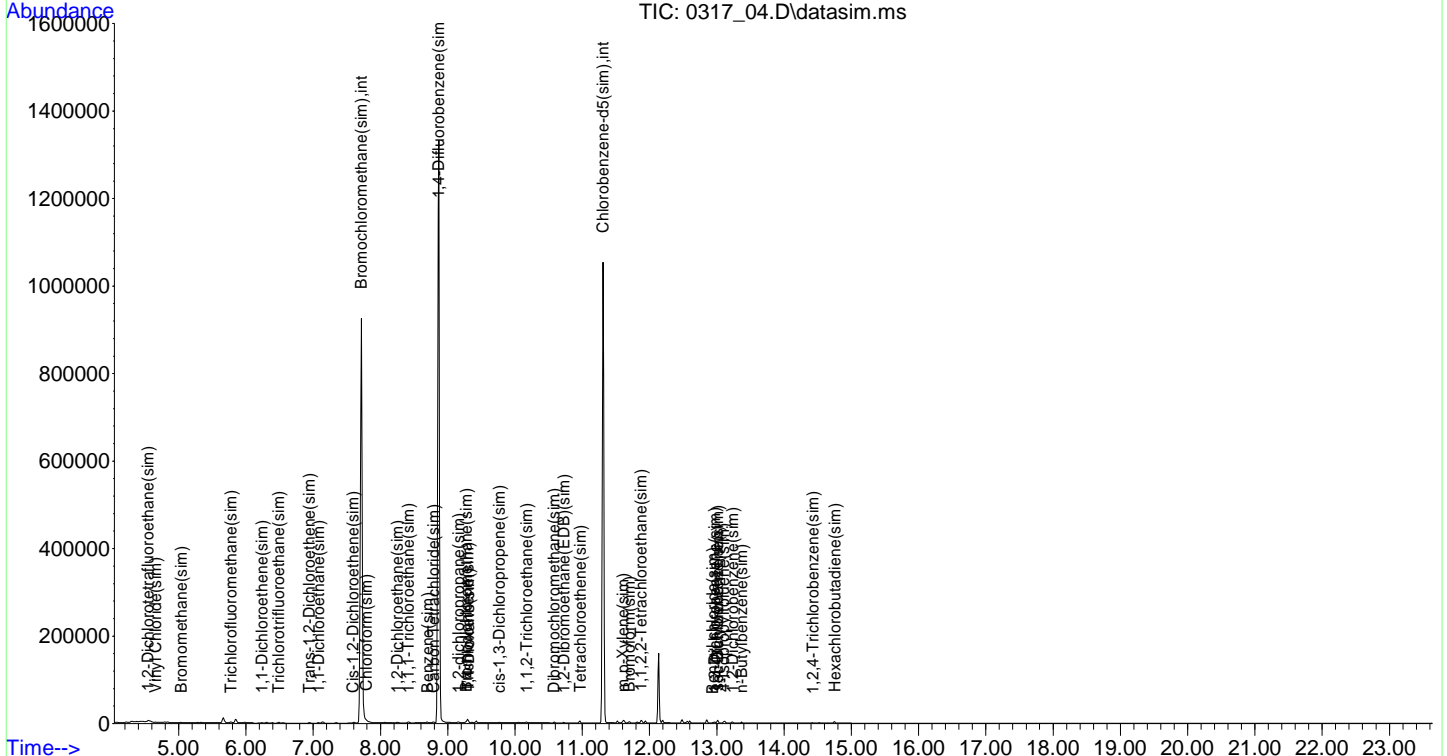
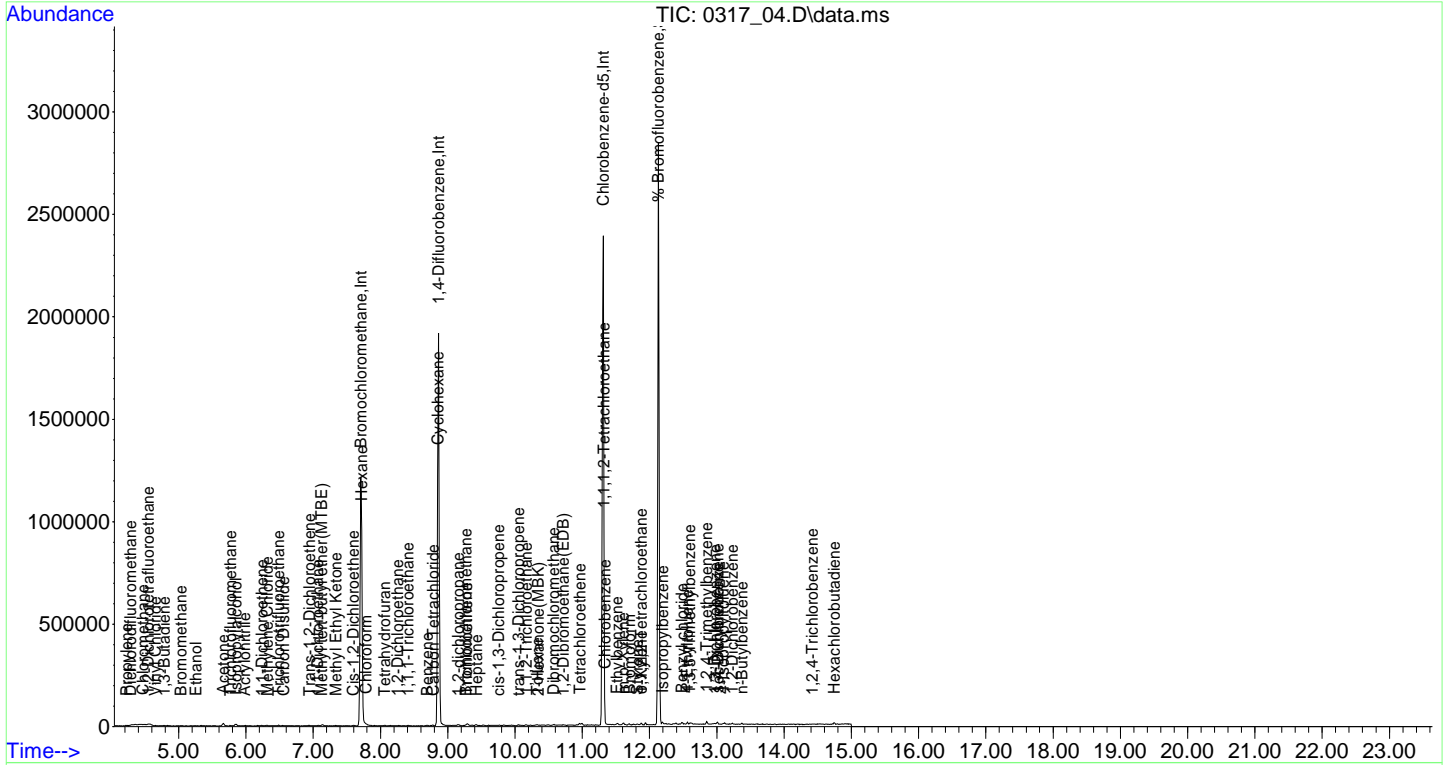
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
117] 1, 2-Dichlorobenzene(sim)	13.235	146	1849	0.019	ppbv	99
118] n-Butylbenzene(sim)	13.368	91	1272m	0.011	ppbv	71
119] 1, 2, 4-Trichlorobenzene...	14.425	180	283	0.011	ppbv	83
121] Hexachlorobutadiene(sim)	14.754	225	1867	0.017	ppbv	96

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_04.D
 Acq On : 17 Mar 2022 6:12 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02 (80cc-1)
 ALS Vial : 41 Sample Multiplier: 1

Quant Time: Mar 17 20:06:31 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 20:05:22 2022
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_05.D
 Acq On : 17 Mar 2022 6:45 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035 (140cc-1)
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Mar 17 20:08:03 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 20:06:49 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.709	130	331641	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	1185183	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	547670	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	355270	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	1184976	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	547862	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	724345	0.000	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	0.00%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.221	41	2676	0.062	ppbv	90
3) Dichlorodifluoromethane	4.286	85	2991	0.034	ppbv#	64
4) Chloromethane	4.448	50	3653	0.063	ppbv	82
5) 1,2-Dichlorotetrafluor...	4.545	85	2462	0.029	ppbv#	87
6) Vinyl Chloride	4.663	62	1617	0.036	ppbv#	58
7) 1,3-Butadiene	4.782	54	2419	0.054	ppbv#	71
8) Bromomethane	5.030	94	1363	0.045	ppbv#	84
9) Chloroethane	5.170	64	479	0.026	ppbv	72
11) Ethanol	5.288	45	1273	0.048	ppbv#	89
12) Acetone	5.666	43	26584	0.288	ppbv#	87
13) Trichlorofluoromethane	5.773	101	3286	0.035	ppbv	90
14) Isopropylalcohol	5.849	45	21537	0.189	ppbv#	87
15) Acrylonitrile	5.978	53	1646	0.035	ppbv#	95
16) 1,1-Dichloroethene	6.237	61	2217	0.029	ppbv#	71
17) Methylene Chloride	6.314	49	3374	0.045	ppbv#	66
20) Carbon Disulfide	6.547	76	2847	0.032	ppbv#	92
21) Trichlorotrifluoroethane	6.478	101	2133	0.029	ppbv	93
22) Trans-1,2-Dichloroethene	6.944	61	2093	0.030	ppbv#	83
23) 1,1-Dichloroethane	7.070	63	2303	0.029	ppbv	89
24) Methyl tert-butyl ethe...	7.133	73	2102	0.028	ppbv#	87
26) Methyl Ethyl Ketone	7.338	43	3715	0.031	ppbv#	87
27) Cis-1,2-Dichloroethene	7.605	61	1929	0.029	ppbv#	84
28) Hexane	7.720	57	2329	0.029	ppbv#	92
29) Chloroform	7.793	83	2571	0.035	ppbv#	70
30) Ethyl acetate	7.730	61	663	0.043	ppbv#	57
31) Tetrahydrofuran	8.064	42	1889	0.030	ppbv#	80
32) 1,2-Dichloroethane	8.241	62	1913	0.030	ppbv#	69
33) 1,1,1-Trichloroethane	8.418	97	2010	0.025	ppbv#	70
34) Benzene	8.693	78	3344	0.036	ppbv	96
35) Carbon Tetrachloride	8.783	117	2777	0.032	ppbv	98
36) Cyclohexane	8.862	84	6332	0.164	ppbv#	60
38) 1,2-dichloropropane	9.168	63	1891	0.035	ppbv#	86
39) Bromdichloromethane	9.270	83	2952	0.037	ppbv	88
40) Trichloroethene	9.281	130	1803	0.038	ppbv	97
42) 1,4-Dioxane	0.000	88	0	0.000	ppbv	0
44) Heptane	9.428	43	3444	0.032	ppbv#	89
45) cis-1,3-Dichloropropene	9.768	75	1566	0.030	ppbv	95
46) 4-Methyl-2-pentanone(M..	9.983	43	121	0.001	ppbv#	56
47) trans-1,3-Dichloropropene	10.051	75	1384	0.029	ppbv#	68
48) 1,1,2-Trichloroethane	10.164	97	1462	0.034	ppbv	92
49) Toluene	10.322	91	3863	0.033	ppbv#	98
50) Dibromochloromethane	10.583	129	2961	0.033	ppbv	90

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_05.D
 Acq On : 17 Mar 2022 6:45 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035 (140cc-1)
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Mar 17 20:08:03 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 20:06:49 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
51) 2-Hexanone (MBK)	10.334	43	136	0.001	ppbv#	53
52) 1,2-Dibromethane (EDB)	10.719	107	1772	0.027	ppbv	95
53) Tetrachloroethene	10.961	166	3348	0.051	ppbv	97
55) 1,1,1,2-Tetrachloroethane	11.312	131	2444	0.045	ppbv	88
56) Chlorobenzene	11.332	112	4445	0.050	ppbv#	1
57) Ethylbenzene	11.517	91	5385	0.041	ppbv	95
58) m p-Xylene	11.609	91	6965	0.067	ppbv	97
59) Bromoform	11.691	173	2929	0.039	ppbv#	87
60) Styrene	11.814	104	2044	0.028	ppbv#	85
61) 1,1,2,2-Tetrachloroethane	11.865	83	3856	0.044	ppbv#	85
62) o-Xylene	11.875	91	3891	0.036	ppbv#	95
65) Isopropylbenzene	12.193	105	6205	0.039	ppbv#	92
67) 4-Ethyltoluene	12.562	105	5422	0.032	ppbv	97
68) 1,3,5-Trimethylbenzene	12.593	105	3641	0.030	ppbv	93
69) 1,2,4-Trimethylbenzene	12.850	105	3063	0.023	ppbv#	76
71) Benzyl chloride	12.480	91	8973	0.032	ppbv#	94
72) 1,3-Dichlorobenzene	12.963	146	2801	0.031	ppbv#	89
73) 1,4-Dichlorobenzene	13.004	146	1559	0.022	ppbv#	60
74) sec-Butylbenzene	13.014	105	5289	0.027	ppbv#	96
75) 4-Isopropyltoluene	13.096	119	4458	0.025	ppbv#	81
76) 1,2-Dichlorobenzene	13.229	146	2933	0.033	ppbv#	88
77) n-Butylbenzene	13.363	91	2872	0.020	ppbv#	87
78) 1,2,4-Trichlorobenzene	14.430	180	478	0.011	ppbv#	62
80) Hexachlorobutadiene	14.748	225	3390	0.039	ppbv	92
82) 1,2-Dichlorotetrafluor...	4.550	85	3104m	0.036	ppbv	87
83) Vinyl Chloride(sim)	4.669	62	1605	0.034	ppbv#	83
84) Bromomethane(sim)	5.035	94	1230m	0.039	ppbv	84
85) Trichlorofluoromethane...	5.779	101	3136	0.032	ppbv#	97
86) 1,2-Dichloroethane(sim)	8.241	62	1913	0.032	ppbv#	69
87) 1,1,1-Trichloroethane(...)	8.413	97	2658	0.032	ppbv#	83
88) Benzene(sim)	8.693	78	3344	0.037	ppbv	96
89) Carbon Tetrachloride(sim)	8.789	117	2982	0.034	ppbv	97
90) 1,1-Dichloroethene(sim)	6.234	61	2658m	0.035	ppbv	71
91) Trichlorotrifluoroetha...	6.492	101	2354	0.031	ppbv#	96
92) Trans-1,2-Dichloroethe...	6.944	61	2093	0.032	ppbv#	83
93) 1,1-Dichloroethane(sim)	7.076	63	2599	0.031	ppbv	97
94) Cis-1,2-Dichloroethene...	7.605	61	1929	0.032	ppbv#	84
95) Chloroform(sim)	7.788	83	2548	0.032	ppbv#	73
97) 1,2-dichloropropane(sim)	9.162	63	2078	0.033	ppbv	87
98) Bromdichloromethane(sim)	9.275	83	2815m	0.034	ppbv	87
99) Trichloroethene(sim)	9.298	130	1792	0.033	ppbv	98
100) 1,4-Dioxane(sim)	0.000	88	0	0.000	ppbv	0
101) cis-1,3-Dichloropropen...	9.773	75	1679	0.032	ppbv	99
102) 1,1,2-Trichloroethane(...)	10.164	97	1462	0.035	ppbv	92
103) Dibromchloromethane(sim)	10.579	129	3381	0.034	ppbv	92
104) 1,2-Dibromethane(EDB)...	10.719	107	1772	0.028	ppbv	95
105) Tetrachloroethene(sim)	10.967	166	3780	0.042	ppbv	99
107) Bromoform(sim)	11.697	173	3162	0.035	ppbv	99
108) m p-Xylene(sim)	11.609	91	6965	0.066	ppbv	97
109) 1,1,2,2-Tetrachloroeth...	11.871	83	3688	0.036	ppbv	96
112) Benzyl chloride(sim)	12.948	91	1690m	0.036	ppbv	78
113) 1,3-Dichlorobenzene(sim)	12.968	146	2634	0.029	ppbv	91
114) 1,4-Dichlorobenzene(sim)	13.004	146	1559	0.024	ppbv#	60
115) sec-Butylbenzene(sim)	13.009	105	6218	0.032	ppbv	99
116) 4-Isopropyltoluene(sim)	13.096	119	4458	0.028	ppbv#	81

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_05.D
 Acq On : 17 Mar 2022 6:45 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035 (140cc-1)
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Mar 17 20:08:03 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 20:06:49 2022
 Response via : Initial Calibration

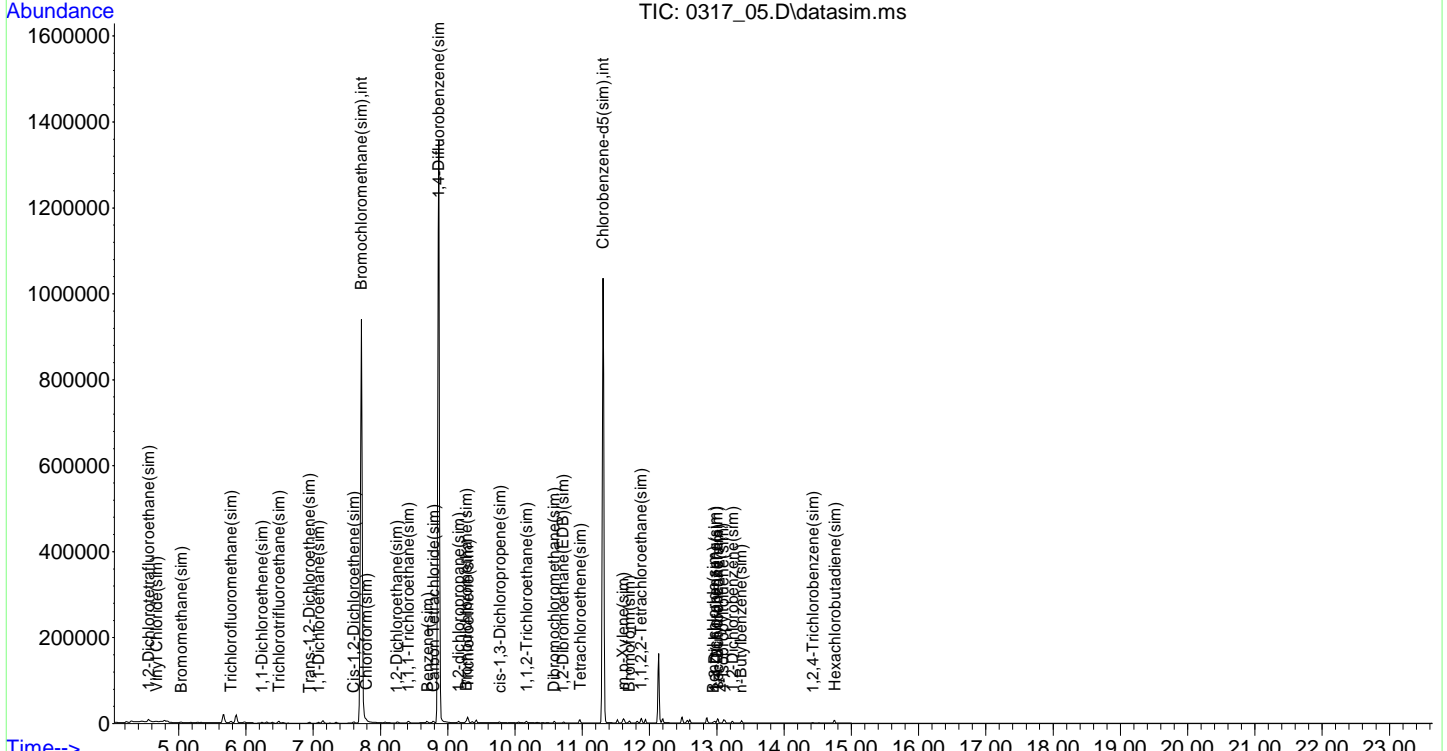
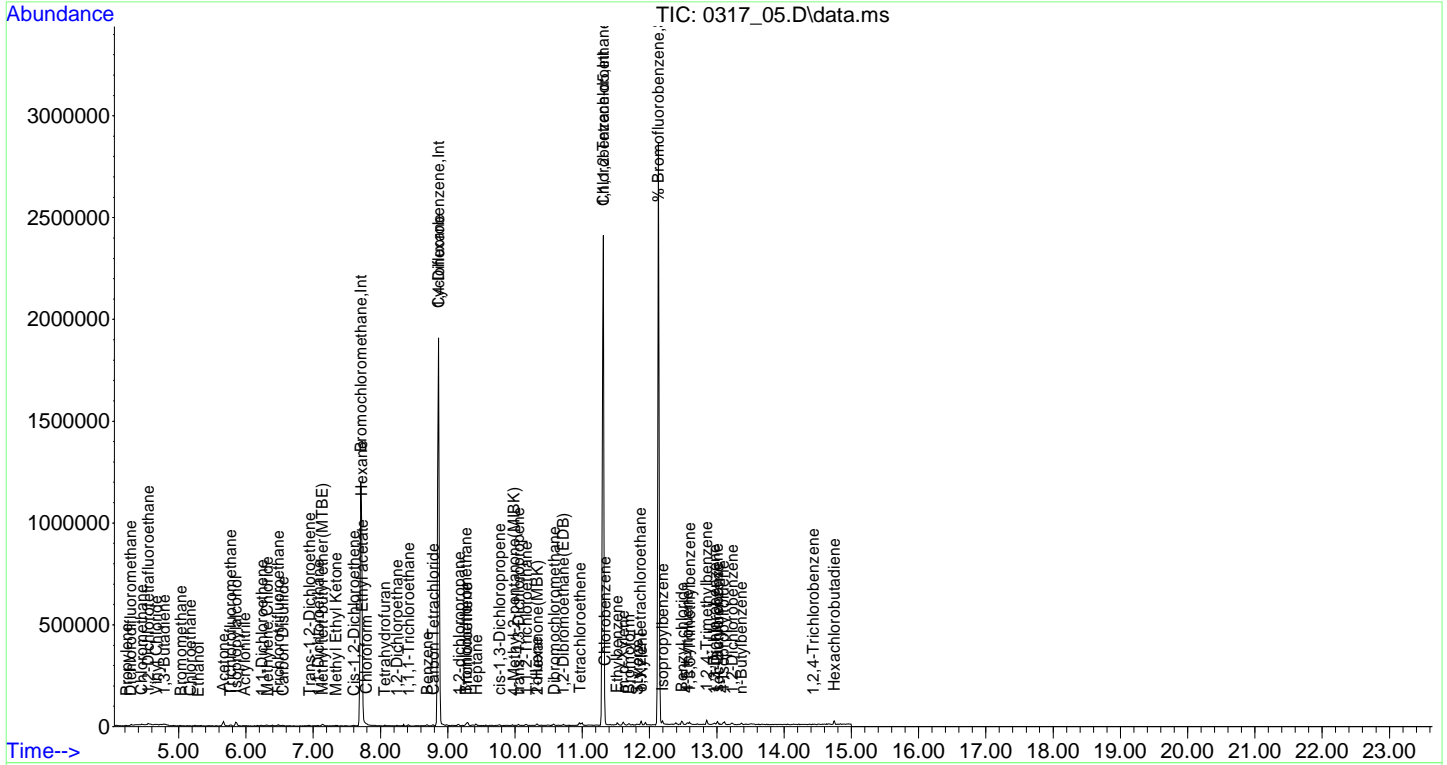
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
117] 1, 2-Dichlorobenzene(sim)	13.235	146	2964	0.031	ppbv	88
118] n-Butylbenzene(sim)	13.363	91	2872	0.025	ppbv	87
119] 1, 2, 4-Trichlorobenzene...	14.425	180	669	0.035	ppbv	92
121] Hexachlorobutadiene(sim)	14.754	225	3969	0.037	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_05.D
 Acq On : 17 Mar 2022 6:45 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035 (140cc-1)
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Mar 17 20:08:03 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 20:06:49 2022
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_06.D
 Acq On : 17 Mar 2022 7:20 pm
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05 ppb : AIR
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Mar 17 20:03:26 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 04 05:11:18 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.709	130	331926	10.000	ng	-0.01
37) 1,4-Difluorobenzene	8.862	114	1169880	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	545118	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	354246	10.000	ng	#-0.01
96) 1,4-Difluorobenzene(sim)	8.862	114	1169880	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	545118	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	712305	11.045	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	110.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.221	41	4199	0.097	ppbv	91
3) Dichlorodifluoromethane	4.297	85	4112	0.046	ppbv#	74
4) Chloromethane	4.447	50	4007	0.069	ppbv	84
5) 1,2-Dichlorotetrafluor...	4.555	85	3590	0.043	ppbv	96
6) Vinyl Chloride	4.663	62	2289	0.051	ppbv	86
7) 1,3-Butadiene	4.792	54	2743	0.061	ppbv#	73
8) Bromomethane	5.030	94	1850	0.061	ppbv#	84
9) Chloroethane	5.180	64	1072	0.059	ppbv	81
11) Ethanol	5.288	45	7194	0.271	ppbv#	83
12) Acetone	5.665	43	39401	0.426	ppbv#	89
13) Trichlorofluoromethane	5.773	101	4699	0.050	ppbv	95
14) Isopropylalcohol	5.859	45	34111	0.300	ppbv#	89
15) Acrylonitrile	5.978	53	2618	0.056	ppbv	89
16) 1,1-Dichloroethene	6.228	61	3630	0.047	ppbv#	78
17) Methylene Chloride	6.314	49	8857	0.118	ppbv#	87
20) Carbon Disulfide	6.547	76	4351	0.049	ppbv#	91
21) Trichlorotrifluoroethane	6.487	101	2959	0.041	ppbv#	80
22) Trans-1,2-Dichloroethene	6.952	61	3103	0.045	ppbv	92
23) 1,1-Dichloroethane	7.078	63	3313	0.041	ppbv	91
24) Methyl tert-butyl ethe...	7.133	73	3689	0.049	ppbv#	85
26) Methyl Ethyl Ketone	7.338	43	5294	0.044	ppbv#	82
27) Cis-1,2-Dichloroethene	7.605	61	2664	0.040	ppbv#	83
28) Hexane	7.720	57	4046	0.051	ppbv#	86
29) Chloroform	7.782	83	3339	0.045	ppbv#	63
30) Ethyl acetate	7.741	61	839	0.054	ppbv#	82
31) Tetrahydrofuran	8.063	42	2779	0.044	ppbv	94
32) 1,2-Dichloroethane	8.251	62	2698	0.042	ppbv#	87
33) 1,1,1-Trichloroethane	8.418	97	3324	0.041	ppbv#	84
34) Benzene	8.692	78	4558	0.049	ppbv	98
35) Carbon Tetrachloride	8.783	117	3597	0.041	ppbv	81
36) Cyclohexane	8.862	84	6660	0.172	ppbv#	59
38) 1,2-dichloropropane	9.168	63	3066	0.057	ppbv#	80
39) Bromdichloromethane	9.270	83	3391	0.043	ppbv	93
40) Trichloroethene	9.292	130	2385	0.051	ppbv	95
42) 1,4-Dioxane	0.000	88	0	0.000	ppbv	0
44) Heptane	9.417	43	4118	0.038	ppbv#	82
45) cis-1,3-Dichloropropene	9.768	75	2040	0.039	ppbv	89
46) 4-Methyl-2-pentanone(M..	9.790	43	1088	0.008	ppbv#	56
47) trans-1,3-Dichloropropene	10.051	75	1473	0.031	ppbv#	61
48) 1,1,2-Trichloroethane	10.175	97	1921	0.045	ppbv#	70
49) Toluene	10.334	91	5138	0.045	ppbv#	95
50) Dibromochloromethane	10.583	129	3545	0.039	ppbv#	88

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_06.D
 Acq On : 17 Mar 2022 7:20 pm
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05 ppb : AIR
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Mar 17 20:03:26 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 04 05:11:18 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
51) 2-Hexanone (MBK)	10.334	43	249	0.002	ppbv#	53
52) 1, 2-Dibromethane (EDB)	10.718	107	2947	0.045	ppbv	85
53) Tetrachloroethene	10.961	166	4884	0.076	ppbv	95
55) 1, 1, 1, 2-Tetrachloroethane	11.312	131	2851	0.053	ppbv#	70
56) Chlorobenzene	11.332	112	4004	0.045	ppbv#	1
57) Ethylbenzene	11.517	91	6707	0.052	ppbv	97
58) m p-Xylene	11.609	91	9962	0.096	ppbv	93
59) Bromoform	11.691	173	4291	0.058	ppbv	90
60) Styrene	11.814	104	2523	0.034	ppbv	93
61) 1, 1, 2, 2-Tetrachloroethane	11.875	83	4782	0.054	ppbv	95
62) o-Xylene	11.875	91	5370	0.049	ppbv#	94
65) Isopropylbenzene	12.193	105	8207	0.051	ppbv	97
67) 4-Ethyltoluene	12.562	105	7708	0.045	ppbv#	83
68) 1, 3, 5-Trimethylbenzene	12.593	105	5141	0.042	ppbv#	76
69) 1, 2, 4-Trimethylbenzene	12.850	105	4675	0.035	ppbv#	82
71) Benzyl chloride	12.480	91	12791	0.046	ppbv#	94
72) 1, 3-Dichlorobenzene	12.973	146	3927	0.044	ppbv	94
73) 1, 4-Dichlorobenzene	13.014	146	2352	0.033	ppbv	88
74) sec-Butylbenzene	13.014	105	7633	0.039	ppbv	98
75) 4-Isopropyltoluene	13.096	119	7157	0.040	ppbv	96
76) 1, 2-Dichlorobenzene	13.229	146	2994	0.034	ppbv#	76
77) n-Butylbenzene	13.363	91	4652	0.033	ppbv#	88
78) 1, 2, 4-Trichlorobenzene	14.409	180	880	0.020	ppbv#	77
80) Hexachlorobutadiene	14.748	225	5270	0.061	ppbv	91
82) 1, 2-Dichlorotetrafluor...	4.550	85	4279m	0.050	ppbv	96
83) Vinyl Chloride(sim)	4.669	62	2158	0.045	ppbv	94
84) Bromomethane(sim)	5.035	94	1598m	0.050	ppbv	84
85) Trichlorofluoromethane...	5.779	101	4508	0.046	ppbv#	95
86) 1, 2-Dichloroethane(sim)	8.251	62	2698	0.045	ppbv#	87
87) 1, 1, 1-Trichloroethane(...)	8.423	97	3787	0.046	ppbv#	88
88) Benzene(sim)	8.692	78	4558	0.050	ppbv	98
89) Carbon Tetrachloride(sim)	8.789	117	4147	0.048	ppbv	98
90) 1, 1-Dichloroethene(sim)	6.228	61	3630	0.049	ppbv#	78
91) Trichlorotrifluoroetha...	6.492	101	3505	0.046	ppbv#	99
92) Trans-1, 2-Dichloroethe...	6.952	61	3103	0.048	ppbv	92
93) 1, 1-Dichloroethane(sim)	7.076	63	3716	0.045	ppbv	99
94) Cis-1, 2-Dichloroethene...	7.605	61	2664	0.045	ppbv#	83
95) Chloroform(sim)	7.788	83	3618	0.046	ppbv#	84
97) 1, 2-dichloropropane(sim)	9.162	63	2805	0.046	ppbv	87
98) Bromdichloromethane(sim)	9.270	83	3391	0.041	ppbv	91
99) Trichloroethene(sim)	9.298	130	2495	0.047	ppbv	99
100) 1, 4-Dioxane(sim)	9.309	88	385m	0.021	ppbv	0
101) cis-1, 3-Dichloropropen...	9.773	75	2226	0.043	ppbv	97
102) 1, 1, 2-Trichloroethane(...)	10.175	97	1921	0.047	ppbv#	70
103) Dibromchloromethane(sim)	10.578	129	4593	0.047	ppbv	93
104) 1, 2-Dibromethane(EDB)...	10.718	107	2947	0.048	ppbv	85
105) Tetrachloroethene(sim)	10.967	166	5285	0.060	ppbv	98
107) Bromoform(sim)	11.696	173	4378	0.049	ppbv	97
108) m p-Xylene(sim)	11.609	91	9962	0.094	ppbv	93
109) 1, 1, 2, 2-Tetrachloroeth...	11.871	83	5254	0.051	ppbv	97
112) Benzyl chloride(sim)	12.942	91	2222	0.035	ppbv	86
113) 1, 3-Dichlorobenzene(sim)	12.968	146	3667	0.040	ppbv#	95
114) 1, 4-Dichlorobenzene(sim)	13.014	146	2352	0.038	ppbv	88
115) sec-Butylbenzene(sim)	13.009	105	8674	0.046	ppbv	98
116) 4-Isopropyltoluene(sim)	13.096	119	7335	0.046	ppbv	96

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_06.D
 Acq On : 17 Mar 2022 7:20 pm
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05 ppb : AIR
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Mar 17 20:03:26 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 04 05:11:18 2022
 Response via : Initial Calibration

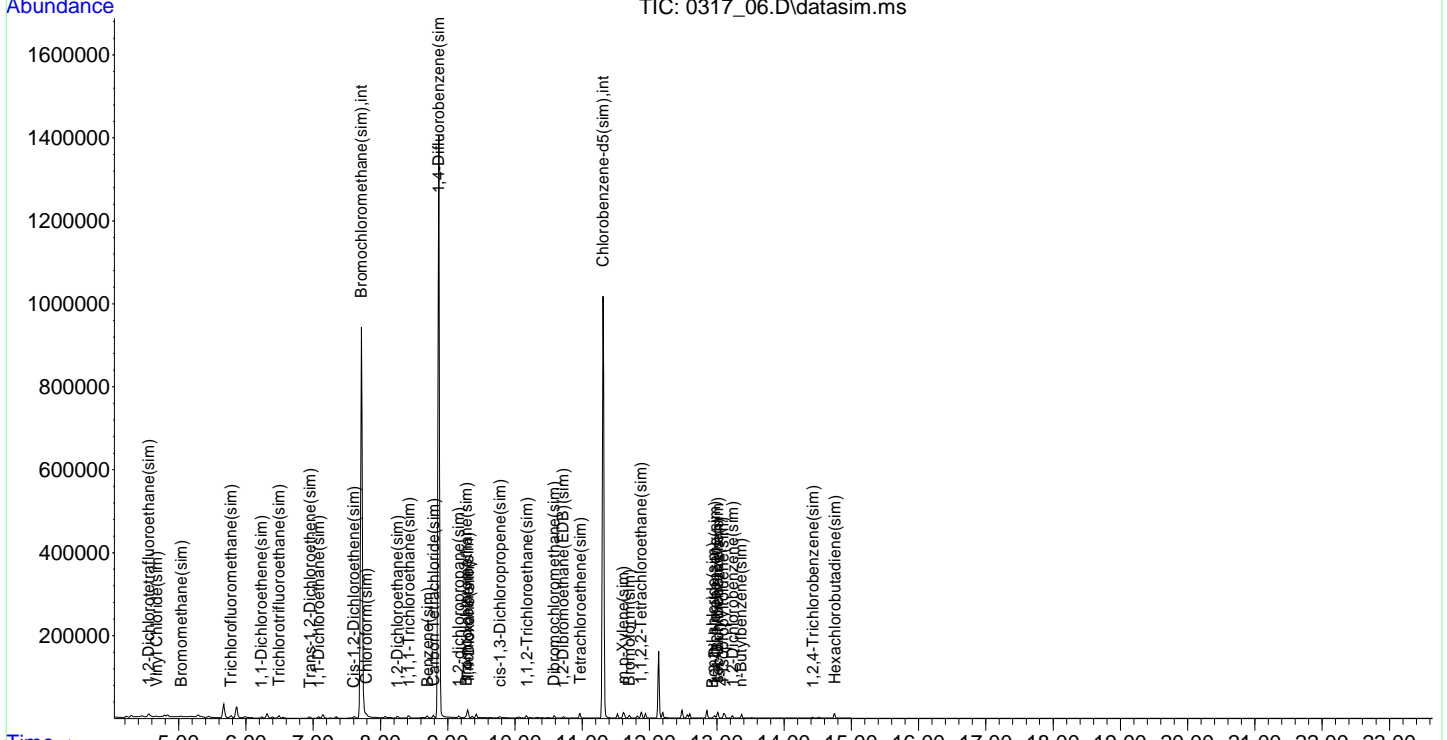
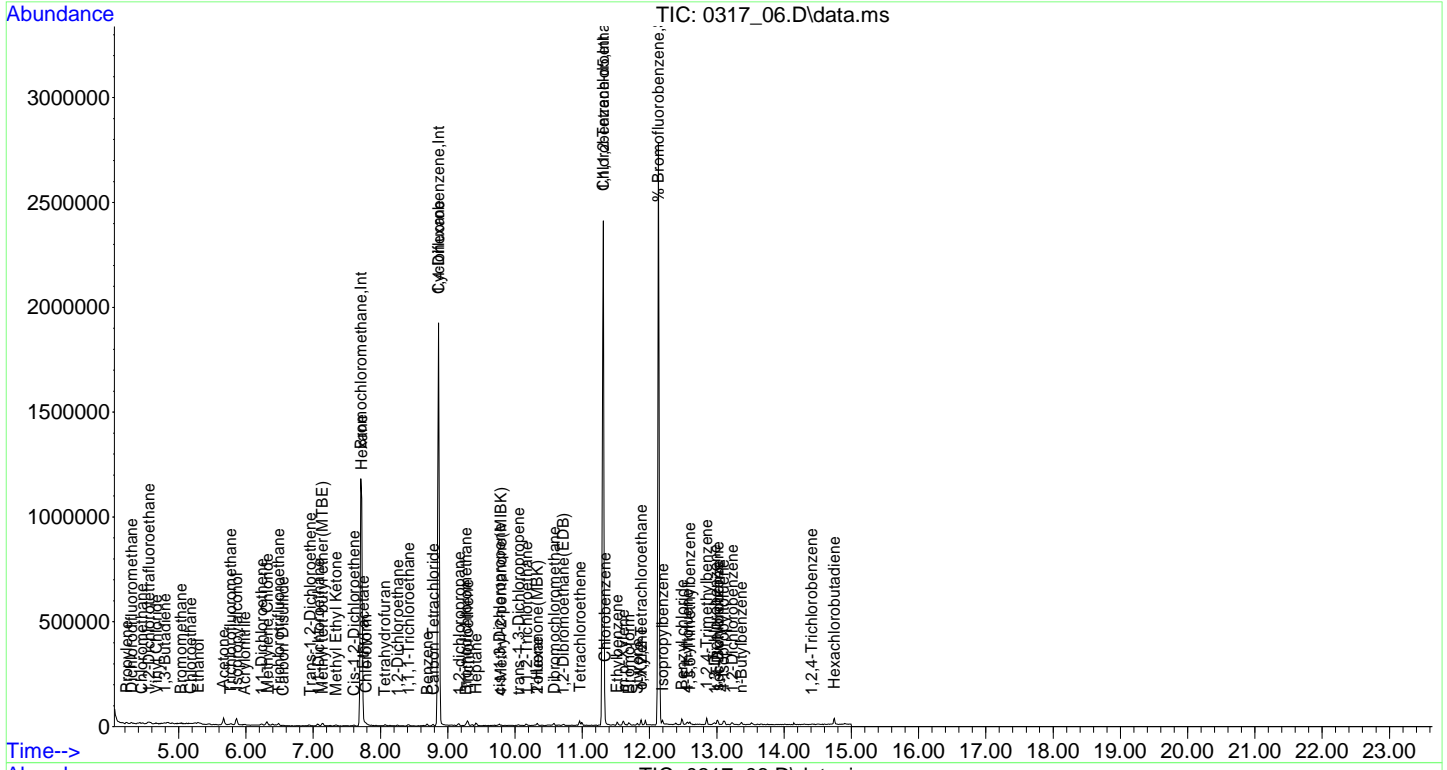
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
117] 1, 2-Dichlorobenzene(sim)	13.235	146	4078	0.043	ppbv	94
118] n-Butylbenzene(sim)	13.363	91	4652	0.041	ppbv	88
119] 1, 2, 4-Trichlorobenzene...	14.425	180	1230	0.031	ppbv	96
121] Hexachlorobutadiene(sim)	14.754	225	6359	0.059	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_06.D
 Acq On : 17 Mar 2022 7:20 pm
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05 ppb : AIR
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Mar 17 20:03:26 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 04 05:11:18 2022
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17a\
 Data File : 0317_09.D
 Acq On : 17 Mar 2022 7:51 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10 ppb : AIR
 ALS Vial : 40 Sample Multiplier: 1

Quant Time: Mar 17 20:27:01 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 20:26:54 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.709	130	330961	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	1177437	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	551951	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	358624	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	1177437	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	551951	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	725193	0.000	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	0.00%#	
Target Compounds						
					Qvalue	
2) Propylene	4.210	41	6132	0.142	ppbv	96
3) Dichlorodifluoromethane	4.286	85	10285	0.116	ppbv#	95
4) Chloromethane	4.458	50	7292	0.127	ppbv	73
5) 1,2-Dichlorotetrafluor...	4.534	85	8597	0.103	ppbv	86
6) Vinyl Chloride	4.652	62	4782	0.107	ppbv	96
7) 1,3-Butadiene	4.782	54	5457	0.122	ppbv#	89
8) Bromomethane	5.019	94	3448	0.114	ppbv#	83
9) Chloroethane	5.181	64	3278	0.180	ppbv#	78
11) Ethanol	5.278	45	4065	0.154	ppbv#	73
12) Acetone	5.655	43	11218	0.122	ppbv#	84
13) Trichlorofluoromethane	5.763	101	10211	0.108	ppbv	94
14) Isopropylalcohol	5.838	45	11330	0.100	ppbv#	77
15) Acrylonitrile	5.978	53	4531	0.096	ppbv#	86
16) 1,1-Dichloroethene	6.228	61	7945	0.104	ppbv#	92
17) Methylene Chloride	6.306	49	8372	0.112	ppbv	94
20) Carbon Disulfide	6.547	76	9014	0.102	ppbv	98
21) Trichlorotrifluoroethane	6.478	101	7151	0.098	ppbv	95
22) Trans-1,2-Dichloroethene	6.936	61	6745	0.098	ppbv	89
23) 1,1-Dichloroethane	7.078	63	8713	0.109	ppbv	96
24) Methyl tert-butyl ethe...	7.117	73	7134	0.095	ppbv#	83
26) Methyl Ethyl Ketone	7.330	43	12243	0.102	ppbv#	90
27) Cis-1,2-Dichloroethene	7.595	61	6608	0.101	ppbv	90
28) Hexane	7.720	57	7749	0.097	ppbv#	91
29) Chloroform	7.782	83	8220	0.111	ppbv	82
30) Ethyl acetate	7.709	61	2028	0.131	ppbv#	78
31) Tetrahydrofuran	8.064	42	6594	0.104	ppbv#	87
32) 1,2-Dichloroethane	8.251	62	6372	0.099	ppbv#	89
33) 1,1,1-Trichloroethane	8.407	97	7933	0.099	ppbv	94
34) Benzene	8.693	78	9809	0.107	ppbv	96
35) Carbon Tetrachloride	8.772	117	8714	0.101	ppbv	92
36) Cyclohexane	8.862	84	8521	0.221	ppbv#	68
38) 1,2-dichloropropane	9.157	63	6479	0.119	ppbv#	85
39) Bromdichloromethane	9.270	83	9708	0.123	ppbv	91
40) Trichloroethene	9.292	130	4917	0.104	ppbv	94
42) 1,4-Dioxane	9.304	88	1934	0.104	ppbv#	70
44) Heptane	9.417	43	10260	0.095	ppbv#	85
45) cis-1,3-Dichloropropene	9.768	75	5216	0.100	ppbv	96
46) 4-Methyl-2-pentanone(M..	9.779	43	12274	0.088	ppbv	98
47) trans-1,3-Dichloropropene	10.051	75	4272	0.089	ppbv#	94
48) 1,1,2-Trichloroethane	10.164	97	4140	0.097	ppbv	93
49) Toluene	10.322	91	11629	0.101	ppbv	95
50) Dibromochloromethane	10.583	129	8784	0.097	ppbv	94

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17a\
 Data File : 0317_09.D
 Acq On : 17 Mar 2022 7:51 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10 ppb : AIR
 ALS Vial : 40 Sample Multiplier: 1

Quant Time: Mar 17 20:27:01 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 20:26:54 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
51) 2-Hexanone (MBK)	10.334	43	245	0.002	ppbv#	53
52) 1, 2-Dibromethane (EDB)	10.719	107	6634	0.101	ppbv	98
53) Tetrachloroethene	10.961	166	6373	0.099	ppbv#	76
55) 1, 1, 1, 2-Tetrachloroethane	11.312	131	6419	0.117	ppbv	88
56) Chlorobenzene	11.332	112	11602	0.128	ppbv#	48
57) Ethylbenzene	11.517	91	13107	0.100	ppbv	90
58) m p-Xylene	11.609	91	22000	0.209	ppbv	94
59) Bromoform	11.691	173	7761	0.104	ppbv	90
60) Styrene	11.814	104	6647	0.089	ppbv	95
61) 1, 1, 2, 2-Tetrachloroethane	11.875	83	9681	0.108	ppbv#	88
62) o-Xylene	11.875	91	10163	0.092	ppbv#	92
65) Isopropylbenzene	12.193	105	18317	0.113	ppbv	98
67) 4-Ethyltoluene	12.562	105	15188	0.088	ppbv#	88
68) 1, 3, 5-Trimethylbenzene	12.593	105	10288	0.083	ppbv#	83
69) 1, 2, 4-Trimethylbenzene	12.850	105	11110	0.082	ppbv	94
71) Benzyl chloride	12.480	91	27327	0.096	ppbv	97
72) 1, 3-Dichlorobenzene	12.973	146	7291	0.080	ppbv	90
73) 1, 4-Dichlorobenzene	13.014	146	5151	0.071	ppbv#	66
74) sec-Butylbenzene	13.014	105	17085	0.087	ppbv#	96
75) 4-Isopropyltoluene	13.096	119	16325	0.090	ppbv	95
76) 1, 2-Dichlorobenzene	13.229	146	8502	0.096	ppbv	89
77) n-Butylbenzene	13.363	91	11177	0.078	ppbv	95
78) 1, 2, 4-Trichlorobenzene	14.420	180	2978	0.066	ppbv	89
80) Hexachlorobutadiene	14.748	225	9957	0.114	ppbv	97
82) 1, 2-Dichlorotetrafluor...	4.534	85	8597	0.099	ppbv	86
83) Vinyl Chloride(sim)	4.658	62	5118	0.106	ppbv#	89
84) Bromomethane(sim)	5.019	94	3448	0.107	ppbv#	83
85) Trichlorofluoromethane...	5.768	101	11074	0.111	ppbv#	99
86) 1, 2-Dichloroethane(sim)	8.251	62	6372	0.106	ppbv#	89
87) 1, 1, 1-Trichloroethane(...)	8.413	97	9263	0.111	ppbv#	97
88) Benzene(sim)	8.693	78	9809	0.107	ppbv	96
89) Carbon Tetrachloride(sim)	8.777	117	9643	0.110	ppbv	98
90) 1, 1-Dichloroethene(sim)	6.228	61	7945	0.105	ppbv#	92
91) Trichlorotrifluoroetha...	6.484	101	8465	0.111	ppbv#	99
92) Trans-1, 2-Dichloroethe...	6.936	61	6745	0.103	ppbv	89
93) 1, 1-Dichloroethane(sim)	7.076	63	9141	0.109	ppbv	98
94) Cis-1, 2-Dichloroethene...	7.595	61	6608	0.110	ppbv	90
95) Chloroform(sim)	7.788	83	8895	0.112	ppbv#	91
97) 1, 2-dichloropropane(sim)	9.162	63	6692	0.108	ppbv	87
98) Bromdichloromethane(sim)	9.270	83	9708	0.118	ppbv	90
99) Trichloroethene(sim)	9.298	130	5645	0.106	ppbv	99
100) 1, 4-Dioxane(sim)	9.304	88	1934	0.105	ppbv#	70
101) cis-1, 3-Dichloropropen...	9.762	75	5738	0.110	ppbv	98
102) 1, 1, 2-Trichloroethane(...)	10.164	97	4140	0.101	ppbv	93
103) Dibromchloromethane(sim)	10.579	129	10022	0.101	ppbv	96
104) 1, 2-Dibromethane(EDB)...	10.719	107	6634	0.107	ppbv	98
105) Tetrachloroethene(sim)	10.967	166	7492	0.085	ppbv	98
107) Bromoform(sim)	11.697	173	9404	0.104	ppbv	99
108) m p-Xylene(sim)	11.609	91	22000	0.206	ppbv	94
109) 1, 1, 2, 2-Tetrachloroeth...	11.871	83	10612	0.102	ppbv	97
112) Benzyl chloride(sim)	12.952	91	6177	0.128	ppbv	93
113) 1, 3-Dichlorobenzene(sim)	12.968	146	8598	0.093	ppbv	96
114) 1, 4-Dichlorobenzene(sim)	13.014	146	5151	0.084	ppbv#	66
115) sec-Butylbenzene(sim)	13.009	105	18173	0.094	ppbv	99
116) 4-Isopropyltoluene(sim)	13.096	119	16325	0.101	ppbv	95

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17a\
 Data File : 0317_09.D
 Acq On : 17 Mar 2022 7:51 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10 ppb : AIR
 ALS Vial : 40 Sample Multiplier: 1

Quant Time: Mar 17 20:27:01 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 20:26:54 2022
 Response via : Initial Calibration

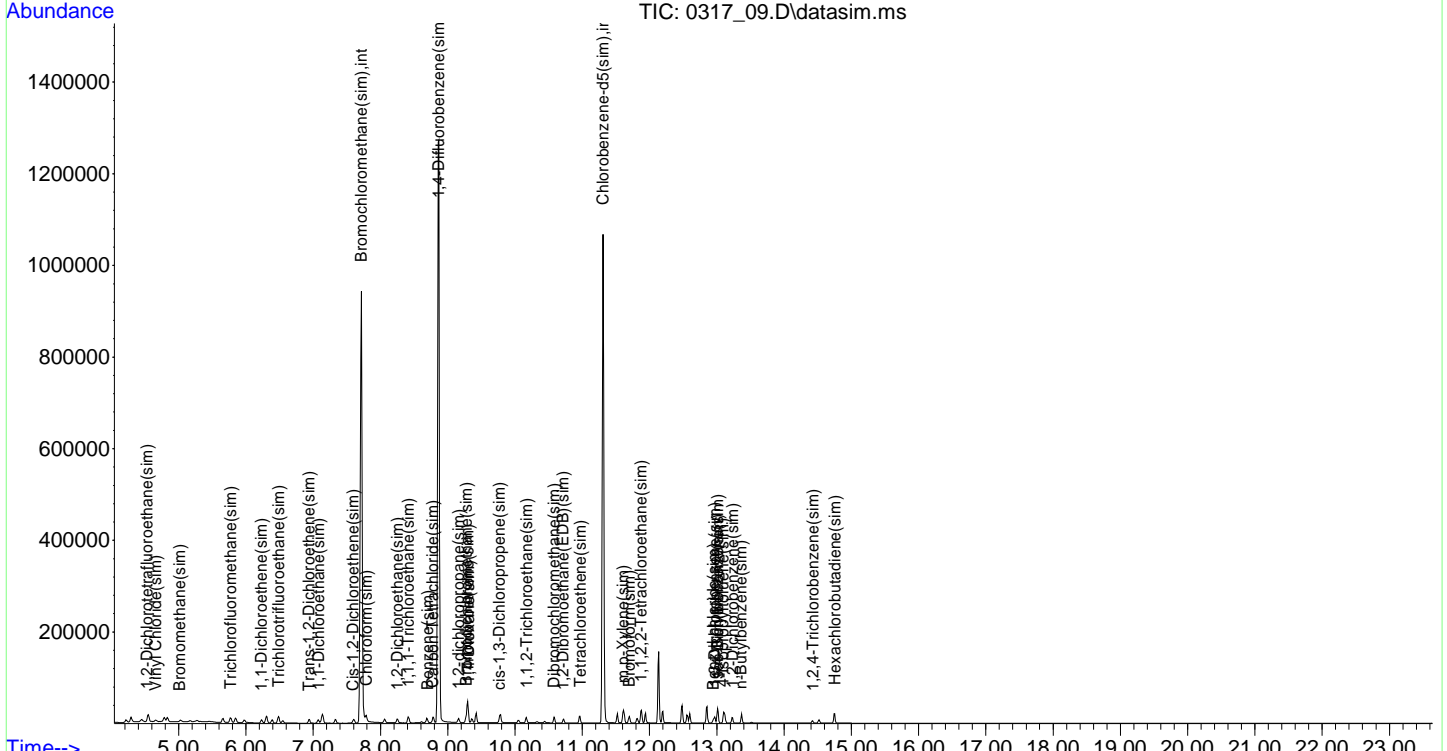
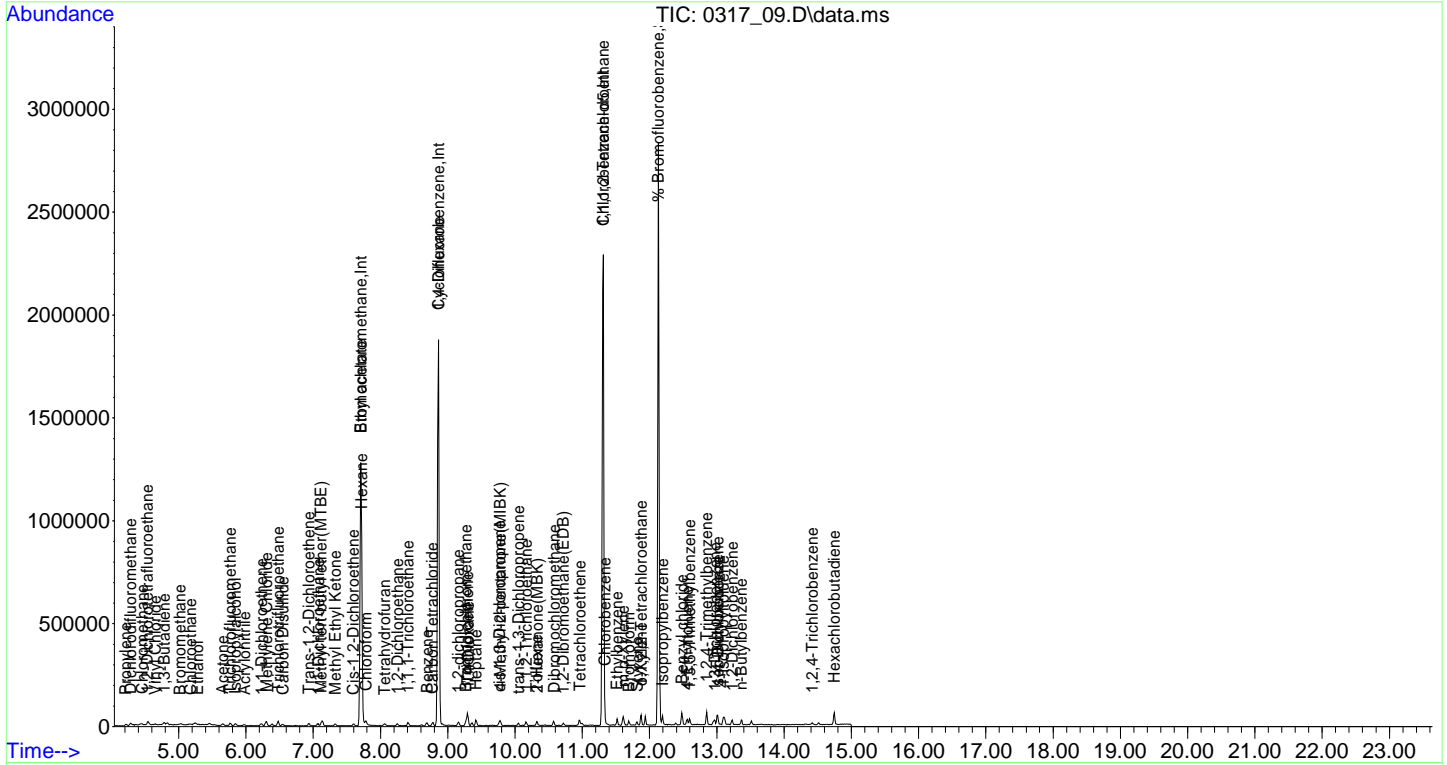
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
117] 1, 2-Dichlorobenzene(sim)	13.235	146	9121	0.095	ppbv	97
118] n-Butylbenzene(sim)	13.363	91	11177	0.097	ppbv	95
119] 1, 2, 4-Trichlorobenzene...	14.425	180	3249	0.167	ppbv	98
121] Hexachlorobutadiene(sim)	14.754	225	12591	0.116	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17a\
 Data File : 0317_09.D
 Acq On : 17 Mar 2022 7:51 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10 ppb : AIR
 ALS Vial : 40 Sample Multiplier: 1

Quant Time: Mar 17 20:27:01 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 20:26:54 2022
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_10.D
 Acq On : 17 Mar 2022 8:23 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.20 ppb : AIR
 ALS Vial : 41 Sample Multiplier: 1

Quant Time: Mar 18 08:40:54 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 20:27:49 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.709	130	327374	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	1170081	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	551392	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	360719	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	1170081	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	551392	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	690936	0.000	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	0.00%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.210	41	9458	0.221	ppbv	90
3) Dichlorodifluoromethane	4.286	85	17670	0.202	ppbv#	93
4) Chloromethane	4.448	50	13222	0.232	ppbv	99
5) 1,2-Dichlorotetrafluor...	4.545	85	16188	0.196	ppbv	92
6) Vinyl Chloride	4.652	62	9093	0.206	ppbv	98
7) 1,3-Butadiene	4.782	54	9190	0.208	ppbv	98
8) Bromomethane	5.019	94	6803	0.228	ppbv#	97
9) Chloroethane	5.170	64	4032	0.223	ppbv	94
11) Ethanol	5.267	45	6638	0.254	ppbv	97
12) Acetone	5.655	43	22790	0.250	ppbv	92
13) Trichlorofluoromethane	5.762	101	19516	0.209	ppbv	98
14) Isopropylalcohol	5.838	45	24070	0.214	ppbv#	93
15) Acrylonitrile	5.978	53	9612	0.207	ppbv#	79
16) 1,1-Dichloroethene	6.228	61	15016	0.198	ppbv	91
17) Methylene Chloride	6.297	49	16135	0.219	ppbv	94
20) Carbon Disulfide	6.538	76	17308	0.197	ppbv	100
21) Trichlorotrifluoroethane	6.478	101	14756	0.205	ppbv	99
22) Trans-1,2-Dichloroethene	6.936	61	13010	0.191	ppbv	98
23) 1,1-Dichloroethane	7.070	63	15273	0.193	ppbv	95
24) Methyl tert-butyl ethe...	7.117	73	13643	0.183	ppbv#	84
26) Methyl Ethyl Ketone	7.330	43	22393	0.189	ppbv	96
27) Cis-1,2-Dichloroethene	7.595	61	12340	0.190	ppbv	87
28) Hexane	7.720	57	13802	0.176	ppbv#	95
29) Chloroform	7.782	83	14601	0.199	ppbv	88
30) Ethyl acetate	7.720	61	2924	0.191	ppbv#	69
31) Tetrahydrofuran	8.064	42	11676	0.185	ppbv#	90
32) 1,2-Dichloroethane	8.251	62	12616	0.197	ppbv#	86
33) 1,1,1-Trichloroethane	8.407	97	15109	0.191	ppbv	96
34) Benzene	8.681	78	16636	0.183	ppbv#	92
35) Carbon Tetrachloride	8.783	117	16026	0.187	ppbv	92
36) Cyclohexane	8.862	84	13223	0.347	ppbv#	85
38) 1,2-dichloropropane	9.156	63	10819	0.200	ppbv	97
39) Bromdichloromethane	9.270	83	16119	0.205	ppbv	94
40) Trichloroethene	9.292	130	9045	0.192	ppbv	97
42) 1,4-Dioxane	9.292	88	3290	0.177	ppbv#	60
44) Heptane	9.417	43	17926	0.166	ppbv#	90
45) cis-1,3-Dichloropropene	9.768	75	9678	0.186	ppbv	94
46) 4-Methyl-2-pentanone(M..	9.779	43	23233	0.167	ppbv#	97
47) trans-1,3-Dichloropropene	10.051	75	7654	0.161	ppbv#	89
48) 1,1,2-Trichloroethane	10.164	97	8433	0.198	ppbv	90
49) Toluene	10.322	91	19965	0.174	ppbv#	97
50) Dibromochloromethane	10.573	129	16008	0.178	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_10.D
 Acq On : 17 Mar 2022 8:23 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.20 ppb : AIR
 ALS Vial : 41 Sample Multiplier: 1

Quant Time: Mar 18 08:40:54 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 20:27:49 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
51) 2-Hexanone (MBK)	10.435	43	22989m	0.169	ppbv	53
52) 1,2-Dibromethane (EDB)	10.718	107	12220	0.187	ppbv	95
53) Tetrachloroethene	10.961	166	12101	0.188	ppbv	90
55) 1,1,1,2-Tetrachloroethane	11.312	131	11798	0.216	ppbv	93
56) Chlorobenzene	11.332	112	18204	0.202	ppbv#	63
57) Ethylbenzene	11.517	91	23745	0.181	ppbv	89
58) m p-Xylene	11.609	91	36623	0.348	ppbv	96
59) Bromform	11.691	173	15310	0.205	ppbv	95
60) Styrene	11.814	104	11149	0.150	ppbv	93
61) 1,1,2,2-Tetrachloroethane	11.875	83	19251	0.216	ppbv#	85
62) o-Xylene	11.875	91	18571	0.169	ppbv	93
65) Isopropylbenzene	12.193	105	32857	0.203	ppbv	99
67) 4-Ethyltoluene	12.562	105	28621	0.166	ppbv	98
68) 1,3,5-Trimethylbenzene	12.593	105	18327	0.148	ppbv	96
69) 1,2,4-Trimethylbenzene	12.850	105	20475	0.150	ppbv	93
71) Benzyl chloride	12.480	91	50619	0.179	ppbv	99
72) 1,3-Dichlorobenzene	12.973	146	13915	0.153	ppbv#	88
73) 1,4-Dichlorobenzene	13.004	146	8926	0.123	ppbv#	82
74) sec-Butylbenzene	13.014	105	33635	0.171	ppbv	96
75) 4-Isopropyltoluene	13.096	119	27968	0.155	ppbv	96
76) 1,2-Dichlorobenzene	13.229	146	15681	0.177	ppbv	93
77) n-Butylbenzene	13.363	91	22006	0.153	ppbv	92
78) 1,2,4-Trichlorobenzene	14.420	180	5227	0.116	ppbv	90
80) Hexachlorobutadiene	14.748	225	17720	0.204	ppbv	96
82) 1,2-Dichlorotetrafluor...	4.545	85	16187	0.186	ppbv	92
83) Vinyl Chloride(sim)	4.658	62	9492	0.195	ppbv	99
84) Brommethane(sim)	5.019	94	6803	0.210	ppbv#	97
85) Trichlorofluoromethane...	5.768	101	20553	0.205	ppbv#	99
86) 1,2-Dichloroethane(sim)	8.251	62	12616	0.208	ppbv#	86
87) 1,1,1-Trichloroethane(...)	8.413	97	16813	0.200	ppbv#	94
88) Benzene(sim)	8.681	78	16636	0.180	ppbv#	92
89) Carbon Tetrachloride(sim)	8.777	117	17786	0.201	ppbv	96
90) 1,1-Dichloroethene(sim)	6.228	61	15016	0.197	ppbv	91
91) Trichlorotrifluoroetha...	6.484	101	15857	0.206	ppbv#	100
92) Trans-1,2-Dichloroethe...	6.936	61	13010	0.198	ppbv	98
93) 1,1-Dichloroethane(sim)	7.076	63	17012	0.202	ppbv	97
94) Cis-1,2-Dichloroethene...	7.595	61	12340	0.204	ppbv	87
95) Chloroform(sim)	7.788	83	16082	0.202	ppbv	95
97) 1,2-dichloropropane(sim)	9.162	63	11853	0.192	ppbv	89
98) Bromdichloromethane(sim)	9.270	83	16119	0.197	ppbv	92
99) Trichloroethene(sim)	9.298	130	10307	0.195	ppbv	99
100) 1,4-Dioxane(sim)	9.292	88	3290	0.180	ppbv#	60
101) cis-1,3-Dichloropropen...	9.762	75	10161	0.196	ppbv	100
102) 1,1,2-Trichloroethane(...)	10.164	97	8433	0.206	ppbv	90
103) Dibromchloromethane(sim)	10.578	129	18176	0.185	ppbv	99
104) 1,2-Dibromethane(EDB)...	10.718	107	12220	0.198	ppbv	95
105) Tetrachloroethene(sim)	10.967	166	14196	0.161	ppbv	100
107) Bromoform(sim)	11.696	173	17363	0.192	ppbv	99
108) m p-Xylene(sim)	11.609	91	36623	0.343	ppbv	96
109) 1,1,2,2-Tetrachloroeth...	11.871	83	19639	0.188	ppbv	97
112) Benzyl chloride(sim)	12.952	91	11620	0.229	ppbv	97
113) 1,3-Dichlorobenzene(sim)	12.968	146	15826	0.172	ppbv	96
114) 1,4-Dichlorobenzene(sim)	13.004	146	8926	0.151	ppbv#	82
115) sec-Butylbenzene(sim)	13.009	105	34356	0.178	ppbv	99
116) 4-Isopropyltoluene(sim)	13.096	119	28060	0.174	ppbv	96

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_10.D
 Acq On : 17 Mar 2022 8:23 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.20 ppb : AIR
 ALS Vial : 41 Sample Multiplier: 1

Quant Time: Mar 18 08:40:54 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 20:27:49 2022
 Response via : Initial Calibration

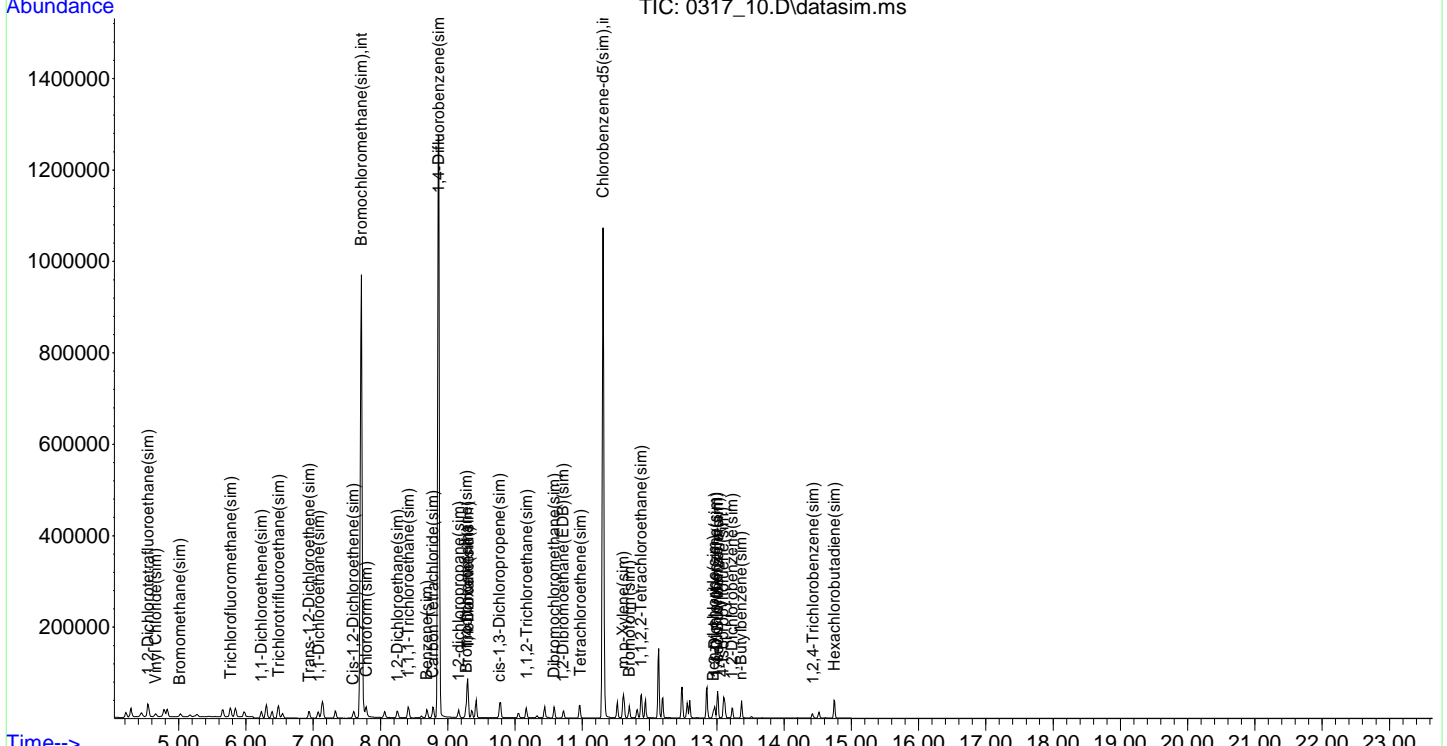
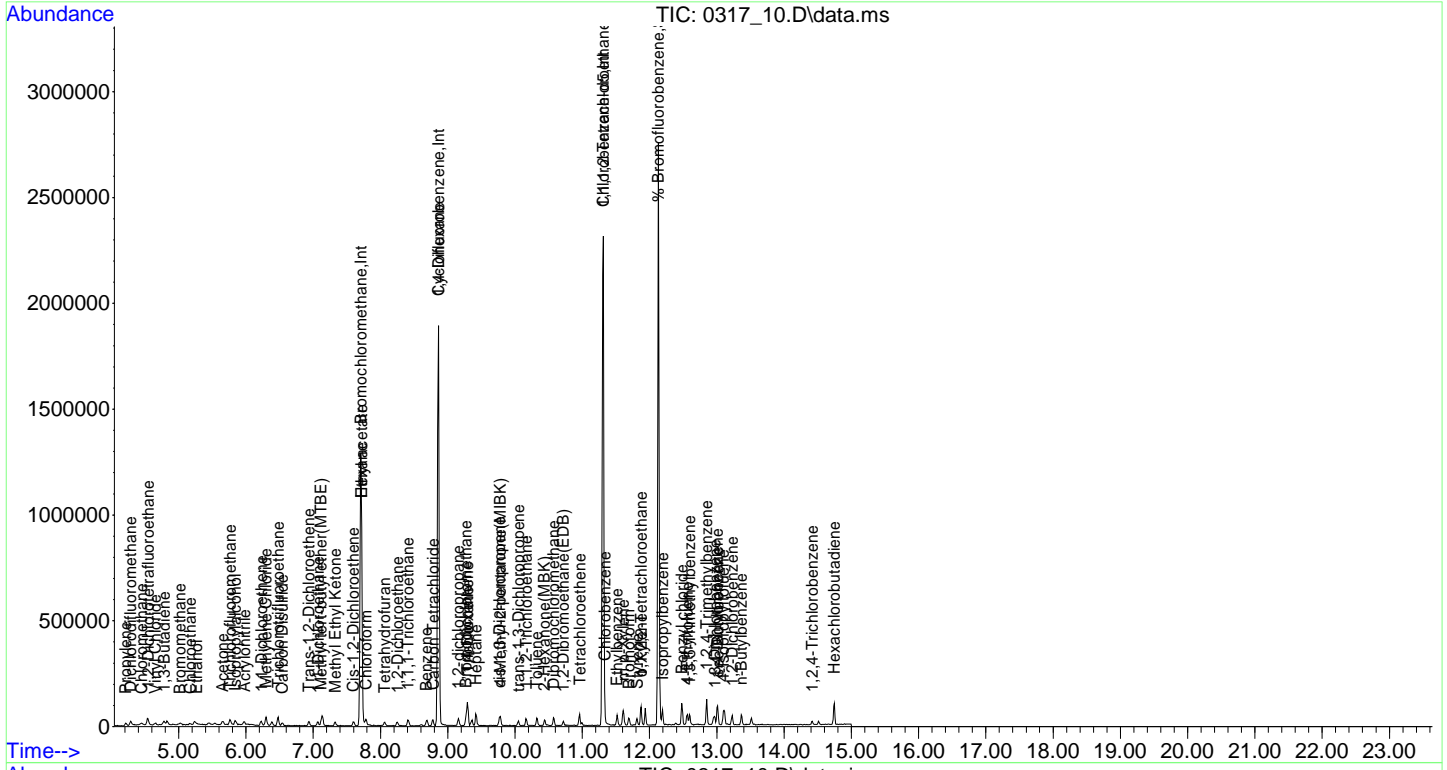
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
117] 1, 2-Dichlorobenzene(sim)	13.225	146	17040	0.177	ppbv	98
118] n-Butylbenzene(sim)	13.363	91	22006	0.192	ppbv	92
119] 1, 2, 4-Trichlorobenzene...	14.425	180	5920	0.261	ppbv	99
121] Hexachlorobutadiene(sim)	14.743	225	22903	0.212	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0317_10.D
Acq On : 17 Mar 2022 8:23 pm
Operator :
Client ID : ICAL 0.2
Lab ID : 0.20 ppb : AIR
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Mar 18 08:40:54 2022
Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 17 20:27:49 2022
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_11.D
 Acq On : 17 Mar 2022 8:57 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.50 ppb : AIR
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Mar 18 08:40:59 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 21:13:11 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.709	130	324346	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	1153861	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	551702	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	355143	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	1153861	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	551702	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	723612	10.467	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	104.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.221	41	22864	0.539	ppbv	97
3) Dichlorodifluoromethane	4.286	85	41893	0.483	ppbv	95
4) Chloromethane	4.448	50	27994	0.496	ppbv	93
5) 1,2-Dichlorotetrafluor...	4.545	85	38142	0.466	ppbv	98
6) Vinyl Chloride	4.663	62	21273	0.487	ppbv	94
7) 1,3-Butadiene	4.782	54	20732	0.473	ppbv#	89
8) Bromomethane	5.030	94	14178	0.480	ppbv#	97
9) Chloroethane	5.170	64	8934	0.499	ppbv	95
11) Ethanol	5.267	45	14097	0.544	ppbv#	85
12) Acetone	5.655	43	47360	0.524	ppbv	91
13) Trichlorofluoromethane	5.762	101	44062	0.475	ppbv	95
14) Isopropylalcohol	5.849	45	50596	0.455	ppbv#	89
15) Acrylonitrile	5.978	53	21974	0.477	ppbv	97
16) 1,1-Dichloroethene	6.228	61	35189	0.468	ppbv	94
17) Methylene Chloride	6.306	49	35175	0.482	ppbv	95
20) Carbon Disulfide	6.547	76	41502	0.477	ppbv	96
21) Trichlorotrifluoroethane	6.478	101	34165	0.479	ppbv	97
22) Trans-1,2-Dichloroethene	6.936	61	30581	0.454	ppbv	99
23) 1,1-Dichloroethane	7.070	63	36580	0.466	ppbv	97
24) Methyl tert-butyl ethe...	7.125	73	32368	0.438	ppbv#	82
26) Methyl Ethyl Ketone	7.322	43	52358	0.446	ppbv#	94
27) Cis-1,2-Dichloroethene	7.605	61	28577	0.444	ppbv	89
28) Hexane	7.720	57	30743	0.395	ppbv	94
29) Chloroform	7.793	83	33932	0.466	ppbv	90
30) Ethyl acetate	7.720	61	6896	0.455	ppbv#	91
31) Tetrahydrofuran	8.064	42	24160	0.387	ppbv	96
32) 1,2-Dichloroethane	8.251	62	29157	0.460	ppbv	92
33) 1,1,1-Trichloroethane	8.407	97	38218	0.487	ppbv	97
34) Benzene	8.692	78	40767	0.453	ppbv	97
35) Carbon Tetrachloride	8.783	117	38827	0.457	ppbv	94
36) Cyclohexane	8.862	84	21407	0.567	ppbv	90
38) 1,2-dichloropropane	9.157	63	25652	0.482	ppbv	90
39) Bromdichloromethane	9.270	83	37948	0.490	ppbv	96
40) Trichloroethene	9.292	130	21901	0.471	ppbv	94
42) 1,4-Dioxane	9.304	88	7378	0.403	ppbv#	57
44) Heptane	9.417	43	42399	0.399	ppbv#	87
45) cis-1,3-Dichloropropene	9.768	75	21011	0.410	ppbv	93
46) 4-Methyl-2-pentanone(M..	9.779	43	59181	0.432	ppbv#	98
47) trans-1,3-Dichloropropene	10.051	75	19781	0.422	ppbv	93
48) 1,1,2-Trichloroethane	10.164	97	20119	0.479	ppbv	98
49) Toluene	10.334	91	47339	0.418	ppbv	98
50) Dibromochloromethane	10.573	129	40176	0.454	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_11.D
 Acq On : 17 Mar 2022 8:57 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.50 ppb : AIR
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Mar 18 08:40:59 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 21:13:11 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
51) 2-Hexanone (MBK)	10.435	43	54646m	0.408	ppbv	53
52) 1,2-Dibromethane (EDB)	10.718	107	29145	0.451	ppbv	97
53) Tetrachloroethene	10.961	166	29793	0.470	ppbv	94
55) 1,1,1,2-Tetrachloroethane	11.322	131	28767	0.526	ppbv	94
56) Chlorobenzene	11.332	112	45643	0.506	ppbv	93
57) Ethylbenzene	11.517	91	58886	0.448	ppbv	93
58) m p-Xylene	11.609	91	92379	0.878	ppbv	98
59) Bromoform	11.691	173	35499	0.474	ppbv	97
60) Styrene	11.814	104	28940	0.389	ppbv	96
61) 1,1,2,2-Tetrachloroethane	11.875	83	43056	0.482	ppbv	93
62) o-Xylene	11.875	91	47853	0.434	ppbv	97
65) Isopropylbenzene	12.193	105	77234	0.477	ppbv	96
67) 4-Ethyltoluene	12.562	105	70999	0.411	ppbv	91
68) 1,3,5-Trimethylbenzene	12.593	105	52967	0.429	ppbv	95
69) 1,2,4-Trimethylbenzene	12.850	105	55180	0.405	ppbv	98
71) Benzyl chloride	12.480	91	125353	0.443	ppbv	96
72) 1,3-Dichlorobenzene	12.963	146	37805	0.416	ppbv	94
73) 1,4-Dichlorobenzene	13.004	146	24458	0.338	ppbv	94
74) sec-Butylbenzene	13.014	105	83041	0.421	ppbv	99
75) 4-Isopropyltoluene	13.096	119	77576	0.428	ppbv	96
76) 1,2-Dichlorobenzene	13.229	146	37958	0.429	ppbv	95
77) n-Butylbenzene	13.363	91	53625	0.373	ppbv	99
78) 1,2,4-Trichlorobenzene	14.420	180	12675	0.282	ppbv	95
80) Hexachlorobutadiene	14.748	225	41963	0.482	ppbv	94
82) 1,2-Dichlorotetrafluor...	4.545	85	38146	0.446	ppbv	98
83) Vinyl Chloride(sim)	4.658	62	22518	0.471	ppbv	98
84) Bromomethane(sim)	5.030	94	14178	0.445	ppbv#	97
85) Trichlorofluoromethane...	5.768	101	48626	0.492	ppbv#	100
86) 1,2-Dichloroethane(sim)	8.251	62	29157	0.488	ppbv	92
87) 1,1,1-Trichloroethane(...)	8.413	97	39826	0.482	ppbv#	96
88) Benzene(sim)	8.692	78	40767	0.447	ppbv	97
89) Carbon Tetrachloride(sim)	8.789	117	42495	0.489	ppbv	97
90) 1,1-Dichloroethene(sim)	6.228	61	35189	0.470	ppbv	94
91) Trichlorotrifluoroetha...	6.484	101	37609	0.497	ppbv#	100
92) Trans-1,2-Dichloroethe...	6.936	61	30581	0.472	ppbv	99
93) 1,1-Dichloroethane(sim)	7.076	63	40890	0.492	ppbv	96
94) Cis-1,2-Dichloroethene...	7.605	61	28577	0.480	ppbv	89
95) Chloroform(sim)	7.788	83	38079	0.485	ppbv	98
97) 1,2-dichloropropane(sim)	9.162	63	27720	0.456	ppbv	89
98) Bromdichloromethane(sim)	9.270	83	38054	0.472	ppbv	96
99) Trichloroethene(sim)	9.298	130	24342	0.466	ppbv	99
100) 1,4-Dioxane(sim)	9.304	88	7378	0.409	ppbv#	57
101) cis-1,3-Dichloropropen...	9.773	75	24269	0.475	ppbv	100
102) 1,1,2-Trichloroethane(...)	10.164	97	20119	0.499	ppbv	98
103) Dibromchloromethane(sim)	10.578	129	43902	0.453	ppbv	100
104) 1,2-Dibromethane(EDB)...	10.718	107	29145	0.479	ppbv	97
105) Tetrachloroethene(sim)	10.967	166	34881	0.402	ppbv	98
107) Bromoform(sim)	11.696	173	41872	0.462	ppbv	99
108) m p-Xylene(sim)	11.609	91	92379	0.866	ppbv	98
109) 1,1,2,2-Tetrachloroeth...	11.871	83	47522	0.455	ppbv	97
112) Benzyl chloride(sim)	12.952	91	29965	0.576	ppbv	98
113) 1,3-Dichlorobenzene(sim)	12.968	146	41284	0.448	ppbv	96
114) 1,4-Dichlorobenzene(sim)	13.004	146	24458	0.432	ppbv	94
115) sec-Butylbenzene(sim)	13.009	105	92640	0.481	ppbv	98
116) 4-Isopropyltoluene(sim)	13.096	119	77576	0.481	ppbv	96

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_11.D
 Acq On : 17 Mar 2022 8:57 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.50 ppb : AIR
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Mar 18 08:40:59 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 21:13:11 2022
 Response via : Initial Calibration

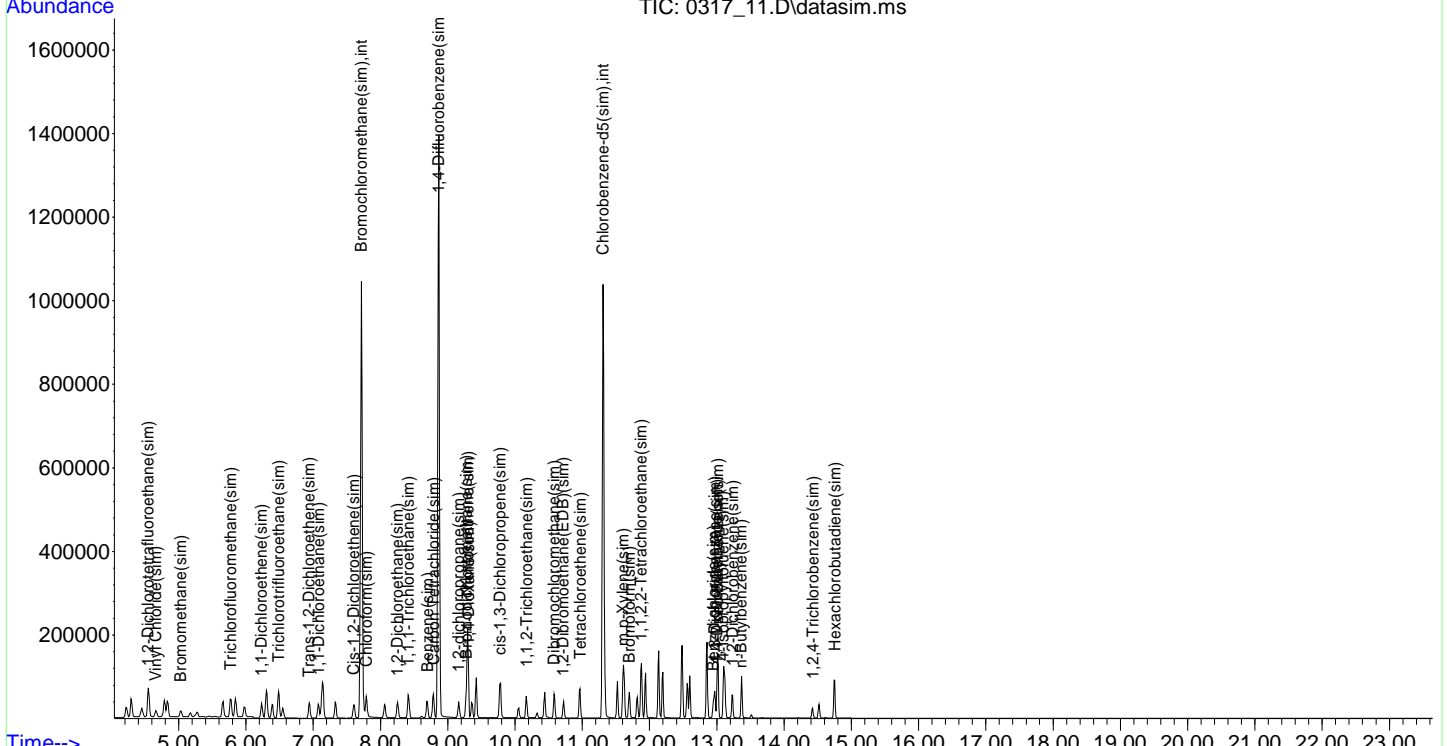
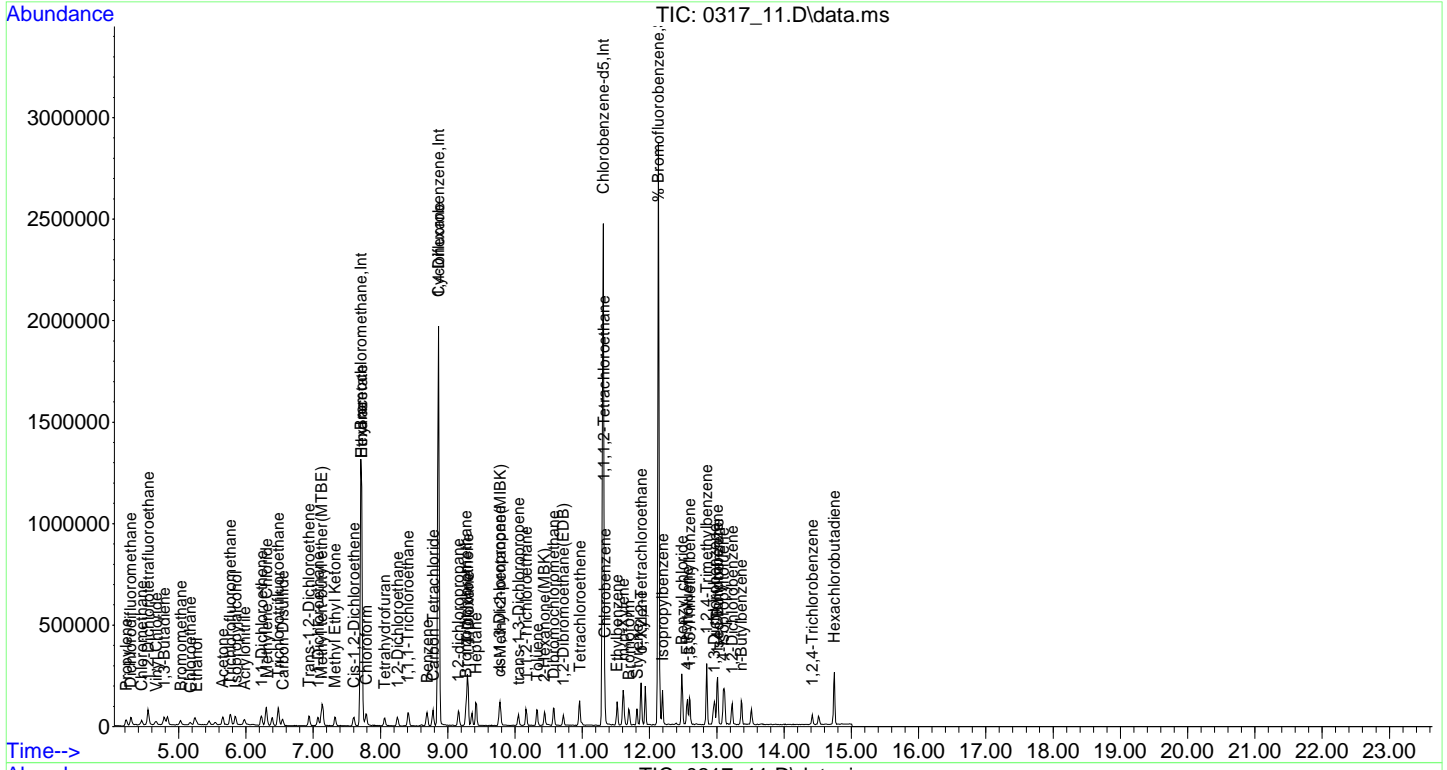
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
117] 1, 2-Dichlorobenzene(sim)	13.235	146	43153	0.449	ppbv	98
118] n-Butylbenzene(sim)	13.363	91	53625	0.467	ppbv	99
119] 1, 2, 4-Trichlorobenzene...	14.425	180	15312	0.636	ppbv	97
121] Hexachlorobutadiene(sim)	14.754	225	56204	0.519	ppbv	100

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_11.D
 Acq On : 17 Mar 2022 8:57 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.50 ppb : AIR
 ALS Vial : 42 Sample Multiplier: 1

Quant Time: Mar 18 08:40:59 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 21:13:11 2022
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_12.D
 Acq On : 17 Mar 2022 9:31 pm
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5 ppb ; AIR
 ALS Vial : 43 Sample Multiplier: 1

Quant Time: Mar 18 08:41:04 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 21:13:15 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.709	130	328076	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	1176281	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	572992	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	354944	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	1175618	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	572992	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.131	95	772302	10.756	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	107.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.210	41	105065	2.448	ppbv	96
3) Dichlorodifluoromethane	4.286	85	214927	2.449	ppbv	98
4) Chloromethane	4.447	50	133190	2.333	ppbv	96
5) 1,2-Dichlorotetrafluor...	4.544	85	201979	2.442	ppbv	98
6) Vinyl Chloride	4.652	62	104690	2.368	ppbv	98
7) 1,3-Butadiene	4.782	54	101225	2.283	ppbv	97
8) Bromomethane	5.019	94	69382	2.322	ppbv	99
9) Chloroethane	5.170	64	41345	2.285	ppbv	98
11) Ethanol	5.267	45	61171	2.335	ppbv#	95
12) Acetone	5.644	43	205839	2.251	ppbv#	89
13) Trichlorofluoromethane	5.762	101	227385	2.426	ppbv	99
14) Isopropylalcohol	5.827	45	263784	2.345	ppbv	99
15) Acrylonitrile	5.967	53	114140	2.450	ppbv	98
16) 1,1-Dichloroethene	6.228	61	178126	2.342	ppbv#	90
17) Methylene Chloride	6.306	49	178385	2.415	ppbv	93
20) Carbon Disulfide	6.538	76	209904	2.388	ppbv	95
21) Trichlorotrifluoroethane	6.478	101	171609	2.379	ppbv	98
22) Trans-1,2-Dichloroethene	6.936	61	160659	2.359	ppbv	92
23) 1,1-Dichloroethane	7.070	63	191867	2.417	ppbv	97
24) Methyl tert-butyl ethe...	7.109	73	166703	2.232	ppbv#	84
26) Methyl Ethyl Ketone	7.314	43	274209	2.307	ppbv	96
27) Cis-1,2-Dichloroethene	7.605	61	148055	2.276	ppbv	87
28) Hexane	7.720	57	181183	2.299	ppbv#	84
29) Chloroform	7.782	83	175237	2.381	ppbv	96
30) Ethyl acetate	7.709	61	35112	2.289	ppbv#	91
31) Tetrahydrofuran	8.053	42	140993	2.234	ppbv#	91
32) 1,2-Dichloroethane	8.251	62	156215	2.439	ppbv	99
33) 1,1,1-Trichloroethane	8.407	97	184498	2.326	ppbv	97
34) Benzene	8.692	78	212395	2.332	ppbv	96
35) Carbon Tetrachloride	8.783	117	207641	2.417	ppbv	98
36) Cyclohexane	8.862	84	87163	2.283	ppbv	88
38) 1,2-dichloropropane	9.156	63	128270	2.364	ppbv	90
39) Bromdichloromethane	9.270	83	191553	2.428	ppbv	99
40) Trichloroethene	9.292	130	118844	2.507	ppbv	95
42) 1,4-Dioxane	9.292	88	45653	2.446	ppbv#	67
44) Heptane	9.417	43	267591	2.470	ppbv#	89
45) cis-1,3-Dichloropropene	9.768	75	122680	2.351	ppbv	98
46) 4-Methyl-2-pentanone(M..	9.779	43	339759	2.430	ppbv#	96
47) trans-1,3-Dichloropropene	10.051	75	111280	2.330	ppbv	99
48) 1,1,2-Trichloroethane	10.164	97	104040	2.431	ppbv	97
49) Toluene	10.322	91	272110	2.356	ppbv#	98
50) Dibromochloromethane	10.573	129	210028	2.326	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_12.D
 Acq On : 17 Mar 2022 9:31 pm
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5 ppb ; AIR
 ALS Vial : 43 Sample Multiplier: 1

Quant Time: Mar 18 08:41:04 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 21:13:15 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
51) 2-Hexanone (MBK)	10.435	43	311105m	2.281	ppbv	53
52) 1,2-Dibromethane (EDB)	10.718	107	159114	2.418	ppbv	96
53) Tetrachloroethene	10.961	166	156155	2.418	ppbv	93
55) 1,1,1,2-Tetrachloroethane	11.322	131	146049	2.571	ppbv	96
56) Chlorobenzene	11.332	112	239030	2.550	ppbv	87
57) Ethylbenzene	11.517	91	341085	2.496	ppbv	95
58) m p-Xylene	11.609	91	581010	5.318	ppbv	100
59) Bromoform	11.691	173	195622	2.517	ppbv	93
60) Styrene	11.814	104	193173	2.498	ppbv	96
61) 1,1,2,2-Tetrachloroethane	11.875	83	238312	2.570	ppbv	95
62) o-Xylene	11.875	91	303343	2.652	ppbv	99
65) Isopropylbenzene	12.193	105	427218	2.539	ppbv	96
67) 4-Ethyltoluene	12.562	105	483855	2.696	ppbv#	91
68) 1,3,5-Trimethylbenzene	12.593	105	338716	2.639	ppbv	92
69) 1,2,4-Trimethylbenzene	12.850	105	375446	2.656	ppbv	95
71) Benzyl chloride	12.480	91	763228	2.595	ppbv	98
72) 1,3-Dichlorobenzene	12.962	146	239970	2.540	ppbv	99
73) 1,4-Dichlorobenzene	13.003	146	212756	2.830	ppbv	95
74) sec-Butylbenzene	13.014	105	553928	2.703	ppbv	97
75) 4-Isopropyltoluene	13.096	119	504716	2.683	ppbv	98
76) 1,2-Dichlorobenzene	13.229	146	237732	2.586	ppbv	99
77) n-Butylbenzene	13.363	91	385536	2.583	ppbv	98
78) 1,2,4-Trichlorobenzene	14.420	180	107392	2.299	ppbv	91
80) Hexachlorobutadiene	14.748	225	247652	2.742	ppbv	100
82) 1,2-Dichlorotetrafluor...	4.544	85	201990	2.362	ppbv	98
83) Vinyl Chloride(sim)	4.658	62	114073	2.386	ppbv	98
84) Bromomethane(sim)	5.019	94	69382	2.180	ppbv	99
85) Trichlorofluoromethane...	5.768	101	246825	2.501	ppbv#	99
86) 1,2-Dichloroethane(sim)	8.251	62	156445	2.622	ppbv	99
87) 1,1,1-Trichloroethane(...)	8.413	97	208304	2.522	ppbv#	97
88) Benzene(sim)	8.692	78	212393	2.331	ppbv	96
89) Carbon Tetrachloride(sim)	8.789	117	222300	2.559	ppbv	97
90) 1,1-Dichloroethene(sim)	6.228	61	178126	2.381	ppbv#	90
91) Trichlorotrifluoroetha...	6.484	101	188862	2.497	ppbv#	100
92) Trans-1,2-Dichloroethe...	6.936	61	160659	2.483	ppbv	92
93) 1,1-Dichloroethane(sim)	7.075	63	207423	2.499	ppbv	97
94) Cis-1,2-Dichloroethene...	7.605	61	148055	2.487	ppbv	87
95) Chloroform(sim)	7.788	83	193078	2.460	ppbv	97
97) 1,2-dichloropropane(sim)	9.162	63	143207	2.313	ppbv	89
98) Bromdichloromethane(sim)	9.270	83	191553	2.332	ppbv	98
99) Trichloroethene(sim)	9.298	130	128491	2.416	ppbv	99
100) 1,4-Dioxane(sim)	9.292	88	45653	2.482	ppbv#	67
101) cis-1,3-Dichloropropen...	9.773	75	135110	2.597	ppbv	100
102) 1,1,2-Trichloroethane(...)	10.164	97	104040	2.533	ppbv	97
103) Dibromchloromethane(sim)	10.578	129	233157	2.359	ppbv	100
104) 1,2-Dibromethane(EDB)...	10.718	107	159114	2.564	ppbv	96
105) Tetrachloroethene(sim)	10.967	166	182603	2.065	ppbv	99
107) Bromoform(sim)	11.696	173	226412	2.403	ppbv	99
108) m p-Xylene(sim)	11.609	91	583943	5.270	ppbv	100
109) 1,1,2,2-Tetrachloroeth...	11.871	83	256117	2.361	ppbv	97
112) Benzyl chloride(sim)	12.952	91	207820	3.846	ppbv	97
113) 1,3-Dichlorobenzene(sim)	12.968	146	271643	2.838	ppbv	96
114) 1,4-Dichlorobenzene(sim)	13.003	146	212756	3.616	ppbv	95
115) sec-Butylbenzene(sim)	13.009	105	590478	2.951	ppbv	98
116) 4-Isopropyltoluene(sim)	13.096	119	505232	3.016	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_12.D
 Acq On : 17 Mar 2022 9:31 pm
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5 ppb ; AIR
 ALS Vial : 43 Sample Multiplier: 1

Quant Time: Mar 18 08:41:04 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 21:13:15 2022
 Response via : Initial Calibration

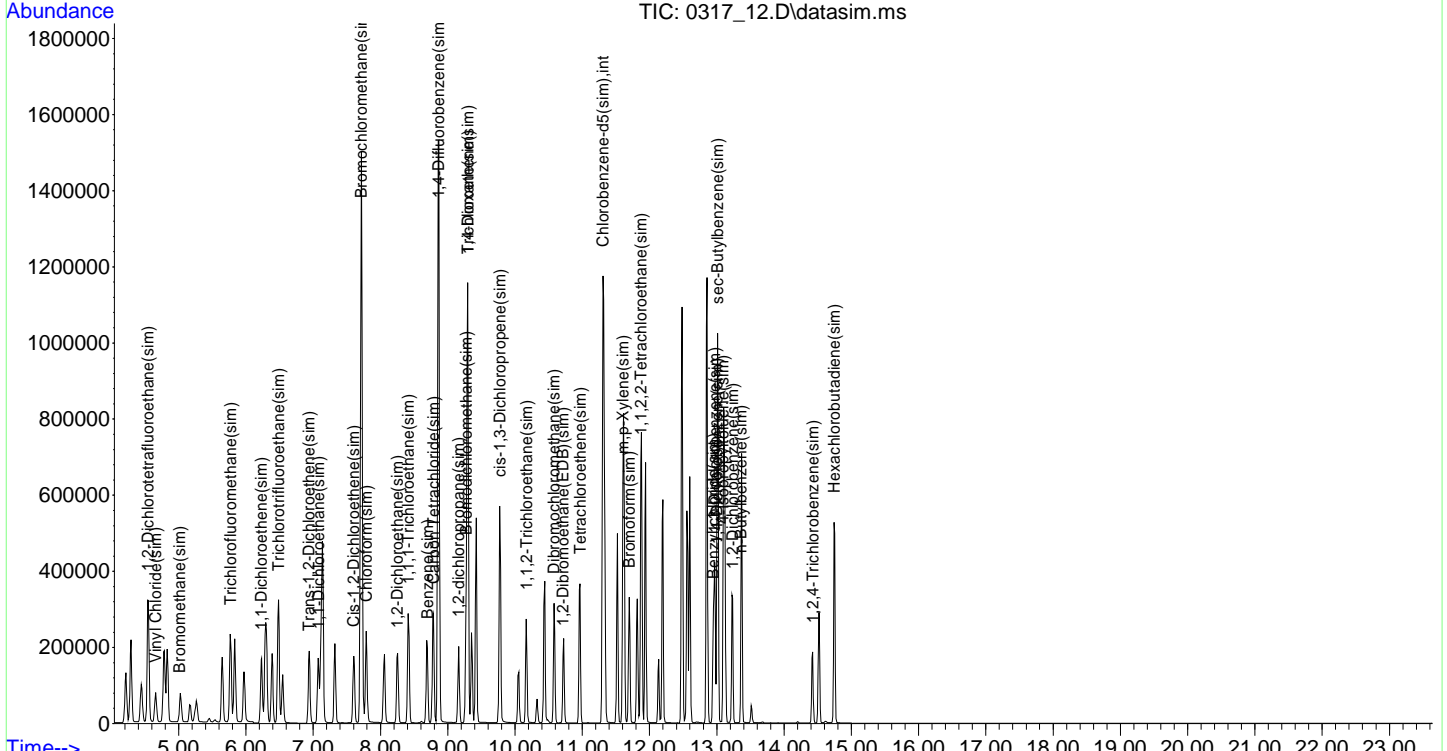
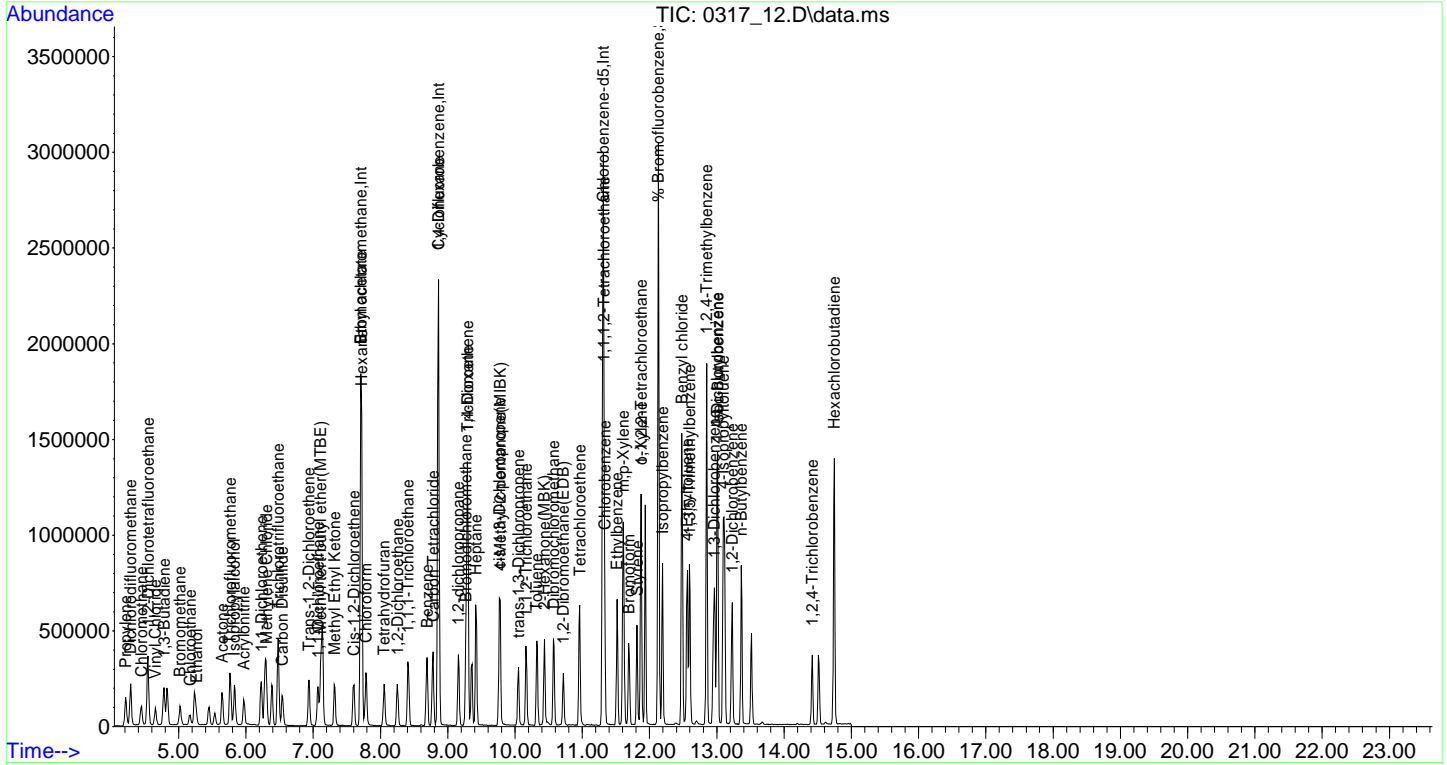
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
117] 1, 2-Dichlorobenzene(sim)	13.235	146	264440	2.647	ppbv	98
118] n-Butylbenzene(sim)	13.363	91	385536	3.231	ppbv	98
119] 1, 2, 4-Trichlorobenzene...	14.425	180	120762	4.831	ppbv	99
121] Hexachlorobutadiene(sim)	14.743	225	316039	2.812	ppbv	100

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0317_12.D
Acq On : 17 Mar 2022 9:31 pm
Operator :
Client ID : ICAL 2.5
Lab ID : 2.5 ppb ; AIR
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Mar 18 08:41:04 2022
Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 17 21:13:15 2022
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_13.D
 Acq On : 17 Mar 2022 10:03 pm
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0 ppb ; AIR
 ALS Vial : 44 Sample Multiplier: 1

Quant Time: Mar 18 08:41:08 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 21:13:15 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.709	130	329802	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	1233008	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	613123	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	364424	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	1232997	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	613123	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	819298	10.664	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	106.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.210	41	250517	5.806	ppbv	97
3) Dichlorodifluoromethane	4.286	85	496616	5.629	ppbv	99
4) Chloromethane	4.437	50	310019	5.402	ppbv	99
5) 1,2-Dichlorotetrafluor...	4.534	85	458977	5.519	ppbv	98
6) Vinyl Chloride	4.652	62	241326	5.430	ppbv	99
7) 1,3-Butadiene	4.782	54	240037	5.385	ppbv	97
8) Bromomethane	5.019	94	162743	5.419	ppbv	98
9) Chloroethane	5.159	64	95780	5.266	ppbv	95
11) Ethanol	5.256	45	143980	5.467	ppbv	95
12) Acetone	5.633	43	471799	5.132	ppbv#	87
13) Trichlorofluoromethane	5.763	101	516021	5.476	ppbv	97
14) Isopropylalcohol	5.827	45	629406	5.566	ppbv	97
15) Acrylonitrile	5.967	53	253293	5.408	ppbv	99
16) 1,1-Dichloroethene	6.228	61	410985	5.376	ppbv	92
17) Methylene Chloride	6.297	49	407660	5.489	ppbv	93
20) Carbon Disulfide	6.538	76	477137	5.399	ppbv	95
21) Trichlorotrifluoroethane	6.478	101	390336	5.384	ppbv	98
22) Trans-1,2-Dichloroethene	6.936	61	367557	5.368	ppbv	94
23) 1,1-Dichloroethane	7.070	63	441923	5.539	ppbv	98
24) Methyl tert-butyl ethe...	7.102	73	416687	5.550	ppbv#	90
26) Methyl Ethyl Ketone	7.314	43	669669	5.604	ppbv#	96
27) Cis-1,2-Dichloroethene	7.595	61	347511	5.313	ppbv	91
28) Hexane	7.720	57	453360	5.723	ppbv#	80
29) Chloroform	7.782	83	406433	5.494	ppbv	95
30) Ethyl acetate	7.709	61	86539	5.611	ppbv#	90
31) Tetrahydrofuran	8.053	42	357102	5.628	ppbv#	91
32) 1,2-Dichloroethane	8.251	62	351314	5.457	ppbv	97
33) 1,1,1-Trichloroethane	8.407	97	433894	5.440	ppbv	97
34) Benzene	8.693	78	502441	5.488	ppbv	95
35) Carbon Tetrachloride	8.783	117	485413	5.620	ppbv	99
36) Cyclohexane	8.862	84	199210	5.190	ppbv	86
38) 1,2-dichloropropane	9.157	63	306505	5.390	ppbv	89
39) Bromdichloromethane	9.270	83	444920	5.381	ppbv	99
40) Trichloroethene	9.292	130	276035	5.555	ppbv	96
42) 1,4-Dioxane	9.281	88	112053	5.727	ppbv#	64
44) Heptane	9.417	43	652944	5.751	ppbv	91
45) cis-1,3-Dichloropropene	9.768	75	306404	5.602	ppbv	97
46) 4-Methyl-2-pentanone(M..	9.768	43	829868	5.663	ppbv#	95
47) trans-1,3-Dichloropropene	10.051	75	276079	5.515	ppbv	99
48) 1,1,2-Trichloroethane	10.164	97	243781	5.435	ppbv	99
49) Toluene	10.322	91	665728	5.499	ppbv	98
50) Dibromochloromethane	10.573	129	497406	5.256	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_13.D
 Acq On : 17 Mar 2022 10:03 pm
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0 ppb ; AIR
 ALS Vial : 44 Sample Multiplier: 1

Quant Time: Mar 18 08:41:08 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 21:13:15 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
51) 2-Hexanone (MBK)	10.435	43	788951m	5.518	ppbv	53
52) 1,2-Dibromethane (EDB)	10.718	107	372102	5.394	ppbv	100
53) Tetrachloroethene	10.961	166	375139	5.542	ppbv	98
55) 1,1,1,2-Tetrachloroethane	11.322	131	340385	5.599	ppbv	95
56) Chlorobenzene	11.332	112	563183	5.614	ppbv	86
57) Ethylbenzene	11.517	91	863525	5.906	ppbv	95
58) m p-Xylene	11.609	91	1439658	12.314	ppbv	99
59) Bromoform	11.691	173	461762	5.552	ppbv	96
60) Styrene	11.814	104	500390	6.047	ppbv	96
61) 1,1,2,2-Tetrachloroethane	11.875	83	549243	5.535	ppbv	96
62) o-Xylene	11.875	91	745092	6.087	ppbv	99
65) Isopropylbenzene	12.193	105	1040130	5.776	ppbv	96
67) 4-Ethyltoluene	12.562	105	1191487	6.204	ppbv	92
68) 1,3,5-Trimethylbenzene	12.593	105	818819	5.961	ppbv	93
69) 1,2,4-Trimethylbenzene	12.850	105	939949	6.213	ppbv	95
71) Benzyl chloride	12.480	91	1903869	6.049	ppbv	99
72) 1,3-Dichlorobenzene	12.963	146	585977	5.796	ppbv	97
73) 1,4-Dichlorobenzene	13.004	146	533142	6.628	ppbv	95
74) sec-Butylbenzene	13.014	105	1329187	6.061	ppbv	96
75) 4-Isopropyltoluene	13.096	119	1229367	6.108	ppbv	99
76) 1,2-Dichlorobenzene	13.229	146	572176	5.816	ppbv	97
77) n-Butylbenzene	13.363	91	978705	6.129	ppbv	98
78) 1,2,4-Trichlorobenzene	14.420	180	271112	5.424	ppbv	94
80) Hexachlorobutadiene	14.748	225	540649	5.594	ppbv	99
82) 1,2-Dichlorotetrafluor...	4.534	85	458001	5.216	ppbv	98
83) Vinyl Chloride(sim)	4.658	62	263654	5.371	ppbv	98
84) Bromomethane(sim)	5.019	94	162743	4.981	ppbv	98
85) Trichlorofluoromethane...	5.768	101	567486	5.601	ppbv#	100
86) 1,2-Dichloroethane(sim)	8.251	62	351314	5.735	ppbv	97
87) 1,1,1-Trichloroethane(...)	8.413	97	487259	5.745	ppbv#	98
88) Benzene(sim)	8.693	78	502441	5.370	ppbv	95
89) Carbon Tetrachloride(sim)	8.777	117	518822	5.818	ppbv	97
90) 1,1-Dichloroethene(sim)	6.228	61	410985	5.350	ppbv	92
91) Trichlorotrifluoroetha...	6.484	101	431725	5.560	ppbv#	100
92) Trans-1,2-Dichloroethe...	6.936	61	367557	5.532	ppbv	94
93) 1,1-Dichloroethane(sim)	7.076	63	486224	5.705	ppbv	97
94) Cis-1,2-Dichloroethene...	7.595	61	347511	5.685	ppbv	91
95) Chloroform(sim)	7.788	83	448374	5.564	ppbv	97
97) 1,2-dichloropropane(sim)	9.162	63	337628	5.200	ppbv	88
98) Bromdichloromethane(sim)	9.270	83	444920	5.164	ppbv	99
99) Trichloroethene(sim)	9.298	130	302882	5.431	ppbv	99
100) 1,4-Dioxane(sim)	9.281	88	112053	5.808	ppbv#	64
101) cis-1,3-Dichloropropen...	9.762	75	333116	6.106	ppbv	100
102) 1,1,2-Trichloroethane(...)	10.164	97	243781	5.660	ppbv	99
103) Dibromochloromethane(sim)	10.578	129	548731	5.294	ppbv	100
104) 1,2-Dibromethane(EDB)...	10.718	107	372102	5.717	ppbv	100
105) Tetrachloroethene(sim)	10.967	166	427186	4.606	ppbv	99
107) Bromoform(sim)	11.696	173	546026	5.417	ppbv	99
108) m p-Xylene(sim)	11.609	91	1445119	12.187	ppbv	99
109) 1,1,2,2-Tetrachloroeth...	11.871	83	602454	5.190	ppbv	97
112) Benzyl chloride(sim)	12.952	91	546106	9.445	ppbv	99
113) 1,3-Dichlorobenzene(sim)	12.968	146	668131	6.523	ppbv	96
114) 1,4-Dichlorobenzene(sim)	13.004	146	533142	8.469	ppbv	95
115) sec-Butylbenzene(sim)	13.009	105	1415867	6.612	ppbv	98
116) 4-Isopropyltoluene(sim)	13.096	119	1229367	6.858	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_13.D
 Acq On : 17 Mar 2022 10:03 pm
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0 ppb ; AIR
 ALS Vial : 44 Sample Multiplier: 1

Quant Time: Mar 18 08:41:08 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 21:13:15 2022
 Response via : Initial Calibration

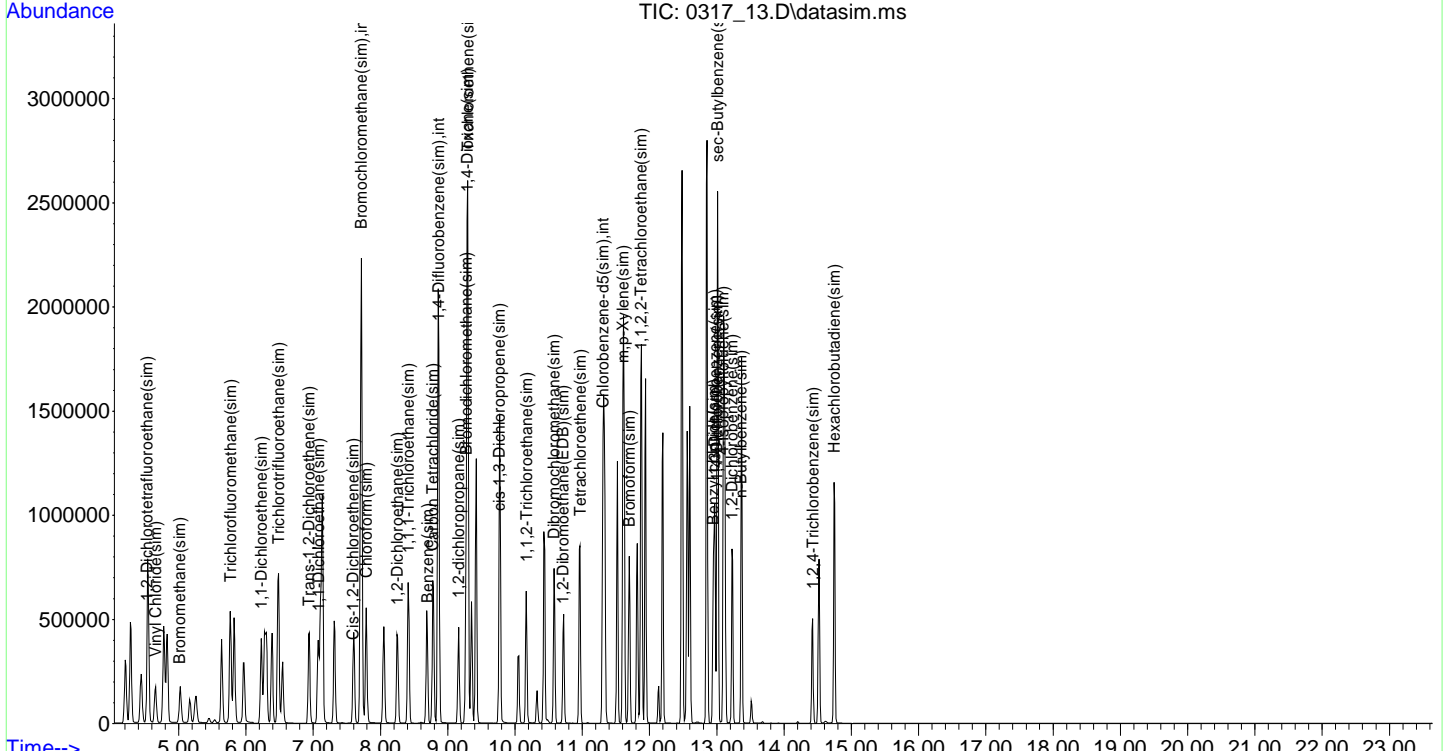
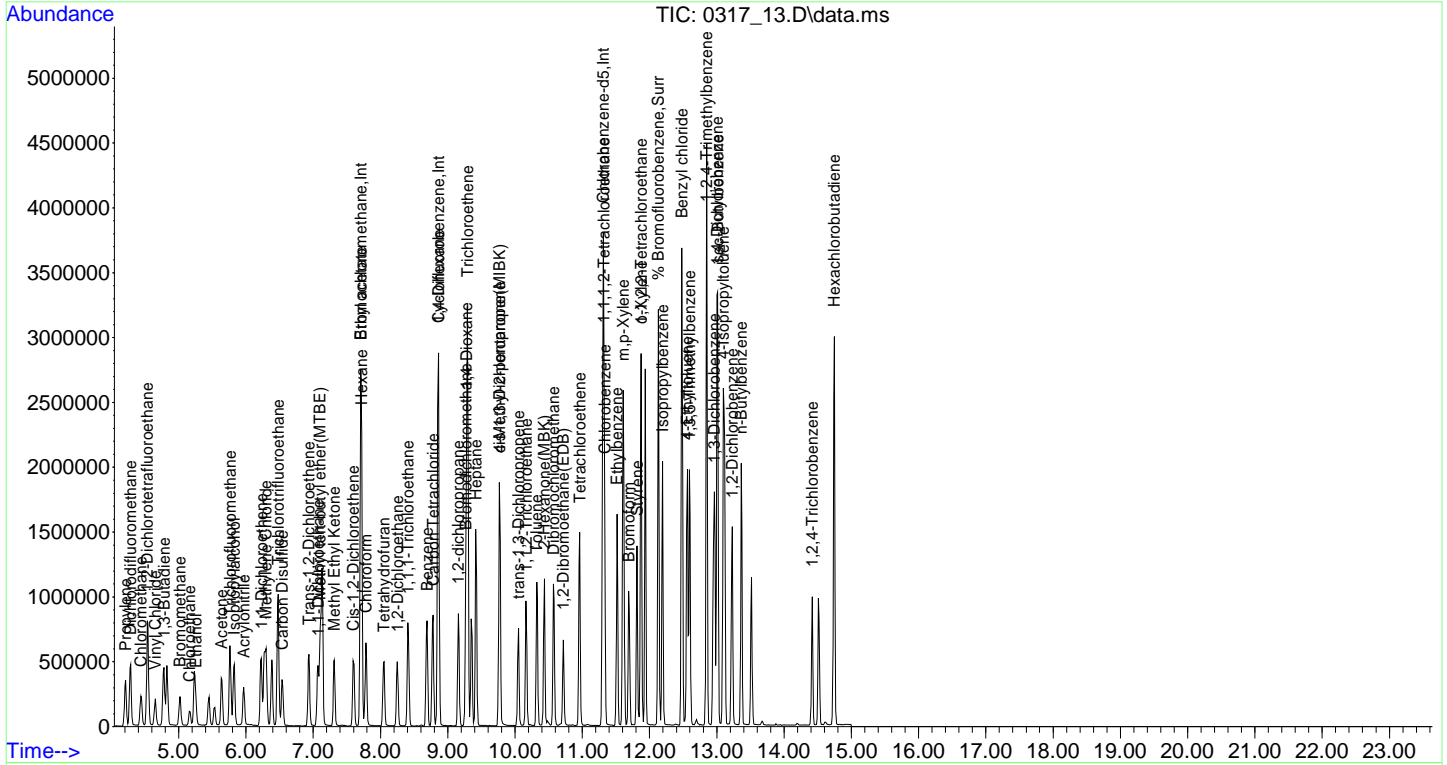
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
117] 1, 2-Dichlorobenzene(sim)	13.225	146	640998	5.996	ppbv	98
118] n-Butylbenzene(sim)	13.363	91	978705	7.665	ppbv	98
119] 1, 2, 4-Trichlorobenzene...	14.425	180	316534	11.833	ppbv	98
121] Hexachlorobutadiene(sim)	14.743	225	683940	5.686	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR17A\
Data File : 0317_13.D
Acq On : 17 Mar 2022 10:03 pm
Operator :
Client ID : ICAL 5
Lab ID : 5.0 ppb ; AIR
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Mar 18 08:41:08 2022
Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 17 21:13:15 2022
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_14.D
 Acq On : 17 Mar 2022 10:37 pm
 Operator :
 Client ID : ICAL 25
 Lab ID : 25 ppb ; AIR
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Mar 18 08:41:12 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 21:13:15 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.709	130	335206	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	1277678	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	734076	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	367705	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	1277678	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	734366	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	923515	10.040	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	100.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.210	41	571272	13.027	ppbv	94
3) Dichlorodifluoromethane	4.286	85	2210984	24.655	ppbv	99
4) Chloromethane	4.448	50	1365719	23.415	ppbv	99
5) 1,2-Dichlorotetrafluor...	4.545	85	2026873	23.980	ppbv	98
6) Vinyl Chloride	4.652	62	1087453	24.073	ppbv	100
7) 1,3-Butadiene	4.782	54	1104325	24.375	ppbv	97
8) Bromomethane	5.019	94	725980	23.782	ppbv	99
9) Chloroethane	5.170	64	437287	23.655	ppbv	96
11) Ethanol	5.256	45	602904	22.524	ppbv#	94
12) Acetone	5.633	43	2129555	22.791	ppbv#	87
13) Trichlorofluoromethane	5.763	101	2351564	24.553	ppbv	97
14) Isopropylalcohol	5.816	45	2701595	23.504	ppbv	96
15) Acrylonitrile	5.967	53	1157472	24.315	ppbv	94
16) 1,1-Dichloroethene	6.228	61	1957956	25.200	ppbv	90
17) Methylene Chloride	6.306	49	1843896	24.427	ppbv	93
20) Carbon Disulfide	6.547	76	2243086	24.971	ppbv	95
21) Trichlorotrifluoroethane	6.478	101	1798212	24.403	ppbv	99
22) Trans-1,2-Dichloroethene	6.936	61	1805699	25.946	ppbv	92
23) 1,1-Dichloroethane	7.070	63	2016708	24.869	ppbv	98
24) Methyl tert-butyl ethe...	7.102	73	2026797	26.559	ppbv#	91
26) Methyl Ethyl Ketone	7.307	43	3162564	26.039	ppbv	96
27) Cis-1,2-Dichloroethene	7.605	61	1715061	25.800	ppbv#	86
28) Hexane	7.720	57	2206094	27.401	ppbv#	76
29) Chloroform	7.793	83	1876821	24.960	ppbv	95
30) Ethyl acetate	7.699	61	395089	25.204	ppbv#	89
31) Tetrahydrofuran	8.043	42	1773507	27.501	ppbv#	91
32) 1,2-Dichloroethane	8.251	62	1675456	25.604	ppbv	99
33) 1,1,1-Trichloroethane	8.418	97	1988843	24.536	ppbv	98
34) Benzene	8.693	78	2457433	26.411	ppbv	96
35) Carbon Tetrachloride	8.783	117	2233248	25.441	ppbv	99
36) Cyclohexane	8.862	84	943927	24.196	ppbv	90
38) 1,2-dichloropropane	9.157	63	1450872	24.620	ppbv	86
39) Bromdichloromethane	9.270	83	2070799	24.167	ppbv	99
40) Trichloroethene	9.292	130	1248489	24.246	ppbv	97
42) 1,4-Dioxane	9.281	88	494656	24.399	ppbv#	63
44) Heptane	9.417	43	3123446	26.547	ppbv#	91
45) cis-1,3-Dichloropropene	9.768	75	1510302	26.645	ppbv	98
46) 4-Methyl-2-pentanone(M..	9.768	43	3989700	26.272	ppbv#	94
47) trans-1,3-Dichloropropene	10.051	75	1432970	27.625	ppbv	99
48) 1,1,2-Trichloroethane	10.164	97	1150193	24.745	ppbv	100
49) Toluene	10.334	91	3370689	26.867	ppbv	99
50) Dibromochloromethane	10.583	129	2695066	27.480	ppbv	97

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_14.D
 Acq On : 17 Mar 2022 10:37 pm
 Operator :
 Client ID : ICAL 25
 Lab ID : 25 ppb ; AIR
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Mar 18 08:41:12 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 21:13:15 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
51) 2-Hexanone (MBK)	10.435	43	4252223m	28.701	ppbv	53
52) 1,2-Dibromethane (EDB)	10.718	107	1822095	25.489	ppbv	98
53) Tetrachloroethene	10.961	166	1750659	24.957	ppbv	95
55) 1,1,1,2-Tetrachloroethane	11.322	131	1613362	22.166	ppbv	98
56) Chlorobenzene	11.332	112	2690328	22.399	ppbv	85
57) Ethylbenzene	11.517	91	4340767	24.798	ppbv	94
58) m p-Xylene	11.609	91	7038222	50.280	ppbv	99
59) Bromoform	11.701	173	2341808	23.519	ppbv	96
60) Styrene	11.814	104	2640289	26.652	ppbv	95
61) 1,1,2,2-Tetrachloroethane	11.875	83	2668174	22.458	ppbv	95
62) o-Xylene	11.875	91	3636489	24.815	ppbv	99
65) Isopropylbenzene	12.193	105	5054635	23.444	ppbv	96
67) 4-Ethyltoluene	12.562	105	5811150	25.272	ppbv	98
68) 1,3,5-Trimethylbenzene	12.593	105	4081846	24.822	ppbv	97
69) 1,2,4-Trimethylbenzene	12.850	105	4671764	25.793	ppbv	95
71) Benzyl chloride	12.480	91	9348947	24.808	ppbv	98
72) 1,3-Dichlorobenzene	12.973	146	3242612	26.787	ppbv	96
73) 1,4-Dichlorobenzene	13.004	146	2316427	24.054	ppbv	94
74) sec-Butylbenzene	13.014	105	6484601	24.696	ppbv	96
75) 4-Isopropyltoluene	13.096	119	6026633	25.009	ppbv	99
76) 1,2-Dichlorobenzene	13.229	146	2932340	24.894	ppbv	98
77) n-Butylbenzene	13.363	91	5095710	26.653	ppbv	97
78) 1,2,4-Trichlorobenzene	14.420	180	1828122	30.546	ppbv	90
80) Hexachlorobutadiene	14.748	225	2612684	22.577	ppbv	98
82) 1,2-Dichlorotetrafluor...	4.545	85	2023095	22.835	ppbv	98
83) Vinyl Chloride(sim)	4.658	62	1187099	23.965	ppbv	98
84) Bromomethane(sim)	5.019	94	725980	22.022	ppbv	99
85) Trichlorofluoromethane...	5.768	101	2549166	24.934	ppbv#	100
86) 1,2-Dichloroethane(sim)	8.251	62	1675456	27.109	ppbv	99
87) 1,1,1-Trichloroethane(...)	8.413	97	2242763	26.209	ppbv#	98
88) Benzene(sim)	8.693	78	2458275	26.040	ppbv	96
89) Carbon Tetrachloride(sim)	8.789	117	2366850	26.304	ppbv	96
90) 1,1-Dichloroethene(sim)	6.228	61	1957956	25.259	ppbv	90
91) Trichlorotrifluoroetha...	6.484	101	1940946	24.775	ppbv#	100
92) Trans-1,2-Dichloroethe...	6.936	61	1805699	26.936	ppbv	92
93) 1,1-Dichloroethane(sim)	7.076	63	2225794	25.883	ppbv	97
94) Cis-1,2-Dichloroethene...	7.605	61	1715061	27.805	ppbv#	86
95) Chloroform(sim)	7.788	83	2065337	25.402	ppbv	97
97) 1,2-dichloropropane(sim)	9.162	63	1595547	23.716	ppbv#	85
98) Bromdichloromethane(sim)	9.270	83	2070799	23.194	ppbv	98
99) Trichloroethene(sim)	9.298	130	1368755	23.683	ppbv	98
100) 1,4-Dioxane(sim)	9.281	88	494656	24.741	ppbv#	63
101) cis-1,3-Dichloropropen...	9.773	75	1661646	29.391	ppbv	100
102) 1,1,2-Trichloroethane(...)	10.164	97	1150193	25.771	ppbv	100
103) Dibromchloromethane(sim)	10.578	129	2626511	24.454	ppbv	99
104) 1,2-Dibromethane(EDB)...	10.718	107	1822095	27.016	ppbv	98
105) Tetrachloroethene(sim)	10.967	166	1995559	20.763	ppbv	99
107) Bromoform(sim)	11.696	173	2728787	22.600	ppbv	100
108) m p-Xylene(sim)	11.609	91	7047538	49.623	ppbv	99
109) 1,1,2,2-Tetrachloroeth...	11.871	83	2846403	20.472	ppbv	98
112) Benzyl chloride(sim)	12.952	91	3438281	49.648	ppbv	100
113) 1,3-Dichlorobenzene(sim)	12.968	146	3289539	26.815	ppbv#	96
114) 1,4-Dichlorobenzene(sim)	13.004	146	2316427	30.721	ppbv	94
115) sec-Butylbenzene(sim)	13.009	105	6770974	26.399	ppbv	98
116) 4-Isopropyltoluene(sim)	13.096	119	6026633	28.070	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_14.D
 Acq On : 17 Mar 2022 10:37 pm
 Operator :
 Client ID : ICAL 25
 Lab ID : 25 ppb ; AIR
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Mar 18 08:41:12 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 21:13:15 2022
 Response via : Initial Calibration

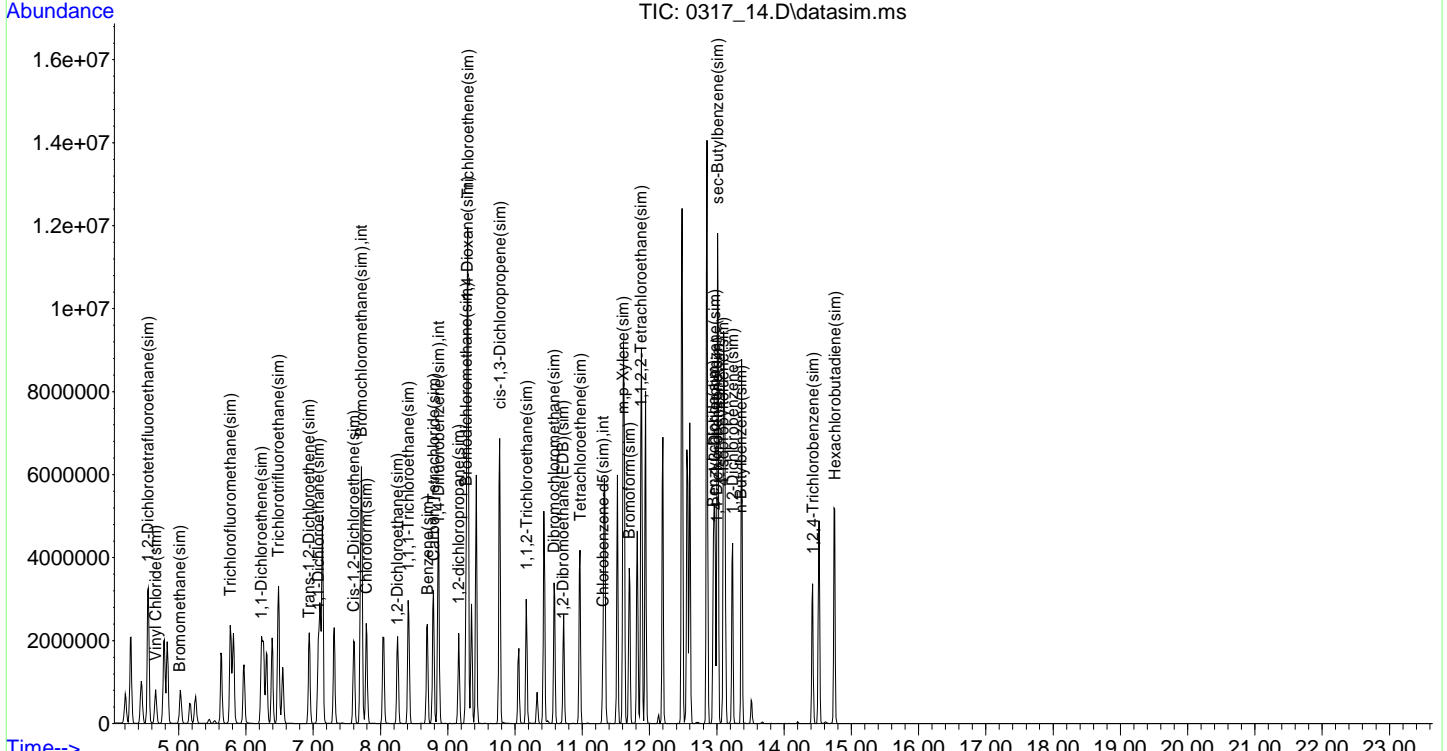
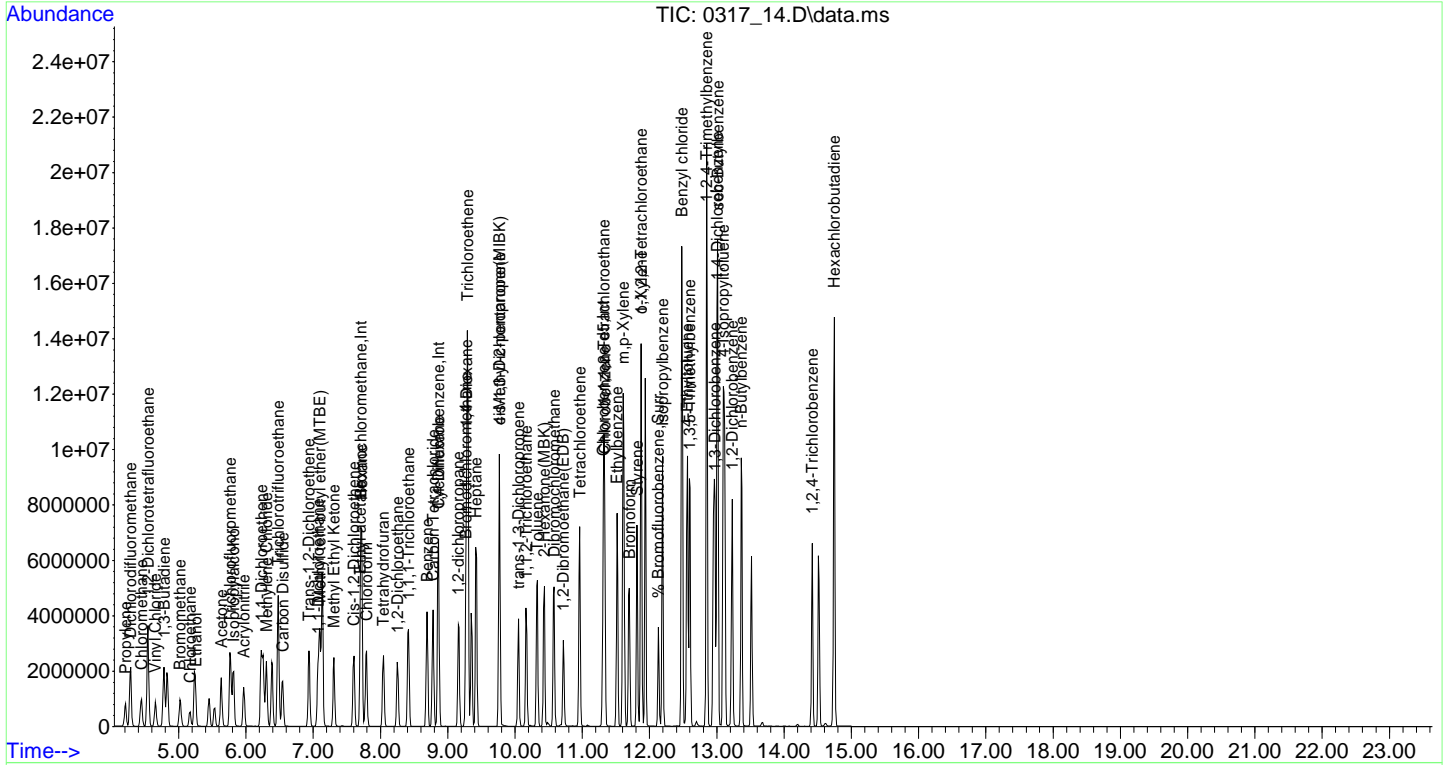
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
117] 1, 2-Dichlorobenzene(sim)	13.235	146	3265422	25.504	ppbv	97
118] n-Butylbenzene(sim)	13.363	91	5095710	33.321	ppbv	97
119] 1, 2, 4-Trichlorobenzene...	14.425	180	2071811	64.664	ppbv	99
121] Hexachlorobutadiene(sim)	14.754	225	3199494	22.209	ppbv	100

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_14.D
 Acq On : 17 Mar 2022 10:37 pm
 Operator :
 Client ID : ICAL 25
 Lab ID : 25 ppb ; AIR
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Mar 18 08:41:12 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Thu Mar 17 21:13:15 2022
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_15.D
 Acq On : 17 Mar 2022 11:13 pm
 Operator :
 Client ID : ICAL 40
 Lab ID : 40 ppb ; AIR
 ALS Vial : 46 Sample Multiplier: 1

Quant Time: Mar 18 08:41:17 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 21:13:15 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.720	130	336452	10.000	ng	0.01
37) 1,4-Difluorobenzene	8.862	114	1298783	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	799840	10.000	ng	0.00
81) Bromochloromethane(sim)	7.725	130	365826	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	8.862	114	1298783	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	799840	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	935120	9.330	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	93.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.210	41	652949	14.834	ppbv	98
3) Dichlorodifluoromethane	4.286	85	3505642	38.947	ppbv	98
4) Chloromethane	4.448	50	2221098	37.939	ppbv	99
5) 1,2-Dichlorotetrafluor...	4.545	85	3368016	39.699	ppbv	97
6) Vinyl Chloride	4.652	62	1812431	39.973	ppbv	100
7) 1,3-Butadiene	4.782	54	1817119	39.959	ppbv	97
8) Bromomethane	5.030	94	1198032	39.101	ppbv	99
9) Chloroethane	5.170	64	728079	39.240	ppbv	95
11) Ethanol	5.256	45	1027474	38.243	ppbv#	94
12) Acetone	5.633	43	3483069	37.138	ppbv#	89
13) Trichlorofluoromethane	5.773	101	3779337	39.314	ppbv	97
14) Isopropylalcohol	5.816	45	4523904	39.212	ppbv	95
15) Acrylonitrile	5.967	53	1951791	40.849	ppbv	96
16) 1,1-Dichloroethene	6.228	61	3167813	40.620	ppbv	90
17) Methylene Chloride	6.306	49	2951852	38.960	ppbv	93
20) Carbon Disulfide	6.547	76	3676861	40.781	ppbv	94
21) Trichlorotrifluoroethane	6.478	101	2894520	39.135	ppbv	100
22) Trans-1,2-Dichloroethene	6.936	61	2984021	42.719	ppbv	91
23) 1,1-Dichloroethane	7.078	63	3305284	40.608	ppbv	98
24) Methyl tert-butyl ethe...	7.102	73	3365608	43.940	ppbv#	91
26) Methyl Ethyl Ketone	7.307	43	5118101	41.984	ppbv	96
27) Cis-1,2-Dichloroethene	7.605	61	2854634	42.784	ppbv#	85
28) Hexane	7.720	57	3631013	44.933	ppbv#	75
29) Chloroform	7.793	83	3072197	40.707	ppbv	95
30) Ethyl acetate	7.699	61	658814	41.873	ppbv#	88
31) Tetrahydrofuran	8.043	42	2914655	45.030	ppbv	92
32) 1,2-Dichloroethane	8.251	62	2691964	40.985	ppbv	99
33) 1,1,1-Trichloroethane	8.418	97	3660973	44.997	ppbv	92
34) Benzene	8.693	78	4032588	43.179	ppbv	96
35) Carbon Tetrachloride	8.783	117	3633773	41.242	ppbv	100
36) Cyclohexane	8.862	84	1582725	40.419	ppbv	93
38) 1,2-dichloropropane	9.168	63	2391602	39.924	ppbv#	84
39) Bromdichloromethane	9.270	83	3363261	38.613	ppbv	97
40) Trichloroethene	9.292	130	2001589	38.239	ppbv	97
42) 1,4-Dioxane	9.281	88	895108	43.434	ppbv#	65
44) Heptane	9.428	43	5154835	43.100	ppbv#	91
45) cis-1,3-Dichloropropene	9.768	75	2490147	43.218	ppbv	98
46) 4-Methyl-2-pentanone(M..	9.768	43	6431423	41.663	ppbv#	93
47) trans-1,3-Dichloropropene	10.051	75	2399401	45.504	ppbv	99
48) 1,1,2-Trichloroethane	10.164	97	1858961	39.344	ppbv	98
49) Toluene	10.334	91	5590878	43.839	ppbv	98
50) Dibromochloromethane	10.583	129	4524745	45.387	ppbv	90

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_15.D
 Acq On : 17 Mar 2022 11:13 pm
 Operator :
 Client ID : ICAL 40
 Lab ID : 40 ppb ; AIR
 ALS Vial : 46 Sample Multiplier: 1

Quant Time: Mar 18 08:41:17 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 21:13:15 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
51) 2-Hexanone (MBK)	10.435	43	6126273m	40.678	ppbv	53
52) 1,2-Dibromethane (EDB)	10.718	107	3081159	42.402	ppbv	97
53) Tetrachloroethene	10.961	166	2846661	39.923	ppbv	93
55) 1,1,1,2-Tetrachloroethane	11.322	131	2583005	32.570	ppbv	94
56) Chlorobenzene	11.332	112	4484964	34.271	ppbv	85
57) Ethylbenzene	11.517	91	7235266	37.935	ppbv	94
58) m p-Xylene	11.609	91	11599427	76.052	ppbv	98
59) Bromoform	11.701	173	3943194	36.345	ppbv	95
60) Styrene	11.814	104	4478902	41.494	ppbv	96
61) 1,1,2,2-Tetrachloroethane	11.875	83	4383591	33.863	ppbv	96
62) o-Xylene	11.875	91	6087468	38.124	ppbv	98
65) Isopropylbenzene	12.193	105	8284778	35.267	ppbv	95
67) 4-Ethyltoluene	12.562	105	9343965	37.294	ppbv	98
68) 1,3,5-Trimethylbenzene	12.603	105	7011018	39.128	ppbv	97
69) 1,2,4-Trimethylbenzene	12.850	105	7716735	39.102	ppbv	94
71) Benzyl chloride	12.480	91	13783758	33.569	ppbv#	95
72) 1,3-Dichlorobenzene	12.973	146	5344050	40.517	ppbv	98
73) 1,4-Dichlorobenzene	13.004	146	4050307	38.600	ppbv	94
74) sec-Butylbenzene	13.014	105	10412800	36.396	ppbv	97
75) 4-Isopropyltoluene	13.096	119	9829944	37.438	ppbv	98
76) 1,2-Dichlorobenzene	13.229	146	4811470	37.489	ppbv	98
77) n-Butylbenzene	13.373	91	8358375	40.123	ppbv	97
78) 1,2,4-Trichlorobenzene	14.420	180	3183646	48.822	ppbv	91
80) Hexachlorobutadiene	14.748	225	4240314	33.629	ppbv	99
82) 1,2-Dichlorotetrafluor...	4.545	85	3363668	38.161	ppbv	97
83) Vinyl Chloride(sim)	4.658	62	1990544	40.391	ppbv	98
84) Bromomethane(sim)	5.030	94	1198032	36.528	ppbv	99
85) Trichlorofluoromethane...	5.779	101	4114637	40.453	ppbv#	100
86) 1,2-Dichloroethane(sim)	8.251	62	2691964	43.779	ppbv	99
87) 1,1,1-Trichloroethane(...)	8.423	97	3652461	42.901	ppbv#	98
88) Benzene(sim)	8.693	78	4032588	42.936	ppbv	96
89) Carbon Tetrachloride(sim)	8.789	117	3827587	42.756	ppbv	96
90) 1,1-Dichloroethene(sim)	6.228	61	3167813	41.076	ppbv	90
91) Trichlorotrifluoroetha...	6.484	101	3095027	39.709	ppbv#	100
92) Trans-1,2-Dichloroethe...	6.936	61	2984021	44.742	ppbv	91
93) 1,1-Dichloroethane(sim)	7.076	63	3609693	42.191	ppbv	97
94) Cis-1,2-Dichloroethene...	7.605	61	2854634	46.518	ppbv#	85
95) Chloroform(sim)	7.798	83	3360135	41.538	ppbv	97
97) 1,2-dichloropropane(sim)	9.162	63	2617772	38.277	ppbv#	83
98) Bromdichloromethane(sim)	9.270	83	3363261	37.058	ppbv	97
99) Trichloroethene(sim)	9.298	130	2198013	37.413	ppbv	98
100) 1,4-Dioxane(sim)	9.281	88	895108	44.043	ppbv#	65
101) cis-1,3-Dichloropropen...	9.773	75	2738443	47.650	ppbv	100
102) 1,1,2-Trichloroethane(...)	10.164	97	1858961	40.974	ppbv	98
103) Dibromchloromethane(sim)	10.588	129	4311500	39.490	ppbv	99
104) 1,2-Dibromethane(EDB)...	10.718	107	3081159	44.942	ppbv	97
105) Tetrachloroethene(sim)	10.967	166	3229874	33.060	ppbv	99
107) Bromoform(sim)	11.707	173	4521193	34.380	ppbv	99
108) m p-Xylene(sim)	11.609	91	11608543	75.047	ppbv	98
109) 1,1,2,2-Tetrachloroeth...	11.881	83	4644929	30.673	ppbv	97
112) Benzyl chloride(sim)	12.952	91	6016429	79.764	ppbv	100
113) 1,3-Dichlorobenzene(sim)	12.978	146	5356746	40.092	ppbv#	95
114) 1,4-Dichlorobenzene(sim)	13.004	146	4050307	49.319	ppbv	94
115) sec-Butylbenzene(sim)	13.019	105	10668348	38.189	ppbv	99
116) 4-Isopropyltoluene(sim)	13.096	119	9829944	42.036	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_15.D
 Acq On : 17 Mar 2022 11:13 pm
 Operator :
 Client ID : ICAL 40
 Lab ID : 40 ppb ; AIR
 ALS Vial : 46 Sample Multiplier: 1

Quant Time: Mar 18 08:41:17 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 17 21:13:15 2022
 Response via : Initial Calibration

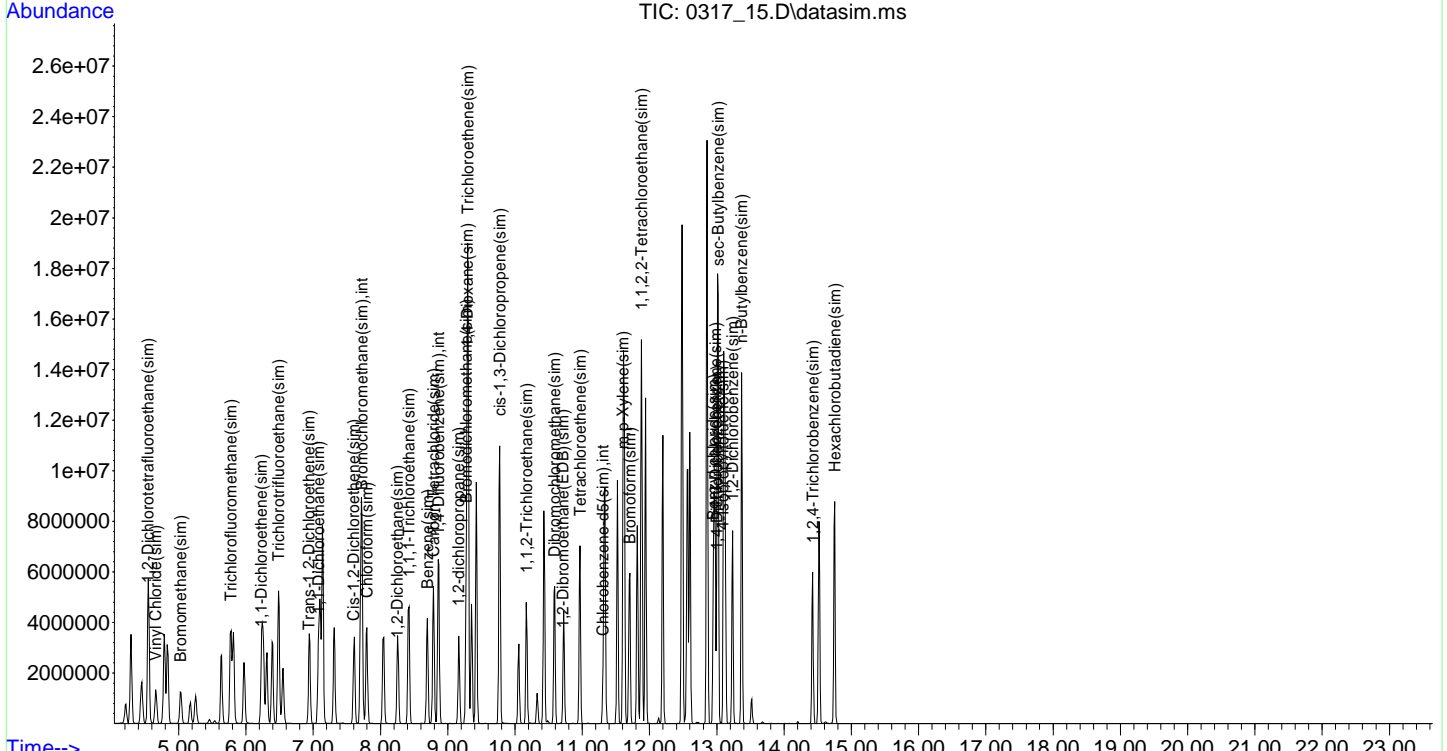
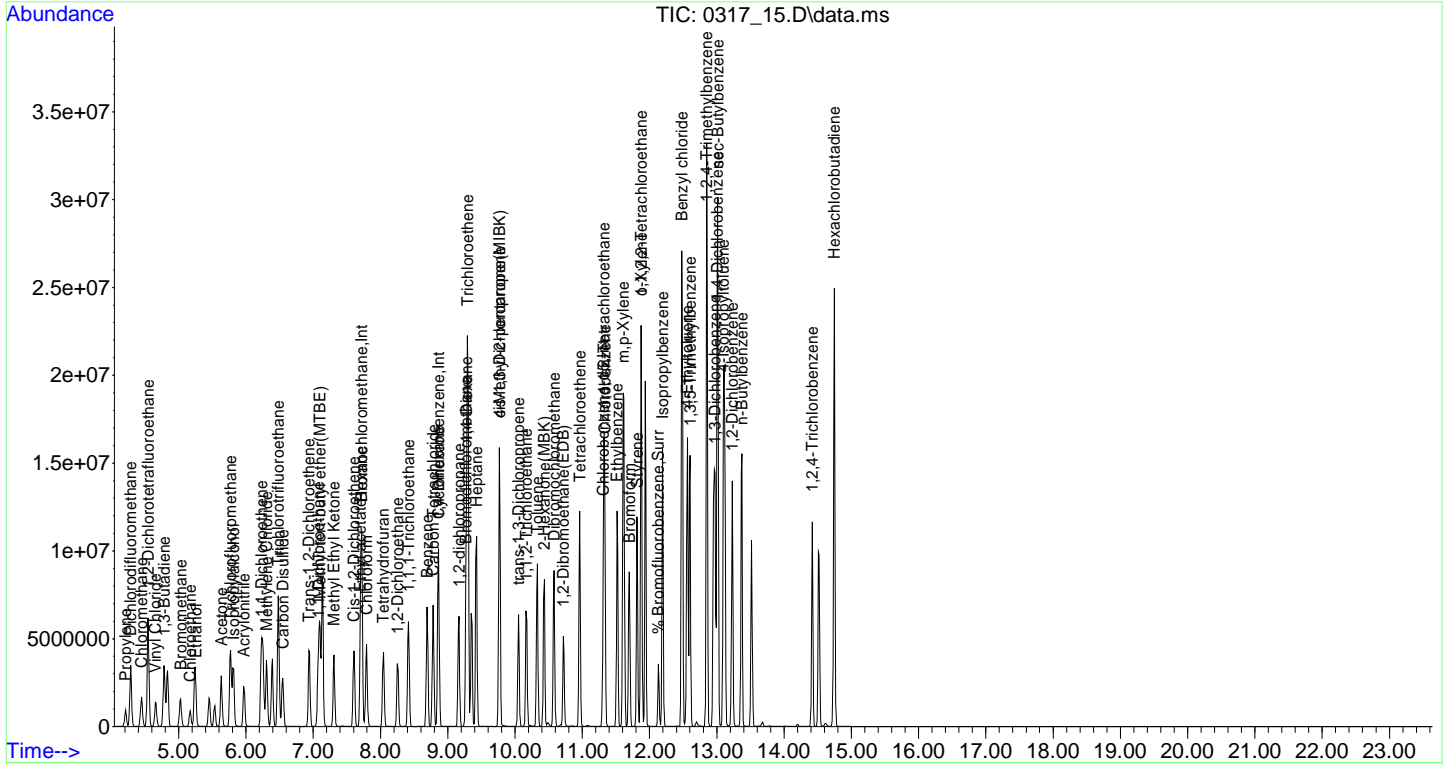
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
117] 1, 2-Dichlorobenzene(sim)	13.235	146	5351347	38.375	ppbv	97
118] n-Butylbenzene(sim)	13.373	91	8358375	50.181	ppbv	97
119] 1, 2, 4-Trichlorobenzene...	14.425	180	3577561	102.520	ppbv	98
121] Hexachlorobutadiene(sim)	14.754	225	5121066	32.638	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0317_15.D
Acq On : 17 Mar 2022 11:13 pm
Operator :
Client ID : ICAL 40
Lab ID : 40 ppb ; AIR
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Mar 18 08:41:17 2022
Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 17 21:13:15 2022
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_16.D
 Acq On : 17 Mar 2022 11:45 pm
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0 ppb ; AIR
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 18 08:43:45 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.709	130	351342	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	1244667	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	611747	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	376353	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	1244667	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	611747	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	799882	10.180	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	101.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.210	41	49937	1.086	ppbv	93
3) Dichlorodifluoromethane	4.286	85	92195	0.981	ppbv	99
4) Chloromethane	4.448	50	60879	0.996	ppbv	93
5) 1,2-Dichlorotetrafluor...	4.545	85	95330	1.076	ppbv	95
6) Vinyl Chloride	4.652	62	48354	1.021	ppbv	99
7) 1,3-Butadiene	4.782	54	50976	1.073	ppbv	95
8) Bromomethane	5.019	94	32287	1.009	ppbv	98
9) Chloroethane	5.159	64	20267	1.046	ppbv	97
11) Ethanol	5.267	45	30300	1.080	ppbv	93
12) Acetone	5.655	43	99801	1.019	ppbv#	89
13) Trichlorofluoromethane	5.762	101	99796	0.994	ppbv	98
14) Isopropylalcohol	5.838	45	127527	1.059	ppbv	99
15) Acrylonitrile	5.967	53	47705	0.956	ppbv	92
16) 1,1-Dichloroethene	6.228	61	83666	1.027	ppbv	92
17) Methylene Chloride	6.306	49	81913	1.035	ppbv	93
20) Carbon Disulfide	6.538	76	94303	1.002	ppbv	97
21) Trichlorotrifluoroethane	6.478	101	81400	1.054	ppbv	97
22) Trans-1,2-Dichloroethene	6.936	61	72157	0.989	ppbv	93
23) 1,1-Dichloroethane	7.070	63	85622	1.007	ppbv	98
24) Methyl tert-butyl ethe...	7.117	73	78526	0.982	ppbv#	87
26) Methyl Ethyl Ketone	7.322	43	129437	1.017	ppbv	96
27) Cis-1,2-Dichloroethene	7.605	61	70494	1.012	ppbv#	85
28) Hexane	7.720	57	81931	0.971	ppbv#	83
29) Chloroform	7.782	83	78857	1.001	ppbv	98
30) Ethyl acetate	7.709	61	16683	1.015	ppbv#	88
31) Tetrahydrofuran	8.053	42	66529	0.984	ppbv#	90
32) 1,2-Dichloroethane	8.251	62	67055	0.978	ppbv	97
33) 1,1,1-Trichloroethane	8.407	97	82601	0.972	ppbv	95
34) Benzene	8.692	78	94131	0.965	ppbv	95
35) Carbon Tetrachloride	8.783	117	92923	1.010	ppbv	99
36) Cyclohexane	8.862	84	40324	0.986	ppbv#	84
38) 1,2-dichloropropane	9.157	63	58858	1.025	ppbv	88
39) Bromdichloromethane	9.270	83	86151	1.032	ppbv	97
40) Trichloroethene	9.292	130	53007	1.057	ppbv	94
42) 1,4-Dioxane	9.292	88	21043	1.065	ppbv#	67
44) Heptane	9.417	43	115150	1.005	ppbv	90
45) cis-1,3-Dichloropropene	9.768	75	54364	0.985	ppbv	97
46) 4-Methyl-2-pentanone(M..	9.779	43	152738	1.032	ppbv	96
47) trans-1,3-Dichloropropene	10.051	75	50356	0.997	ppbv	97
48) 1,1,2-Trichloroethane	10.164	97	46019	1.016	ppbv	98
49) Toluene	10.322	91	124025	1.015	ppbv	98
50) Dibromochloromethane	10.573	129	94867	0.993	ppbv	96

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_16.D
 Acq On : 17 Mar 2022 11:45 pm
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0 ppb ; AIR
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 18 08:43:45 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
51) 2-Hexanone (MBK)	10.435	43	146583	1.016	ppbv#	80
52) 1,2-Dibromethane (EDB)	10.718	107	70488	1.012	ppbv	98
53) Tetrachloroethene	10.961	166	71121	1.041	ppbv	94
55) 1,1,1,2-Tetrachloroethane	11.322	131	63745	1.051	ppbv	93
56) Chlorobenzene	11.332	112	109164	1.091	ppbv	93
57) Ethylbenzene	11.517	91	145570	0.998	ppbv	92
58) m p-Xylene	11.609	91	248365	2.129	ppbv	99
59) Bromoform	11.691	173	86837	1.046	ppbv	96
60) Styrene	11.814	104	83975	1.017	ppbv	97
61) 1,1,2,2-Tetrachloroethane	11.875	83	108306	1.094	ppbv	93
62) o-Xylene	11.875	91	131136	1.074	ppbv	98
65) Isopropylbenzene	12.193	105	184013	1.024	ppbv	98
67) 4-Ethyltoluene	12.562	105	199466	1.041	ppbv	93
68) 1,3,5-Trimethylbenzene	12.593	105	143383	1.046	ppbv	93
69) 1,2,4-Trimethylbenzene	12.850	105	153751	1.019	ppbv	98
71) Benzyl chloride	12.480	91	328429	1.046	ppbv	98
72) 1,3-Dichlorobenzene	12.963	146	104750	1.038	ppbv	98
73) 1,4-Dichlorobenzene	13.004	146	97382	1.213	ppbv	98
74) sec-Butylbenzene	13.014	105	231930	1.060	ppbv	96
75) 4-Isopropyltoluene	13.096	119	210064	1.046	ppbv	99
76) 1,2-Dichlorobenzene	13.229	146	105193	1.072	ppbv	97
77) n-Butylbenzene	13.363	91	166204	1.043	ppbv	99
78) 1,2,4-Trichlorobenzene	14.420	180	62701	1.257	ppbv	91
80) Hexachlorobutadiene	14.748	225	106072	1.100	ppbv	98
82) 1,2-Dichlorotetrafluor...	4.545	85	95335	1.051	ppbv	95
83) Vinyl Chloride(sim)	4.658	62	53322	1.052	ppbv	99
84) Bromomethane(sim)	5.019	94	32287	0.957	ppbv#	98
85) Trichlorofluoromethane...	5.768	101	110057	1.052	ppbv#	99
86) 1,2-Dichloroethane(sim)	8.251	62	67154	1.062	ppbv	97
87) 1,1,1-Trichloroethane(...)	8.413	97	92100	1.052	ppbv#	97
88) Benzene(sim)	8.692	78	94131	0.974	ppbv	95
89) Carbon Tetrachloride(sim)	8.789	117	97965	1.064	ppbv	97
90) 1,1-Dichloroethene(sim)	6.228	61	83666	1.055	ppbv	92
91) Trichlorotrifluoroetha...	6.484	101	84594	1.055	ppbv#	100
92) Trans-1,2-Dichloroethe...	6.936	61	72157	1.052	ppbv	93
93) 1,1-Dichloroethane(sim)	7.076	63	94482	1.073	ppbv	97
94) Cis-1,2-Dichloroethene...	7.605	61	70494	1.117	ppbv#	85
95) Chloroform(sim)	7.788	83	86154	1.035	ppbv	97
97) 1,2-dichloropropane(sim)	9.162	63	65065	0.993	ppbv	87
98) Bromdichloromethane(sim)	9.270	83	86151	0.991	ppbv	97
99) Trichloroethene(sim)	9.298	130	56948	1.011	ppbv	99
100) 1,4-Dioxane(sim)	9.292	88	21043	1.080	ppbv#	67
101) cis-1,3-Dichloropropen...	9.762	75	61345	1.114	ppbv	99
102) 1,1,2-Trichloroethane(...)	10.164	97	46019	1.058	ppbv	98
103) Dibromchloromethane(sim)	10.578	129	103484	0.989	ppbv	100
104) 1,2-Dibromethane(EDB)...	10.718	107	70488	1.073	ppbv	98
105) Tetrachloroethene(sim)	10.967	166	81755	0.873	ppbv	99
107) Bromoform(sim)	11.696	173	102050	1.015	ppbv	99
108) m p-Xylene(sim)	11.609	91	250123	2.114	ppbv	99
109) 1,1,2,2-Tetrachloroeth...	11.871	83	114514	0.989	ppbv	97
112) Benzyl chloride(sim)	12.952	91	100238	1.204	ppbv	98
113) 1,3-Dichlorobenzene(sim)	12.968	146	120243	1.177	ppbv	96
114) 1,4-Dichlorobenzene(sim)	13.004	146	97382	1.226	ppbv	98
115) sec-Butylbenzene(sim)	13.009	105	246533	1.154	ppbv	98
116) 4-Isopropyltoluene(sim)	13.096	119	210064	1.175	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_16.D
 Acq On : 17 Mar 2022 11:45 pm
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0 ppb ; AIR
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 18 08:43:45 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

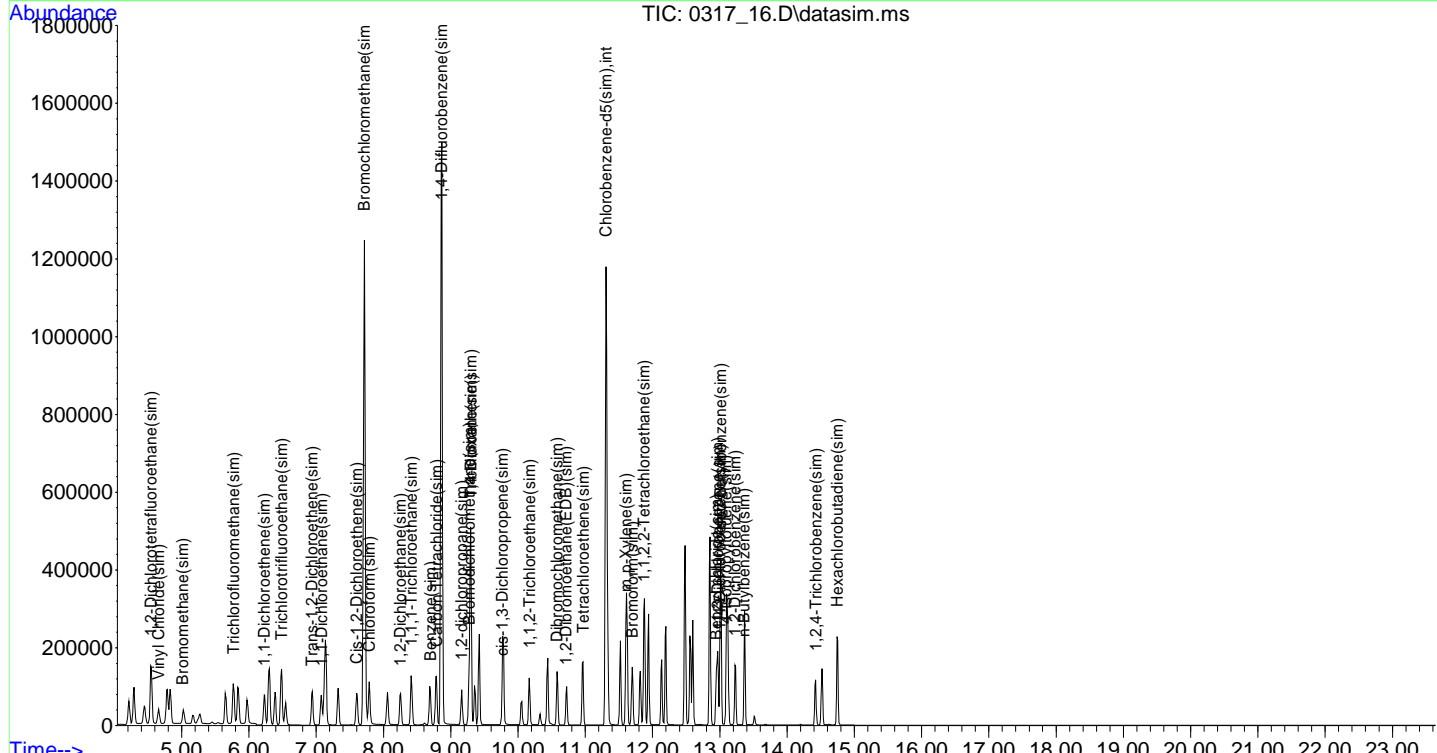
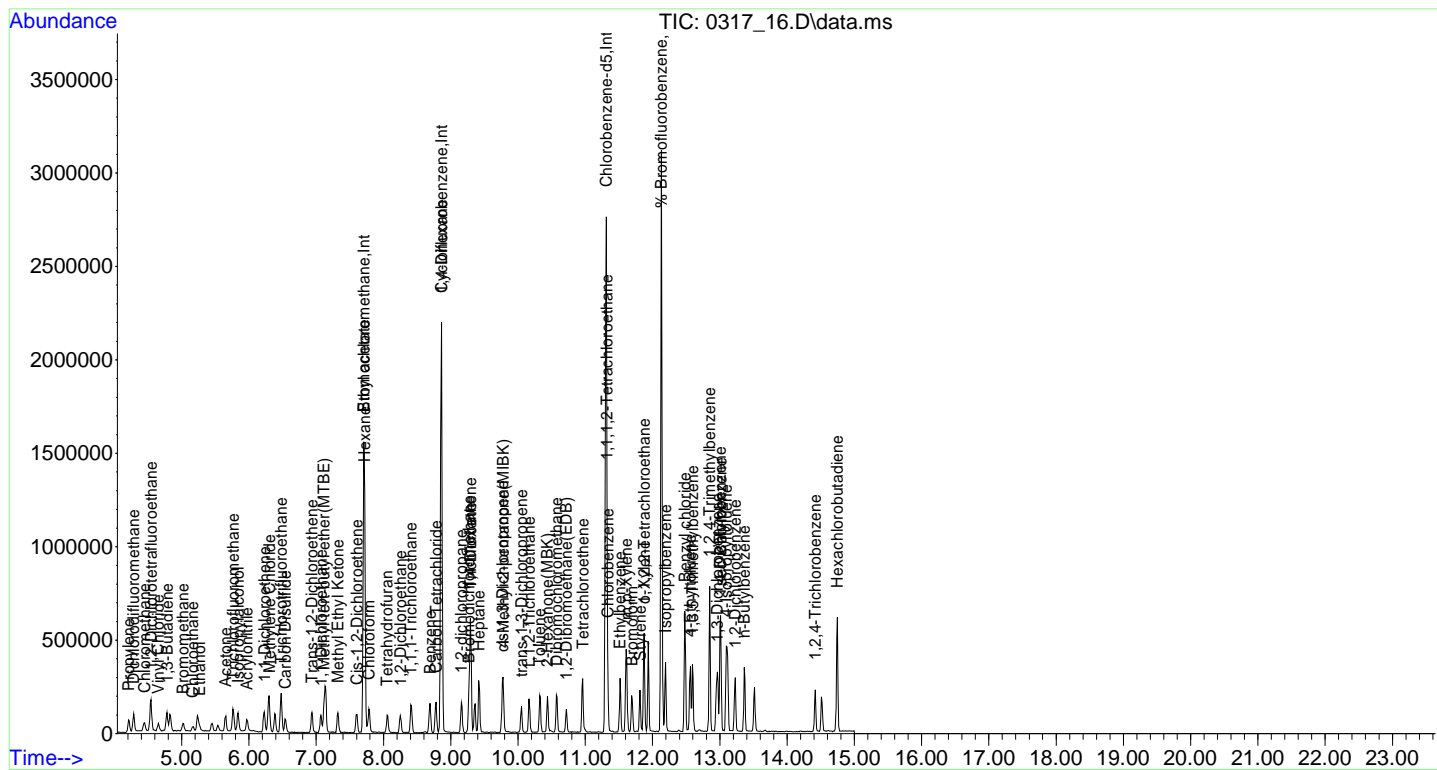
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
117] 1, 2-Dichlorobenzene(sim)	13.225	146	120270	1.128	ppbv	97
118] n-Butylbenzene(sim)	13.363	91	166204	1.305	ppbv	99
119] 1, 2, 4-Trichlorobenzene...	14.425	180	73947	1.017	ppbv	98
121] Hexachlorobutadiene(sim)	14.743	225	137131	1.143	ppbv	100

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_16.D
 Acq On : 17 Mar 2022 11:45 pm
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0 ppb ; AIR
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 18 08:43:45 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_17.D
 Acq On : 18 Mar 2022 12:17 am
 Operator :
 Client ID : ICAL 10
 Lab ID : 10 ppb ; AIR
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 18 08:44:49 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.717	130	349813	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.860	114	1297155	10.000	ng	0.00
54) Chlorobenzene-d5	11.309	82	674365	10.000	ng	0.00
81) Bromochloromethane(sim)	7.712	130	374644	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.860	114	1297155	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.309	82	674365	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.129	95	871427	10.060	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	100.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.210	41	489804	10.703	ppbv	98
3) Dichlorodifluoromethane	4.286	85	916774	9.796	ppbv	98
4) Chloromethane	4.448	50	579990	9.528	ppbv	99
5) 1,2-Dichlorotetrafluor...	4.545	85	863226	9.786	ppbv	97
6) Vinyl Chloride	4.652	62	461720	9.794	ppbv	98
7) 1,3-Butadiene	4.782	54	462453	9.781	ppbv	97
8) Bromomethane	5.019	94	302167	9.485	ppbv	99
9) Chloroethane	5.170	64	182105	9.440	ppbv	94
11) Ethanol	5.256	45	264540	9.470	ppbv	96
12) Acetone	5.633	43	895019	9.179	ppbv#	89
13) Trichlorofluoromethane	5.763	101	980857	9.813	ppbv	96
14) Isopropylalcohol	5.816	45	1185257	9.881	ppbv	96
15) Acrylonitrile	5.967	53	497093	10.006	ppbv	96
16) 1,1-Dichloroethene	6.228	61	820021	10.113	ppbv	90
17) Methylene Chloride	6.306	49	777326	9.868	ppbv	93
20) Carbon Disulfide	6.547	76	940961	10.038	ppbv#	94
21) Trichlorotrifluoroethane	6.478	101	753200	9.795	ppbv	99
22) Trans-1,2-Dichloroethene	6.936	61	742687	10.226	ppbv	93
23) 1,1-Dichloroethane	7.070	63	855893	10.114	ppbv	98
24) Methyl tert-butyl ethe...	7.102	73	840117	10.549	ppbv#	93
26) Methyl Ethyl Ketone	7.307	43	1284724	10.136	ppbv	96
27) Cis-1,2-Dichloroethene	7.603	61	711135	10.251	ppbv#	85
28) Hexane	7.717	57	906090	10.784	ppbv#	78
29) Chloroform	7.790	83	788793	10.052	ppbv	96
30) Ethyl acetate	7.707	61	168108	10.276	ppbv#	87
31) Tetrahydrofuran	8.051	42	719687	10.694	ppbv#	91
32) 1,2-Dichloroethane	8.249	62	681965	9.986	ppbv	98
33) 1,1,1-Trichloroethane	8.415	97	824192	9.743	ppbv	97
34) Benzene	8.690	78	1016914	10.473	ppbv	96
35) Carbon Tetrachloride	8.781	117	917660	10.017	ppbv	99
36) Cyclohexane	8.860	84	386869	9.502	ppbv	89
38) 1,2-dichloropropane	9.165	63	599416	10.019	ppbv	87
39) Bromdichloromethane	9.267	83	853109	9.807	ppbv	98
40) Trichloroethene	9.290	130	524234	10.028	ppbv	97
42) 1,4-Dioxane	9.278	88	217544	10.569	ppbv#	63
44) Heptane	9.426	43	1299461	10.879	ppbv	91
45) cis-1,3-Dichloropropene	9.765	75	607338	10.554	ppbv	98
46) 4-Methyl-2-pentanone(M..	9.776	43	1652982	10.721	ppbv#	95
47) trans-1,3-Dichloropropene	10.048	75	566499	10.757	ppbv	99
48) 1,1,2-Trichloroethane	10.161	97	472703	10.017	ppbv	99
49) Toluene	10.331	91	1360401	10.681	ppbv	99
50) Dibromochloromethane	10.580	129	988855	9.932	ppbv	96

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_17.D
 Acq On : 18 Mar 2022 12:17 am
 Operator :
 Client ID : ICAL 10
 Lab ID : 10 ppb ; AIR
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 18 08:44:49 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
51) 2-Hexanone (MBK)	10.433	43	1617210	10.752	ppbv#	81
52) 1,2-Dibromethane (EDB)	10.716	107	744701	10.261	ppbv	98
53) Tetrachloroethene	10.959	166	715547	10.048	ppbv	94
55) 1,1,1,2-Tetrachloroethane	11.319	131	648161	9.694	ppbv	95
56) Chlorobenzene	11.329	112	1096529	9.938	ppbv	84
57) Ethylbenzene	11.514	91	1749750	10.881	ppbv	94
58) m p-Xylene	11.606	91	2837303	22.064	ppbv	98
59) Bromoform	11.698	173	928188	10.147	ppbv	94
60) Styrene	11.811	104	1041312	11.442	ppbv	97
61) 1,1,2,2-Tetrachloroethane	11.872	83	1073166	9.833	ppbv	96
62) o-Xylene	11.872	91	1437008	10.674	ppbv	100
65) Isopropylbenzene	12.190	105	2016293	10.180	ppbv	96
67) 4-Ethyltoluene	12.559	105	2210875	10.466	ppbv	97
68) 1,3,5-Trimethylbenzene	12.600	105	1715973	11.359	ppbv	97
69) 1,2,4-Trimethylbenzene	12.847	105	1836858	11.039	ppbv	96
71) Benzyl chloride	12.477	91	3793213	10.957	ppbv	99
72) 1,3-Dichlorobenzene	12.970	146	1229996	11.060	ppbv	98
73) 1,4-Dichlorobenzene	13.011	146	980986	11.088	ppbv	95
74) sec-Butylbenzene	13.011	105	2544594	10.549	ppbv	97
75) 4-Isopropyltoluene	13.103	119	2420535	10.934	ppbv	99
76) 1,2-Dichlorobenzene	13.226	146	1140786	10.542	ppbv	98
77) n-Butylbenzene	13.370	91	1960054	11.160	ppbv	98
78) 1,2,4-Trichlorobenzene	14.417	180	632872	11.511	ppbv	91
80) Hexachlorobutadiene	14.745	225	1017076	9.567	ppbv	99
82) 1,2-Dichlorotetrafluor...	4.545	85	861634	9.545	ppbv	97
83) Vinyl Chloride(sim)	4.658	62	498866	9.884	ppbv	98
84) Bromomethane(sim)	5.019	94	302167	8.996	ppbv	99
85) Trichlorofluoromethane...	5.768	101	1066505	10.239	ppbv#	100
86) 1,2-Dichloroethane(sim)	8.249	62	681965	10.830	ppbv	98
87) 1,1,1-Trichloroethane(...)	8.421	97	937635	10.754	ppbv#	98
88) Benzene(sim)	8.690	78	1017133	10.575	ppbv	96
89) Carbon Tetrachloride(sim)	8.786	117	981652	10.707	ppbv	97
90) 1,1-Dichloroethene(sim)	6.228	61	820021	10.383	ppbv	90
91) Trichlorotrifluoroetha...	6.484	101	816684	10.231	ppbv#	100
92) Trans-1,2-Dichloroethe...	6.936	61	742687	10.874	ppbv	93
93) 1,1-Dichloroethane(sim)	7.076	63	937703	10.702	ppbv	97
94) Cis-1,2-Dichloroethene...	7.603	61	711135	11.316	ppbv#	85
95) Chloroform(sim)	7.785	83	856629	10.341	ppbv	97
97) 1,2-dichloropropane(sim)	9.160	63	663024	9.707	ppbv	85
98) Bromdichloromethane(sim)	9.267	83	853109	9.412	ppbv	98
99) Trichloroethene(sim)	9.295	130	576084	9.818	ppbv	99
100) 1,4-Dioxane(sim)	9.278	88	217544	10.718	ppbv#	63
101) cis-1,3-Dichloropropen...	9.771	75	676189	11.781	ppbv	100
102) 1,1,2-Trichloroethane(...)	10.161	97	472703	10.432	ppbv	99
103) Dibromchloromethane(sim)	10.586	129	1063830	9.756	ppbv	100
104) 1,2-Dibromethane(EDB)...	10.716	107	744701	10.876	ppbv	98
105) Tetrachloroethene(sim)	10.964	166	822831	8.433	ppbv	99
107) Bromoform(sim)	11.704	173	1075775	9.702	ppbv	99
108) m p-Xylene(sim)	11.606	91	2841858	21.790	ppbv	98
109) 1,1,2,2-Tetrachloroeth...	11.878	83	1156573	9.059	ppbv	97
112) Benzyl chloride(sim)	12.949	91	1218305	8.641	ppbv	100
113) 1,3-Dichlorobenzene(sim)	12.975	146	1461950	12.978	ppbv	99
114) 1,4-Dichlorobenzene(sim)	13.011	146	980986	6.506	ppbv	95
115) sec-Butylbenzene(sim)	13.016	105	2754439	11.695	ppbv	98
116) 4-Isopropyltoluene(sim)	13.103	119	2420907	12.279	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0317_17.D
 Acq On : 18 Mar 2022 12:17 am
 Operator :
 Client ID : ICAL 10
 Lab ID : 10 ppb ; AIR
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 18 08:44:49 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

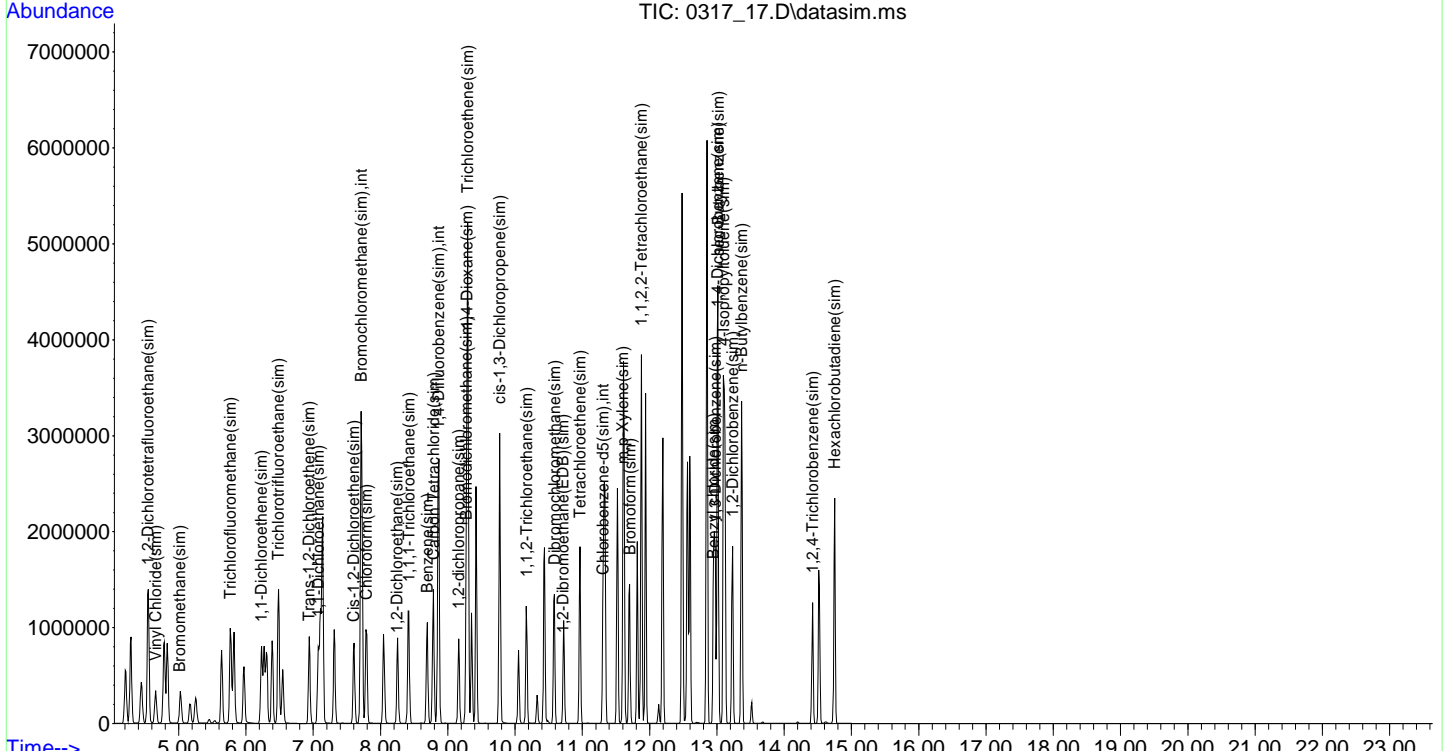
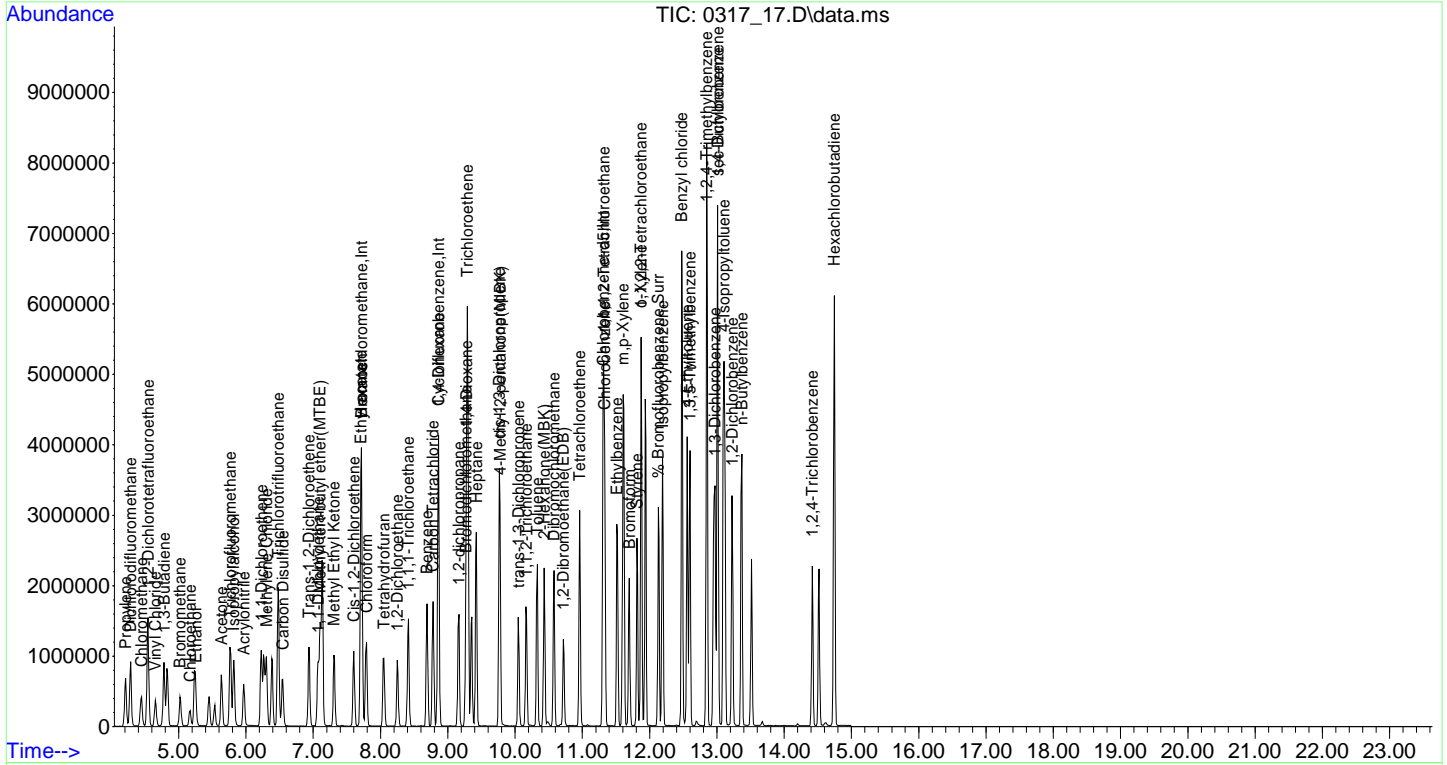
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
117] 1, 2-Dichlorobenzene(sim)	13.232	146	1286547	10.942	ppbv	98
118] n-Butylbenzene(sim)	13.370	91	1960054	13.957	ppbv	98
119] 1, 2, 4-Trichlorobenzene...	14.422	180	724239	3.302	ppbv	98
121] Hexachlorobutadiene(sim)	14.751	225	1295940	9.796	ppbv	100

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR17A\
 Data File : 0317_17.D
 Acq On : 18 Mar 2022 12:17 am
 Operator :
 Client ID : ICAL 10
 Lab ID : 10 ppb ; AIR
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 18 08:44:49 2022
 Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCK90290
 Instrument: CHEM20 Calibration Date: 03/19/22 Time: 07:04
 Lab File Id: 0319_01.D Init. Calib. Date(s): 03/17/22 03/18/22
 Heated Purge (Y/N): Y Init. Calib. Times: 17:39 00:17
 GC Column: RTX-1 60M Method File: 20_AIR_0317.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Propylene	1.308	1.427		-9.1	30
Dichlorodifluoromethane	2.675	2.697		-0.8	30
Chloromethane	1.740	1.742		-0.1	30
1,2-Dichlorotetrafluoroethane	2.522	2.657		-5.4	30
Vinyl Chloride	1.348	1.348		0.0	30
1,3-Butadiene	1.352	1.369		-1.3	30
Bromomethane	0.911	0.914		-0.3	30
Chloroethane	0.551	0.512		7.1	30
Ethanol	0.799	0.867		-8.5	30
Acetone	2.788	2.916		-4.6	30
Trichlorofluoromethane	2.857	3.026		-5.9	30
Isopropylalcohol	3.429	3.763		-9.7	30
Acrylonitrile	1.420	1.358		4.4	30
1,1-Dichloroethene	2.318	2.268		2.2	30
Methylene Chloride	2.252	2.308		-2.5	30
Carbon Disulfide	2.680	2.565		4.3	30
Trichlorotrifluoroethane	2.198	2.119		3.6	30
Trans-1,2-Dichloroethene	2.076	2.099		-1.1	30
1,1-Dichloroethane	2.419	2.343		3.1	30
Methyl tert-butyl ether(MTBE)	2.277	2.223		2.4	30
Methyl Ethyl Ketone	3.623	3.816		-5.3	30
Cis-1,2-Dichloroethene	1.983	1.925		2.9	30
Hexane	2.402	2.255		6.1	30
Chloroform	2.243	2.168		3.3	30
Ethyl acetate	0.468	0.497		-6.2	30
Tetrahydrofuran	1.924	1.954		-1.6	30
1,2-Dichloroethane	1.952	1.890		3.2	30
1,1,1-Trichloroethane	2.418	2.312		4.4	30
Benzene	2.776	2.680		3.5	30
Carbon Tetrachloride	2.619	2.628		-0.3	30
Cyclohexane	1.164	1.183		-1.6	30
1,2-dichloropropane	0.461	0.457		0.9	30
Bromodichloromethane	0.671	0.642		4.3	30
Trichloroethene	0.403	0.387		4.0	30
1,4-Dioxane	0.159	0.147		7.5	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
 %D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
 (#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCK90290
 Instrument: CHEM20 Calibration Date: 03/19/22 Time: 07:04
 Lab File Id: 0319_01.D Init. Calib. Date(s): 03/17/22 03/18/22
 Heated Purge (Y/N): Y Init. Calib. Times: 17:39 00:17
 GC Column: RTX-1 60M Method File: 20_AIR_0317.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Heptane	0.921	0.924		-0.3	30
cis-1,3-Dichloropropene	0.444	0.426		4.1	30
4-Methyl-2-pentanone(MIBK)	1.189	1.182		0.6	30
trans-1,3-Dichloropropene	0.406	0.388		4.4	30
1,1,2-Trichloroethane	0.364	0.361		0.8	30
Toluene	0.982	0.941		4.2	30
Dibromochloromethane	0.768	0.723		5.9	30
2-Hexanone(MBK)	1.160	1.100		5.2	30
1,2-Dibromoethane(EDB)	0.559	0.535		4.3	30
Tetrachloroethene	0.549	0.558		-1.6	30
1,1,1,2-Tetrachloroethane	0.992	1.061		-7.0	30
Chlorobenzene	1.636	1.760		-7.6	30
Ethylbenzene	2.385	2.493		-4.5	30
m,p-Xylene	1.907	1.595		16.4	30
Bromoform	1.356	1.410		-4.0	30
Styrene	1.350	1.307		3.2	30
1,1,2,2-Tetrachloroethane	1.618	1.570		3.0	30
o-Xylene	1.996	2.077		-4.1	30
Isopropylbenzene	2.937	3.067		-4.4	30
4-Ethyltoluene	3.132	3.247		-3.7	30
1,3,5-Trimethylbenzene	2.240	2.310		-3.1	30
1,2,4-Trimethylbenzene	2.467	2.509		-1.7	30
Benzyl chloride	5.134	5.245		-2.2	30
1,3-Dichlorobenzene	1.649	1.490		9.6	30
1,4-Dichlorobenzene	1.312	1.341		-2.2	30
sec-Butylbenzene	3.577	3.803		-6.3	30
4-Isopropyltoluene	3.283	3.399		-3.5	30
1,2-Dichlorobenzene	1.605	1.565		2.5	30
n-Butylbenzene	2.604	2.602		0.1	30
1,2,4-Trichlorobenzene	0.815	0.648		20.5	30
Hexachlorobutadiene	1.576	1.791		-13.6	30
1,2-Dichlorotetrafluoroethane(sim)	2.409	2.412		-0.1	30
Vinyl Chloride(sim)	1.347	1.348		-0.1	30
Bromomethane(sim)	0.897	0.830		7.5	30
Trichlorofluoromethane(sim)	2.780	2.928		-5.3	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
 %D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
 (#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCK90290
 Instrument: CHEM20 Calibration Date: 03/19/22 Time: 07:04
 Lab File Id: 0319_01.D Init. Calib. Date(s): 03/17/22 03/18/22
 Heated Purge (Y/N): Y Init. Calib. Times: 17:39 00:17
 GC Column: RTX-1 60M Method File: 20_AIR_0317.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
1,2-Dichloroethane(sim)	1.681	1.716		-2.1	30
1,1,1-Trichloroethane(sim)	2.327	2.405		-3.4	30
Benzene(sim)	2.567	2.433		5.2	30
Carbon Tetrachloride(sim)	2.447	2.554		-4.4	30
1,1-Dichloroethene(sim)	2.108	2.059		2.3	30
Trichlorotrifluoroethane(sim)	2.131	2.117		0.7	30
Trans-1,2-Dichloroethene(sim)	1.823	1.906		-4.6	30
1,1-Dichloroethane(sim)	2.339	2.394		-2.4	30
Cis-1,2-Dichloroethene(sim)	1.677	1.748		-4.2	30
Chloroform(sim)	2.211	2.187		1.1	30
1,2-dichloropropane(sim)	0.527	0.496		5.9	30
Bromodichloromethane(sim)	0.699	0.642		8.2	30
Trichloroethene(sim)	0.452	0.442		2.2	30
1,4-Dioxane(sim)	0.156	0.147		5.8	30
cis-1,3-Dichloropropene(sim)	0.442	0.460		-4.1	30
1,1,2-Trichloroethane(sim)	0.349	0.361		-3.4	30
Dibromochloromethane(sim)	0.841	0.785		6.7	30
1,2-Dibromoethane(EDB)(sim)	0.528	0.535		-1.3	30
Tetrachloroethene(sim)	0.752	0.636		15.4	30
Bromoform(sim)	1.644	1.609		2.1	30
m,p-Xylene(sim)	1.934	2.010		-3.9	30
1,1,2,2-Tetrachloroethane(sim)	1.893	1.764		6.8	30
Benzyl chloride(sim) qfi	1.000	1.03		-3.0	20
1,3-Dichlorobenzene(sim)	1.670	1.744		-4.4	30
1,4-Dichlorobenzene(sim) qfi	1.000	1.06		-6.0	20
sec-Butylbenzene(sim)	3.493	4.022		-15.1	30
4-Isopropyltoluene(sim)	2.924	3.399		-16.2	30
1,2-Dichlorobenzene(sim)	1.743	1.786		-2.5	30
n-Butylbenzene(sim)	2.082	2.602		-25.0	30
1,2,4-Trichlorobenzene(sim) qfi	1.000	0.77		23.0 #	20
Hexachlorobutadiene(sim)	1.962	2.277		-16.1	30
% Bromofluorobenzene	1.284	1.329		-3.5	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
 %D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
 (#) Maximum %D not met.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_01.D
 Acq On : 19 Mar 2022 7:04 am
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb cc - 1.0ppb cc
 ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 19 10:23:13 2022
 Quant Title :
 QLast Update : Fri Mar 18 08:42:58 2022
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Mn. RRF : 0.000 Mn. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%
1	Int Bromochloromethane	1.000	1.000	0.0	82
2	Propylene	1.308	1.427	-9.1	
3	Dichlorodifluoromethane	2.675	2.697	-0.8	
4	Chloromethane	1.740	1.742	-0.1	
5	1,2-Dichlorotetrafluoroetha	2.522	2.657	-5.4	
6	Vinyl Chloride	1.348	1.348	0.0	
7	1,3-Butadiene	1.352	1.369	-1.3	
8	Bromomethane	0.911	0.914	-0.3	
9	Chloroethane	0.551	0.512	7.1	
11	Ethanol	0.799	0.867	-8.5	
12	Acetone	2.788	2.916	-4.6	
13	Trichlorofluoromethane	2.857	3.026	-5.9	
14	Isopropylalcohol	3.429	3.763	-9.7	
15	Acrylonitrile	1.420	1.358	4.4	
16	1,1-Dichloroethene	2.318	2.268	2.2	
17	Methylene Chloride	2.252	2.308	-2.5	
20	Carbon Disulfide	2.680	2.565	4.3	
21	Trichlorotrifluoroethane	2.198	2.119	3.6	
22	Trans-1,2-Dichloroethene	2.076	2.099	-1.1	
23	1,1-Dichloroethane	2.419	2.343	3.1	
24	Methyl tert-butyl ether (MTB)	2.277	2.223	2.4	
26	Methyl Ethyl Ketone	3.623	3.816	-5.3	
27	Cis-1,2-Dichloroethene	1.983	1.925	2.9	
28	Hexane	2.402	2.255	6.1	
29	Chloroform	2.243	2.168	3.3	
30	Ethyl acetate	0.468	0.497	-6.2	
31	Tetrahydrofuran	1.924	1.954	-1.6	
32	1,2-Dichloroethane	1.952	1.890	3.2	
33	1,1,1-Trichloroethane	2.418	2.312	4.4	
34	Benzene	2.776	2.680	3.5	
35	Carbon Tetrachloride	2.619	2.628	-0.3	
36	Cyclohexane	1.164	1.183	-1.6	
37	Int 1,4-Difluorobenzene	1.000	1.000	0.0	84
38	1,2-dichloropropane	0.461	0.457	0.9	
39	Bromdichloromethane	0.671	0.642	4.3	
40	Trichloroethene	0.403	0.387	4.0	
42	1,4-Dioxane	0.159	0.147	7.5	
44	Heptane	0.921	0.924	-0.3	
45	cis-1,3-Dichloropropene	0.444	0.426	4.1	
46	4-Methyl-2-pentanone (MBK)	1.189	1.182	0.6	
47	trans-1,3-Dichloropropene	0.406	0.388	4.4	
48	1,1,2-Trichloroethane	0.364	0.361	0.8	
49	Toluene	0.982	0.941	4.2	
50	Di bromochloromethane	0.768	0.723	5.9	
51	2-Hexanone (MBK)	1.160	1.100	5.2	
52	1,2-Dibromethane (EDB)	0.559	0.535	4.3	
53	Tetrachloroethene	0.549	0.558	-1.6	
54	Int Chlorobenzene-d5	1.000	1.000	0.0	81
55	1,1,1,2-Tetrachloroethane	0.992	1.061	-7.0	
56	Chlorobenzene	1.636	1.760	-7.6	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_01.D
 Acq On : 19 Mar 2022 7:04 am
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb cc - 1.0ppb cc
 ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 19 10:23:13 2022
 Quant Title :
 QLast Update : Fri Mar 18 08:42:58 2022
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Mn. RRF : 0.000 Mn. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%
57 Ethylbenzene	2.385	2.493	-4.5	
58 m p-Xylene	1.907	1.595	16.4	
59 Bromoform	1.356	1.410	-4.0	
60 Styrene	1.350	1.307	3.2	
61 1, 1, 2, 2-Tetrachloroethane	1.618	1.570	3.0	
62 o-Xylene	1.996	2.077	-4.1	
63 Surr % Bromofluorobenzene	1.284	1.329	-3.5	
65 Isopropylbenzene	2.937	3.067	-4.4	
67 4-Ethyltoluene	3.132	3.247	-3.7	
68 1, 3, 5-Trimethylbenzene	2.240	2.310	-3.1	
69 1, 2, 4-Trimethylbenzene	2.467	2.509	-1.7	
71 Benzyl chloride	5.134	5.245	-2.2	
72 1, 3-Dichlorobenzene	1.649	1.490	9.6	
73 1, 4-Dichlorobenzene	1.312	1.341	-2.2	
74 sec-Butylbenzene	3.577	3.803	-6.3	
75 4-Isopropyltoluene	3.283	3.399	-3.5	
76 1, 2-Dichlorobenzene	1.605	1.565	2.5	
77 n-Butylbenzene	2.604	2.602	0.1	
78 1, 2, 4-Trichlorobenzene	0.815	0.648	20.5	
80 Hexachlorobutadiene	1.576	1.791	-13.6	
81 int Bromochloromethane(sim)	1.000	1.000	0.0	84
82 1, 2-Dichlorotetrafluoroethane(sim)	2.409	2.412	-0.1	
83 Vinyl Chloride(sim)	1.347	1.348	-0.1	
84 Bromomethane(sim)	0.897	0.830	7.5	
85 Trichlorofluoromethane(sim)	2.780	2.928	-5.3	
86 1, 2-Dichloroethane(sim)	1.681	1.716	-2.1	
87 1, 1, 1-Trichloroethane(sim)	2.327	2.405	-3.4	
88 Benzene(sim)	2.567	2.433	5.2	
89 Carbon Tetrachloride(sim)	2.447	2.554	-4.4	
90 1, 1-Dichloroethene(sim)	2.108	2.059	2.3	
91 Trichlorotrifluoroethane(sim)	2.131	2.117	0.7	
92 Trans-1, 2-Dichloroethene(sim)	1.823	1.906	-4.6	
93 1, 1-Dichloroethane(sim)	2.339	2.394	-2.4	
94 Cis-1, 2-Dichloroethene(sim)	1.677	1.748	-4.2	
95 Chloroform(sim)	2.211	2.187	1.1	
96 int 1, 4-Difluorobenzene(sim)	1.000	1.000	0.0	84
97 1, 2-dichloropropane(sim)	0.527	0.496	5.9	
98 Bromodichloromethane(sim)	0.699	0.642	8.2	
99 Trichloroethene(sim)	0.452	0.442	2.2	
100 1, 4-Dioxane(sim)	0.156	0.147	5.8	
101 cis-1, 3-Dichloropropene(sim)	0.442	0.460	-4.1	
102 1, 1, 2-Trichloroethane(sim)	0.349	0.361	-3.4	
103 Dibromochloromethane(sim)	0.841	0.785	6.7	
104 1, 2-Dibromomethane(EDB)(sim)	0.528	0.535	-1.3	
105 Tetrachloroethene(sim)	0.752	0.636	15.4	
106 int Chlorobenzene-d5(sim)	1.000	1.000	0.0	81
107 Bromoform(sim)	1.644	1.609	2.1	
108 m p-Xylene(sim)	1.934	2.010	-3.9	
109 1, 1, 2, 2-Tetrachloroethane(s)	1.893	1.764	6.8	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_01.D
 Acq On : 19 Mar 2022 7:04 am
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb cc - 1.0ppb cc
 ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 19 10:23:13 2022
 Quant Title :
 QLast Update : Fri Mar 18 08:42:58 2022
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Mn. RRF : 0.000 Mn. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%
112 qf	Benzyl chloride(sim)	1.000	1.032	-3.2
113	1,3-Dichlorobenzene(sim)	1.670	1.744	-4.4
114 qf	1,4-Dichlorobenzene(sim)	1.000	1.057	-5.7
115	sec-Butylbenzene(sim)	3.493	4.022	-15.1
116	4-Isopropyltoluene(sim)	2.924	3.399	-16.2
117	1,2-Dichlorobenzene(sim)	1.743	1.786	-2.5
118	n-Butylbenzene(sim)	2.082	2.602	-25.0
119 qf	1,2,4-Trichlorobenzene(sim)	1.000	0.773	22.7#
121	Hexachlorobutadiene(sim)	1.962	2.277	-16.1

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
 Laboratory Warning Limits Out = 0

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
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 Acq On : 19 Mar 2022 7:04 am
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 ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 19 10:23:13 2022
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.709	130	287170	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	1045810	10.000	ng	0.00
54) Chlorobenzene-d5	11.311	82	495258	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	316253	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	1045693	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.311	82	495258	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.131	95	658231	10.347	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	103.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.210	41	40967	1.090	ppbv	97
3) Dichlorodifluoromethane	4.286	85	77448	1.008	ppbv	98
4) Chloromethane	4.447	50	50014	1.001	ppbv	90
5) 1,2-Dichlorotetrafluor...	4.544	85	76295	1.054	ppbv	94
6) Vinyl Chloride	4.652	62	38722	1.001	ppbv	98
7) 1,3-Butadiene	4.782	54	39302	1.013	ppbv	97
8) Bromomethane	5.019	94	26244	1.004	ppbv	96
9) Chloroethane	5.170	64	14705	0.929	ppbv	90
11) Ethanol	5.267	45	24910	1.086	ppbv	98
12) Acetone	5.655	43	83735	1.046	ppbv	96
13) Trichlorofluoromethane	5.762	101	86903	1.059	ppbv	95
14) Isopropylalcohol	5.838	45	108065	1.097	ppbv#	99
15) Acrylonitrile	5.967	53	39000	0.956	ppbv	93
16) 1,1-Dichloroethene	6.228	61	65124	0.978	ppbv	91
17) Methylene Chloride	6.297	49	66267	1.025	ppbv	90
20) Carbon Disulfide	6.538	76	73659	0.957	ppbv	95
21) Trichlorotrifluoroethane	6.478	101	60865	0.964	ppbv	97
22) Trans-1,2-Dichloroethene	6.936	61	60287	1.011	ppbv	89
23) 1,1-Dichloroethane	7.070	63	67286	0.969	ppbv	99
24) Methyl tert-butyl ethe...	7.117	73	63846	0.977	ppbv#	85
26) Methyl Ethyl Ketone	7.322	43	109593	1.053	ppbv#	94
27) Cis-1,2-Dichloroethene	7.595	61	55274	0.971	ppbv#	85
28) Hexane	7.720	57	64761	0.939	ppbv#	93
29) Chloroform	7.782	83	62250	0.966	ppbv	94
30) Ethyl acetate	7.720	61	14267	1.062	ppbv#	77
31) Tetrahydrofuran	8.053	42	56107	1.016	ppbv#	90
32) 1,2-Dichloroethane	8.251	62	54264	0.968	ppbv	93
33) 1,1,1-Trichloroethane	8.407	97	66389	0.956	ppbv	97
34) Benzene	8.692	78	76950	0.965	ppbv	94
35) Carbon Tetrachloride	8.783	117	75479	1.004	ppbv	100
36) Cyclohexane	8.862	84	33962	1.016	ppbv#	83
38) 1,2-dichloropropane	9.156	63	47745	0.990	ppbv	92
39) Bromdichloromethane	9.270	83	67142	0.957	ppbv	99
40) Trichloroethene	9.292	130	40445	0.960	ppbv	96
42) 1,4-Dioxane	9.292	88	15391	0.927	ppbv#	61
44) Heptane	9.417	43	96625	1.003	ppbv#	90
45) cis-1,3-Dichloropropene	9.768	75	44504	0.959	ppbv	97
46) 4-Methyl-2-pentanone(M..	9.779	43	123563	0.994	ppbv#	96
47) trans-1,3-Dichloropropene	10.050	75	40544	0.955	ppbv	98
48) 1,1,2-Trichloroethane	10.164	97	37794	0.993	ppbv	99
49) Toluene	10.322	91	98401	0.958	ppbv	98
50) Dibromochloromethane	10.573	129	75612	0.942	ppbv	98
51) 2-Hexanone (MBK)	10.435	43	114989	0.948	ppbv#	86

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_01.D
 Acq On : 19 Mar 2022 7:04 am
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb cc - 1.0ppb cc
 ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 19 10:23:13 2022
 Quant Title :
 QLast Update : Fri Mar 18 08:42:58 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
52) 1, 2-Dibromethane (EDB)	10.718	107	55924	0.956	ppbv	99
53) Tetrachloroethene	10.961	166	58330	1.016	ppbv	96
55) 1, 1, 1, 2-Tetrachloroethane	11.311	131	52543	1.070	ppbv	93
56) Chlorobenzene	11.332	112	87141	1.075	ppbv	93
57) Ethylbenzene	11.516	91	123471	1.045	ppbv	95
58) m p-Xylene	11.609	91	197531	2.092	ppbv	100
59) Bromoform	11.691	173	69827	1.039	ppbv	91
60) Styrene	11.814	104	64739	0.969	ppbv	93
61) 1, 1, 2, 2-Tetrachloroethane	11.875	83	77775	0.970	ppbv	98
62) o-Xylene	11.875	91	102865	1.040	ppbv	99
65) Isopropylbenzene	12.193	105	151873	1.044	ppbv	96
67) 4-Ethyltoluene	12.562	105	160790	1.036	ppbv	94
68) 1, 3, 5-Trimethylbenzene	12.593	105	114383	1.031	ppbv	91
69) 1, 2, 4-Trimethylbenzene	12.849	105	124259	1.017	ppbv	99
71) Benzyl chloride	12.480	91	259755	1.022	ppbv	99
72) 1, 3-Dichlorobenzene	12.962	146	73818	0.904	ppbv	96
73) 1, 4-Dichlorobenzene	13.003	146	66402	1.022	ppbv	96
74) sec-Butylbenzene	13.014	105	188361	1.063	ppbv	96
75) 4-Isopropyltoluene	13.096	119	168358	1.036	ppbv	97
76) 1, 2-Dichlorobenzene	13.229	146	77494	0.975	ppbv	95
77) n-Butylbenzene	13.363	91	128866	0.999	ppbv	98
78) 1, 2, 4-Trichlorobenzene	14.419	180	32100	0.795	ppbv	93
80) Hexachlorobutadiene	14.748	225	88714	1.136	ppbv	98
82) 1, 2-Dichlorotetrafluor...	4.544	85	76289	1.001	ppbv	94
83) Vinyl Chloride(sim)	4.658	62	42641	1.001	ppbv	97
84) Bromomethane(sim)	5.019	94	26244	0.926	ppbv	96
85) Trichlorofluoromethane...	5.768	101	92612	1.053	ppbv#	100
86) 1, 2-Dichloroethane(sim)	8.251	62	54264	1.021	ppbv	93
87) 1, 1, 1-Trichloroethane(...)	8.413	97	76052	1.033	ppbv#	98
88) Benzene(sim)	8.692	78	76959	0.948	ppbv	94
89) Carbon Tetrachloride(sim)	8.777	117	80781	1.044	ppbv	98
90) 1, 1-Dichloroethene(sim)	6.228	61	65124	0.977	ppbv	91
91) Trichlorotrifluoroetha...	6.484	101	66950	0.994	ppbv#	99
92) Trans-1, 2-Dichloroethe...	6.936	61	60287	1.046	ppbv	89
93) 1, 1-Dichloroethane(sim)	7.075	63	75714	1.024	ppbv	96
94) Cis-1, 2-Dichloroethene...	7.595	61	55274	1.042	ppbv#	85
95) Chloroform(sim)	7.788	83	69154	0.989	ppbv	97
97) 1, 2-dichloropropane(sim)	9.162	63	51833	0.941	ppbv	90
98) Bromdichloromethane(sim)	9.270	83	67142	0.919	ppbv	99
99) Trichloroethene(sim)	9.298	130	46246	0.978	ppbv	100
100) 1, 4-Dioxane(sim)	9.292	88	15391	0.941	ppbv#	61
101) cis-1, 3-Dichloropropen...	9.762	75	48141	1.040	ppbv	99
102) 1, 1, 2-Trichloroethane(...)	10.164	97	37794	1.035	ppbv	99
103) Dibromchloromethane(sim)	10.578	129	82114	0.934	ppbv	99
104) 1, 2-Dibromethane(EDB)...	10.718	107	55924	1.013	ppbv	99
105) Tetrachloroethene(sim)	10.967	166	66525	0.846	ppbv	100
107) Bromoform(sim)	11.696	173	79693	0.979	ppbv	99
108) m p-Xylene(sim)	11.609	91	199076	2.078	ppbv	99
109) 1, 1, 2, 2-Tetrachloroeth...	11.871	83	87372	0.932	ppbv	98
112) Benzyl chloride(sim)	12.952	91	68737	1.032	ppbv	100
113) 1, 3-Dichlorobenzene(sim)	12.968	146	86364	1.044	ppbv	96
114) 1, 4-Dichlorobenzene(sim)	13.003	146	66402	1.057	ppbv	96
115) sec-Butylbenzene(sim)	13.009	105	199205	1.152	ppbv	98
116) 4-Isopropyltoluene(sim)	13.096	119	168358	1.163	ppbv	97
117) 1, 2-Dichlorobenzene(sim)	13.235	146	88468	1.025	ppbv	98
118) n-Butylbenzene(sim)	13.363	91	128866	1.249	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_01.D
 Acq On : 19 Mar 2022 7:04 am
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb cc - 1.0ppb cc
 ALS Vial : 63 Sample Multiplier: 1

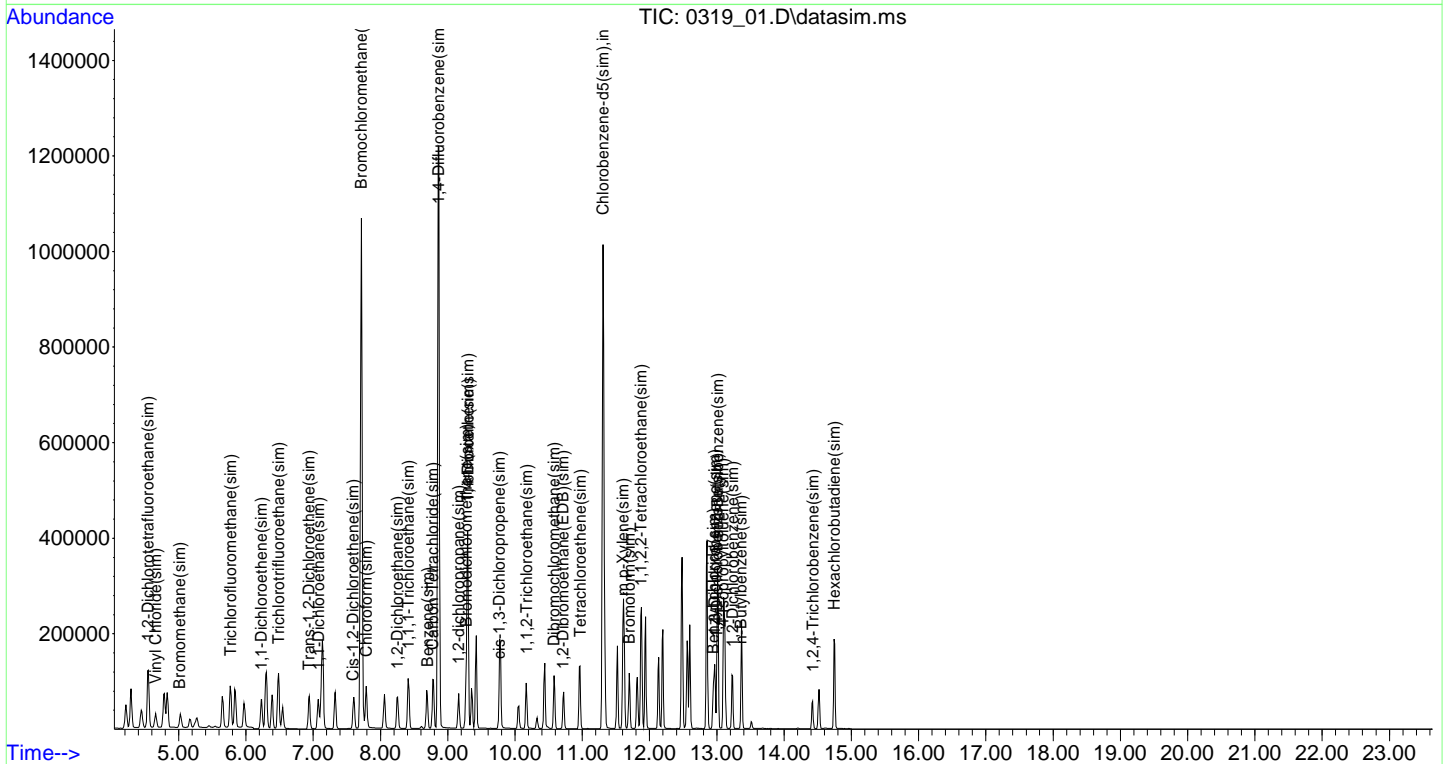
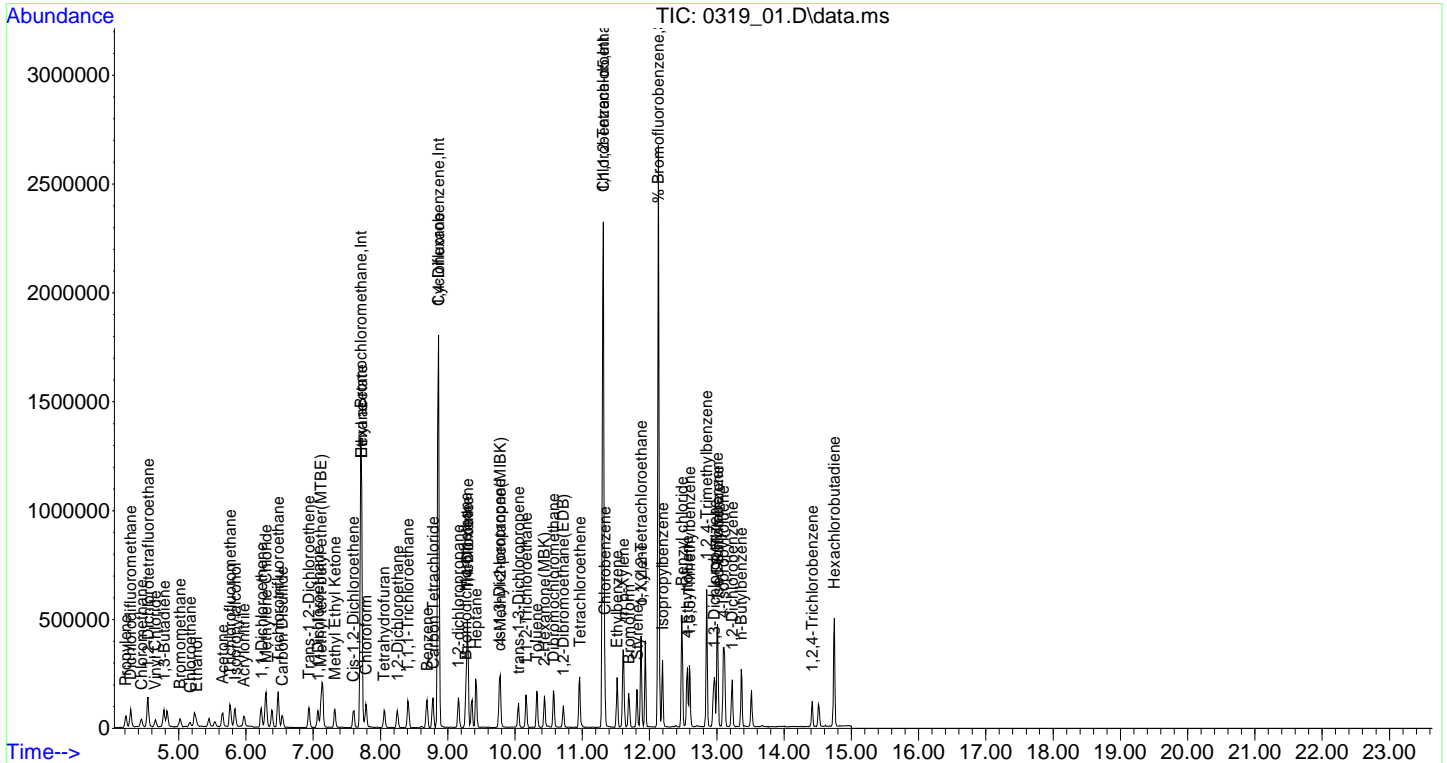
Quant Time: Mar 19 10:23:13 2022
 Quant Title :
 QLast Update : Fri Mar 18 08:42:58 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
119] 1,2,4-Trichlorobenzene...	14.425	180	37082	0.773	ppbv	99
121] Hexachlorobutadiene(sim)	14.743	225	112782	1.161	ppbv	100

(#)out of range (n)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
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 Acq On : 19 Mar 2022 7:04 am
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 Lab ID : 1.0ppb cc - 1.0ppb cc
 ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 19 10:23:13 2022
 Quant Title :
 Last Update : Fri Mar 18 08:42:58 2022
 Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CK90281 LCS

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90281 LCS
Canister:	LCS	Lab File ID:	0319_03.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200 (cc)	Date Received:	03/18/22
Matrix:	AIR	Date Analyzed:	03/19/22
		Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	10.6		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	10.2		0.202	0.202	r
74-87-3	Chloromethane	9.89		0.485	0.485	r
76-14-2	1,2-Dichlorotetrafluoroethane	10.3		0.143	0.143	r
75-01-4	Vinyl Chloride	10.1		0.078	0.078	r
106-99-0	1,3-Butadiene	10.3		0.452	0.452	r
74-83-9	Bromomethane	9.65		0.258	0.258	r
75-00-3	Chloroethane	9.64		0.379	0.379	r
64-17-5	Ethanol	7.84		0.531	0.531	r
67-64-1	Acetone	9.73		0.421	0.421	r
75-69-4	Trichlorofluoromethane	10.4		0.178	0.178	r
67-63-0	Isopropylalcohol	9.94		0.407	0.407	r
107-13-1	Acrylonitrile	10.1		0.461	0.461	r
75-35-4	1,1-Dichloroethene	10.0		0.051	0.051	r
75-09-2	Methylene Chloride	10.4		0.863	0.863	r
75-15-0	Carbon Disulfide	9.99		0.321	0.321	r
76-13-1	Trichlorotrifluoroethane	9.55		0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene	10.2		0.252	0.252	r
75-34-3	1,1-Dichloroethane	9.74		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	10.5		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	10.3		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	10.2		0.051	0.051	r
110-54-3	Hexane	11.0		0.284	0.284	r
67-66-3	Chloroform	9.71		0.205	0.205	r
141-78-6	Ethyl acetate	11.1		0.278	0.278	r
109-99-9	Tetrahydrofuran	11.0		0.339	0.339	r
107-06-2	1,2-Dichloroethane	10.1		0.247	0.247	r
71-55-6	1,1,1-Trichloroethane	10.0		0.183	0.183	r
71-43-2	Benzene	9.89		0.313	0.313	r
56-23-5	Carbon Tetrachloride	10.3		0.032	0.032	r
110-82-7	Cyclohexane	9.33		0.291	0.291	r
78-87-5	1,2-dichloropropane	9.90		0.217	0.217	r
75-27-4	Bromodichloromethane	9.77		0.149	0.149	r
79-01-6	Trichloroethene	10.1		0.037	0.037	r
123-91-1	1,4-Dioxane	9.53		0.278	0.278	r
142-82-5	Heptane	11.0		0.244	0.244	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CK90281 LCS

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCK90290 Lab Sample ID: CK90281 LCS

Canister: LCS Lab File ID: 0319_03.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 03/18/22

Purge Volume 200 (cc) Date Analyzed: 03/19/22

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
10061-01-5	cis-1,3-Dichloropropene	10.2		0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	11.0		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	10.2		0.220	0.220	r
79-00-5	1,1,2-Trichloroethane	9.90		0.183	0.183	r
108-88-3	Toluene	10.2		0.266	0.266	r
124-48-1	Dibromochloromethane	9.64		0.117	0.117	r
591-78-6	2-Hexanone(MBK)	11.3		0.244	0.244	r
106-93-4	1,2-Dibromoethane(EDB)	9.98		0.130	0.130	r
127-18-4	Tetrachloroethene	10.1		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	10.1		0.146	0.146	r
108-90-7	Chlorobenzene	10.3		0.217	0.217	r
100-41-4	Ethylbenzene	11.1		0.230	0.230	r
179601-23-1	m,p-Xylene	22.2		0.230	0.230	r
75-25-2	Bromoform	10.8		0.097	0.097	r
100-42-5	Styrene	11.3		0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane	9.62		0.146	0.146	r
95-47-6	o-Xylene	11.1		0.230	0.230	r
98-82-8	Isopropylbenzene	10.3		0.204	0.204	r
622-96-8	4-Ethyltoluene	11.3		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	10.8		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	11.4		0.204	0.204	r
100-44-7	Benzyl chloride	10.8		0.193	0.193	r
541-73-1	1,3-Dichlorobenzene	10.9		0.166	0.166	r
106-46-7	1,4-Dichlorobenzene	12.5		0.166	0.166	r
135-98-8	sec-Butylbenzene	10.7		0.182	0.182	r
99-87-6	4-Isopropyltoluene	11.1		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene	10.9		0.166	0.166	r
104-51-8	n-Butylbenzene	11.2		0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene	10.9		0.135	0.135	r
87-68-3	Hexachlorobutadiene	9.72		0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_03.D
 Acq On : 19 Mar 2022 8:10 am
 Operator :
 Client ID : CK90281 LCS
 Lab ID : CK90281 LCS
 ALS Vial : 65 Sample Multiplier: 1

Quant Time: Mar 23 16:22:47 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.709	130	298392	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	1120747	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	559202	10.000	ng	0.00
81) Bromochloromethane(sim)	7.715	130	322049	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	1120747	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	558838	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	750975	10.455	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	104.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.210	41	414368	10.615	ppbv	98
3) Dichlorodifluoromethane	4.286	85	810633	10.155	ppbv	99
4) Chloromethane	4.447	50	513520	9.890	ppbv	98
5) 1,2-Dichlorotetrafluor...	4.545	85	776870	10.325	ppbv	98
6) Vinyl Chloride	4.652	62	405633	10.087	ppbv	97
7) 1,3-Butadiene	4.782	54	415290	10.297	ppbv	98
8) Bromomethane	5.019	94	262245	9.651	ppbv	99
9) Chloroethane	5.170	64	158635	9.640	ppbv	95
11) Ethanol	5.256	45	186824	7.841	ppbv	95
12) Acetone	5.633	43	809283	9.730	ppbv#	89
13) Trichlorofluoromethane	5.762	101	883677	10.365	ppbv	97
14) Isopropylalcohol	5.816	45	1017418	9.943	ppbv	96
15) Acrylonitrile	5.967	53	426585	10.067	ppbv	96
16) 1,1-Dichloroethene	6.228	61	692668	10.015	ppbv	88
17) Methylene Chloride	6.306	49	697617	10.382	ppbv#	89
20) Carbon Disulfide	6.547	76	798420	9.985	ppbv	94
21) Trichlorotrifluoroethane	6.478	101	626166	9.546	ppbv	97
22) Trans-1,2-Dichloroethene	6.936	61	634212	10.237	ppbv	91
23) 1,1-Dichloroethane	7.070	63	703254	9.742	ppbv	98
24) Methyl tert-butyl ethe...	7.102	73	712745	10.492	ppbv#	91
26) Methyl Ethyl Ketone	7.306	43	1117412	10.335	ppbv#	94
27) Cis-1,2-Dichloroethene	7.605	61	605011	10.224	ppbv	87
28) Hexane	7.720	57	787586	10.989	ppbv#	79
29) Chloroform	7.782	83	649954	9.710	ppbv	97
30) Ethyl acetate	7.709	61	154950	11.104	ppbv#	84
31) Tetrahydrofuran	8.043	42	632204	11.013	ppbv#	88
32) 1,2-Dichloroethane	8.251	62	585909	10.058	ppbv	97
33) 1,1,1-Trichloroethane	8.407	97	722312	10.010	ppbv	97
34) Benzene	8.692	78	818989	9.888	ppbv#	93
35) Carbon Tetrachloride	8.783	117	802800	10.274	ppbv	99
36) Cyclohexane	8.862	84	323969	9.329	ppbv#	84
38) 1,2-dichloropropane	9.156	63	511936	9.903	ppbv	88
39) Bromdichloromethane	9.270	83	734600	9.774	ppbv	98
40) Trichloroethene	9.292	130	454730	10.067	ppbv	96
42) 1,4-Dioxane	9.281	88	169389	9.525	ppbv#	58
44) Heptane	9.417	43	1134541	10.993	ppbv	91
45) cis-1,3-Dichloropropene	9.768	75	507350	10.204	ppbv	98
46) 4-Methyl-2-pentanone(M..	9.768	43	1458908	10.952	ppbv#	95
47) trans-1,3-Dichloropropene	10.051	75	465511	10.231	ppbv	98
48) 1,1,2-Trichloroethane	10.164	97	403686	9.901	ppbv	99
49) Toluene	10.322	91	1123567	10.210	ppbv	99
50) Dibromochloromethane	10.573	129	829175	9.639	ppbv	99

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_03.D
 Acq On : 19 Mar 2022 8:10 am
 Operator :
 Client ID : CK90281 LCS
 Lab ID : CK90281 LCS
 ALS Vial : 65 Sample Multiplier: 1

Quant Time: Mar 23 16:22:47 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
51) 2-Hexanone (MBK)	10.435	43	1467280	11.290	ppbv#	84
52) 1,2-Dibromethane (EDB)	10.718	107	626039	9.984	ppbv	98
53) Tetrachloroethene	10.961	166	622692	10.120	ppbv	95
55) 1,1,1,2-Tetrachloroethane	11.322	131	557403	10.053	ppbv	96
56) Chlorobenzene	11.332	112	938193	10.254	ppbv	84
57) Ethylbenzene	11.517	91	1473053	11.047	ppbv	94
58) m p-Xylene	11.609	91	2365717	22.186	ppbv	99
59) Bromform	11.691	173	821626	10.832	ppbv	95
60) Styrene	11.814	104	855532	11.337	ppbv	95
61) 1,1,2,2-Tetrachloroethane	11.875	83	870170	9.615	ppbv	94
62) o-Xylene	11.875	91	1240400	11.111	ppbv	99
65) Isopropylbenzene	12.193	105	1687535	10.275	ppbv	97
67) 4-Ethyltoluene	12.562	105	1986510	11.341	ppbv#	92
68) 1,3,5-Trimethylbenzene	12.593	105	1351490	10.788	ppbv	93
69) 1,2,4-Trimethylbenzene	12.850	105	1571767	11.392	ppbv	96
71) Benzyl chloride	12.480	91	3102631	10.808	ppbv	99
72) 1,3-Dichlorobenzene	12.973	146	1000329	10.848	ppbv	98
73) 1,4-Dichlorobenzene	13.004	146	920174	12.543	ppbv	94
74) sec-Butylbenzene	13.014	105	2145750	10.727	ppbv	97
75) 4-Isopropyltoluene	13.096	119	2028430	11.050	ppbv	99
76) 1,2-Dichlorobenzene	13.229	146	976133	10.879	ppbv	98
77) n-Butylbenzene	13.363	91	1627871	11.177	ppbv	98
78) 1,2,4-Trichlorobenzene	14.420	180	497351	10.909	ppbv	92
80) Hexachlorobutadiene	14.748	225	856417	9.715	ppbv	99
82) 1,2-Dichlorotetrafluor...	4.545	85	775830	9.998	ppbv	98
83) Vinyl Chloride(sim)	4.658	62	438690	10.112	ppbv	98
84) Brommethane(sim)	5.019	94	262245	9.083	ppbv	99
85) Trichlorofluoromethane...	5.768	101	958232	10.701	ppbv#	100
86) 1,2-Dichloroethane(sim)	8.251	62	585909	10.824	ppbv	97
87) 1,1,1-Trichloroethane(...)	8.413	97	820029	10.941	ppbv#	98
88) Benzene(sim)	8.692	78	818989	9.905	ppbv#	93
89) Carbon Tetrachloride(sim)	8.789	117	865849	10.987	ppbv	97
90) 1,1-Dichloroethene(sim)	6.228	61	692668	10.203	ppbv	88
91) Trichlorotrifluoroetha...	6.484	101	688227	10.030	ppbv#	99
92) Trans-1,2-Dichloroethe...	6.936	61	634212	10.802	ppbv	91
93) 1,1-Dichloroethane(sim)	7.076	63	772452	10.256	ppbv	96
94) Cis-1,2-Dichloroethene...	7.605	61	605011	11.199	ppbv	87
95) Chloroform(sim)	7.788	83	713848	10.024	ppbv	98
97) 1,2-dichloropropane(sim)	9.162	63	555159	9.407	ppbv	89
98) Bromdichloromethane(sim)	9.270	83	734600	9.380	ppbv	98
99) Trichloroethene(sim)	9.298	130	499067	9.844	ppbv	99
100) 1,4-Dioxane(sim)	9.281	88	169389	9.659	ppbv#	58
101) cis-1,3-Dichloropropen...	9.773	75	553324	11.158	ppbv	99
102) 1,1,2-Trichloroethane(...)	10.164	97	403686	10.311	ppbv	99
103) Dibromchloromethane(sim)	10.578	129	919548	9.760	ppbv	100
104) 1,2-Dibromethane(EDB)...	10.718	107	626039	10.582	ppbv	98
105) Tetrachloroethene(sim)	10.967	166	713914	8.468	ppbv	99
107) Bromoform(sim)	11.696	173	948646	10.325	ppbv	99
108) m p-Xylene(sim)	11.609	91	2370397	21.933	ppbv	99
109) 1,1,2,2-Tetrachloroeth...	11.871	83	945207	8.934	ppbv	98
112) Benzyl chloride(sim)	12.952	91	1040834	8.830	ppbv	99
113) 1,3-Dichlorobenzene(sim)	12.968	146	1135411	12.163	ppbv	96
114) 1,4-Dichlorobenzene(sim)	13.004	146	921478	7.062	ppbv	94
115) sec-Butylbenzene(sim)	13.009	105	2309807	11.834	ppbv	98
116) 4-Isopropyltoluene(sim)	13.096	119	2028662	12.417	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_03.D
 Acq On : 19 Mar 2022 8:10 am
 Operator :
 Client ID : CK90281 LCS
 Lab ID : CK90281 LCS
 ALS Vial : 65 Sample Multiplier: 1

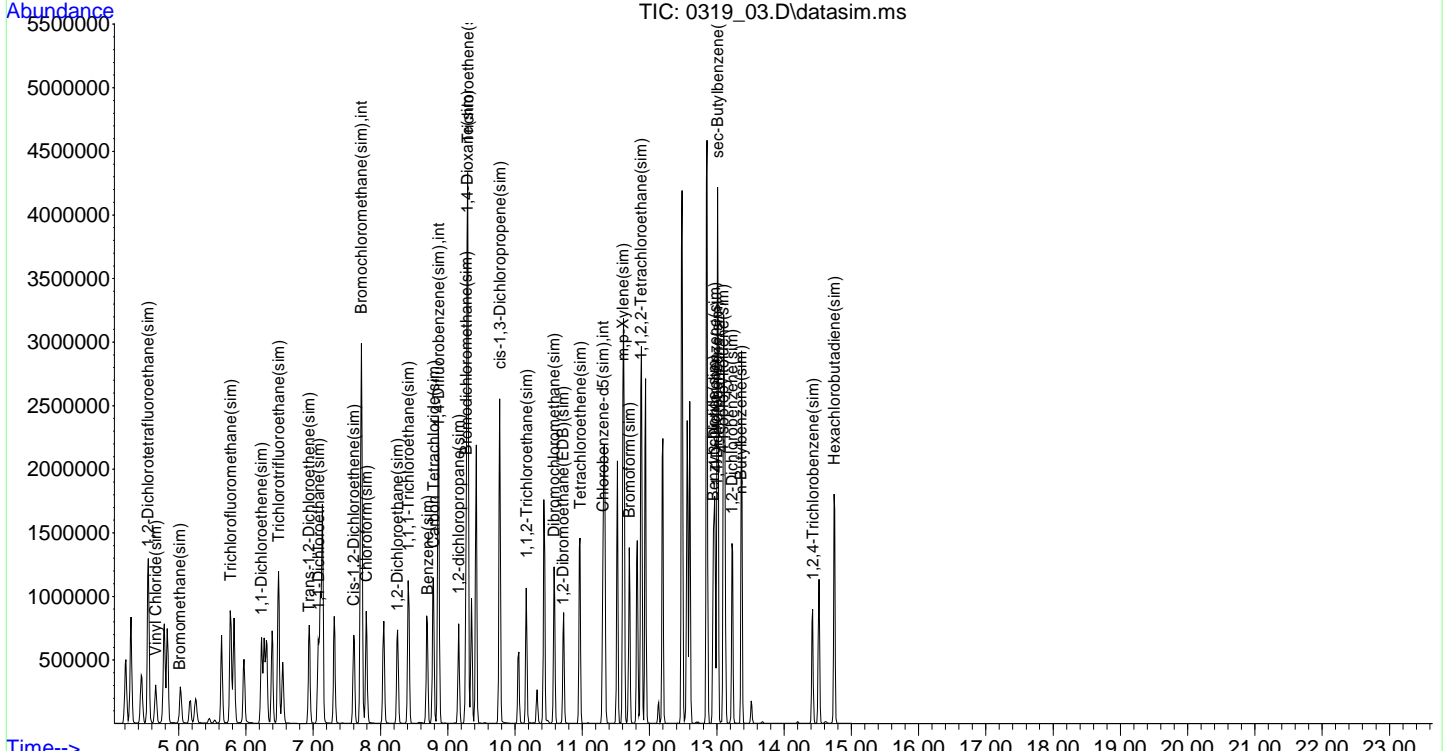
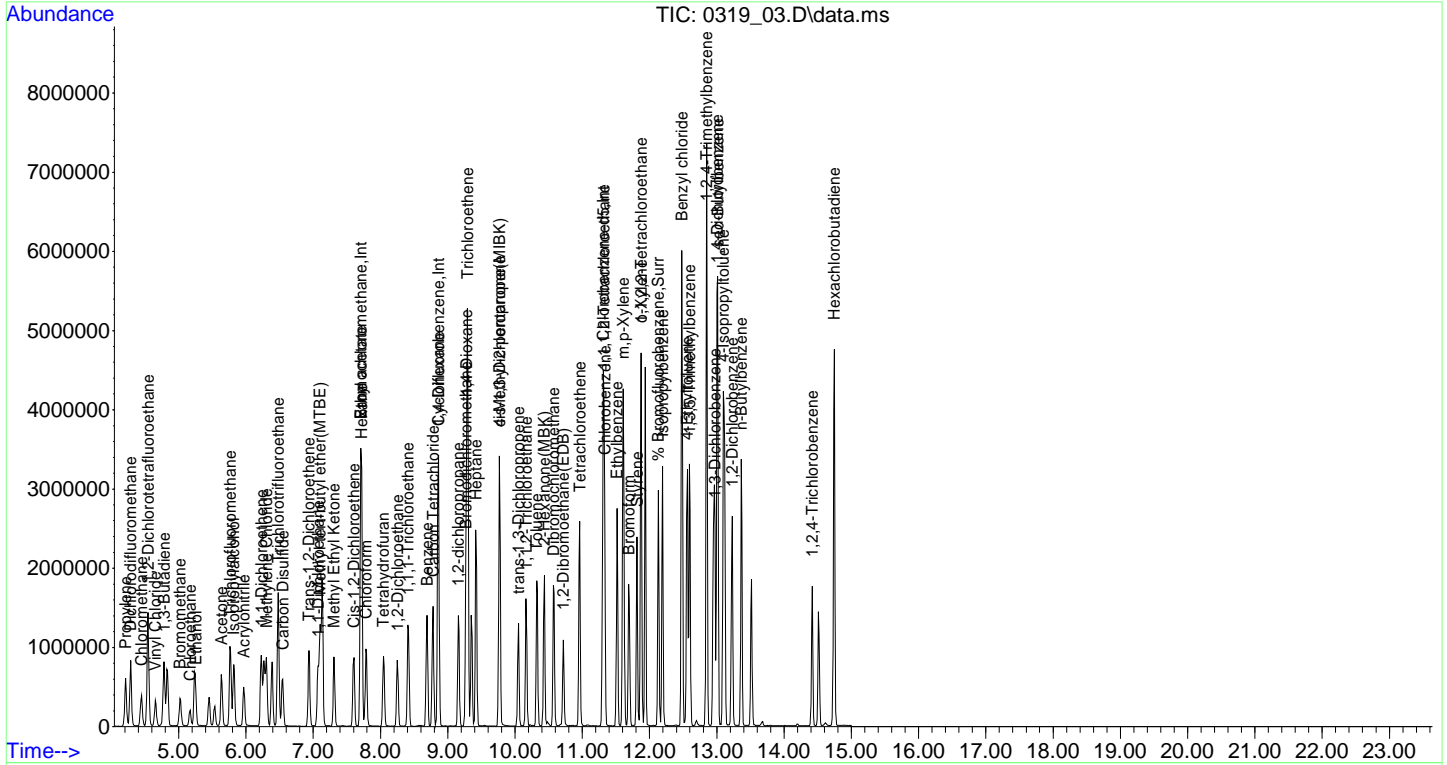
Quant Time: Mar 23 16:22:47 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
117] 1, 2-Dichlorobenzene(sim)	13.225	146	1101067	11.301	ppbv	98
118] n-Butylbenzene(sim)	13.363	91	1627871	13.988	ppbv	98
119] 1, 2, 4-Trichlorobenzene...	14.425	180	565583	3.202	ppbv	98
121] Hexachlorobutadiene(sim)	14.743	225	1079820	9.850	ppbv	100

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_03.D
 Acq On : 19 Mar 2022 8:10 am
 Operator :
 Client ID : CK90281 LCS
 Lab ID : CK90281 LCS
 ALS Vial : 65 Sample Multiplier: 1

Quant Time: Mar 23 16:22:47 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CK90281 QC

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90281
Canister:	7647	Lab File ID:	0319_09.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200 (cc)	Date Received:	03/18/22
Matrix:	AIR	Date Analyzed:	03/19/22
		Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	1.917		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.457		0.202	0.202	r
74-87-3	Chloromethane	0.579		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	23.5	S	0.531	0.531	r
67-64-1	Acetone	48.8	ES	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.217		0.178	0.178	r
67-63-0	Isopropylalcohol	3.55	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	4.68	S	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.944	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.704		0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
79-01-6	Trichloroethene	1.40		0.037	0.037	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.361		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.484		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.333		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.283		0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CK90281 QC

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90281
Canister:	7647	Lab File ID:	0319_09.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200 (cc)	Date Received:	03/18/22
Matrix:	AIR	Date Analyzed:	03/19/22
		Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.073		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_09.D
 Acq On : 19 Mar 2022 11:42 am
 Operator :
 Client ID : CK90281 QC
 Lab ID : CK90281 QC
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 23 16:25:47 2022
 Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 18 08:43:01 2022
 Response via : Initial Calibration

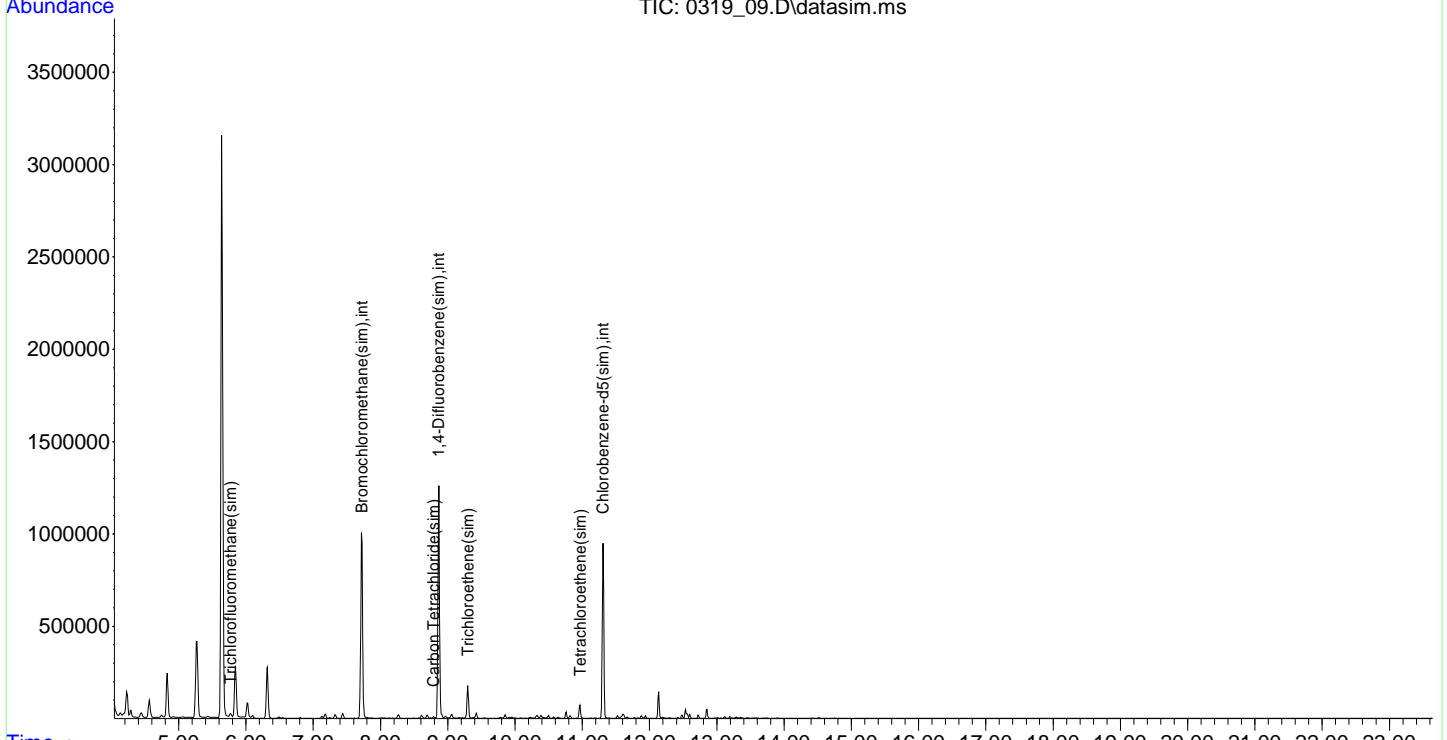
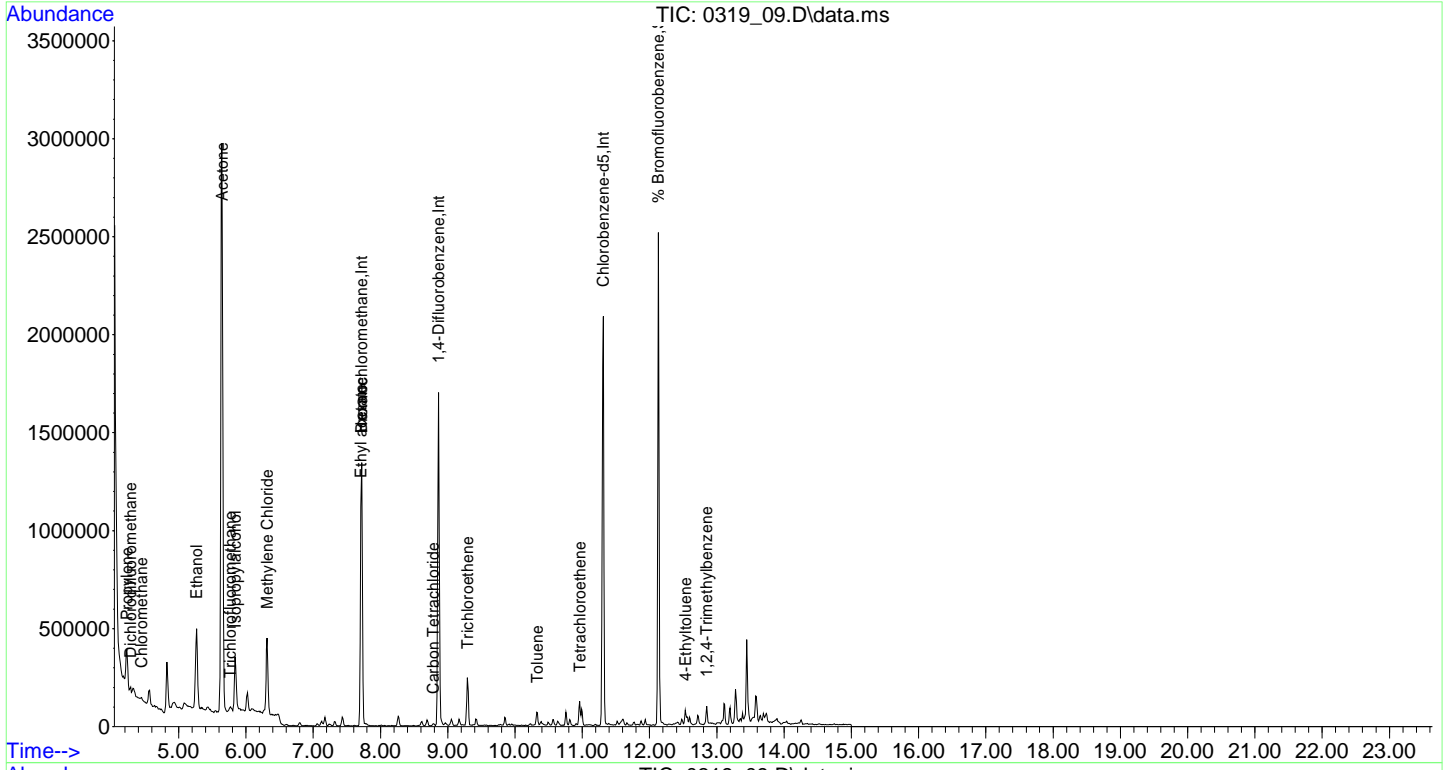
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.720	130	288004	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	1019678	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	486386	10.000	ng	0.00
81) Bromochloromethane(sim)	7.725	130	315511	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	8.862	114	1019678	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	486386	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.132	95	619044	9.909	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	99.10%	
Target Compounds						
						Qvalue
2) Propylene	4.232	41	72232	1.917	ppbv#	62
3) Dichlorodifluoromethane	4.286	85	35171	0.456	ppbv	94
4) Chloromethane	4.447	50	29007	0.579	ppbv	100
11) Ethanol	5.267	45	541524	23.546	ppbv	95
12) Acetone	5.644	43	3918678	48.811	ppbv	91
13) Trichlorofluoromethane	5.762	101	17881	0.217	ppbv	97
14) Isopropylalcohol	5.838	45	350152	3.546	ppbv	97
17) Methylene Chloride	6.314	49	303271	4.676	ppbv	88
28) Hexane	7.720	57	65263	0.943	ppbv#	89
30) Ethyl acetate	7.709	61	9479	0.704	ppbv#	88
35) Carbon Tetrachloride	8.783	117	4998	0.066	ppbv	88
40) Trichloroethene	9.292	130	57402	1.397	ppbv	96
49) Toluene	10.333	91	36176	0.361	ppbv#	98
53) Tetrachloroethene	10.961	166	27108	0.484	ppbv	87
67) 4-Ethyltoluene	12.531	105	50748	0.333	ppbv	96
69) 1,2,4-Trimethylbenzene	12.850	105	33990	0.283	ppbv#	82
85] Trichlorofluoromethane...	5.768	101	18664	0.213	ppbv#	99
89] Carbon Tetrachloride(sim)	8.789	117	5603	0.073	ppbv	95
99] Trichloroethene(sim)	9.298	130	63569	1.378	ppbv	100
105] Tetrachloroethene(sim)	10.967	166	34880	0.455	ppbv	98

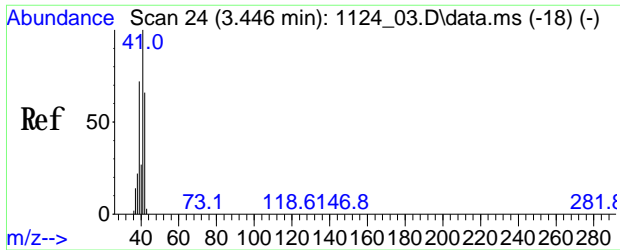
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0319_09.D
Acq On : 19 Mar 2022 11:42 am
Operator :
Client ID : CK90281 QC
Lab ID : CK90281 QC
ALS Vial : 1 Sample Multiplier: 1

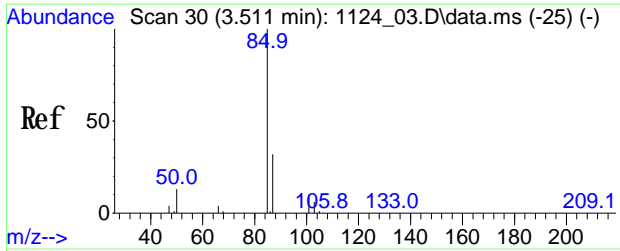
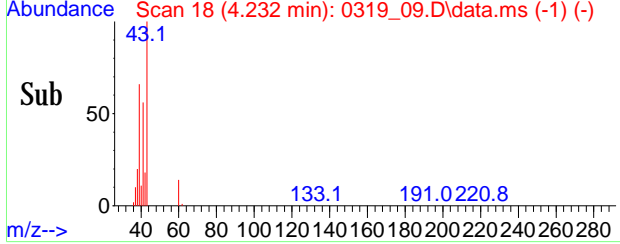
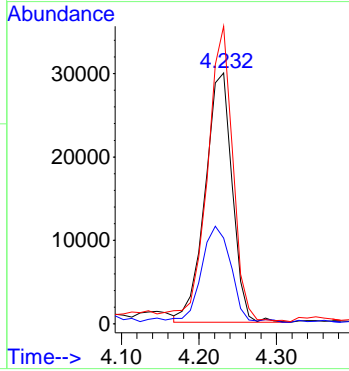
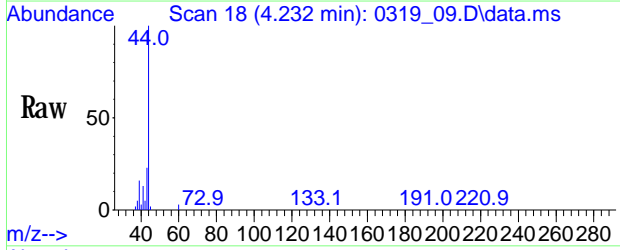
Quant Time: Mar 23 16:25:47 2022
Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0317.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 18 08:43:01 2022
Response via : Initial Calibration





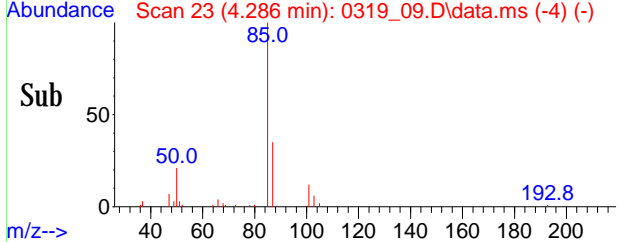
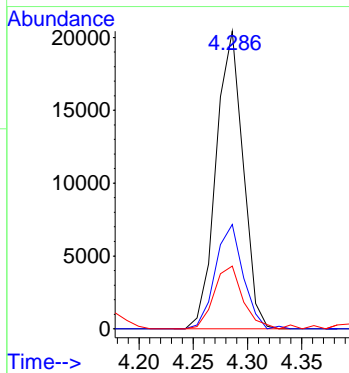
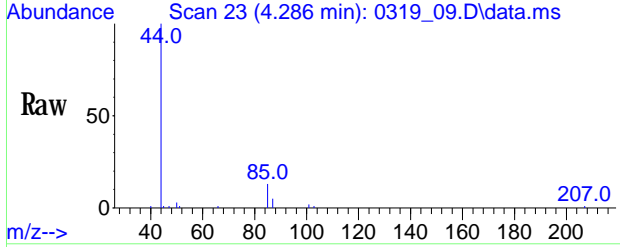
#2
 Propylene
 Conc: 8S 1.917 ppbv
 RT: 4.232 min Scan# 18
 Delta R.T. 0.021 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

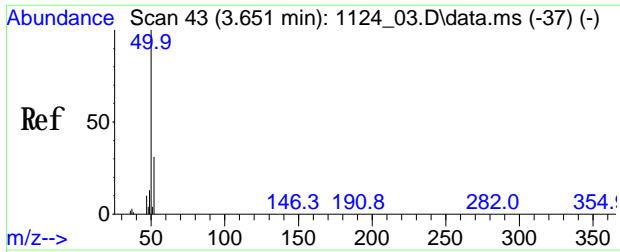
Tgt Ion	Ratio	Resp	Lower	Upper
41	100	72232		
42	40.9	51.0	76.6#	
39	109.7	57.2	85.8#	



#3
 Dichlorodifluoromethane
 Conc: 8S 0.456 ppbv
 RT: 4.286 min Scan# 23
 Delta R.T. -0.000 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

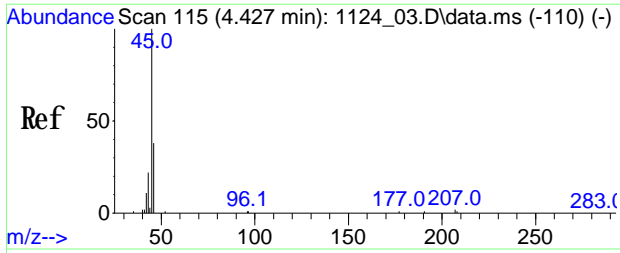
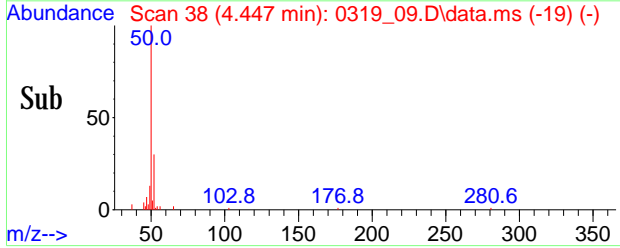
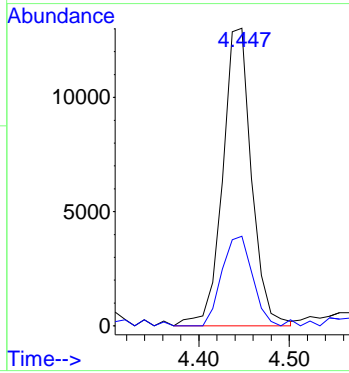
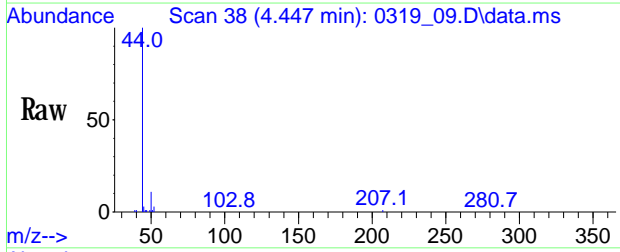
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	35171		
87	36.3	26.0	39.0	
50	22.6	16.2	24.4	





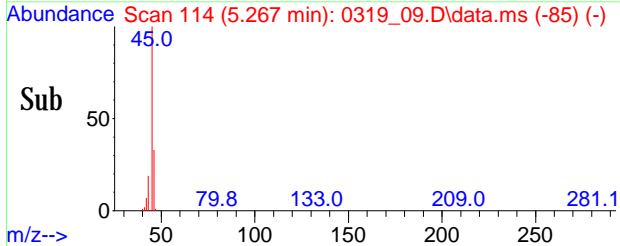
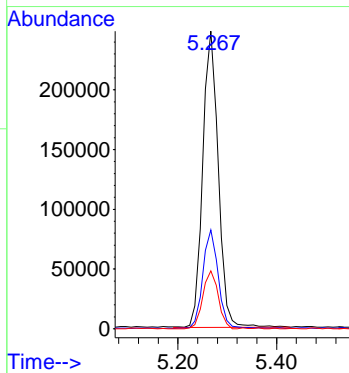
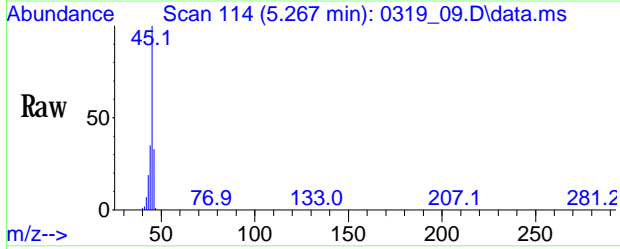
#4
 Chloromethane
 Conc: 8S 0.579 ppbv
 RT: 4.447 min Scan# 38
 Delta R.T. -0.000 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

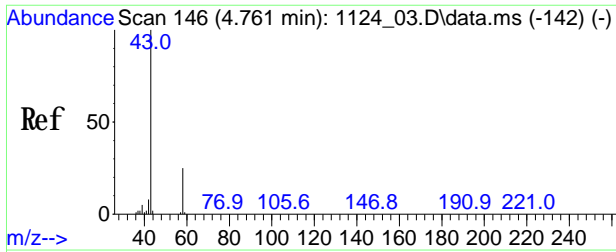
Tgt Ion	Ratio	Lower	Upper
50	100		
52	31.8	11.9	51.9



#11
 Ethanol
 Conc: 8S 23.546 ppbv
 RT: 5.267 min Scan# 114
 Delta R.T. 0.011 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

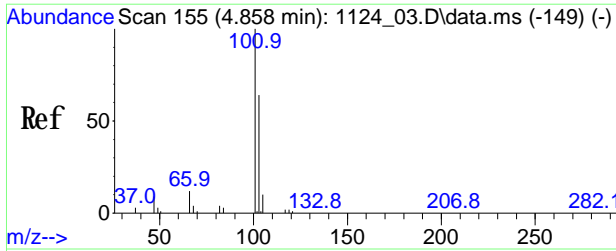
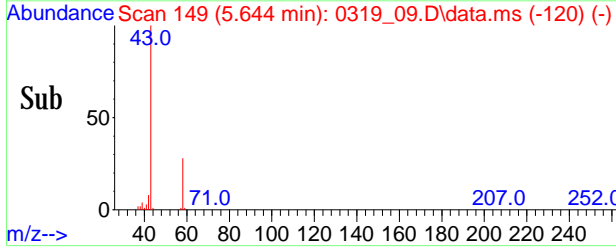
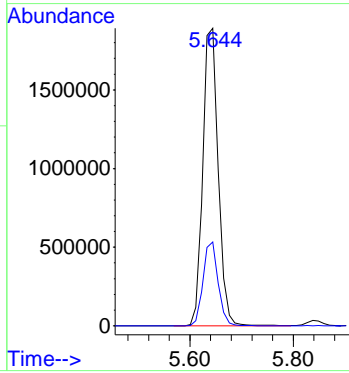
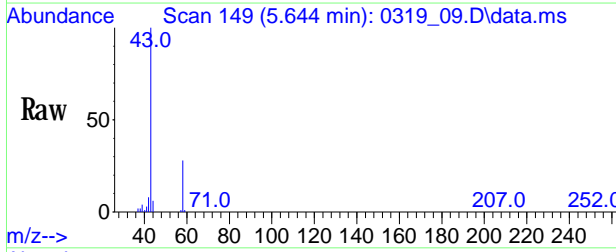
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.9	27.2	40.8
43	19.4	19.4	29.0





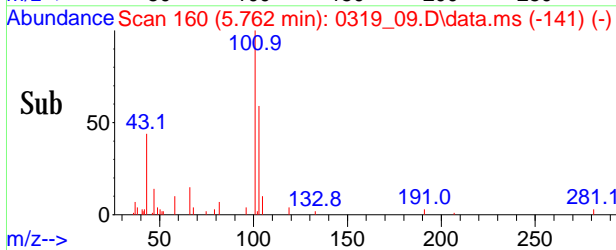
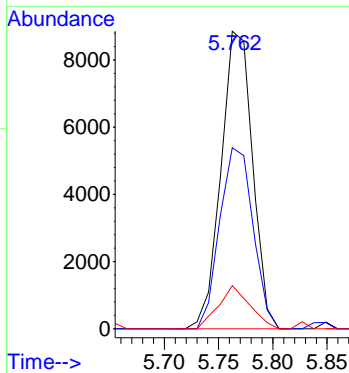
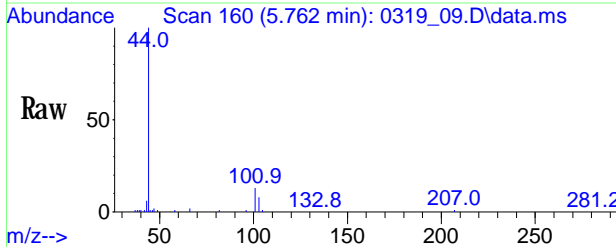
#12
 Acetone
 Conc: 8S 48.811 ppbv
 RT: 5.644 min Scan# 149
 Delta R.T. 0.011 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

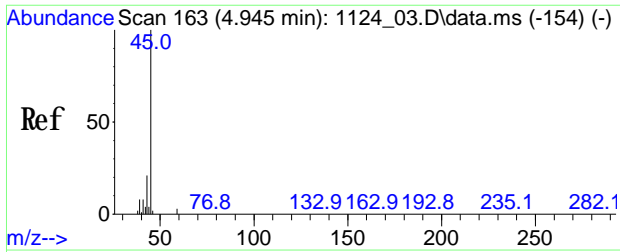
Tgt Ion: 43 Resp: 3918678
 Ion Ratio Lower Upper
 43 100
 58 27.6 18.6 27.8



#13
 Trichlorofluoromethane
 Conc: 8S 0.217 ppbv
 RT: 5.762 min Scan# 160
 Delta R.T. -0.000 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

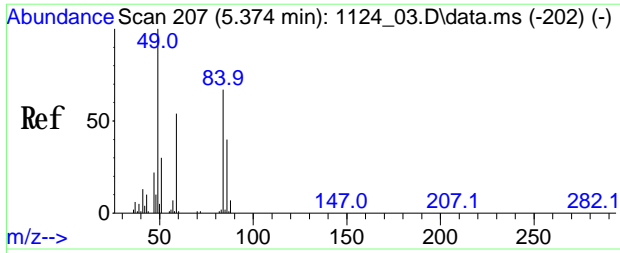
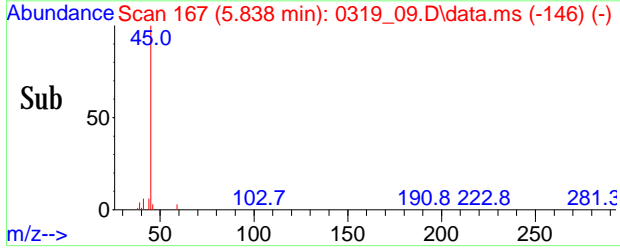
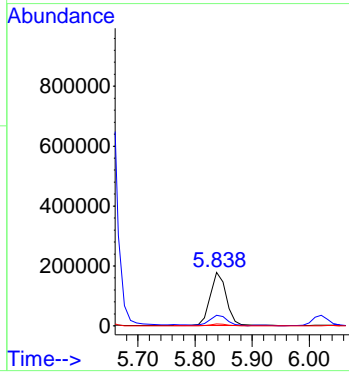
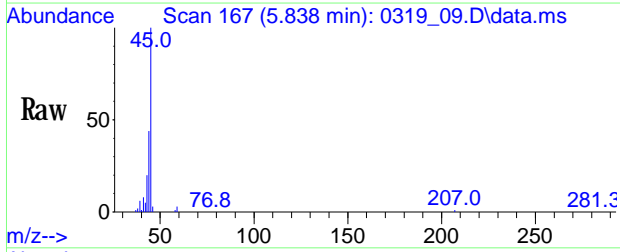
Tgt Ion: 101 Resp: 17881
 Ion Ratio Lower Upper
 101 100
 103 64.3 53.4 80.0
 66 14.5 11.2 16.8





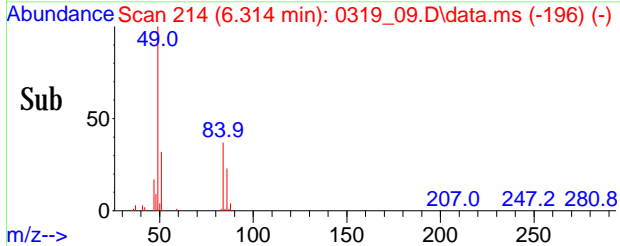
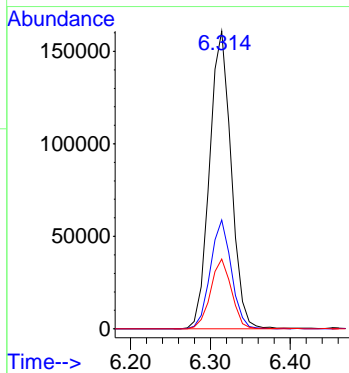
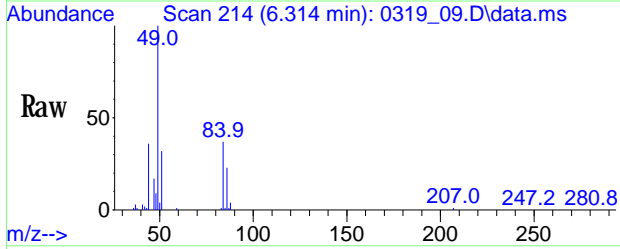
#14
 Isopropyl alcohol
 Conc: 8S 3.546 ppbv
 RT: 5.838 min Scan# 167
 Delta R.T. 0.021 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

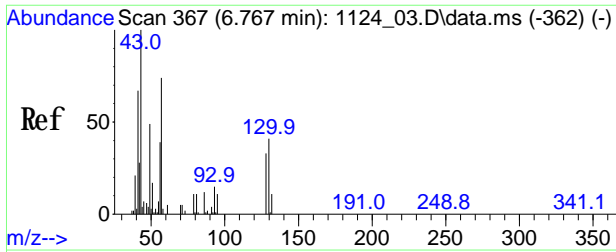
Tgt Ion	Ratio	Lower	Upper
45	100		
43	22.1	16.6	24.8
59	3.4	2.4	3.6



#17
 Methylene Chloride
 Conc: 8S 4.676 ppbv
 RT: 6.314 min Scan# 214
 Delta R.T. 0.009 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

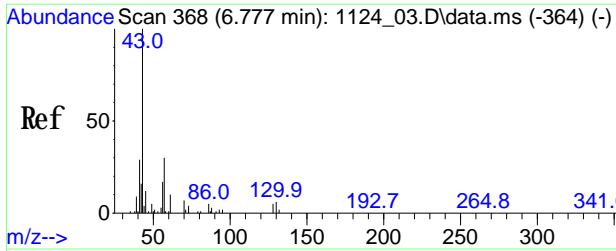
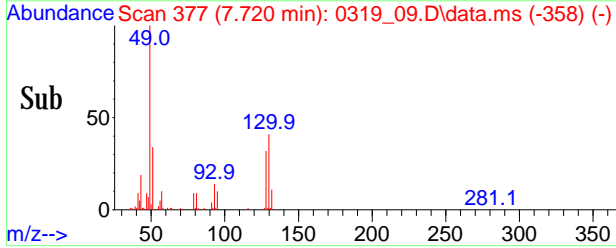
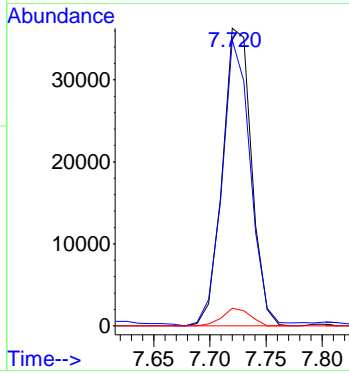
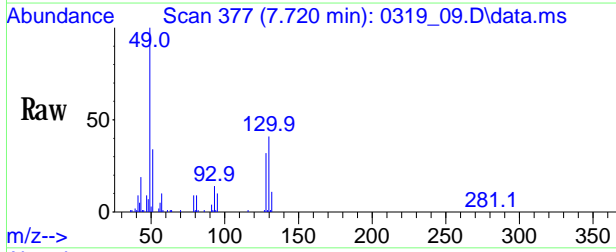
Tgt Ion	Ratio	Lower	Upper
49	100		
84	35.4	35.4	53.0
86	22.7	21.6	32.4





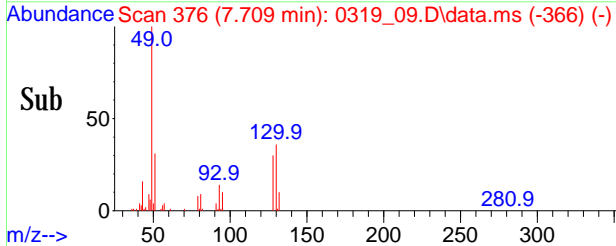
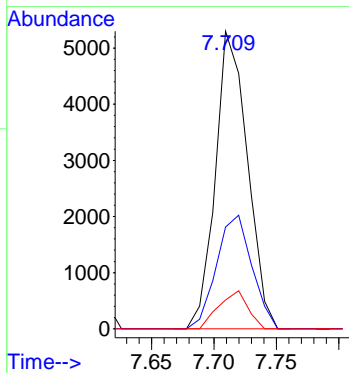
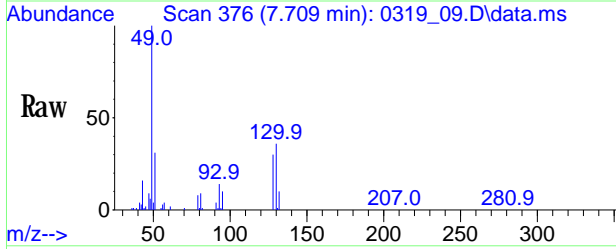
#28
 Hexane
 Conc: 8S 0.943 ppbv
 RT: 7.720 min Scan# 377
 Delta R.T. 0.002 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

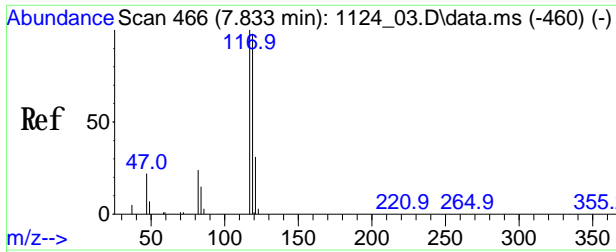
Tgt Ion	Ratio	Lower	Upper
57	100		
41	93.7	83.9	125.9
86	5.6	7.2	10.8#



#30
 Ethyl acetate
 Conc: 8S 0.704 ppbv
 RT: 7.709 min Scan# 376
 Delta R.T. 0.002 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

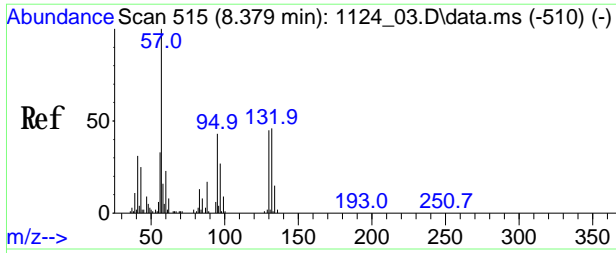
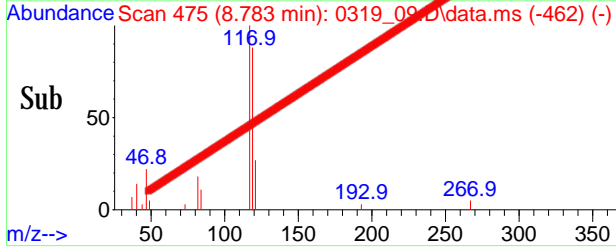
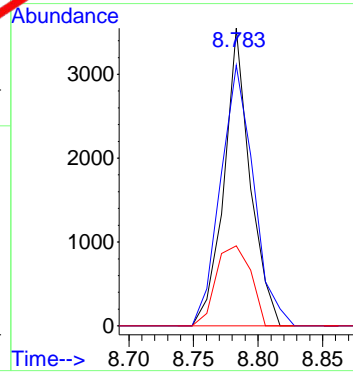
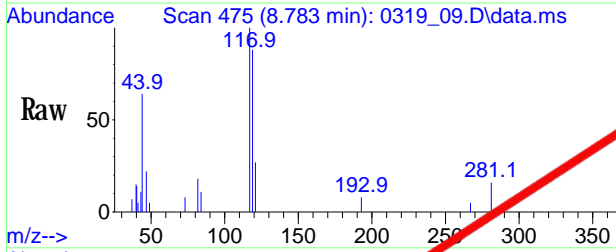
Tgt Ion	Ratio	Lower	Upper
61	100		
70	42.2	40.2	60.4
88	11.6	4.4	6.6#





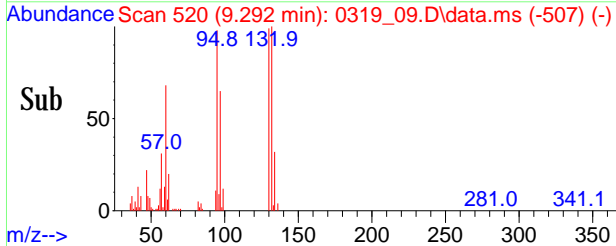
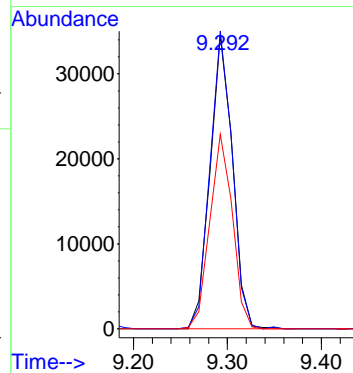
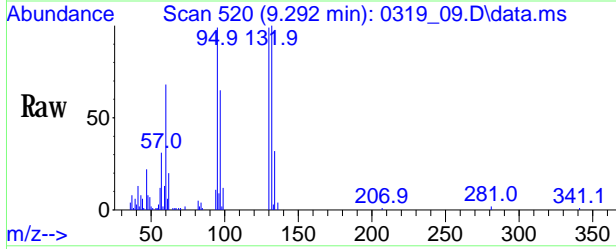
#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 8.783 min Scan# 475
 Delta R.T. 0.002 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

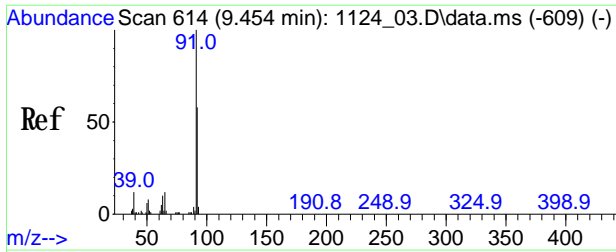
Tgt Ion	Ratio	Lower	Upper
117	100		
119	110.7	77.5	117.5
121	35.7	10.7	50.7



#40
 Trichloroethene
 Conc: 8S 1.397 ppbv
 RT: 9.292 min Scan# 520
 Delta R.T. 0.002 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

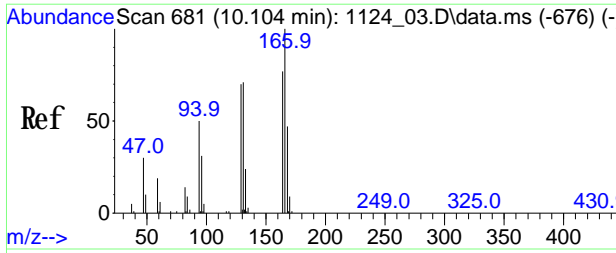
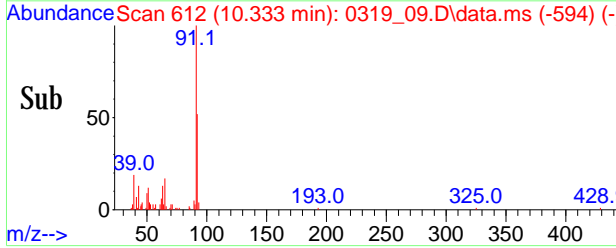
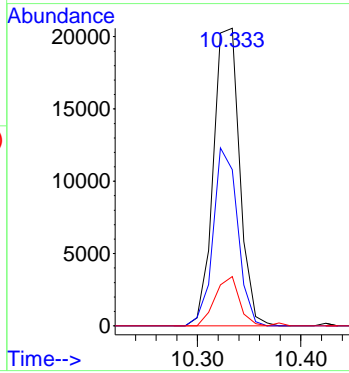
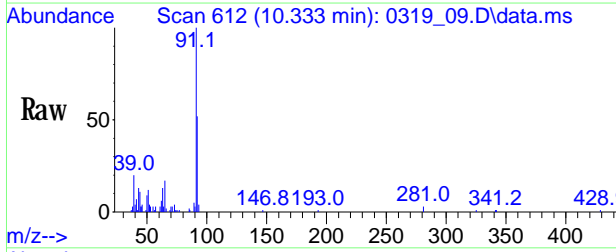
Tgt Ion	Ratio	Lower	Upper
130	100		
132	100.2	78.7	118.1
97	66.4	57.2	85.8





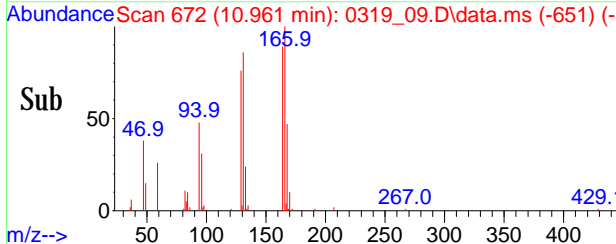
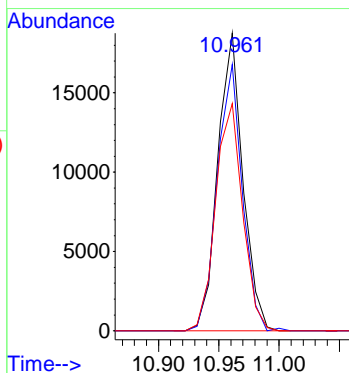
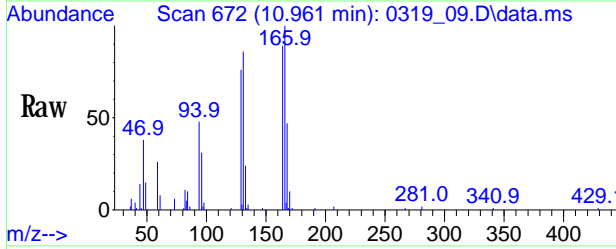
#49
 Toluene
 Conc: 8S 0.361 ppbv
 RT: 10.333 min Scan# 612
 Delta R.T. 0.002 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

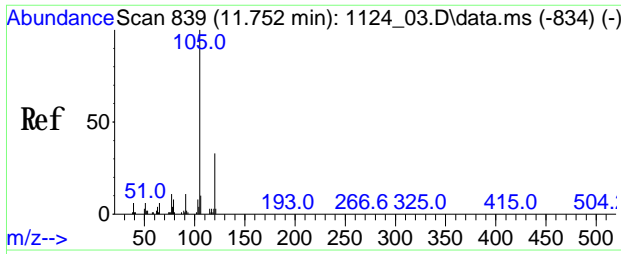
Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.7	43.9	65.9
65	15.4	10.2	15.2#



#53
 Tetrachloroethene
 Conc: 8S 0.484 ppbv
 RT: 10.961 min Scan# 672
 Delta R.T. 0.002 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

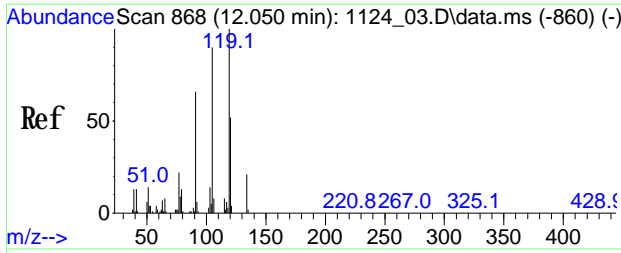
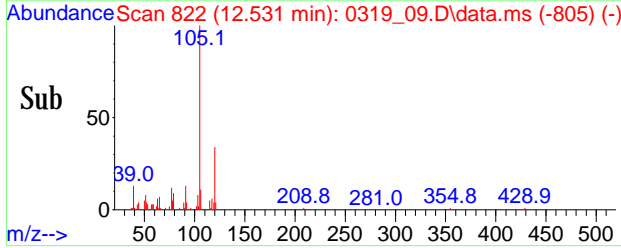
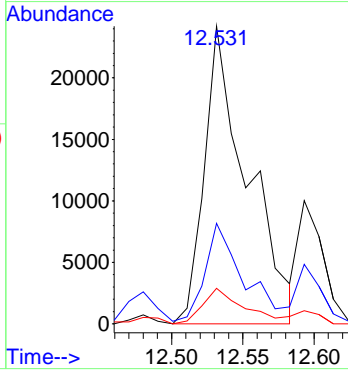
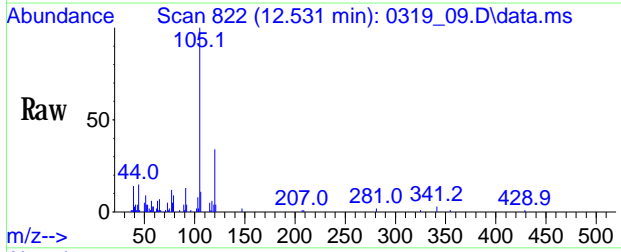
Tgt Ion	Ratio	Lower	Upper
166	100		
164	89.7	60.0	90.0
129	81.9	59.0	88.4





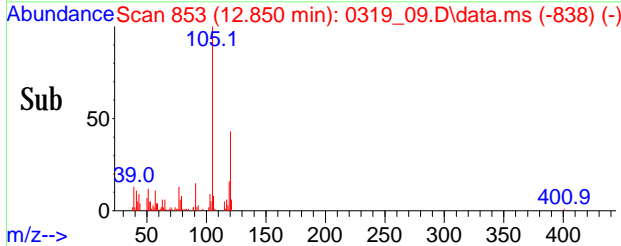
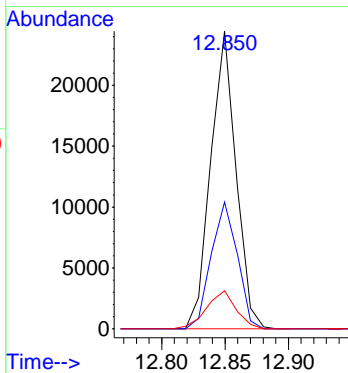
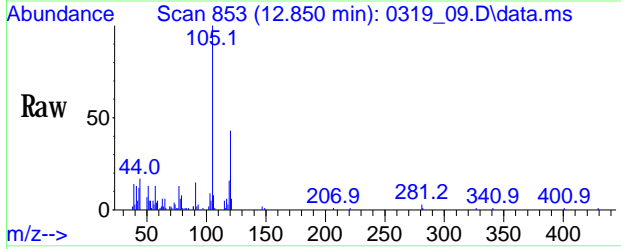
#67
4-Ethyltoluene
 Conc: 8S 0.333 ppbv
 RT: 12.531 min Scan# 822
 Delta R.T. -0.028 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

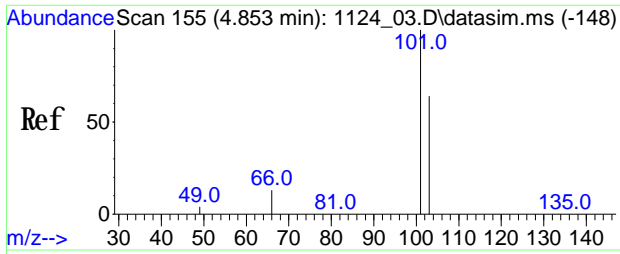
Tgt Ion	Ion Ratio	Resp: Lower	Upper
105	100		
120	30.2	26.1	39.1
77	11.2	9.9	14.9



#69
1,2,4-Trimethylbenzene
 Conc: 8S 0.283 ppbv
 RT: 12.850 min Scan# 853
 Delta R.T. 0.003 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

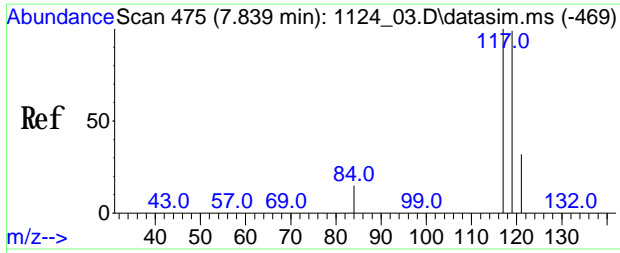
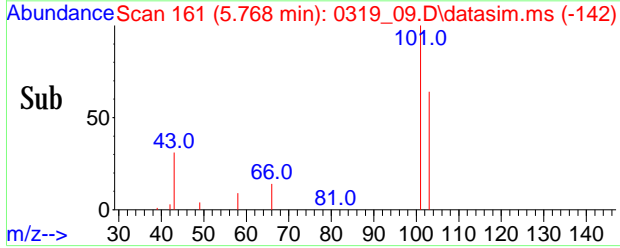
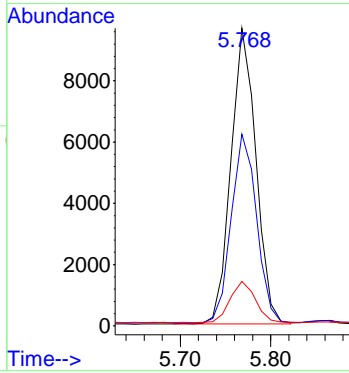
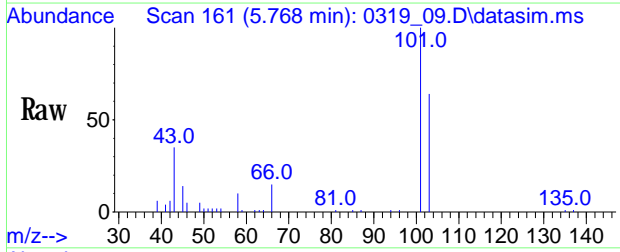
Tgt Ion	Ion Ratio	Resp: Lower	Upper
105	100		
120	44.0	44.5	66.7#
77	15.0	21.2	31.8#





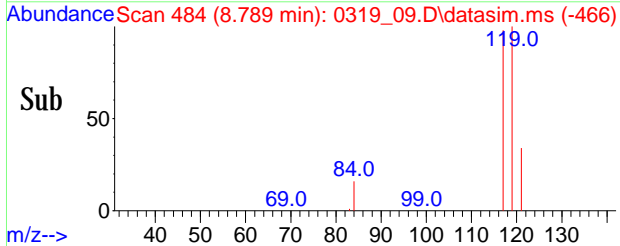
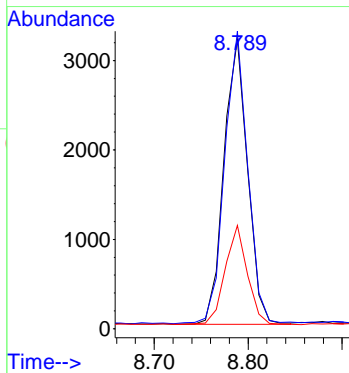
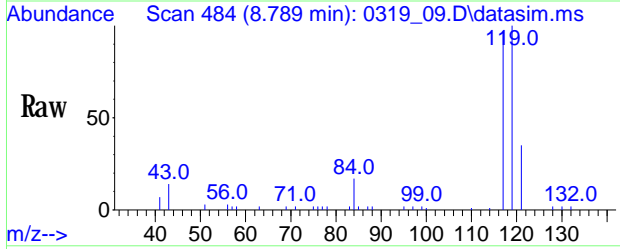
#85
 Trichlorofluoromethane(sim)
 Conc: 8S 0.213 ppbv
 RT: 5.768 min Scan# 161
 Delta R.T. -0.000 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

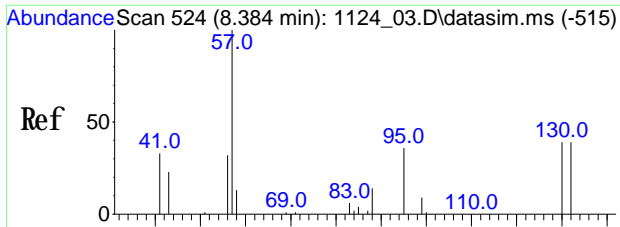
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	18664		
103	64.9	51.2	76.8	
66	14.2	13.5	13.5#	



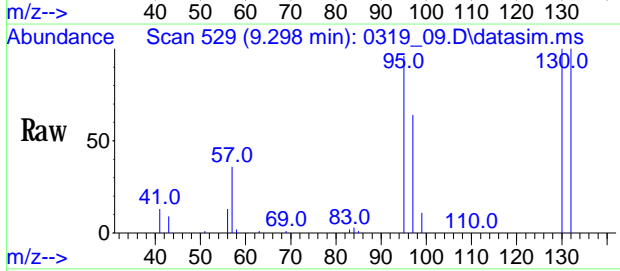
#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.073 ppbv
 RT: 8.789 min Scan# 484
 Delta R.T. 0.002 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5603		
119	99.5	76.2	114.4	
121	32.9	23.9	35.9	

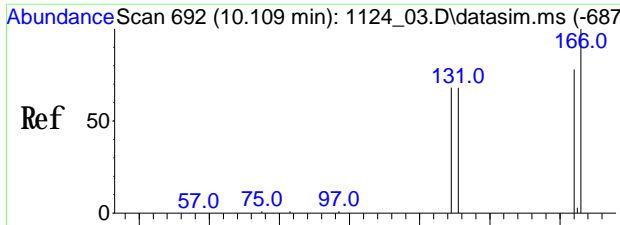
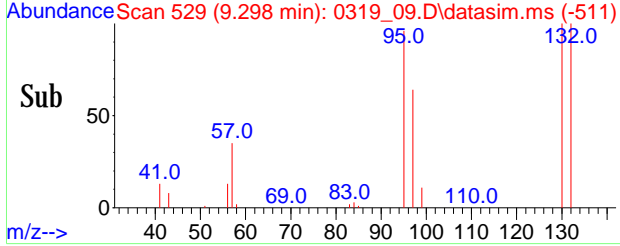
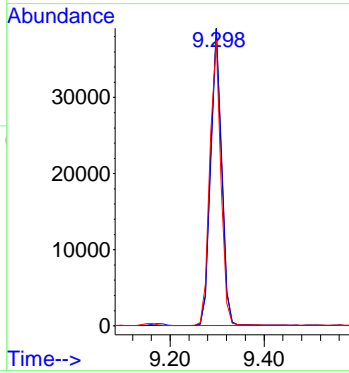




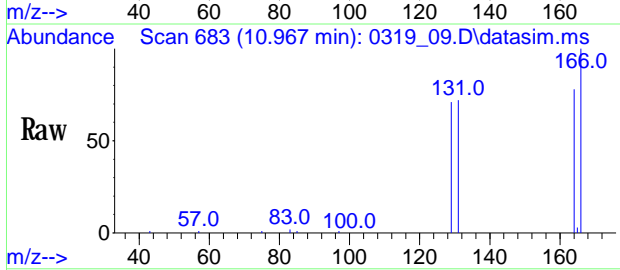
#99
 Trichloroethene(sim)
 Conc: 8S 1.378 ppbv
 RT: 9.298 min Scan# 529
 Delta R.T. 0.002 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am



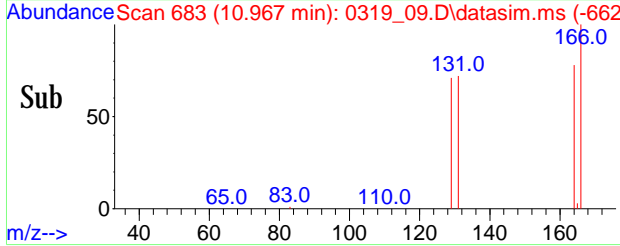
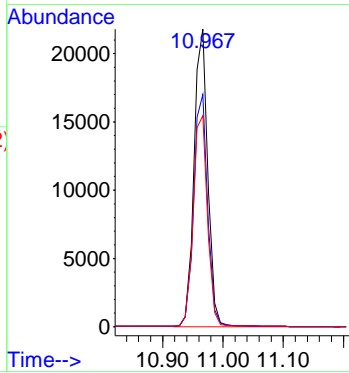
Tgt Ion: 130 Resp: 63569
 Ion Ratio Lower Upper
 130 100
 132 99.1 79.0 118.6
 95 96.3 76.7 115.1



#105
 Tetrachloroethene(sim)
 Conc: 8S 0.455 ppbv
 RT: 10.967 min Scan# 683
 Delta R.T. 0.002 min
 Lab File: 0319_09.D
 Acq: 19 Mar 2022 11:42 am



Tgt Ion: 166 Resp: 34880
 Ion Ratio Lower Upper
 166 100
 164 78.4 59.0 99.0
 129 72.2 54.3 94.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CK90281 BLANK

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90281 BL
Canister:	BL	Lab File ID:	0319_04.D
Instrument:	CHEM20	Column:	RTX-1 60M
		Date Received:	03/18/22
Purge Volume	200	(cc)	
		Date Analyzed:	03/19/22
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.580	U	0.580	0.580	r
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
74-87-3	Chloromethane	0.480	U	0.480	0.480	r
106-99-0	1,3-Butadiene	0.450	U	0.450	0.450	r
75-00-3	Chloroethane	0.380	U	0.380	0.380	r
64-17-5	Ethanol	0.530	U	0.530	0.530	r
67-64-1	Acetone	0.420	U	0.420	0.420	r
67-63-0	Isopropylalcohol	0.410	U	0.410	0.410	r
107-13-1	Acrylonitrile	0.460	U	0.460	0.460	r
75-09-2	Methylene Chloride	0.860	U	0.860	0.860	r
75-15-0	Carbon Disulfide	0.320	U	0.320	0.320	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.280	U	0.280	0.280	r
78-93-3	Methyl Ethyl Ketone	0.340	U	0.340	0.340	r
110-54-3	Hexane	0.280	U	0.280	0.280	r
141-78-6	Ethyl acetate	0.280	U	0.280	0.280	r
109-99-9	Tetrahydrofuran	0.340	U	0.340	0.340	r
110-82-7	Cyclohexane	0.290	U	0.290	0.290	r
142-82-5	Heptane	0.240	U	0.240	0.240	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.240	U	0.240	0.240	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.270	U	0.270	0.270	r
591-78-6	2-Hexanone(MBK)	0.240	U	0.240	0.240	r
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	0.150	r
108-90-7	Chlorobenzene	0.220	U	0.220	0.220	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.230	U	0.230	0.230	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.200	U	0.200	0.200	r
622-96-8	4-Ethyltoluene	0.200	U	0.200	0.200	r
108-67-8	1,3,5-Trimethylbenzene	0.200	U	0.200	0.200	r
95-63-6	1,2,4-Trimethylbenzene	0.200	U	0.200	0.200	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.140	U	0.140	0.140	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.260	U	0.260	0.260	r
75-69-4	Trichlorofluoromethane(sim)	0.180	U	0.180	0.180	r
107-06-2	1,2-Dichloroethane(sim)	0.250	U	0.250	0.250	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CK90281 BLANK

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90281 BL
Canister:	BL	Lab File ID:	0319_04.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	Date Received: 03/18/22
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
71-55-6	1,1,1-Trichloroethane(sim)	0.180	U	0.180	0.180	r
71-43-2	Benzene(sim)	0.310	U	0.310	0.310	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
76-13-1	Trichlorotrifluoroethane(sim)	0.130	U	0.130	0.130	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.250	U	0.250	0.250	r
75-34-3	1,1-Dichloroethane(sim)	0.250	U	0.250	0.250	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
67-66-3	Chloroform(sim)	0.200	U	0.200	0.200	r
78-87-5	1,2-dichloropropane(sim)	0.220	U	0.220	0.220	r
75-27-4	Bromodichloromethane(sim)	0.150	U	0.150	0.150	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.280	U	0.280	0.280	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.180	U	0.180	0.180	r
124-48-1	Dibromochloromethane(sim)	0.120	U	0.120	0.120	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.150	U	0.150	0.150	r
100-44-7	Benzyl chloride(sim)	0.190	U	0.190	0.190	r
541-73-1	1,3-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
106-46-7	1,4-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
135-98-8	sec-Butylbenzene(sim)	0.180	U	0.180	0.180	r
99-87-6	4-Isopropyltoluene(sim)	0.180	U	0.180	0.180	r
95-50-1	1,2-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
104-51-8	n-Butylbenzene(sim)	0.180	U	0.180	0.180	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.130	U	0.130	0.130	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_04.D
 Acq On : 19 Mar 2022 8:45 am
 Operator :
 Client ID : CK90281 BLANK
 Lab ID : CK90281 BLANK
 ALS Vial : 66 Sample Multiplier: 1

Quant Time: Mar 20 09:26:24 2022
 Quant Title :
 QLast Update : Fri Mar 18 08:42:58 2022
 Response via : Initial Calibration

Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	7.709	130	293005	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	1102669	10.000	ng	0.00
54) Chlorobenzene-d5	11.301	82	511988	10.000	ng	0.00
81) Bromchloromethane(sim)	7.715	130	319389	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.862	114	1102669	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.301	82	511988	10.000	ng	0.00

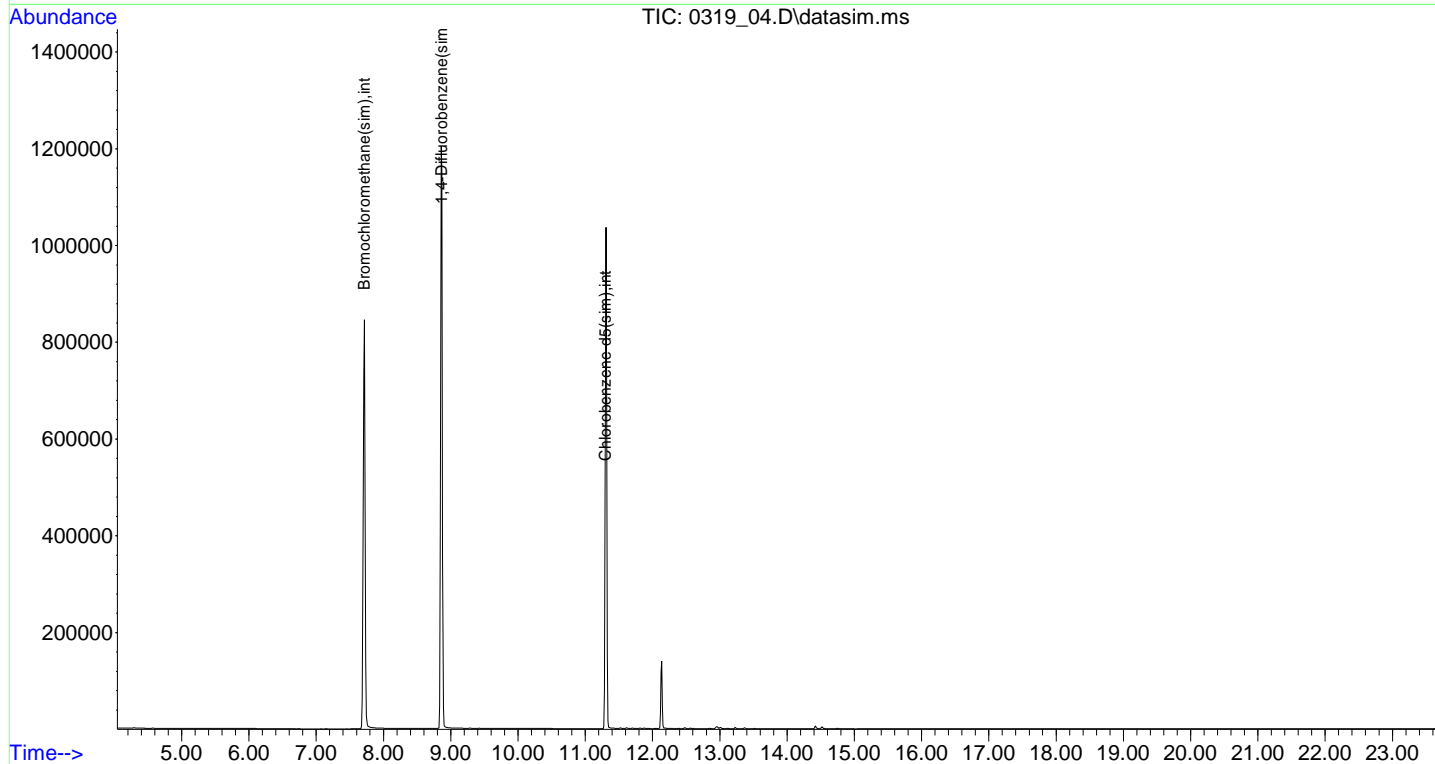
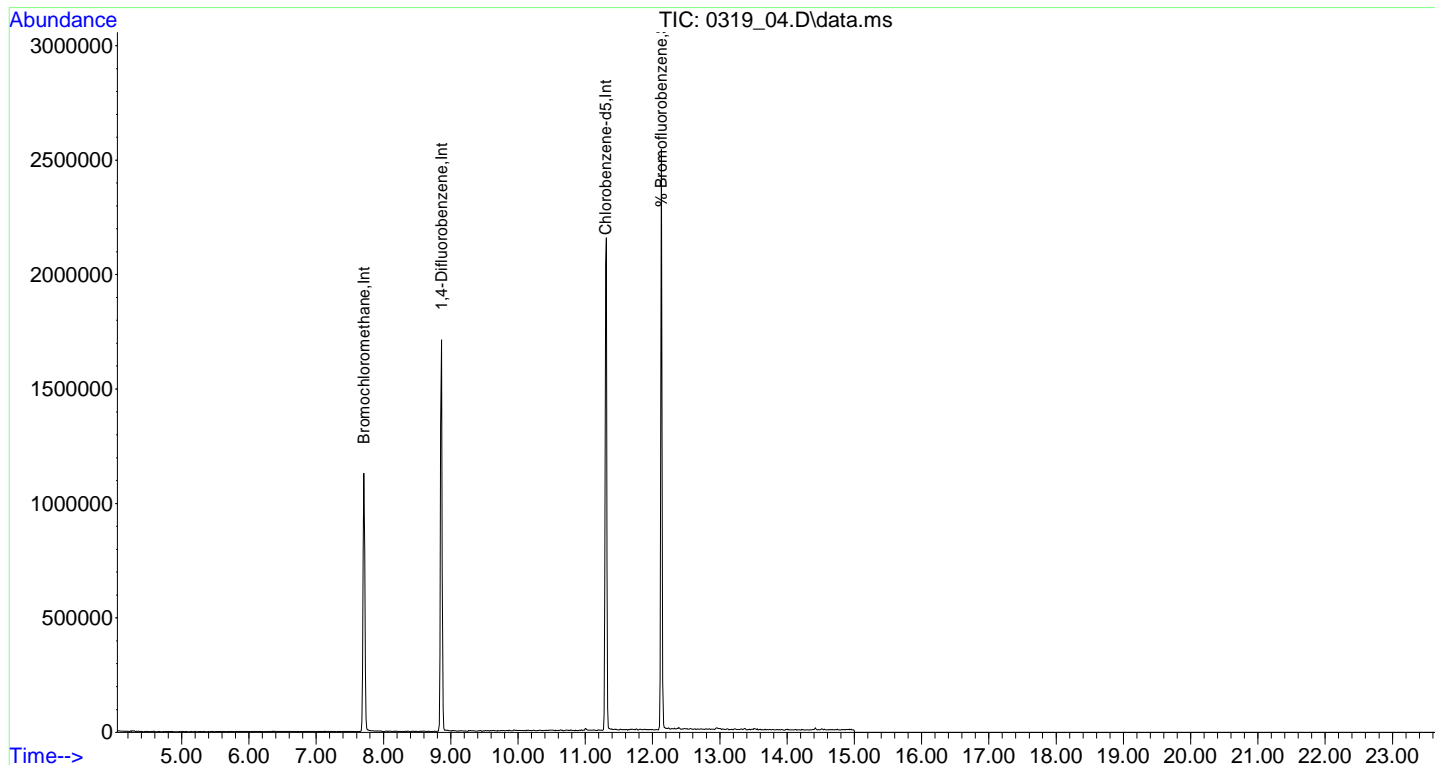
System Monitoring Compounds						
63) % Bromfluorobenzene	12.132	95	642291	9.767	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.70%

Target Compounds Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
Data File : 0319_04.D
Acq On : 19 Mar 2022 8:45 am
Operator :
Client ID : CK90281 BLANK
Lab ID : CK90281 BLANK
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Mar 20 09:26:24 2022
Quant Title :
Last Update : Fri Mar 18 08:42:58 2022
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

90281 dup

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCK90290</u>	Lab Sample ID:	<u>CK90281 DUP</u>
Canister:	<u>7647</u>	Lab File ID:	<u>0319_10.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
		Date Received:	<u>03/18/22</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>03/19/22</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.451		0.202	0.202	r
74-87-3	Chloromethane	0.539		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	23.0	S	0.531	0.531	r
67-64-1	Acetone	48.7	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.220		0.178	0.178	r
67-63-0	Isopropylalcohol	3.45	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	4.64	S	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.950	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.724		0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
79-01-6	Trichloroethene	1.40		0.037	0.037	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.338		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.532		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.320		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.272		0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

90281 dup

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CK90281 DUP
Canister:	7647	Lab File ID:	0319_10.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200 (cc)	Date Received:	03/18/22
Matrix:	AIR	Date Analyzed:	03/19/22
		Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.074		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_10.D
 Acq On : 19 Mar 2022 12:17 pm
 Operator :
 Client ID : 90281 dup
 Lab ID : CK90281 DUP
 ALS Vial : 2 Sample Multiplier: 1

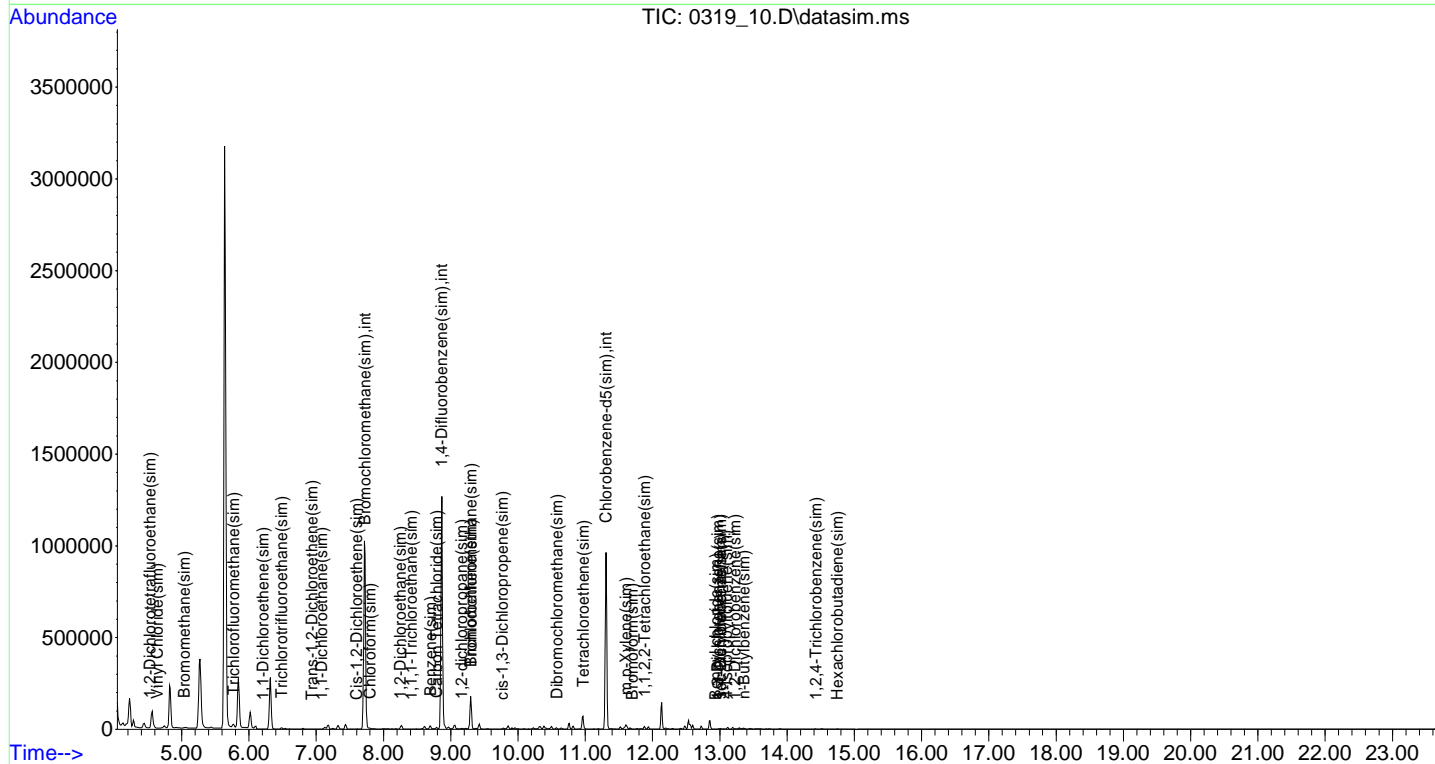
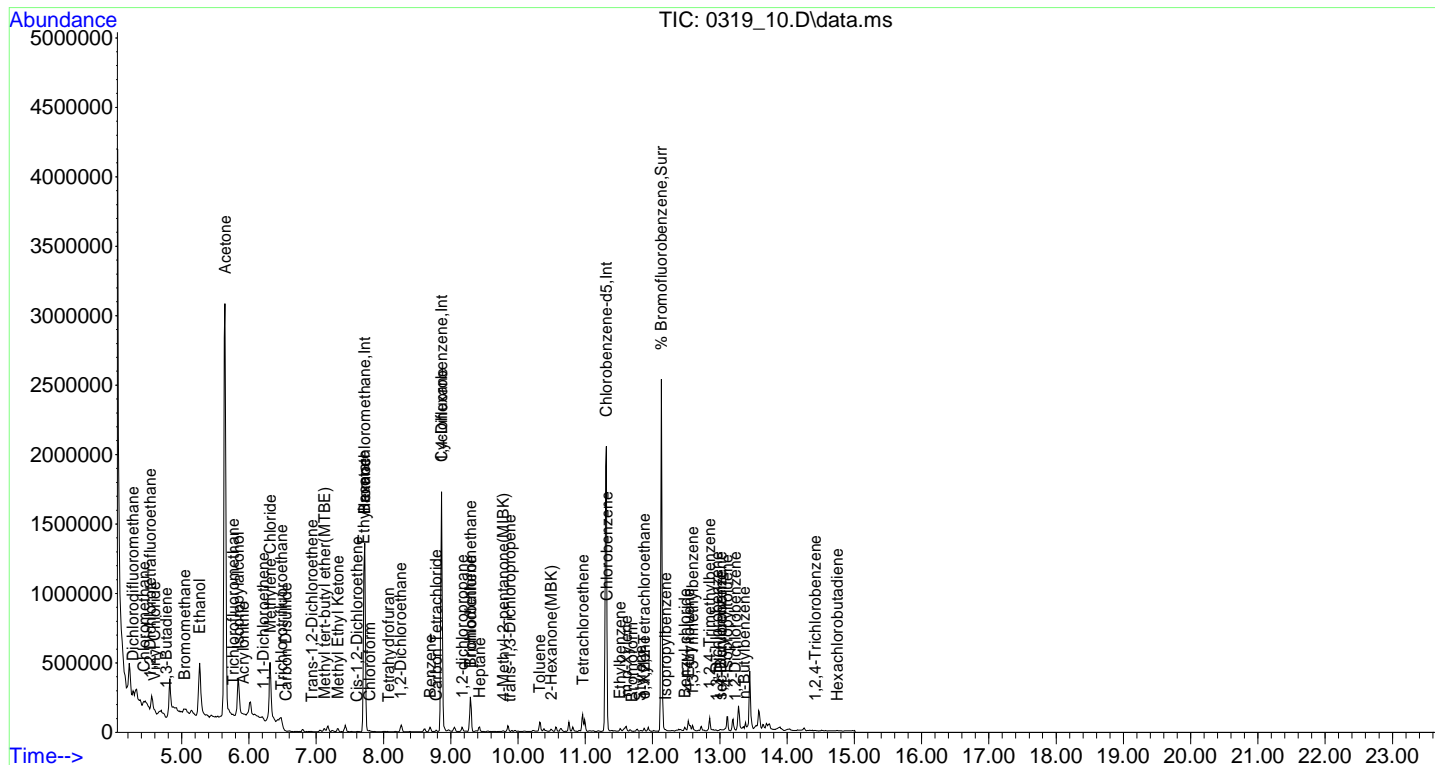
Quant Time: Mar 20 08:57:11 2022
 Quant Title :
 QLast Update : Fri Mar 18 08:42:58 2022
 Response via : Initial Calibration

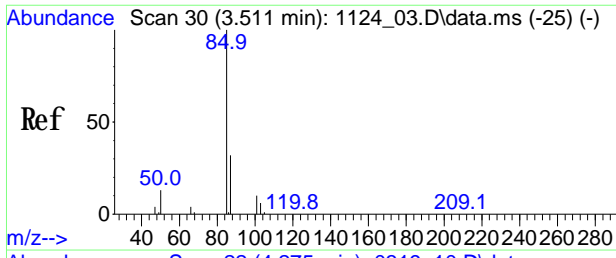
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromochloromethane	7.720	130	289073	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.862	114	1010890	10.000	ng	0.00
54) Chlorobenzene-d5	11.312	82	485098	10.000	ng	0.00
81) Bromochloromethane(sim)	7.725	130	317751	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	8.862	114	1010890	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.312	82	485201	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.131	95	617416	9.909	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	99.10%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.275	85	34844	0.451	ppbv	99
4) Chloromethane	4.437	50	27102	0.539	ppbv	94
11) Ethanol	5.267	45	530804	22.995	ppbv#	95
12) Acetone	5.644	43	3924878	48.708	ppbv	91
13) Trichlorofluoromethane	5.762	101	18144	0.220	ppbv	91
14) Isopropylalcohol	5.838	45	342301	3.453	ppbv	98
17) Methylene Chloride	6.314	49	302322	4.644	ppbv	89
28) Hexane	7.720	57	65945	0.950	ppbv#	89
30) Ethyl acetate	7.709	61	9783	0.724	ppbv#	87
35) Carbon Tetrachloride	8.783	117	5100	0.067	ppbv	92
40) Trichloroethene	9.292	130	56961	1.398	ppbv	92
49) Toluene	10.322	91	33555	0.338	ppbv#	98
53) Tetrachloroethene	10.961	166	29528	0.532	ppbv	95
67) 4-Ethyltoluene	12.531	105	48597	0.320	ppbv	98
69) 1,2,4-Trimethylbenzene	12.850	105	32511	0.272	ppbv#	84
85) Trichlorofluoromethane...	5.768	101	18613	0.211	ppbv#	99
89) Carbon Tetrachloride(sim)	8.789	117	5743	0.074	ppbv	98
99) Trichloroethene(sim)	9.298	130	63471	1.388	ppbv	100
105) Tetrachloroethene(sim)	10.967	166	34320	0.451	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2022\CHEM20\03MAR\17A\
 Data File : 0319_10.D
 Acq On : 19 Mar 2022 12:17 pm
 Operator :
 Client ID : 90281 dup
 Lab ID : CK90281 DUP
 ALS Vial : 2 Sample Multiplier: 1

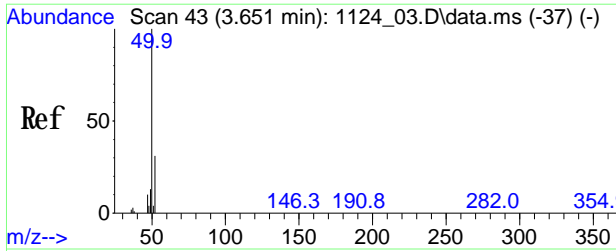
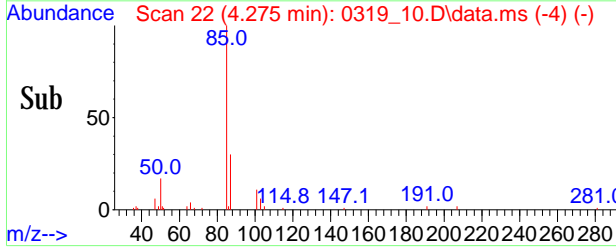
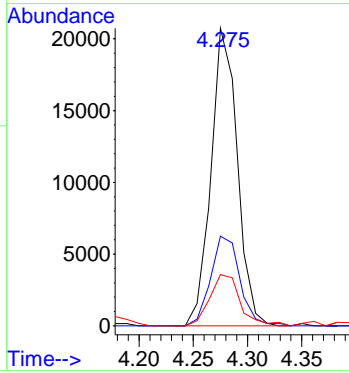
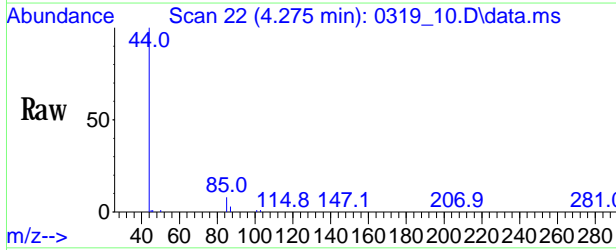
Quant Time: Mar 20 08:57:11 2022
 Quant Title :
 Last Update : Fri Mar 18 08:42:58 2022
 Response via : Initial Calibration





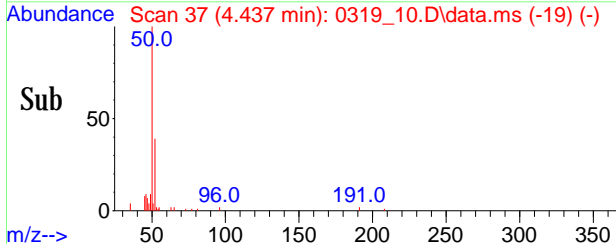
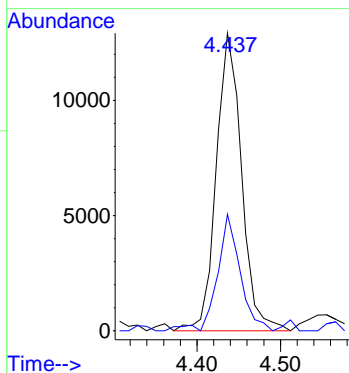
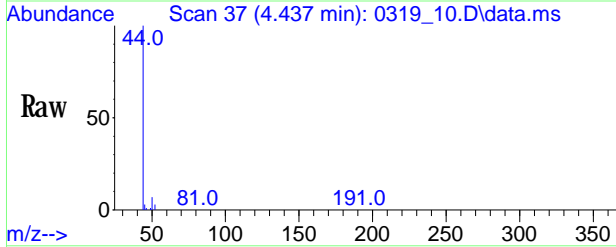
#3
 Dichlorodifluoromethane
 Conc: 8S 0.451 ppbv
 RT: 4.275 min Scan# 22
 Delta R.T. -0.011 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

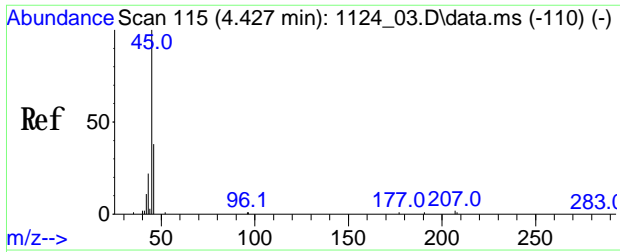
Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.6	26.0	39.0
50	20.0	16.2	24.4



#4
 Chloromethane
 Conc: 8S 0.539 ppbv
 RT: 4.437 min Scan# 37
 Delta R.T. -0.011 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

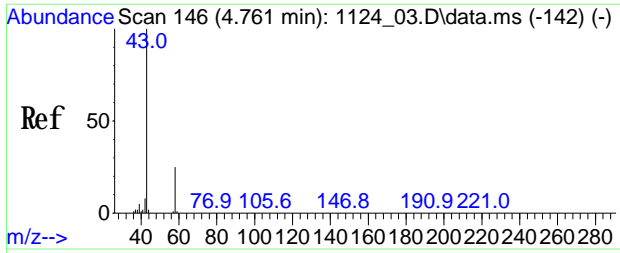
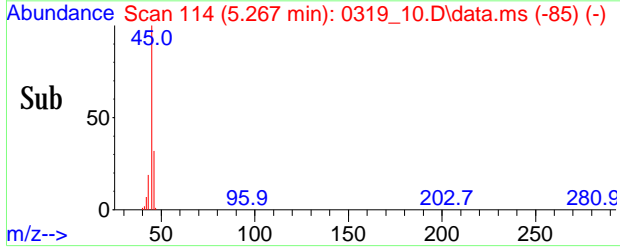
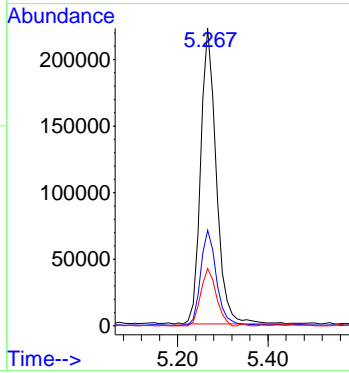
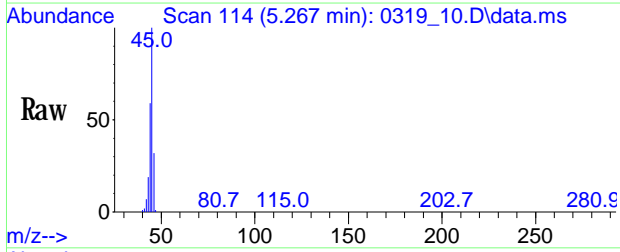
Tgt Ion	Ratio	Lower	Upper
50	100		
52	35.1	11.9	51.9





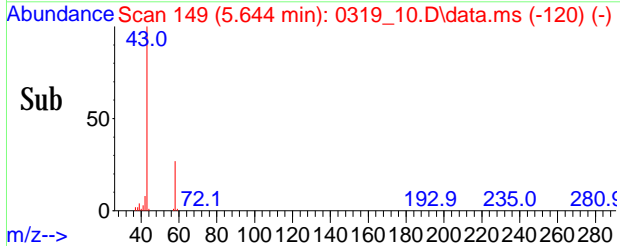
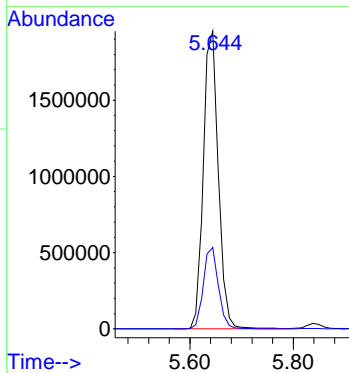
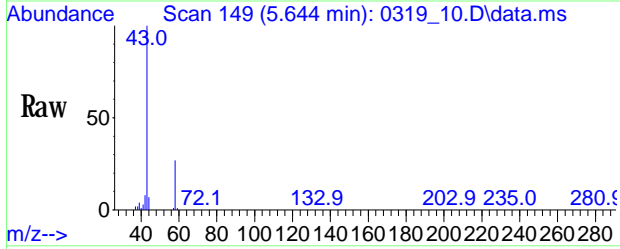
#11
 Ethanol
 Conc: 8S 22.995 ppbv
 RT: 5.267 min Scan# 114
 Delta R.T. 0.011 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

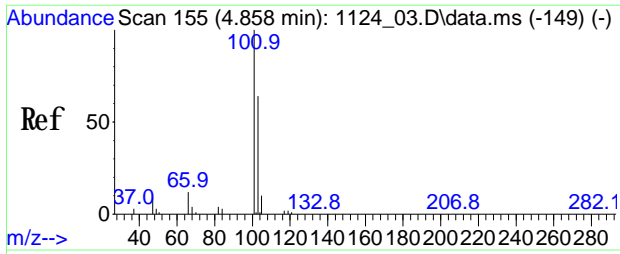
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.8	27.2	40.8
43	19.3	19.4	29.0#



#12
 Acetone
 Conc: 8S 48.708 ppbv
 RT: 5.644 min Scan# 149
 Delta R.T. 0.011 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

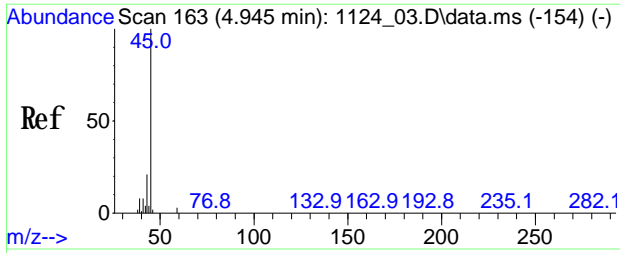
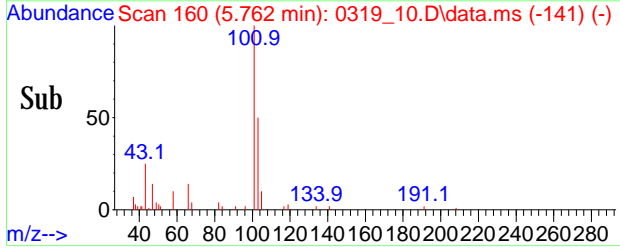
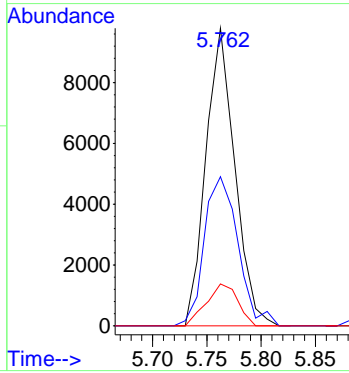
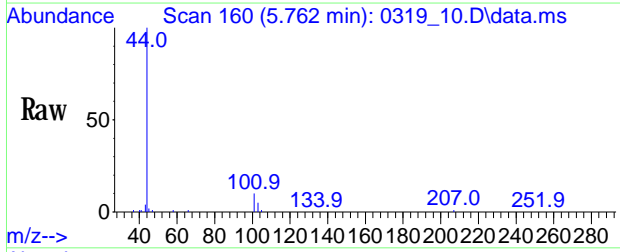
Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.4	18.6	27.8





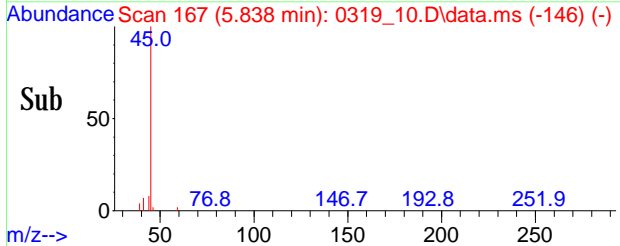
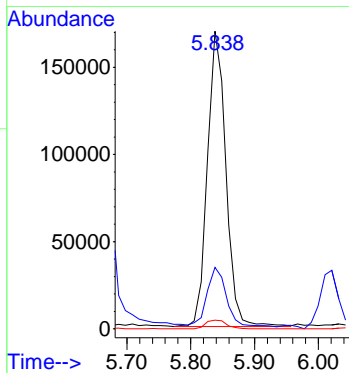
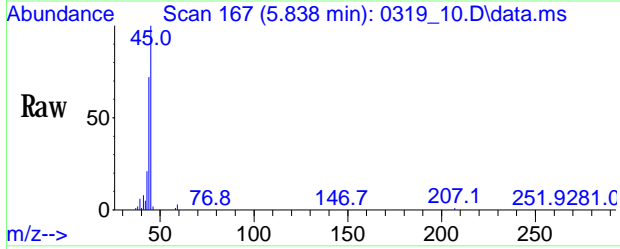
#13
 Trichlorofluoromethane
 Conc: 8S 0.220 ppbv
 RT: 5.762 min Scan# 160
 Delta R.T. -0.000 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

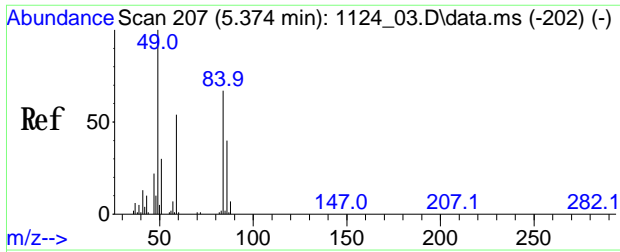
Tgt Ion	Ratio	Resp: Lower	Upper
101	100		
103	58.3	53.4	80.0
66	15.2	11.2	16.8



#14
 Isopropylalcohol
 Conc: 8S 3.453 ppbv
 RT: 5.838 min Scan# 167
 Delta R.T. 0.021 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

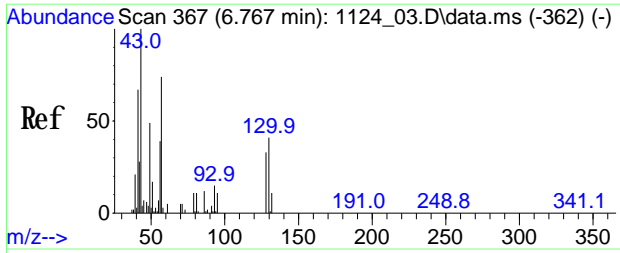
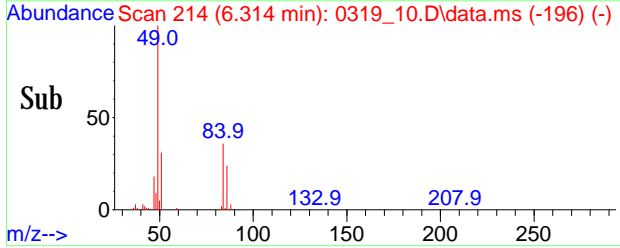
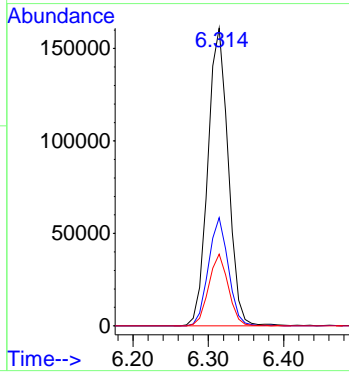
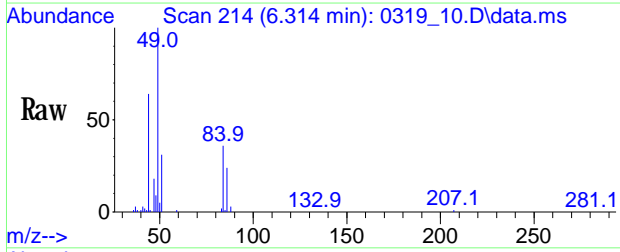
Tgt Ion	Ratio	Resp: Lower	Upper
45	100		
43	21.8	16.6	24.8
59	3.3	2.4	3.6





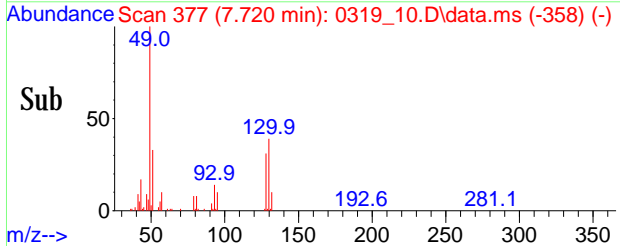
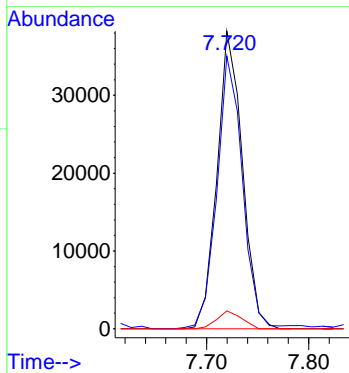
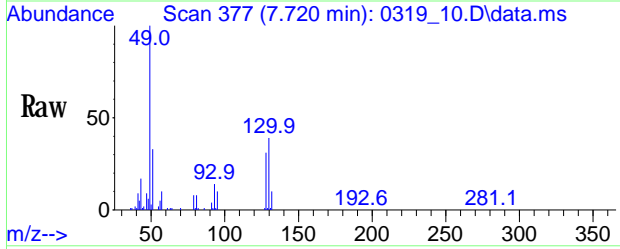
#17
 Methylene Chloride
 Conc: 8S 4.644 ppbv
 RT: 6.314 min Scan# 214
 Delta R.T. 0.009 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

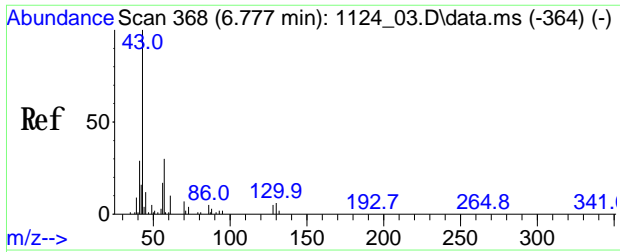
Tgt Ion	Ratio	Resp	Lower	Upper
49	100	302322		
84	35.5	35.4	53.0	
86	23.3	21.6	32.4	



#28
 Hexane
 Conc: 8S 0.950 ppbv
 RT: 7.720 min Scan# 377
 Delta R.T. 0.002 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

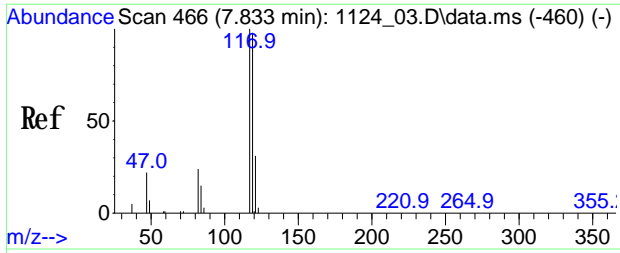
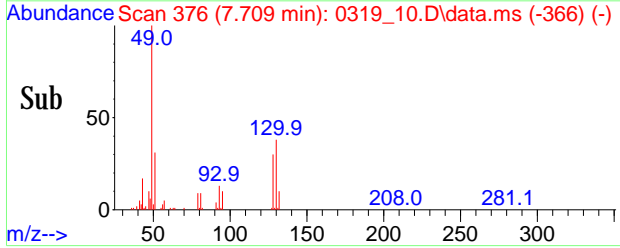
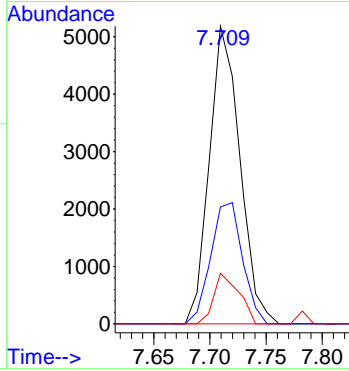
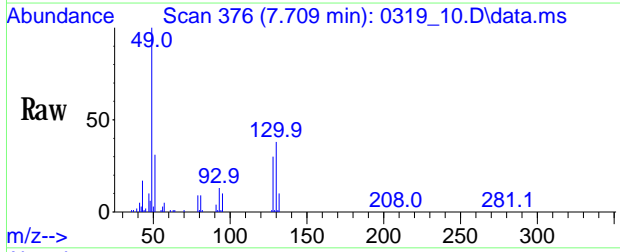
Tgt Ion	Ratio	Resp	Lower	Upper
57	100	65945		
41	93.1	83.9	125.9	
86	5.9	7.2	10.8#	





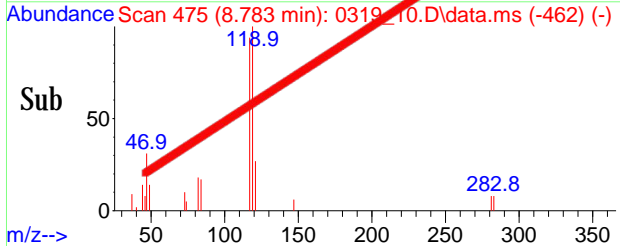
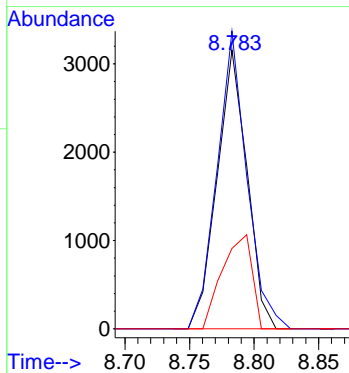
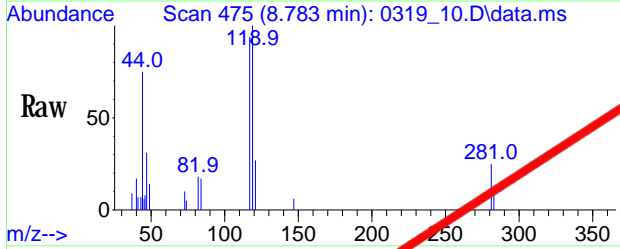
#30
 Ethyl acetate
 Conc: 8S 0.724 ppbv
 RT: 7.709 min Scan# 376
 Delta R.T. 0.002 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

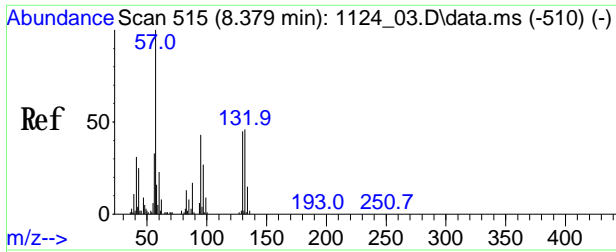
Tgt Ion	Ratio	Lower	Upper
61	100		
70	42.4	40.2	60.4
88	14.0	4.4	6.6#



#35
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 8.783 min Scan# 475
 Delta R.T. 0.002 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

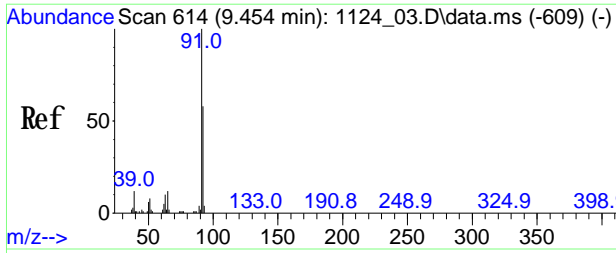
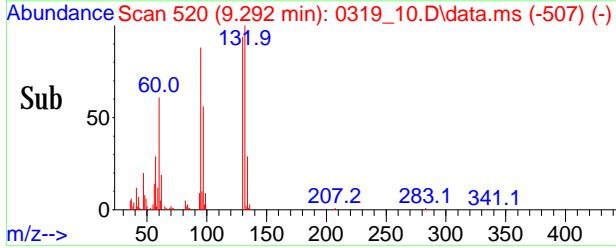
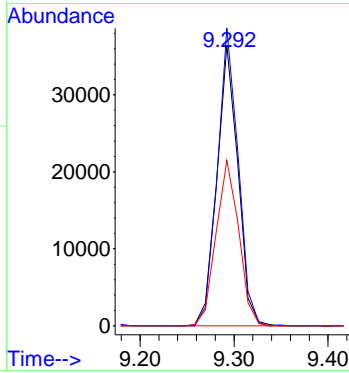
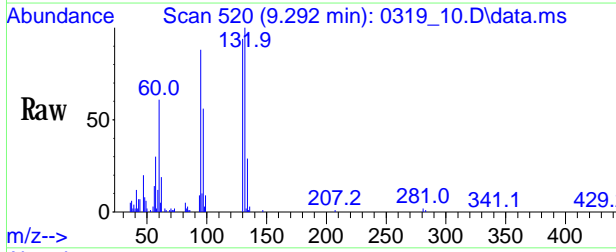
Tgt Ion	Ratio	Lower	Upper
117	100		
119	106.4	77.5	117.5
131	33.5	10.7	50.7





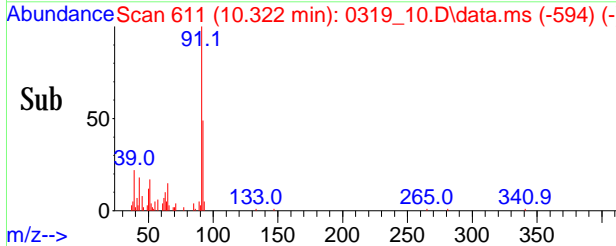
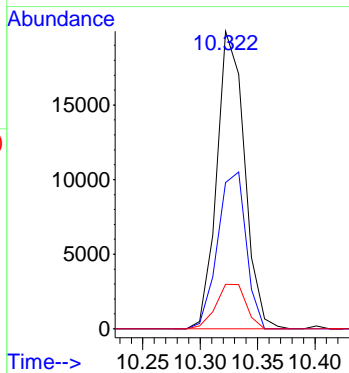
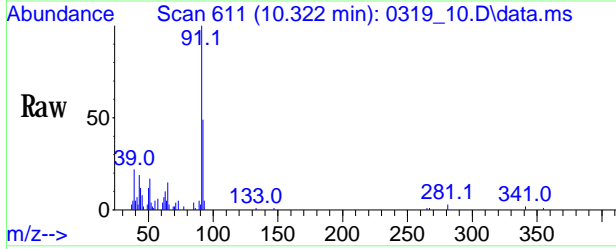
#40
 Trichloroethene
 Conc: 8S 1.398 ppbv
 RT: 9.292 min Scan# 520
 Delta R.T. 0.002 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

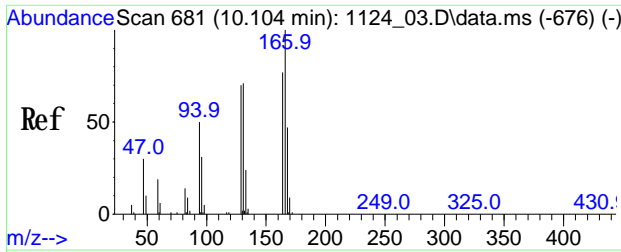
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	56961		
132	104.3	78.7	118.1	
97	63.4	57.2	85.8	



#49
 Toluene
 Conc: 8S 0.338 ppbv
 RT: 10.322 min Scan# 611
 Delta R.T. -0.009 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

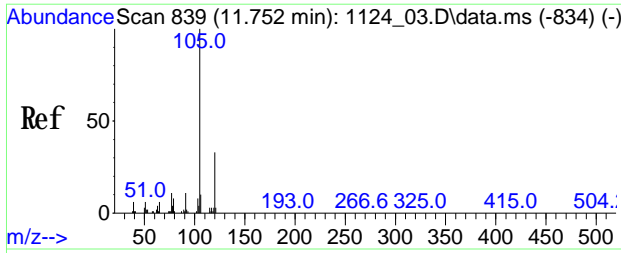
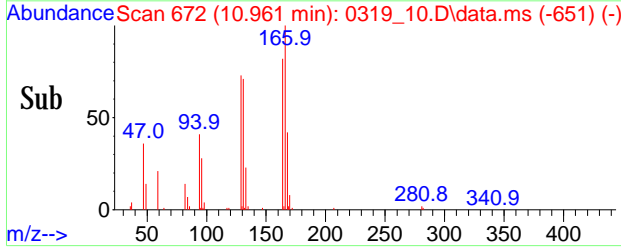
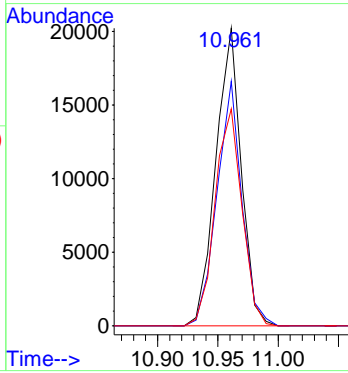
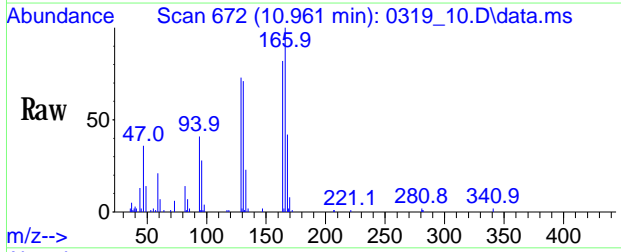
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	33555		
92	54.3	43.9	65.9	
65	16.3	10.2	15.2#	





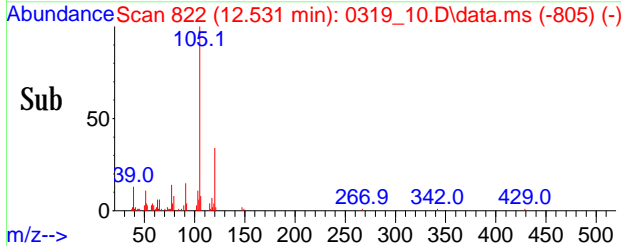
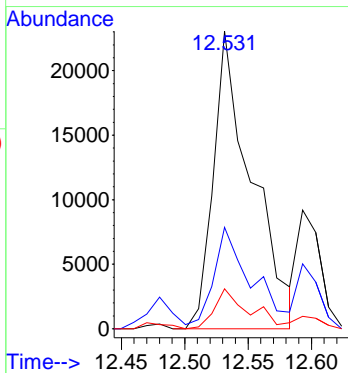
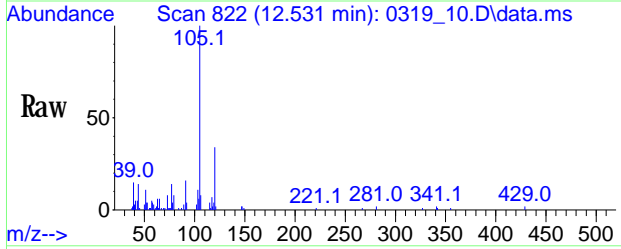
#53
Tetrachloroethene
 Conc: 8S 0.532 ppbv
 RT: 10.961 min Scan# 672
 Delta R.T. 0.002 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

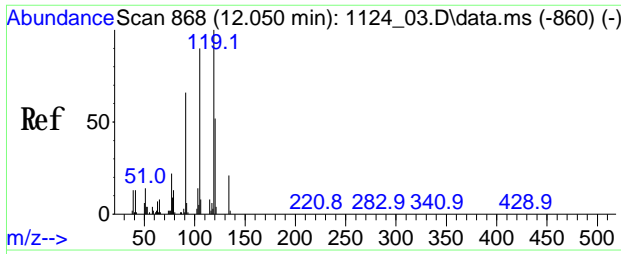
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	29528		
164	80.6	60.0	90.0	
129	77.2	59.0	88.4	



#67
4-Ethyltoluene
 Conc: 8S 0.320 ppbv
 RT: 12.531 min Scan# 822
 Delta R.T. -0.028 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

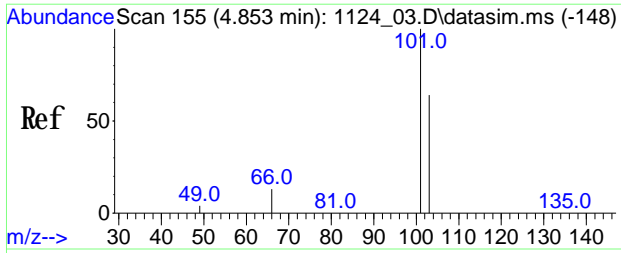
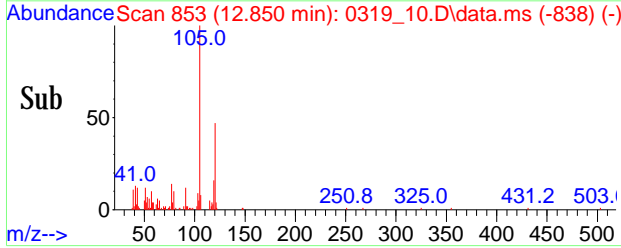
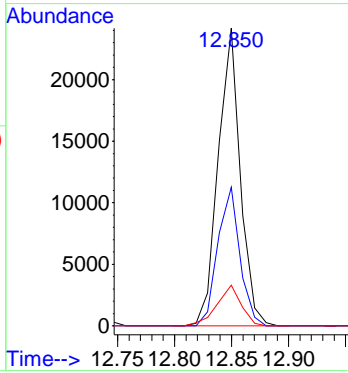
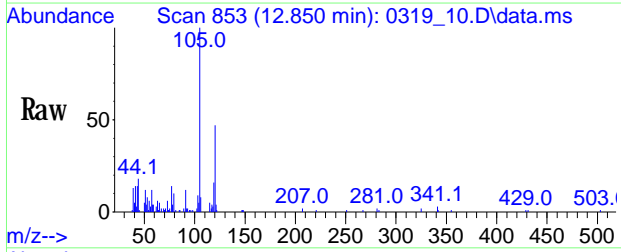
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	48597		
120	34.3	26.1	39.1	
77	12.5	9.9	14.9	





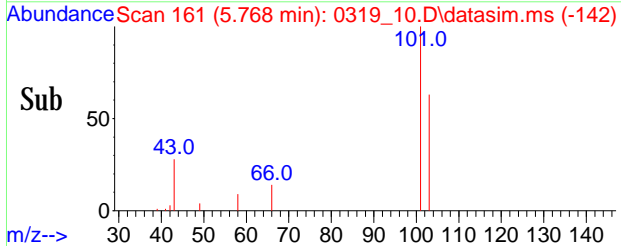
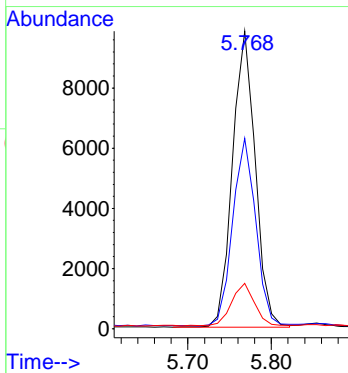
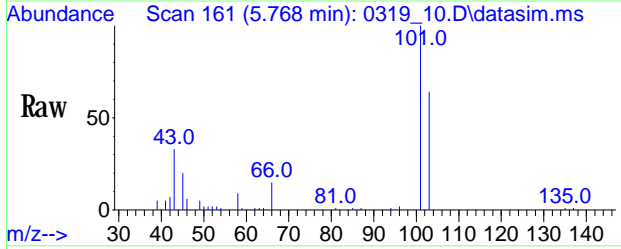
#69
 1,2,4-Trimethylbenzene
 Conc: 8S 0.272 ppbv
 RT: 12.850 min Scan# 853
 Delta R.T. 0.003 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

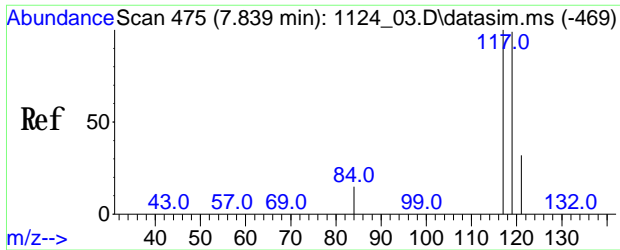
Tgt Ion	Ion Ratio	Resp Lower	Upper
105	100		
120	46.6	44.5	66.7
77	15.0	21.2	31.8#



#85
 Trichlorofluoromethane (sim)
 Conc: 8S 0.211 ppbv
 RT: 5.768 min Scan# 161
 Delta R.T. -0.000 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

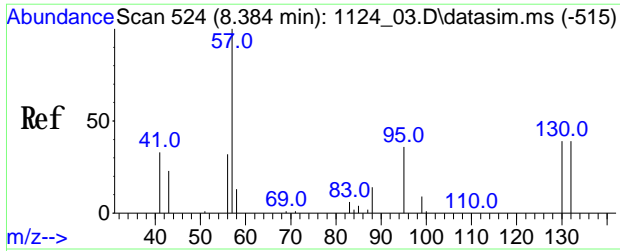
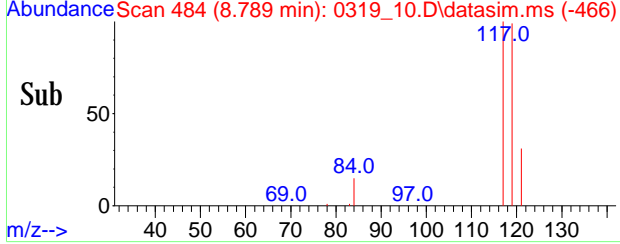
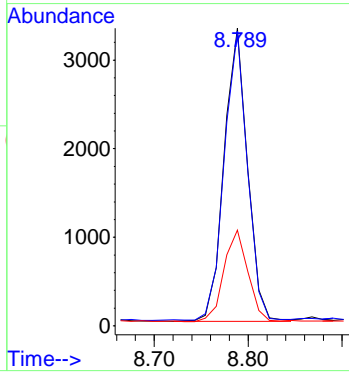
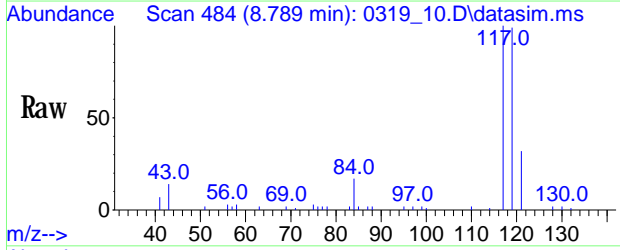
Tgt Ion	Ion Ratio	Resp Lower	Upper
101	100		
103	64.0	51.2	76.8
66	14.7	13.5	13.5#





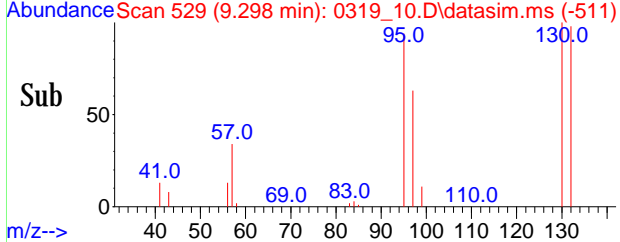
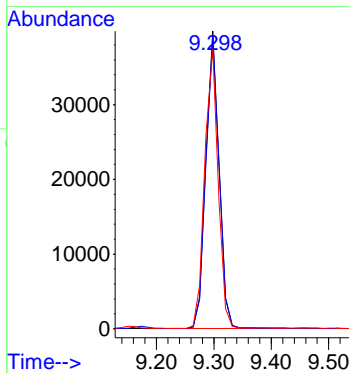
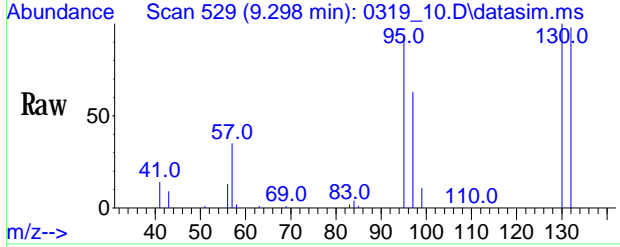
#89
 Carbon Tetrachloride(sim)
 Conc: 8S 0.074 ppbv
 RT: 8.789 min Scan# 484
 Delta R.T. 0.002 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

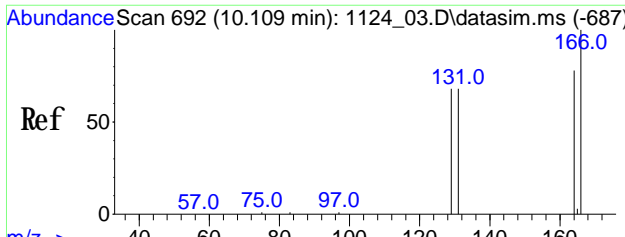
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5743		
119	97.0	76.2	114.4	
121	32.1	23.9	35.9	



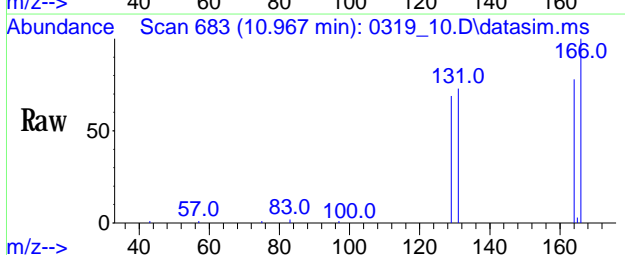
#99
 Trichloroethene(sim)
 Conc: 8S 1.388 ppbv
 RT: 9.298 min Scan# 529
 Delta R.T. 0.002 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	63471		
132	98.9	79.0	118.6	
95	95.7	76.7	115.1	

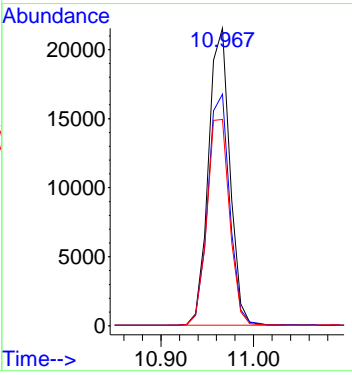
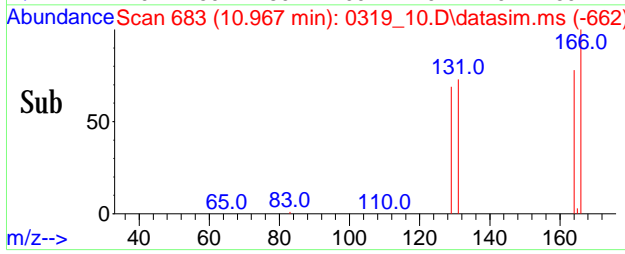




#105
 Tetrachloroethene(sim)
 Conc: 8S 0.451 ppbv
 RT: 10.967 min Scan# 683
 Delta R.T. 0.002 min
 Lab File: 0319_10.D
 Acq: 19 Mar 2022 12:17 pm



Tgt Ion	Ratio	Lower	Upper
166	100		
164	79.5	59.0	99.0
129	73.6	54.3	94.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 2437

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CANISTER BLK 2437
Canister:	CANBL	Lab File ID:	0308_12.D
Instrument:	CHEM24	Column:	_____
Purge Volume	200	(cc)	Date Received: _____
Matrix:	AIR	Dilution Factor:	1
		Date Analyzed:	03/08/22

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 2437

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CANISTER BLK 2437
Canister:	CANBL	Lab File ID:	0308_12.D
Instrument:	CHEM24	Column:	_____
Purge Volume	200	(cc)	Date Received: _____
Matrix:	AIR	Dilution Factor:	1
		Date Analyzed:	03/08/22

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Batch Canister Certification

April 08, 2022

Batch Id: 2437

QC Canister Id: 1123

SDG ID: GCK90290

Sample Canister Ids: 28567

Certification Date: 03/08/22 9:00 PM

Data File: H:\AIR2022\CHEM24\03MAR\08\0308_12.D\0308_12-24AIR_0304.rr

Project ID: CINDERELLA

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1,2-Tetrachloroethane	<0.146	1,1,1-Trichloroethane	<0.183
1,1,2,2-Tetrachloroethane	<0.146	1,1,2-Trichloroethane	<0.183
1,1-Dichloroethane	<0.247	1,1-Dichloroethene	<0.051
1,2,4-Trichlorobenzene	<0.135	1,2-Dibromoethane(EDB)	<0.130
1,2-Dichlorobenzene	<0.166	1,2-Dichloroethane	<0.247
1,2-dichloropropane	<0.217	1,2-Dichlorotetrafluoroethane	<0.143
1,3-Dichlorobenzene	<0.166	1,4-Dichlorobenzene	<0.166
1,4-Dioxane	<0.278	4-Isopropyltoluene	<0.182
Benzene	<0.313	Benzyl chloride	<0.193
Bromodichloromethane	<0.149	Bromoform	<0.097
Bromomethane	<0.258	Carbon Tetrachloride	<0.032
Chloroform	<0.205	Cis-1,2-Dichloroethene	<0.051
cis-1,3-Dichloropropene	<0.220	Dibromochloromethane	<0.117
Ethanol	<0.531	Ethyl acetate	<0.278
Ethylbenzene	<0.230	Hexachlorobutadiene	<0.094
Isopropylalcohol	<0.407	m,p-Xylene	<0.230
n-Butylbenzene	<0.182	o-Xylene	<0.230
Propylene	<0.581	sec-Butylbenzene	<0.182
Tetrachloroethene	<0.037	Trans-1,2-Dichloroethene	<0.252
Trichloroethene	<0.037	Trichlorofluoromethane	<0.178
Trichlorotrifluoroethane	<0.131	Vinyl Chloride	<0.078

Data Path : H:\AIR2022\CHEM24\03MAR\08\
 Data File : 0308_12.D
 Acq On : 8 Mar 2022 9:00 pm
 Operator : Keith
 Client ID : CANISTER BLK 2437
 Lab ID : CANISTER BLK 2437
 ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 08 23:10:52 2022
 Quant Method : H:\AIR2022\CHEM24\Methods\24AIR_0304.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Sat Mar 05 12:13:53 2022
 Response via : Initial Calibration

Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	5.316	130	635644	10.000	ng	0.01
36) 1,4-Difluorobenzene	7.281	114	2018134	10.000	ng	0.00
53) Chlorobenzene-d5	10.863	82	1032974	10.000	ng	0.00
80) Bromchloromethane(sim)	5.319	130	708413	10.000	ng	# 0.01
95) 1,4-Difluorobenzene(sim)	7.281	114	2018134	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.863	82	1032974	10.000	ng	0.00

System Monitoring Compounds
 62) % Bromfluorobenzene 12.341 95 1413546 9.683 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 96.80%

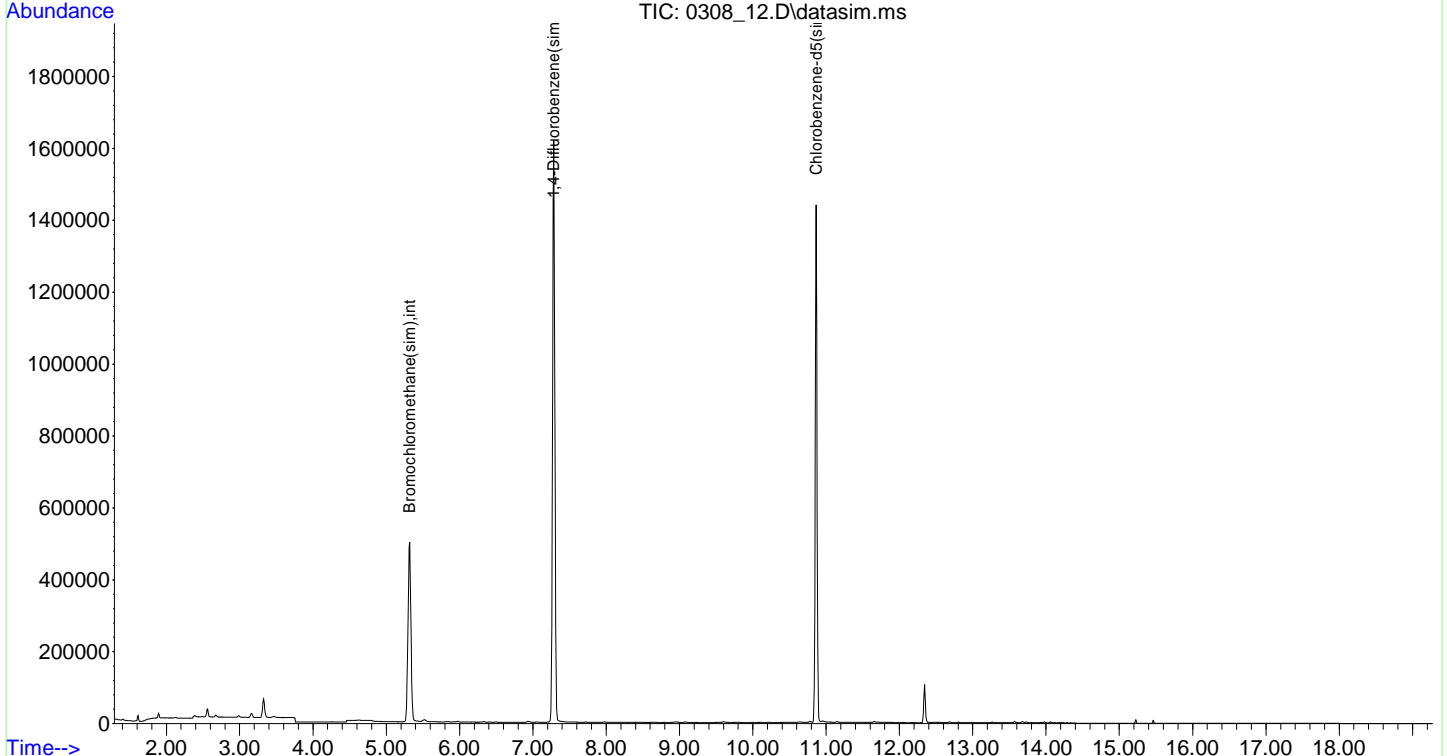
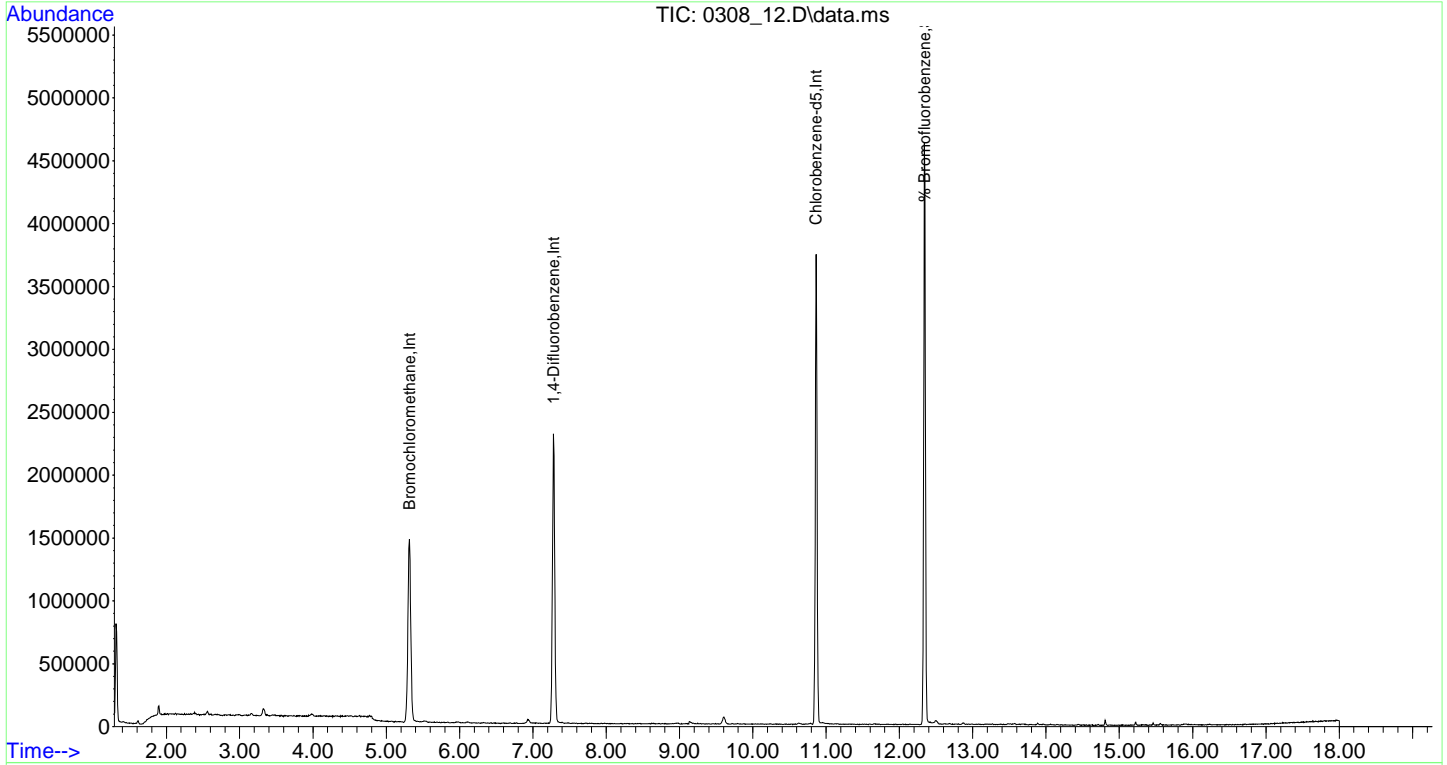
Target Compounds Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM24\03MAR\08\
Data File : 0308_12.D
Acq On : 8 Mar 2022 9:00 pm
Operator : Keith
Client ID : CANISTER BLK 2437
Lab ID : CANISTER BLK 2437
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 08 23:10:52 2022
Quant Method : H:\AIR2022\CHEM24\Methods\24AIR_0304.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Sat Mar 05 12:13:53 2022
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 2439

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CANISTER BLK 2439
Canister:	CANBL	Lab File ID:	0308_14.D
Instrument:	CHEM24	Column:	_____
Purge Volume	200	(cc)	Date Received: _____
Matrix:	AIR	Dilution Factor:	1
		Date Analyzed:	03/09/22

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 2439

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CANISTER BLK 2439
Canister:	CANBL	Lab File ID:	0308_14.D
Instrument:	CHEM24	Column:	_____
Purge Volume	200	(cc)	Date Received: _____
Matrix:	AIR	Dilution Factor:	1
		Date Analyzed:	03/09/22

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Batch Canister Certification

April 08, 2022

Batch Id: 2439

QC Canister Id: 1124

SDG ID: GCK90290

Sample Canister Ids: 221, 28578, 28587, 28589, 28598, 350

Certification Date: 03/09/22 1:55 AM

Data File: H:\AIR2022\CHEM24\03MAR\08\0308_14.D\0308_14-24AIR_0304.rr

Project ID: CINDERELLA

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1,2-Tetrachloroethane	<0.146	1,1,1-Trichloroethane	<0.183
1,1,2,2-Tetrachloroethane	<0.146	1,1,2-Trichloroethane	<0.183
1,1-Dichloroethane	<0.247	1,1-Dichloroethene	<0.051
1,2,4-Trichlorobenzene	<0.135	1,2-Dibromoethane(EDB)	<0.130
1,2-Dichlorobenzene	<0.166	1,2-Dichloroethane	<0.247
1,2-dichloropropane	<0.217	1,2-Dichlorotetrafluoroethane	<0.143
1,3-Dichlorobenzene	<0.166	1,4-Dichlorobenzene	<0.166
1,4-Dioxane	<0.278	4-Isopropyltoluene	<0.182
Benzene	<0.313	Benzyl chloride	<0.193
Bromodichloromethane	<0.149	Bromoform	<0.097
Bromomethane	<0.258	Carbon Tetrachloride	<0.032
Chloroform	<0.205	Cis-1,2-Dichloroethene	<0.051
cis-1,3-Dichloropropene	<0.220	Dibromochloromethane	<0.117
Ethanol	<0.531	Ethyl acetate	<0.278
Ethylbenzene	<0.230	Hexachlorobutadiene	<0.094
Isopropylalcohol	<0.407	m,p-Xylene	<0.230
n-Butylbenzene	<0.182	o-Xylene	<0.230
Propylene	<0.581	sec-Butylbenzene	<0.182
Tetrachloroethene	<0.037	Trans-1,2-Dichloroethene	<0.252
Trichloroethene	<0.037	Trichlorofluoromethane	<0.178
Trichlorotrifluoroethane	<0.131	Vinyl Chloride	<0.078

Data Path : H:\AIR2022\CHEM24\03MAR\08\
 Data File : 0308_14.D
 Acq On : 9 Mar 2022 1:55 am
 Operator : Keith
 Client ID : CANISTER BLK 2439
 Lab ID : CANISTER BLK 2439
 ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 09 09:26:52 2022
 Quant Method : H:\AIR2022\CHEM24\Methods\24AIR_0304.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Sat Mar 05 12:13:53 2022
 Response via : Initial Calibration

Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	5.316	130	618738	10.000	ng	0.01
36) 1,4-Difluorobenzene	7.281	114	1930616	10.000	ng	0.00
53) Chlorobenzene-d5	10.863	82	992957	10.000	ng	0.00
80) Bromchloromethane(sim)	5.319	130	690544	10.000	ng	# 0.01
95) 1,4-Difluorobenzene(sim)	7.281	114	1930616	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.863	82	992957	10.000	ng	0.00

System Monitoring Compounds						
62) % Bromfluorobenzene	12.341	95	1376086	9.807	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.10%

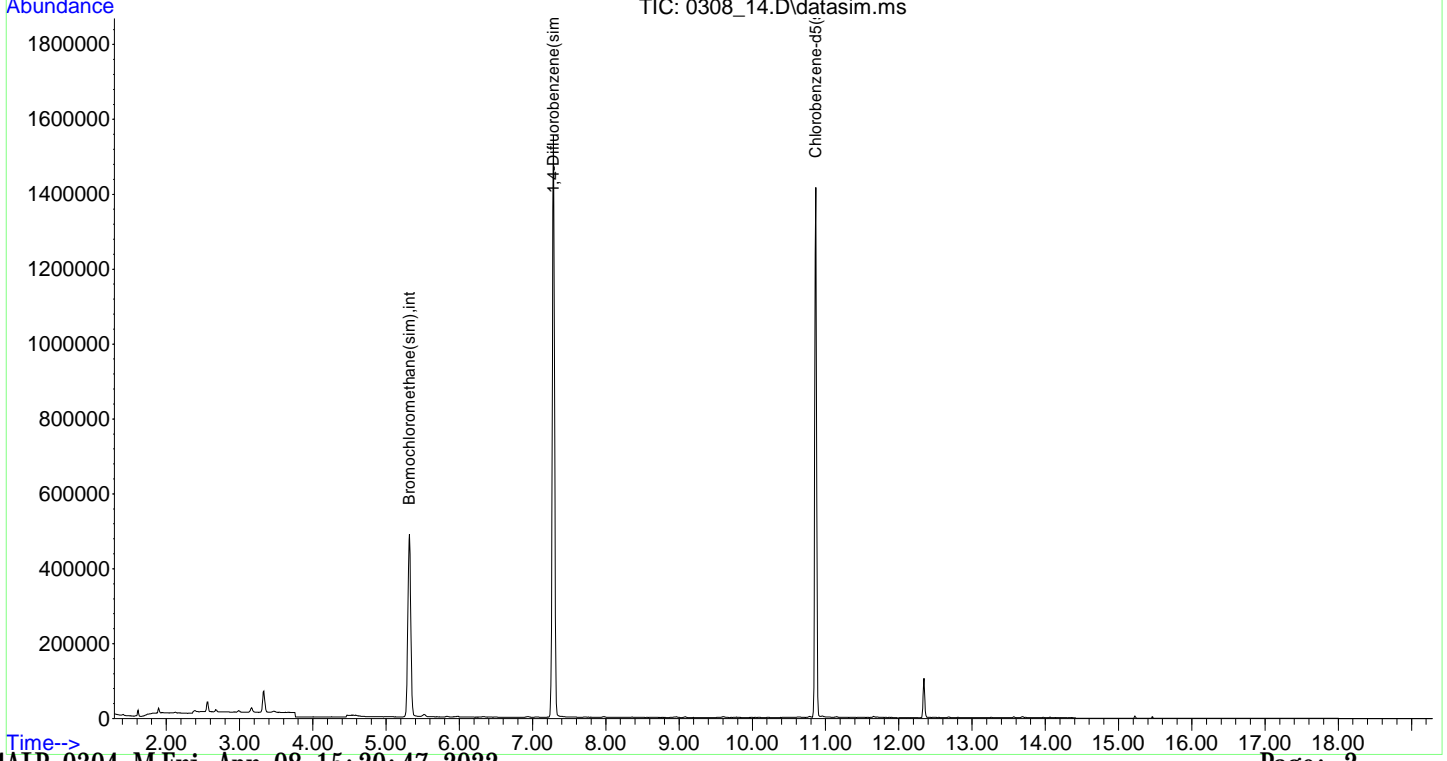
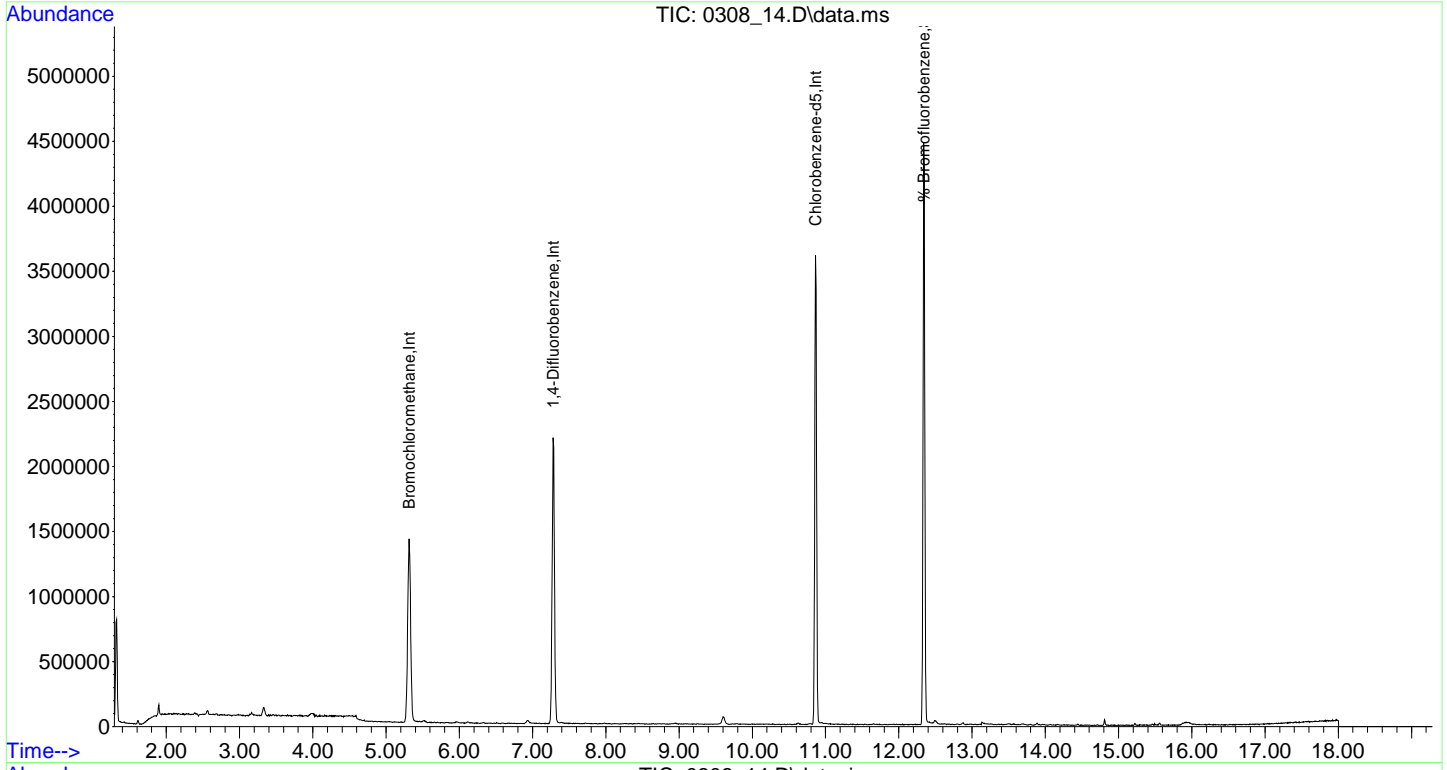
Target Compounds Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM24\03MAR\08\
Data File : 0308_14.D
Acq On : 9 Mar 2022 1:55 am
Operator : Keith
Client ID : CANISTER BLK 2439
Lab ID : CANISTER BLK 2439
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 09 09:26:52 2022
Quant Method : H:\AIR2022\CHEM24\Methods\24AIR_0304.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Sat Mar 05 12:13:53 2022
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 2440

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CANISTER BLK 2440
Canister:	CANBL	Lab File ID:	0309_08.D
Instrument:	CHEM24	Column:	_____
Purge Volume	200	(cc)	Date Received: _____
Matrix:	AIR	Dilution Factor:	1
		Date Analyzed:	03/09/22

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 2440

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCK90290	Lab Sample ID:	CANISTER BLK 2440
Canister:	CANBL	Lab File ID:	0309_08.D
Instrument:	CHEM24	Column:	_____
Purge Volume	200	(cc)	Date Received: _____
Matrix:	AIR	Dilution Factor:	1
		Date Analyzed:	03/09/22

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Batch Canister Certification

April 08, 2022

Batch Id: 2440

QC Canister Id: 1160

SDG ID: GCK90290

Sample Canister Ids: 16010, 19635, 19931, 23336, 23340, 480

Certification Date: 03/09/22 5:03 PM

Data File: H:\AIR2022\CHEM24\03MAR\09\0309_08.D\0309_08-24AIR_0304.rr

Project ID: CINDERELLA

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1,2-Tetrachloroethane	<0.146	1,1,1-Trichloroethane	<0.183
1,1,2,2-Tetrachloroethane	<0.146	1,1,2-Trichloroethane	<0.183
1,1-Dichloroethane	<0.247	1,1-Dichloroethene	<0.051
1,2,4-Trichlorobenzene	<0.135	1,2-Dibromoethane(EDB)	<0.130
1,2-Dichlorobenzene	<0.166	1,2-Dichloroethane	<0.247
1,2-dichloropropane	<0.217	1,2-Dichlorotetrafluoroethane	<0.143
1,3-Dichlorobenzene	<0.166	1,4-Dichlorobenzene	<0.166
1,4-Dioxane	<0.278	4-Isopropyltoluene	<0.182
Benzene	<0.313	Benzyl chloride	<0.193
Bromodichloromethane	<0.149	Bromoform	<0.097
Bromomethane	<0.258	Carbon Tetrachloride	<0.032
Chloroform	<0.205	Cis-1,2-Dichloroethene	<0.051
cis-1,3-Dichloropropene	<0.220	Dibromochloromethane	<0.117
Ethanol	<0.531	Ethyl acetate	<0.278
Ethylbenzene	<0.230	Hexachlorobutadiene	<0.094
Isopropylalcohol	<0.407	m,p-Xylene	<0.230
n-Butylbenzene	<0.182	o-Xylene	<0.230
Propylene	<0.581	sec-Butylbenzene	<0.182
Tetrachloroethene	<0.037	Trans-1,2-Dichloroethene	<0.252
Trichloroethene	<0.037	Trichlorofluoromethane	<0.178
Trichlorotrifluoroethane	<0.131	Vinyl Chloride	<0.078

Data Path : H:\AIR2022\CHEM24\03MAR\09\
 Data File : 0309_08.D
 Acq On : 9 Mar 2022 5:03 pm
 Operator : Keith
 Client ID : CANISTER BLK 2440
 Lab ID : CANISTER BLK 2440
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 10 08:13:00 2022
 Quant Method : H:\AIR2022\CHEM24\Methods\24AIR_0304.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Sat Mar 05 12:13:53 2022
 Response via : Initial Calibration

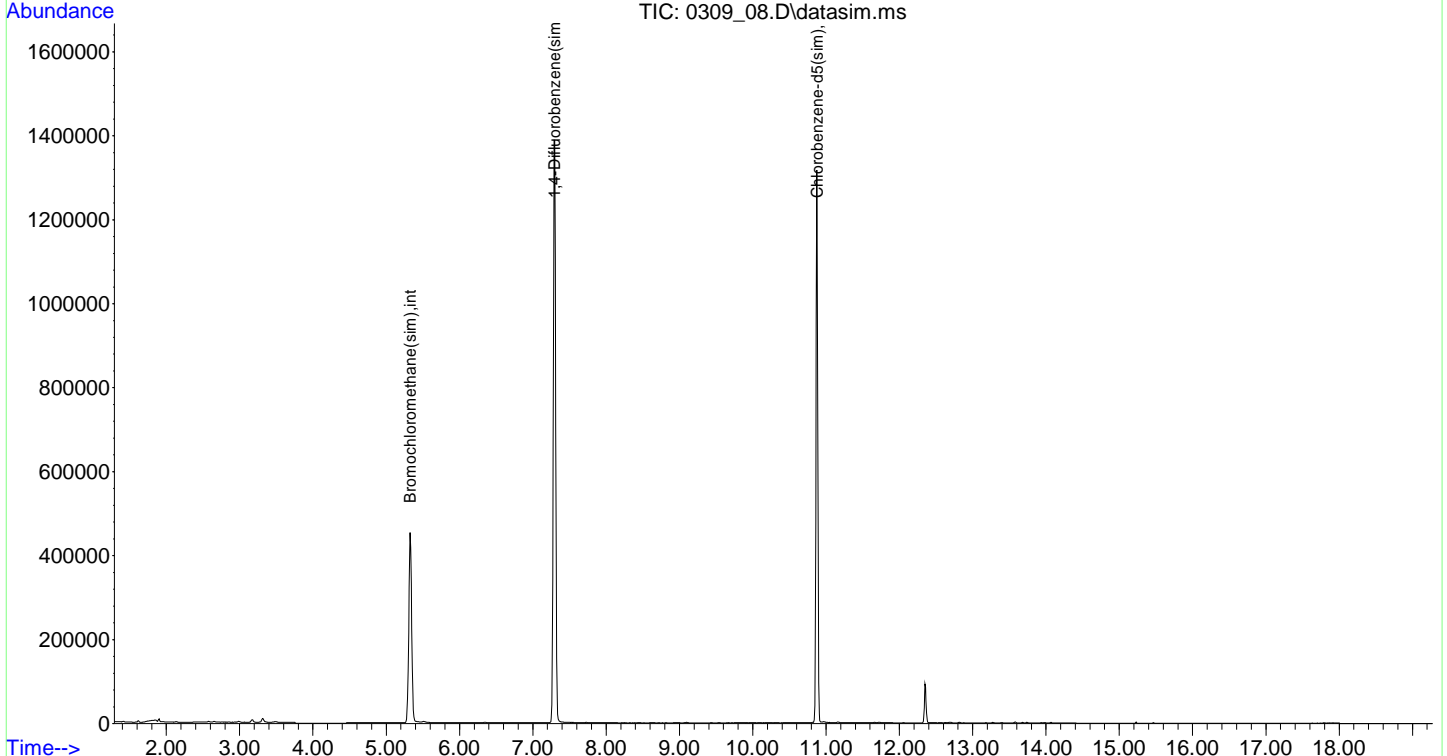
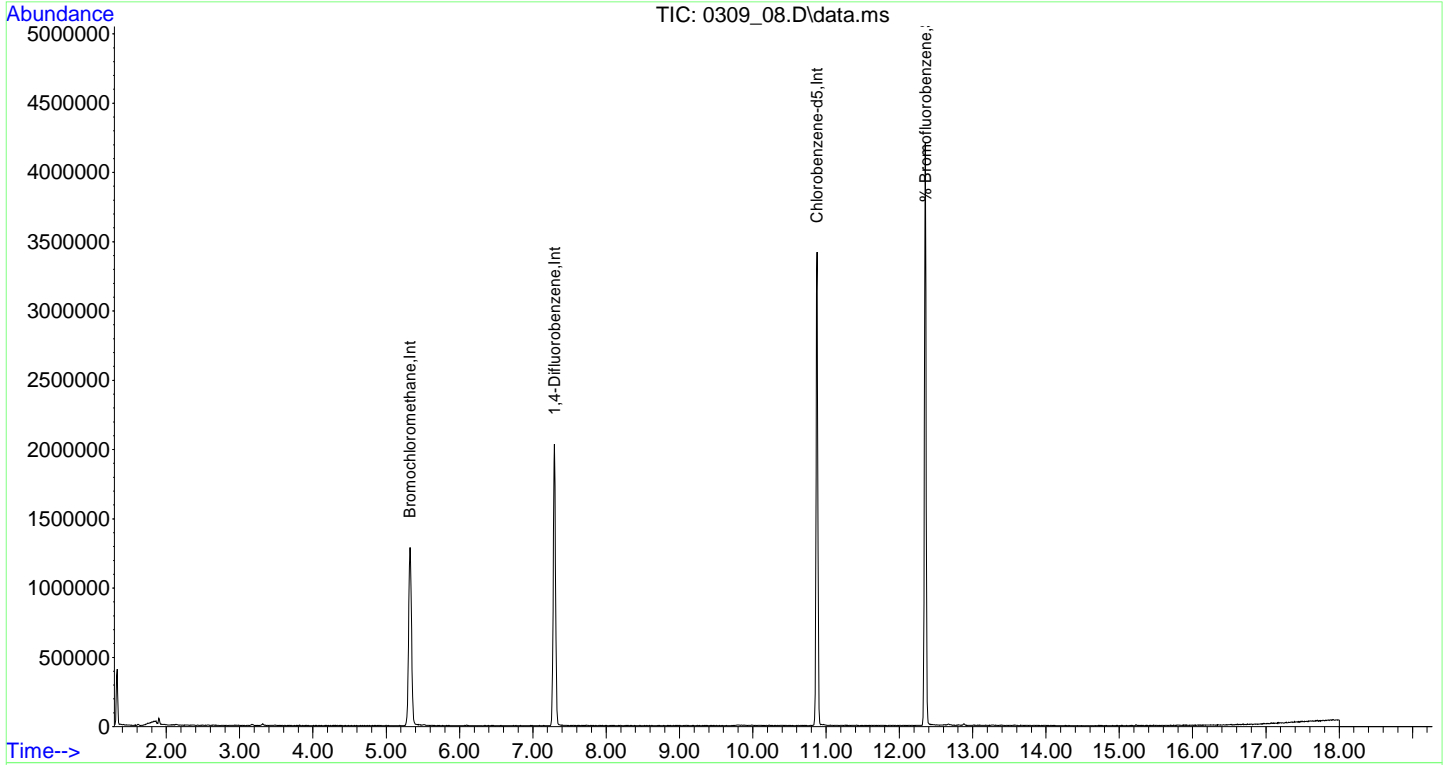
Compound	R. T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	5.324	130	563613	10.000	ng	0.02
36) 1,4-Difluorobenzene	7.295	114	1795170	10.000	ng	0.02
53) Chlorobenzene-d5	10.877	82	915700	10.000	ng	0.02
80) Bromchloromethane(sim)	5.327	130	628799	10.000	ng	# 0.02
95) 1,4-Difluorobenzene(sim)	7.295	114	1795170	10.000	ng	0.02
105) Chlorobenzene-d5(sim)	10.877	82	915700	10.000	ng	0.02
System Monitoring Compounds						
62) % Bromfluorobenzene	12.354	95	1240745	9.588	ppbv	0.02
Spiked Amount	10.000	Range 70 - 130	Recovery	=	95.90%	
Target Compounds						Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM24\03MAR\09\
Data File : 0309_08.D
Acq On : 9 Mar 2022 5:03 pm
Operator : Keith
Client ID : CANISTER BLK 2440
Lab ID : CANISTER BLK 2440
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 10 08:13:00 2022
Quant Method : H:\AIR2022\CHEM24\Methods\24AIR_0304.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Sat Mar 05 12:13:53 2022
Response via : Initial Calibration



Injection Log

Data Directory: H:\AIR2022\CHEM20\03MAR\17A\

Line	VI	FileName	SampleName	MscInfo	Injection Time
1)	0	0319_42.D	XXXXXXXXXX		N/A
2)	38	0317_01.D	XXXXXXXXXX		03/17/22 16:37
3)	39	0317_02.D	BFB TUNE	0/0	03/17/22 17:08
4)	40	0317_03.D	ICAL 0.01	0.01 (40cc-1)	03/17/22 17:39
5)	41	0317_04.D	ICAL 0.02	0.02 (80cc-1)	03/17/22 18:12
6)	42	0317_05.D	ICAL 0.035	0.035 (140cc-1)	03/17/22 18:45
7)	37	0317_06.D	ICAL 0.05	0.05 ppb ; AIR	03/17/22 19:20
8)	40	0317_09.D	ICAL 0.1	0.10 ppb ; AIR	03/17/22 19:51
9)	41	0317_10.D	ICAL 0.2	0.20 ppb ; AIR	03/17/22 20:23
10)	42	0317_11.D	ICAL 0.5	0.50 ppb ; AIR	03/17/22 20:57
11)	43	0317_12.D	ICAL 2.5	2.5 ppb ; AIR	03/17/22 21:31
12)	44	0317_13.D	ICAL 5	5.0 ppb ; AIR	03/17/22 22:03
13)	45	0317_14.D	ICAL 25	25 ppb ; AIR	03/17/22 22:37
14)	46	0317_15.D	ICAL 40	40 ppb ; AIR	03/17/22 23:13
15)	14	0317_16.D	ICAL 1	1.0 ppb ; AIR	03/17/22 23:45
16)	15	0317_17.D	ICAL 10	10 ppb ; AIR	03/18/22 0:17
17)	16	0317_18.D	XXXXXXXXXX		03/18/22 0:51
18)	17	0317_19.D	XXXXXXXXXX		03/18/22 1:26
19)	18	0317_20.D	XXXXXXXXXX		03/18/22 1:56
20)	19	0317_21.D	XXXXXXXXXX		03/18/22 2:28
21)	20	0317_22.D	XXXXXXXXXX		03/18/22 3:02
22)	21	0317_23.D	XXXXXXXXXX		03/18/22 3:37
23)	22	0317_24.D	XXXXXXXXXX		03/18/22 4:11
24)	23	0317_25.D	XXXXXXXXXX		03/18/22 4:50
25)	24	0317_26.D	XXXXXXXXXX		03/18/22 5:29
26)	25	0317_27.D	XXXXXXXXXX		03/18/22 6:08
27)	26	0317_28.D	XXXXXXXXXX		03/18/22 6:47
28)	27	0317_29.D	XXXXXXXXXX		03/18/22 7:22
29)	28	0317_30.D	XXXXXXXXXX		03/18/22 7:56
30)	29	0317_31.D	XXXXXXXXXX		03/18/22 8:31
31)	30	0317_32.D	XXXXXXXXXX		03/18/22 9:06
32)	31	0317_33.D	XXXXXXXXXX		03/18/22 9:40
33)	32	0317_34.D	XXXXXXXXXX		03/18/22 10:12
34)	33	0317_35.D	XXXXXXXXXX		03/18/22 10:45
35)	34	0317_36.D	XXXXXXXXXX		03/18/22 11:17
36)	35	0317_37.D	XXXXXXXXXX		03/18/22 11:49
37)	36	0317_38.D	XXXXXXXXXX		03/18/22 12:27
38)	37	0317_39.D	XXXXXXXXXX		03/18/22 13:06
39)	38	0317_40.D	XXXXXXXXXX		03/18/22 13:48
40)	39	0317_41.D	XXXXXXXXXX		03/18/22 14:23
41)	40	0317_42.D	XXXXXXXXXX		03/18/22 15:01
42)	41	0317_43.D	XXXXXXXXXX		03/18/22 15:36
43)	42	0317_44.D	XXXXXXXXXX		03/18/22 16:11
44)	43	0317_45.D	XXXXXXXXXX		03/18/22 16:45
45)	44	0317_46.D	XXXXXXXXXX		03/18/22 17:20
46)	45	0317_47.D	XXXXXXXXXX		03/18/22 17:54
47)	46	0317_48.D	XXXXXXXXXX		03/18/22 18:29
48)	47	0317_49.D	XXXXXXXXXX		03/18/22 19:03
49)	48	0317_50.D	XXXXXXXXXX		03/18/22 19:38
50)	49	0318_01.D	XXXXXXXXXX		03/18/22 20:10
51)	45	0318_02.D	XXXXXXXXXX		03/18/22 20:44
52)	46	0318_03.D	XXXXXXXXXX		03/18/22 21:19
53)	47	0318_04.D	XXXXXXXXXX		03/18/22 21:53
54)	48	0318_05.D	XXXXXXXXXX		03/18/22 22:28
55)	49	0318_06.D	XXXXXXXXXX		03/18/22 23:03
56)	50	0318_07.D	XXXXXXXXXX		03/18/22 23:37
57)	51	0318_08.D	XXXXXXXXXX		03/19/22 0:12
58)	52	0318_09.D	XXXXXXXXXX		03/19/22 0:46
59)	53	0318_10.D	XXXXXXXXXX		03/19/22 1:21
60)	54	0318_11.D	XXXXXXXXXX		03/19/22 1:55
61)	55	0318_12.D	XXXXXXXXXX		03/19/22 2:30
62)	56	0318_13.D	XXXXXXXXXX		03/19/22 3:04
63)	57	0318_14.D	XXXXXXXXXX		03/19/22 3:39
64)	58	0318_15.D	XXXXXXXXXX		03/19/22 4:14
65)	59	0318_16.D	XXXXXXXXXX		03/19/22 4:48
66)	60	0318_17.D	XXXXXXXXXX		03/19/22 5:23

67)	61	0318_18.D	XXXXXXXXXX		03/19/22	5:57
68)	62	0318_19.D	XXXXXXXXXX		03/19/22	6:32
69)	63	0319_01.D	BFB TUNE - CCAL 1	1.0ppb cc - 1.0ppb	03/19/22	7:04
70)	64	0319_02.D	XXXXXXXXXX		03/19/22	7:36
71)	65	0319_03.D	CK90281 LCS	CK90281 LCS	03/19/22	8:10
72)	66	0319_04.D	CK90281 BLANK	CK90281 BLANK	03/19/22	8:45
73)	67	0319_05.D	XXXXXXXXXX		03/19/22	9:17
74)	68	0319_06.D	XXXXXXXXXX		03/19/22	9:51
75)	69	0319_07.D	XXXXXXXXXX		03/19/22	10:25
76)	70	0319_08.D	XXXXXXXXXX		03/19/22	10:59
77)	1	0319_09.D	CK90281 QC	CK90281 QC	03/19/22	11:42
78)	2	0319_10.D	90281 dup	CK90281 DUP	03/19/22	12:17
79)	3	0319_11.D	XXXXXXXXXX		03/19/22	12:52
80)	4	0319_12.D	XXXXXXXXXX		03/19/22	13:26
81)	5	0319_13.D	IA-4	CK90300	03/19/22	14:01
82)	6	0319_14.D	IA-1D	CK90301	03/19/22	14:36
83)	7	0319_15.D	AMBIENT	CK90302	03/19/22	15:11
84)	8	0319_16.D	IA-1	CK90293	03/19/22	15:46
85)	9	0319_17.D	IA-2	CK90296	03/19/22	16:21
86)	10	0319_18.D	IA-3	CK90298	03/19/22	16:56
87)	11	0319_19.D	XXXXXXXXXX		03/19/22	17:28
88)	12	0319_20.D	XXXXXXXXXX		03/19/22	18:00
89)	13	0319_21.D	XXXXXXXXXX		03/19/22	18:32
90)	14	0319_22.D	XXXXXXXXXX		03/19/22	19:04
91)	15	0319_23.D	XXXXXXXXXX		03/19/22	19:36
92)	16	0319_24.D	XXXXXXXXXX		03/19/22	20:08
93)	17	0319_25.D	XXXXXXXXXX		03/19/22	20:40
94)	18	0319_26.D	XXXXXXXXXX		03/19/22	21:12
95)	19	0319_27.D	VP-1 5X	CK90292 5X	03/19/22	21:44
96)	20	0319_28.D	XXXXXXXXXX		03/19/22	22:16
97)	21	0319_29.D	XXXXXXXXXX		03/19/22	22:48
98)	22	0319_30.D	XXXXXXXXXX		03/19/22	23:21
99)	23	0319_31.D	VP-2	CK90299	03/19/22	23:56
100)	24	0319_32.D	XXXXXXXXXX		03/20/22	0:31
101)	25	0319_33.D	XXXXXXXXXX		03/20/22	1:04
102)	26	0319_34.D	VP-4	CK90290	03/20/22	1:39
103)	27	0319_35.D	VP-3	CK90291	03/20/22	2:13
104)	28	0319_36.D	VP-1	CK90292	03/20/22	2:49
105)	29	0319_37.D	VP-5	CK90294	03/20/22	3:24
106)	30	0319_38.D	VP-8	CK90295	03/20/22	3:59
107)	31	0319_39.D	VP-7	CK90297	03/20/22	4:34
108)	32	0319_40.D	XXXXXXXXXX		03/20/22	5:06
109)	33	0319_41.D	XXXXXXXXXX		03/20/22	5:38

Injection Log

Data Directory: H:\AIR2022\CHEM24\03MAR\08\

Line	VI	FileName	SampleName	MscInfo	Injection Time
1)	42	0308_01.D	XXXXXXXXXX		03/08/22 10:54
2)	43	0308_02.D	XXXXXXXXXX		03/08/22 11:28
3)	44	0308_03.D	XXXXXXXXXX		03/08/22 12:04
4)	45	0308_04.D	XXXXXXXXXX		03/08/22 12:35
5)	46	0308_05.D	XXXXXXXXXX		03/08/22 13:12
6)	47	0308_06.D	XXXXXXXXXX		03/08/22 13:49
7)	48	0308_07.D	XXXXXXXXXX		03/08/22 14:26
8)	49	0308_08.D	XXXXXXXXXX		03/08/22 15:02
9)	50	0308_09.D	XXXXXXXXXX		03/08/22 15:34
10)	51	0308_10.D	XXXXXXXXXX		03/08/22 16:08
11)	52	0308_11.D	XXXXXXXXXX		03/08/22 16:44
12)	53	0308_12.D	CANISTER BLK 2437	CANISTER BLK 2437	03/08/22 21:00
13)	54	0308_13.D	XXXXXXXXXX		03/08/22 21:36
14)	55	0308_14.D	CANISTER BLK 2439	CANISTER BLK 2439	03/09/22 1:55
15)	56	0308_15.D	XXXXXXXXXX		03/09/22 2:37
16)	57	0308_16.D	XXXXXXXXXX		03/09/22 3:09
17)	58	0308_17.D	XXXXXXXXXX		03/09/22 8:49
18)	60	0308_19.D	XXXXXXXXXX		03/09/22 9:23

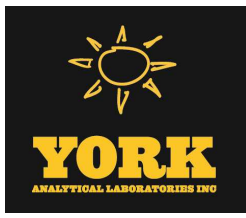
Injection Log

Data Directory: H:\AIR2022\CHEM24\03MAR\09\

Line	VI	FileName	SampleName	MscInfo	Injection Time
1)	0	0310_08.D	XXXXXXXXXX		N/A
2)	0	0311_35.D	XXXXXXXXXX		N/A
3)	15	0309_01.D	XXXXXXXXXX		03/09/22 12:20
4)	16	0309_02.D	XXXXXXXXXX		03/09/22 13:19
5)	16	0309_03.D	XXXXXXXXXX		03/09/22 13:52
6)	17	0309_04.D	XXXXXXXXXX		03/09/22 14:51
7)	18	0309_05.D	XXXXXXXXXX		03/09/22 15:22
8)	19	0309_06.D	XXXXXXXXXX		03/09/22 15:53
9)	20	0309_07.D	XXXXXXXXXX		03/09/22 16:27
10)	21	0309_08.D	CANISTER BLK 2440	CANISTER BLK 2440	03/09/22 17:03
11)	22	0309_09.D	XXXXXXXXXX		03/09/22 17:40
12)	23	0309_10.D	XXXXXXXXXX		03/09/22 18:21
13)	24	0309_11.D	XXXXXXXXXX		03/09/22 19:03
14)	25	0309_12.D	XXXXXXXXXX		03/09/22 19:35
15)	26	0309_13.D	XXXXXXXXXX		03/09/22 20:08
16)	27	0309_14.D	XXXXXXXXXX		03/09/22 20:41
17)	28	0309_15.D	XXXXXXXXXX		03/09/22 21:13
18)	29	0309_16.D	XXXXXXXXXX		03/09/22 21:45
19)	30	0309_17.D	XXXXXXXXXX		03/09/22 22:18
20)	31	0309_18.D	XXXXXXXXXX		03/09/22 22:50
21)	32	0309_19.D	XXXXXXXXXX		03/09/22 23:27
22)	33	0309_20.D	XXXXXXXXXX		03/10/22 0:03
23)	34	0309_21.D	XXXXXXXXXX		03/10/22 0:40
24)	35	0309_22.D	XXXXXXXXXX		03/10/22 3:47
25)	36	0309_23.D	XXXXXXXXXX		03/10/22 4:24
26)	37	0309_24.D	XXXXXXXXXX		03/10/22 4:57
27)	38	0309_25.D	XXXXXXXXXX		03/10/22 7:32
28)	39	0309_26.D	XXXXXXXXXX		03/10/22 9:33
29)	40	0309_27.D	XXXXXXXXXX		03/10/22 10:05
30)	41	0310_01.D	XXXXXXXXXX		03/10/22 10:38
31)	42	0310_02.D	XXXXXXXXXX		03/10/22 11:11
32)	43	0310_03.D	XXXXXXXXXX		03/10/22 11:48
33)	44	0310_04.D	XXXXXXXXXX		03/10/22 12:19
34)	45	0310_05.D	XXXXXXXXXX		03/10/22 12:50
35)	46	0310_06.D	XXXXXXXXXX		03/10/22 15:16
36)	47	0310_07.D	XXXXXXXXXX		03/10/22 15:53
37)	49	0310_09.D	XXXXXXXXXX		03/10/22 18:41
38)	50	0310_10.D	XXXXXXXXXX		03/10/22 19:18
39)	51	0310_11.D	XXXXXXXXXX		03/10/22 19:54
40)	52	0310_12.D	XXXXXXXXXX		03/10/22 20:31
41)	53	0310_13.D	XXXXXXXXXX		03/10/22 21:32
42)	54	0310_14.D	XXXXXXXXXX		03/10/22 22:05
43)	55	0310_15.D	XXXXXXXXXX		03/10/22 22:38
44)	56	0310_16.D	XXXXXXXXXX		03/10/22 23:10
45)	57	0310_17.D	XXXXXXXXXX		03/11/22 0:56
46)	58	0310_18.D	XXXXXXXXXX		03/11/22 1:33
47)	59	0310_19.D	XXXXXXXXXX		03/11/22 2:10
48)	60	0310_20.D	XXXXXXXXXX		03/11/22 2:46
49)	61	0310_21.D	XXXXXXXXXX		03/11/22 3:32
50)	62	0310_22.D	XXXXXXXXXX		03/11/22 4:09
51)	63	0310_23.D	XXXXXXXXXX		03/11/22 4:46
52)	64	0310_24.D	XXXXXXXXXX		03/11/22 5:23
53)	65	0310_25.D	XXXXXXXXXX		03/11/22 8:21
54)	66	0310_26.D	XXXXXXXXXX		03/11/22 8:58
55)	41	0311_01.D	XXXXXXXXXX		03/11/22 9:31
56)	42	0311_02.D	XXXXXXXXXX		03/11/22 10:05
57)	42	0311_03.D	XXXXXXXXXX		03/11/22 10:38
58)	43	0311_04.D	XXXXXXXXXX		03/11/22 11:15
59)	44	0311_05.D	XXXXXXXXXX		03/11/22 11:46
60)	45	0311_06.D	XXXXXXXXXX		03/11/22 12:17
61)	46	0311_07.D	XXXXXXXXXX		03/11/22 15:39
62)	47	0311_08.D	XXXXXXXXXX		03/11/22 16:11
63)	48	0311_09.D	XXXXXXXXXX		03/11/22 16:44
64)	49	0311_10.D	XXXXXXXXXX		03/11/22 17:16
65)	50	0311_11.D	XXXXXXXXXX		03/11/22 17:49
66)	51	0311_12.D	XXXXXXXXXX		03/11/22 19:05

67) 52 0311_13.D XXXXXXXXXXXX
68) 53 0311_14.D XXXXXXXXXXXX
69) 54 0311_15.D XXXXXXXXXXXX
70) 55 0311_16.D XXXXXXXXXXXX
71) 56 0311_17.D XXXXXXXXXXXX
72) 57 0311_18.D XXXXXXXXXXXX
73) 58 0311_19.D XXXXXXXXXXXX
74) 59 0311_20.D XXXXXXXXXXXX
75) 60 0311_21.D XXXXXXXXXXXX
76) 61 0311_22.D XXXXXXXXXXXX
77) 62 0311_23.D XXXXXXXXXXXX
78) 63 0311_24.D XXXXXXXXXXXX
79) 64 0311_25.D XXXXXXXXXXXX
80) 65 0311_26.D XXXXXXXXXXXX
81) 66 0311_27.D XXXXXXXXXXXX
82) 67 0311_28.D XXXXXXXXXXXX
83) 68 0311_29.D XXXXXXXXXXXX
84) 69 0311_30.D XXXXXXXXXXXX
85) 70 0311_31.D XXXXXXXXXXXX
86) 71 0311_32.D XXXXXXXXXXXX
87) 72 0311_33.D XXXXXXXXXXXX
88) 73 0311_34.D XXXXXXXXXXXX

03/11/22 19:41
03/11/22 21:03
03/11/22 21:36
03/11/22 22:08
03/11/22 22:50
03/11/22 23:32
03/12/22 0:55
03/12/22 1:32
03/12/22 2:21
03/12/22 2:58
03/12/22 3:35
03/12/22 4:07
03/12/22 4:40
03/12/22 5:13
03/12/22 5:45
03/12/22 6:18
03/12/22 6:51
03/12/22 7:23
03/12/22 7:56
03/12/22 8:27
03/12/22 9:00
03/12/22 9:34



Technical Report

prepared for:

FPM Group
640 Johnson Avenue, Suite 101
Bohemia NY, 11716
Attention: Adib Rahman

Report Date: 09/08/2020
Client Project ID: CINDERELLA
York Project (SDG) No.: 20I0311

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
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STRATFORD, CT 06615
(203) 325-1371



132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 09/08/2020
Client Project ID: CINDERELLA
York Project (SDG) No.: 20I0311

FPM Group
640 Johnson Avenue, Suite 101
Bohemia NY, 11716
Attention: Adib Rahman

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on September 01, 2020 and listed below. The project was identified as your project: **CINDERELLA**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20I0311-01	248 EFFLUENT	Air	09/01/2020	09/01/2020

General Notes for York Project (SDG) No.: 20I0311

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 09/08/2020





Sample Information

Client Sample ID: 248 EFFLUENT

York Sample ID: 2010311-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
2010311	CINDERELLA	Air	September 1, 2020 11:30 am	09/01/2020

Volatile Organics, EPA TO15 Full List

Log-in Notes: TO-TD

Sample Notes: TO-TD

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	0.69	1	EPA TO-15 Certifications:	09/05/2020 09:00	09/06/2020 03:02	LLJ
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.55	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.69	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.77	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.55	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.40	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.099	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.74	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
95-63-6	1,2,4-Trimethylbenzene	2.3		ug/m ³	0.49	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.77	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.60	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
107-06-2	1,2-Dichloroethane	0.89		ug/m ³	0.40	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.46	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.70	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
108-67-8	1,3,5-Trimethylbenzene	0.79		ug/m ³	0.49	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
106-99-0	1,3-Butadiene	ND		ug/m ³	0.66	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.60	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.46	1	EPA TO-15 Certifications:	09/05/2020 09:00	09/06/2020 03:02	LLJ
106-46-7	1,4-Dichlorobenzene	6.9		ug/m ³	0.60	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
123-91-1	1,4-Dioxane	ND		ug/m ³	0.72	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
78-93-3	2-Butanone	3.9		ug/m ³	0.29	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
591-78-6	* 2-Hexanone	0.94		ug/m ³	0.82	1	EPA TO-15 Certifications:	09/05/2020 09:00	09/06/2020 03:02	LLJ



Sample Information

Client Sample ID: 248 EFFLUENT

York Sample ID: 20I0311-01

<u>York Project (SDG) No.</u> 20I0311	<u>Client Project ID</u> CINDERELLA	<u>Matrix</u> Air	<u>Collection Date/Time</u> September 1, 2020 11:30 am	<u>Date Received</u> 09/01/2020
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Volatile Organics, EPA TO15 Full List

Log-in Notes: TO-TD

Sample Notes: TO-TD

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m ³	1.6	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
108-10-1	4-Methyl-2-pentanone	4.3		ug/m ³	0.41	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
67-64-1	Acetone	60		ug/m ³	0.48	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
107-13-1	Acrylonitrile	2.6		ug/m ³	0.22	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
71-43-2	Benzene	0.58		ug/m ³	0.32	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
100-44-7	Benzyl chloride	ND		ug/m ³	0.52	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
75-27-4	Bromodichloromethane	ND		ug/m ³	0.67	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
75-25-2	Bromoform	ND		ug/m ³	1.0	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
74-83-9	Bromomethane	ND		ug/m ³	0.39	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
75-15-0	Carbon disulfide	0.87		ug/m ³	0.31	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
56-23-5	Carbon tetrachloride	0.50		ug/m ³	0.16	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
108-90-7	Chlorobenzene	ND		ug/m ³	0.46	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
75-00-3	Chloroethane	ND		ug/m ³	0.26	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
67-66-3	Chloroform	0.63		ug/m ³	0.49	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
74-87-3	Chloromethane	1.8		ug/m ³	0.21	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.099	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.45	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
110-82-7	Cyclohexane	0.55		ug/m ³	0.34	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
124-48-1	Dibromochloromethane	ND		ug/m ³	0.85	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	0.49	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
141-78-6	* Ethyl acetate	5.3		ug/m ³	0.72	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
100-41-4	Ethyl Benzene	3.3		ug/m ³	0.43	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.1	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ



Sample Information

Client Sample ID: 248 EFFLUENT

York Sample ID: 20I0311-01

<u>York Project (SDG) No.</u> 20I0311	<u>Client Project ID</u> CINDERELLA	<u>Matrix</u> Air	<u>Collection Date/Time</u> September 1, 2020 11:30 am	<u>Date Received</u> 09/01/2020
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Volatile Organics, EPA TO15 Full List

Log-in Notes: TO-TD

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-63-0	Isopropanol	1200		ug/m ³	25	50	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 04:54	LLJ
80-62-6	Methyl Methacrylate	4.1		ug/m ³	0.41	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.36	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
75-09-2	Methylene chloride	ND		ug/m ³	0.69	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
142-82-5	n-Heptane	2.9		ug/m ³	0.41	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
110-54-3	n-Hexane	2.6		ug/m ³	0.35	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
95-47-6	o-Xylene	2.3		ug/m ³	0.43	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
179601-23-1	p- & m- Xylenes	7.7		ug/m ³	0.87	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
622-96-8	* p-Ethyltoluene	1.7		ug/m ³	0.49	1	EPA TO-15 Certifications:	09/05/2020 09:00	09/06/2020 03:02	LLJ
115-07-1	* Propylene	ND		ug/m ³	0.17	1	EPA TO-15 Certifications:	09/05/2020 09:00	09/06/2020 03:02	LLJ
100-42-5	Styrene	4.2		ug/m ³	0.43	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
127-18-4	Tetrachloroethylene	12		ug/m ³	0.68	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.59	1	EPA TO-15 Certifications:	09/05/2020 09:00	09/06/2020 03:02	LLJ
108-88-3	Toluene	17		ug/m ³	0.38	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.40	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.45	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
79-01-6	Trichloroethylene	0.32		ug/m ³	0.13	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
75-69-4	Trichlorofluoromethane (Freon 11)	1.3		ug/m ³	0.56	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
108-05-4	Vinyl acetate	ND		ug/m ³	0.35	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
593-60-2	Vinyl bromide	ND		ug/m ³	0.44	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
75-01-4	Vinyl Chloride	ND		ug/m ³	0.13	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	09/05/2020 09:00	09/06/2020 03:02	LLJ
460-00-4	Surrogate Recoveries <i>Surrogate: SURR: p-Bromofluorobenzene</i>	Result 96.6 %					Acceptance Range 70-130			



Sample Information

Client Sample ID: 248 EFFLUENT

York Sample ID: 20I0311-01

York Project (SDG) No.
20I0311

Client Project ID
CINDERELLA

Matrix
Air

Collection Date/Time
September 1, 2020 11:30 am

Date Received
09/01/2020



Analytical Batch Summary

Batch ID: BI00245

Preparation Method: EPA TO15 PREP

Prepared By: AS

YORK Sample ID	Client Sample ID	Preparation Date
20I0311-01	248 EFFLUENT	09/05/20
20I0311-01RE1	248 EFFLUENT	09/05/20
BI00245-BLK1	Blank	09/05/20
BI00245-BS1	LCS	09/05/20



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BI00245 - EPA TO15 PREP

Blank (BI00245-BLK1)

Prepared: 09/05/2020 Analyzed: 09/06/2020

1,1,1,2-Tetrachloroethane	ND	0.69	ug/m ³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD	Flag
		Limit			Result					Limit	

Batch BI00245 - EPA TO15 PREP

Blank (BI00245-BLK1)

Prepared: 09/05/2020 Analyzed: 09/06/2020

n-Heptane	ND	0.41	ug/m ³								
n-Hexane	ND	0.35	"								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.68	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.13	"								
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	7.82		ppbv	10.0		78.2	70-130				

LCS (BI00245-BS1)

Prepared & Analyzed: 09/05/2020

1,1,1,2-Tetrachloroethane	9.82		ppbv	10.0		98.2	70-130				
1,1,1-Trichloroethane	10.6		"	10.0		106	70-130				
1,1,2,2-Tetrachloroethane	9.69		"	10.0		96.9	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.59		"	10.0		95.9	70-130				
1,1,2-Trichloroethane	9.47		"	10.0		94.7	70-130				
1,1-Dichloroethane	9.78		"	10.0		97.8	70-130				
1,1-Dichloroethylene	9.25		"	10.0		92.5	70-130				
1,2,4-Trichlorobenzene	9.86		"	10.0		98.6	70-130				
1,2,4-Trimethylbenzene	10.0		"	10.0		100	70-130				
1,2-Dibromoethane	10.4		"	10.0		104	70-130				
1,2-Dichlorobenzene	12.4		"	10.0		124	70-130				
1,2-Dichloroethane	9.79		"	10.0		97.9	70-130				
1,2-Dichloropropane	9.22		"	10.0		92.2	70-130				
1,2-Dichlorotetrafluoroethane	11.4		"	10.0		114	70-130				
1,3,5-Trimethylbenzene	9.72		"	10.0		97.2	70-130				
1,3-Butadiene	9.97		"	10.0		99.7	70-130				
1,3-Dichlorobenzene	9.21		"	10.0		92.1	70-130				
1,3-Dichloropropane	9.95		"	10.0		99.5	70-130				
1,4-Dichlorobenzene	8.81		"	10.0		88.1	70-130				
1,4-Dioxane	9.41		"	10.0		94.1	70-130				
2-Butanone	10.2		"	10.0		102	70-130				
2-Hexanone	11.1		"	10.0		111	70-130				
3-Chloropropene	9.94		"	10.0		99.4	70-130				
4-Methyl-2-pentanone	9.55		"	10.0		95.5	70-130				
Acetone	10.7		"	10.0		107	70-130				
Acrylonitrile	9.69		"	10.0		96.9	70-130				
Benzene	9.67		"	10.0		96.7	70-130				
Benzyl chloride	8.64		"	10.0		86.4	70-130				
Bromodichloromethane	9.58		"	10.0		95.8	70-130				
Bromoform	11.6		"	10.0		116	70-130				



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

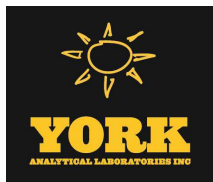
Batch BI00245 - EPA TO15 PREP

LCS (BI00245-BS1)

Prepared & Analyzed: 09/05/2020

Bromomethane	10.5		ppbv	10.0		105	70-130				
Carbon disulfide	9.82		"	10.0		98.2	70-130				
Carbon tetrachloride	9.98		"	10.0		99.8	70-130				
Chlorobenzene	10.4		"	10.0		104	70-130				
Chloroethane	10.3		"	10.0		103	70-130				
Chloroform	9.96		"	10.0		99.6	70-130				
Chloromethane	9.95		"	10.0		99.5	70-130				
cis-1,2-Dichloroethylene	9.26		"	10.0		92.6	70-130				
cis-1,3-Dichloropropylene	10.1		"	10.0		101	70-130				
Cyclohexane	10.0		"	10.0		100	70-130				
Dibromochloromethane	10.4		"	10.0		104	70-130				
Dichlorodifluoromethane	12.1		"	10.0		121	70-130				
Ethyl acetate	10.0		"	10.0		100	70-130				
Ethyl Benzene	9.84		"	10.0		98.4	70-130				
Hexachlorobutadiene	9.94		"	10.0		99.4	70-130				
Isopropanol	8.27		"	10.0		82.7	70-130				
Methyl Methacrylate	9.87		"	10.0		98.7	70-130				
Methyl tert-butyl ether (MTBE)	10.2		"	10.0		102	70-130				
Methylene chloride	10.6		"	10.0		106	70-130				
n-Heptane	9.57		"	10.0		95.7	70-130				
n-Hexane	10.1		"	10.0		101	70-130				
o-Xylene	9.70		"	10.0		97.0	70-130				
p- & m- Xylenes	18.4		"	20.0		91.9	70-130				
p-Ethyltoluene	11.2		"	10.0		112	70-130				
Propylene	10.5		"	10.0		105	70-130				
Styrene	11.2		"	10.0		112	70-130				
Tetrachloroethylene	9.20		"	10.0		92.0	70-130				
Tetrahydrofuran	10.3		"	10.0		103	70-130				
Toluene	9.08		"	10.0		90.8	70-130				
trans-1,2-Dichloroethylene	9.79		"	10.0		97.9	70-130				
trans-1,3-Dichloropropylene	10.2		"	10.0		102	70-130				
Trichloroethylene	9.26		"	10.0		92.6	70-130				
Trichlorofluoromethane (Freon 11)	9.96		"	10.0		99.6	70-130				
Vinyl acetate	10.1		"	10.0		101	70-130				
Vinyl bromide	10.7		"	10.0		107	70-130				
Vinyl Chloride	11.7		"	10.0		117	70-130				
Surrogate: SURR: p-Bromofluorobenzene	13.0		"	10.0		130	70-130				





Sample and Data Qualifiers Relating to This Work Order

TO-TD The sample was received in a tedlar bag which is not compliant with EPA TO-15 requirements.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



York Analytical Laboratories, Inc.
 120 Research Drive
 Stratford, CT 06615
 clientservices@yorklab.com
 www.yorklab.com

Field Chain-of-Custody Record

YORK Project No.

2010311

Page ___ of ___

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YOUR INFORMATION		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time			
Company: FPM GROUP	Company: SAME	Address: 640 JOHNSON AVENUE BOHEMIA, NY 11716	Address: SAME	Company: SAME	Company: SAME	Address: CINDERELLA	Address: CINDERELLA	RUSH - Next Day	<input type="checkbox"/>		
Phone: ADIB RAHMAN	Phone: SAME	Contact: 631-737-6200	Contact: SAME	Phone: ADIB RAHMAN	Phone: SAME	YOUR PO#:	YOUR Project Name	RUSH - Two Day	<input type="checkbox"/>		
E-mail: A. RAHMAN@FPM-GROUP.COM	E-mail: SAME			Contact: ADIB RAHMAN	Contact: SAME		CINDERELLA	RUSH - Three Day	<input type="checkbox"/>		
<p>Matrix Codes</p> <p>S - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil ; Other</p>		<p>Matrix Codes</p> <p>S - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil ; Other</p>		<p>Samples From</p> <p><input checked="" type="checkbox"/> New York <input type="checkbox"/> New Jersey <input type="checkbox"/> Connecticut <input type="checkbox"/> Pennsylvania <input type="checkbox"/> Other</p>		<p>Report / EDD Type (circle selections)</p> <p>CT RCP CT RCP DQAD/DUE NY ASP A Package NY ASP B Package Other:</p>		<p>YORK Reg. Comp.</p> <p>Compared to the following Regulation(s): (please fill in)</p>		<p>Turn-Around Time</p> <p>RUSH - Four Day Standard (5-7 Day) <input checked="" type="checkbox"/></p>	
<p>Sample Identification</p> <p>248 EFFLUENT</p>		<p>Sample Matrix</p> <p>AIR</p>		<p>Date/Time Sampled</p> <p>9/1/2020 11:30am</p>		<p>Analysis Requested</p> <p>TO-15</p>		<p>Container Description</p> <p>1x TEDLER BAG</p>			
<p>Comments:</p>											
<p>Samples Relinquished by / Company</p> <p>Adib Rahman / FPM GROUP</p>		<p>Samples Received by / Company</p> <p>[Signature]</p>		<p>Date/Time</p> <p>9/1/2020 12:58pm</p>		<p>Samples Relinquished by / Company</p> <p>[Signature]</p>		<p>Date/Time</p> <p>12:59</p>		<p>Preservation: (check all that apply)</p> <p>HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___</p>	
<p>Samples Received by / Company</p>		<p>Samples Relinquished by / Company</p>		<p>Date/Time</p>		<p>Samples Received by / Company</p>		<p>Date/Time</p>		<p>Special Instruction</p> <p>Field Filtered Lab to Filter</p>	
<p>Samples Relinquished by / Company</p>		<p>Samples Received by / Company</p>		<p>Date/Time</p>		<p>Samples Relinquished by / Company</p>		<p>Date/Time</p>		<p>Samples Received in LAB by</p> <p>Adib Rahman 9/1/20 12:15</p>	
<p>Samples Relinquished by / Company</p>		<p>Samples Received by / Company</p>		<p>Date/Time</p>		<p>Samples Relinquished by / Company</p>		<p>Date/Time</p>		<p>Temp. Received at Lab</p> <p>Degrees C</p>	



Monday, August 09, 2021

Attn: Mr John Bukoski, PG
FPM Group
640 Johnson Avenue, Suite 101
Bohemia, NY 11716

Project ID: CINDERELLA
SDG ID: GCI90796
Sample ID#s: CI90796

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style with a large initial "P".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Sample Id Cross Reference

August 09, 2021

SDG I.D.: GCI90796

Project ID: CINDERELLA

Client Id	Lab Id	Matrix
EFFLUENT	CI90796	AIR



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

August 09, 2021

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 9769

Custody Information

Collected by: AE
 Received by: CP
 Analyzed by: see "By" below

Date Time
 08/05/21 12:15
 08/06/21 16:58

Project ID: CINDERELLA
 Client ID: EFFLUENT

Laboratory Data

SDG ID: GCI90796
 Phoenix ID: CI90796

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	08/07/21	KCA	1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	08/07/21	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	08/07/21	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	08/07/21	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	08/07/21	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	08/07/21	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	08/07/21	KCA	1
1,2,4-Trimethylbenzene	0.304	0.204	1.49	1.00	08/07/21	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	08/07/21	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	08/07/21	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	08/07/21	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	08/07/21	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	08/07/21	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	08/07/21	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	08/07/21	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	08/07/21	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	08/07/21	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	08/07/21	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	08/07/21	KCA	1
4-Ethyltoluene	ND	0.204	ND	1.00	08/07/21	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	08/07/21	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	08/07/21	KCA	1
Acetone	9.77	0.421	23.2	1.00	08/07/21	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	08/07/21	KCA	1
Benzene	ND	0.313	ND	1.00	08/07/21	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	08/07/21	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	ND	1.00	08/07/21	KCA	1
Bromoform	ND	0.097	ND	1.00	08/07/21	KCA	1
Bromomethane	ND	0.258	ND	1.00	08/07/21	KCA	1
Carbon Disulfide	ND	0.321	ND	1.00	08/07/21	KCA	1
Carbon Tetrachloride	0.090	0.032	0.57	0.20	08/07/21	KCA	1
Chlorobenzene	ND	0.217	ND	1.00	08/07/21	KCA	1
Chloroethane	ND	0.379	ND	1.00	08/07/21	KCA	1
Chloroform	0.972	0.205	4.74	1.00	08/07/21	KCA	1
Chloromethane	ND	0.485	ND	1.00	08/07/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	ND	0.20	08/07/21	KCA	1
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	08/07/21	KCA	1
Cyclohexane	ND	0.291	ND	1.00	08/07/21	KCA	1
Dibromochloromethane	ND	0.118	ND	1.00	08/07/21	KCA	1
Dichlorodifluoromethane	0.475	0.202	2.35	1.00	08/07/21	KCA	1
Ethanol	50.1	2.66	94.3	5.01	08/06/21	KCA	5
Ethyl acetate	ND	0.278	ND	1.00	08/07/21	KCA	1
Ethylbenzene	ND	0.230	ND	1.00	08/07/21	KCA	1
Heptane	0.255	0.244	1.04	1.00	08/07/21	KCA	1
Hexachlorobutadiene	ND	0.094	ND	1.00	08/07/21	KCA	1
Hexane	ND	0.284	ND	1.00	08/07/21	KCA	1
Isopropylalcohol	2.15	0.407	5.28	1.00	08/07/21	KCA	1
Isopropylbenzene	0.206	0.204	1.01	1.00	08/07/21	KCA	1
m,p-Xylene	0.349	0.230	1.51	1.00	08/07/21	KCA	1
Methyl Ethyl Ketone	ND	0.339	ND	1.00	08/07/21	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	08/07/21	KCA	1
Methylene Chloride	ND	0.864	ND	3.00	08/07/21	KCA	1
n-Butylbenzene	ND	0.182	ND	1.00	08/07/21	KCA	1
o-Xylene	ND	0.230	ND	1.00	08/07/21	KCA	1
Propylene	ND	0.581	ND	1.00	08/07/21	KCA	1
sec-Butylbenzene	ND	0.182	ND	1.00	08/07/21	KCA	1
Styrene	ND	0.235	ND	1.00	08/07/21	KCA	1
Tetrachloroethene	4.64	0.037	31.5	0.25	08/07/21	KCA	1
Tetrahydrofuran	ND	0.339	ND	1.00	08/07/21	KCA	1
Toluene	2.21	0.266	8.32	1.00	08/07/21	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	08/07/21	KCA	1
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	08/07/21	KCA	1
Trichloroethene	ND	0.037	ND	0.20	08/07/21	KCA	1
Trichlorofluoromethane	0.244	0.178	1.37	1.00	08/07/21	KCA	1
Trichlorotrifluoroethane	ND	0.131	ND	1.00	08/07/21	KCA	1
Vinyl Chloride	ND	0.078	ND	0.20	08/07/21	KCA	1
<u>QA/QC Surrogates/Internals</u>							
% Bromofluorobenzene	101	%	101	%	08/07/21	KCA	1
% IS-1,4-Difluorobenzene	105	%	105	%	08/07/21	KCA	1
% IS-Bromochloromethane	105	%	105	%	08/07/21	KCA	1
% IS-Chlorobenzene-d5	106	%	106	%	08/07/21	KCA	1
% Bromofluorobenzene (5x)	100	%	100	%	08/06/21	KCA	5
% IS-1,4-Difluorobenzene (5x)	106	%	106	%	08/06/21	KCA	5
% IS-Bromochloromethane (5x)	105	%	105	%	08/06/21	KCA	5
% IS-Chlorobenzene-d5 (5x)	105	%	105	%	08/06/21	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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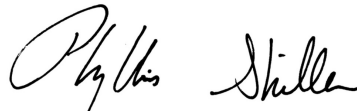
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
 BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 09, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

August 09, 2021

QA/QC Data

SDG I.D.: GCI90796

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 586939 (ppbv), QC Sample No: CI90793 (CI90796 (1X, 5X))												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	109	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	105	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	95	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	96	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	107	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	110	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	95	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	108	1.29	1.25	0.262	0.254	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	106	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	105	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	90	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	110	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	108	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	92	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	111	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	111	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	82	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	89	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	107	1.26	1.21	0.256	0.246	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	109	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	94	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	104	19.6	19.5	8.27	8.22	0.6	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	91	ND	ND	ND	ND	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	88	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	99	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	110	0.56	0.57	0.089	0.090	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	107	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	101	2.33	2.36	0.478	0.483	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	99	1.26	1.22	0.609	0.592	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	99	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	104	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	106	2.30	2.21	0.466	0.447	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	91	183 E	182	97.3 E	96.5	0.8	70 - 130	25


QA/QC Data

SDG I.D.: GC190796

Parameter	Bik ppbv	Bik RL ppbv	Bik ug/m3	Bik RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	0.280	ND	1.01	112	1.78	1.82	0.495	0.505	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	94	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	92	1.11	1.27	0.316	0.360	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	96	32.7	32.7	13.3	13.3	0.0	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	107	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	96	2.26	2.26	0.766	0.766	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	98	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	101	5.00	5.66	1.44	1.63	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	103	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	104	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	109	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	108	3.83	3.64	0.565	0.537	5.1	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	91	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	92	1.58	1.60	0.420	0.424	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	98	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	106	0.22	ND	0.041	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	111	1.43	1.45	0.254	0.258	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	95	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	98	%	98	%	104	102	103	102	103	NC	70 - 130	25
% IS-1,4-Difluorobenzene	101	%	101	%	103	102	99	102	99	NC	60 - 140	25
% IS-Bromochloromethane	103	%	103	%	106	104	101	104	101	NC	60 - 140	25
% IS-Chlorobenzene-d5	102	%	102	%	104	102	99	102	99	NC	60 - 140	25

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
August 09, 2021

Monday, August 09, 2021

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCI90796 - FPMGROUP

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

August 09, 2021

SDG I.D.: GCI90796

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

AIRSIM

CHEM24 08/06/21-1: C190796

The following Continuing Calibration compounds did not meet % deviation criteria: Bromoform(sim) 40%H (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: Bromoform(sim) 40%H (30%)



587 East Middle Turnpike, P.O. Box 170, Manchester, CT 06040
 Telephone: 860.645.1102 • Fax: 860.645.0823

**CHAIN OF CUSTODY RECORD
 AIR ANALYSES**

800-827-5426

email: greg@phoenixlabs.com

P.O. # _____ Page _____ of _____

Data Delivery:

Fax #:
 Email:
 Phone #:

Report to: Ben Concemi	Project Name: Cinderella	Data Format: Excel	Requested Deliverable: RESULTS/QA/QC RCP		Other: MCP NJ Deliverables										
Customer: FPM	Invoice to: Ben Concemi	Quote Number:													
Address: 640 Johnson Avenue, St101 Bohemia, NY 11716	Sampled by: ME	Requested Deliverable: RESULTS/QA/QC RCP													
THIS SECTION FOR LAB USE ONLY															
Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (ml/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)	Soil Gas	Matrix	Analyses
007040	Effluent	9769	6.0	30	4	5393	173	11/42	12/15	8/5	-29	-5	X	X	X
	6L 30 min														

Relinquished by: *Alfred Sparto* Date: **8/6/21** Accepted by: *Greg Sparto* Date: **8-6-21**

State Where Samples Collected: **NY**

Turnaround Time: 1 Day 2 Day 3 Day 4 Day 5 Day

Requested Criteria: **MA:** Indoor Air: Residential, Ind/Commercial; Soil Gas: Residential, Ind/Commercial; **NI:** Indoor Air: Residential, Ind/Commercial; Soil Gas: Residential, Ind/Commercial; **PA:** Indoor Air: Residential, Non-residential; Vapor Intrusion; **VT:** Indoor Air: Residential, Industrial, Sub-slab, Industrial

SPECIAL INSTRUCTIONS, OC REQUIREMENTS, REGULATORY INFORMATION:

Signature: *Alfred Sparto* Date: **8/6/21**

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document.



Tuesday, February 08, 2022

Attn: Mr John Bukoski, PG
FPM Group
640 Johnson Avenue, Suite 101
Bohemia, NY 11716

Project ID: CINDERELLA
SDG ID: GCK29615
Sample ID#s: CK29615

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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Sample Id Cross Reference

February 08, 2022

SDG I.D.: GCK29615

Project ID: CINDERELLA

Client Id	Lab Id	Matrix
EFFLUENT	CK29615	AIR



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

February 08, 2022

FOR: Attn: Mr John Bukoski, PG
 FPM Group
 640 Johnson Avenue, Suite 101
 Bohemia, NY 11716

Sample Information

Matrix: AIR
 Location Code: FPMGROUP
 Rush Request: Standard
 P.O.#:
 Canister Id: 28595
 Project ID: CINDERELLA
 Client ID: EFFLUENT

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date Time
 02/02/22 11:25
 02/03/22 17:10

Laboratory Data

SDG ID: GCK29615
 Phoenix ID: CK29615

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	02/07/22	KCA	1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	02/07/22	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	02/07/22	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	02/07/22	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	02/07/22	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	02/07/22	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	02/07/22	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	02/07/22	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	02/07/22	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	02/07/22	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	02/07/22	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	02/07/22	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	02/07/22	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	02/07/22	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	02/07/22	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	02/07/22	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	02/07/22	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	02/07/22	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	02/07/22	KCA	1
4-Ethyltoluene	ND	0.204	ND	1.00	02/07/22	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	02/07/22	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	02/07/22	KCA	1
Acetone	13.5	0.421	32.0	1.00	02/07/22	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	02/07/22	KCA	1
Benzene	0.475	0.313	1.52	1.00	02/07/22	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	02/07/22	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	ND	1.00	02/07/22	KCA	1
Bromoform	ND	0.097	ND	1.00	02/07/22	KCA	1
Bromomethane	ND	0.258	ND	1.00	02/07/22	KCA	1
Carbon Disulfide	ND	0.321	ND	1.00	02/07/22	KCA	1
Carbon Tetrachloride	0.077	0.032	0.48	0.20	02/07/22	KCA	1
Chlorobenzene	ND	0.217	ND	1.00	02/07/22	KCA	1
Chloroethane	ND	0.379	ND	1.00	02/07/22	KCA	1
Chloroform	0.251	0.205	1.22	1.00	02/07/22	KCA	1
Chloromethane	ND	0.485	ND	1.00	02/07/22	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	ND	0.20	02/07/22	KCA	1
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	02/07/22	KCA	1
Cyclohexane	ND	0.291	ND	1.00	02/07/22	KCA	1
Dibromochloromethane	ND	0.118	ND	1.00	02/07/22	KCA	1
Dichlorodifluoromethane	0.284	0.202	1.40	1.00	02/07/22	KCA	1
Ethanol	111	E 0.531	209	1.00	02/07/22	KCA	1
Ethyl acetate	ND	0.278	ND	1.00	02/07/22	KCA	1
Ethylbenzene	ND	0.230	ND	1.00	02/07/22	KCA	1
Heptane	ND	0.244	ND	1.00	02/07/22	KCA	1
Hexachlorobutadiene	ND	0.094	ND	1.00	02/07/22	KCA	1
Hexane	0.576	0.284	2.03	1.00	02/07/22	KCA	1
Isopropylalcohol	4.38	0.407	10.8	1.00	02/07/22	KCA	1
Isopropylbenzene	ND	0.204	ND	1.00	02/07/22	KCA	1
m,p-Xylene	0.234	0.230	1.02	1.00	02/07/22	KCA	1
Methyl Ethyl Ketone	0.377	0.339	1.11	1.00	02/07/22	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	02/07/22	KCA	1
Methylene Chloride	1.16	0.864	4.03	3.00	02/07/22	KCA	1
n-Butylbenzene	ND	0.182	ND	1.00	02/07/22	KCA	1
o-Xylene	ND	0.230	ND	1.00	02/07/22	KCA	1
Propylene	ND	0.581	ND	1.00	02/07/22	KCA	1
sec-Butylbenzene	ND	0.182	ND	1.00	02/07/22	KCA	1
Styrene	ND	0.235	ND	1.00	02/07/22	KCA	1
Tetrachloroethene	1.20	0.037	8.13	0.25	02/07/22	KCA	1
Tetrahydrofuran	ND	0.339	ND	1.00	02/07/22	KCA	1
Toluene	1.10	0.266	4.14	1.00	02/07/22	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	02/07/22	KCA	1
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	02/07/22	KCA	1
Trichloroethene	ND	0.037	ND	0.20	02/07/22	KCA	1
Trichlorofluoromethane	0.258	0.178	1.45	1.00	02/07/22	KCA	1
Trichlorotrifluoroethane	ND	0.131	ND	1.00	02/07/22	KCA	1
Vinyl Chloride	ND	0.078	ND	0.20	02/07/22	KCA	1
<u>QA/QC Surrogates/Internals</u>							
% Bromofluorobenzene	100	%	100	%	02/07/22	KCA	1
% IS-1,4-Difluorobenzene	100	%	100	%	02/07/22	KCA	1
% IS-Bromochloromethane	102	%	102	%	02/07/22	KCA	1
% IS-Chlorobenzene-d5	102	%	102	%	02/07/22	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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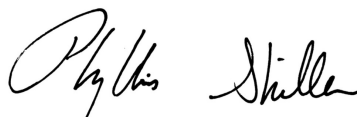
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
 BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

February 08, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

February 08, 2022

QA/QC Data

SDG I.D.: GCK29615

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 611201 (ppbv), QC Sample No: CK29615 (CK29615)												
<u>Volatiles</u>												
1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	101	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	105	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	99	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	103	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	99	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	100	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	97	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	99	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	97	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	103	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	101	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	96	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	100	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	98	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	101	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	101	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	104	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	101	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	95	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	103	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	93	32.0	33.5	13.5	14.1	4.3	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	98	1.52	1.47	0.475	0.459	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	109	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	111	0.48	0.50	0.077	0.079	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	99	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	102	1.22	1.17	0.251	0.240	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	99	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	101	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	108	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	82	1.40	1.45	0.284	0.294	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	109	209 E	218	111 E	116	4.4	70 - 130	25

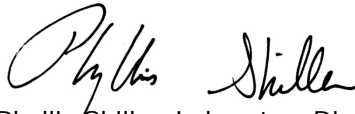
QA/QC Data

SDG I.D.: GCK29615

Parameter	Bik ppbv	Bik RL ppbv	Bik ug/m3	Bik RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	0.280	ND	1.01	109	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	99	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	90	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	101	2.03	2.11	0.576	0.599	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	106	10.8	10.5	4.38	4.28	2.3	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	97	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	102	1.02	ND	0.234	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	105	1.11	1.10	0.377	0.374	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	101	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	102	4.03	3.92	1.16	1.13	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	94	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	95	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	100	8.13	8.20	1.20	1.21	0.8	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	99	4.11	4.11	1.09	1.09	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	102	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	102	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	105	1.45	1.38	0.258	0.245	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	99	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	96	%	96	%	102	100	100	100	100	NC	70 - 130	25
% IS-1,4-Difluorobenzene	109	%	109	%	103	100	95	100	95	NC	60 - 140	25
% IS-Bromochloromethane	107	%	107	%	101	102	96	102	96	NC	60 - 140	25
% IS-Chlorobenzene-d5	109	%	109	%	106	102	98	102	98	NC	60 - 140	25

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
February 08, 2022

Tuesday, February 08, 2022

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCK29615 - FPMGROUP

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

February 08, 2022

SDG I.D.: GCK29615

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



587 East Middle Turnpike, P.O. Box 370, Middletown, CT 06460
Telephone: 860-445-1100 • Fax: 860-445-0823

CHAIN OF CUSTODY RECORD AIR ANALYSES

800-827-5426
email: greg@phoenixlabs.com

P.O. # _____ Page 1 of 1

Data Delivery: Fax #: _____

Email: A-CAN SCMI EPA-5809404

Phone #: _____

Report to: BEH CANEMI

Customer: FPM GROUP

Address: 640 JOHNSON AVE

Project Name: Cinderella

Invoice to: FPM

Sampled by: _____

Data Format: (Circle) Equis Excel Other: _____

Requested Deliverable: RCP ASP CAT B

MCP NJ Deliverables

Quote Number: _____

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	THIS SECTION FOR LAB USE ONLY					Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End (" Hg)	MATRIX			ANALYSES	
				Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure (" Hg)	Flow Regulator ID #	Flow Controller Setting (ml/min)	Flow Controller						Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)		
29015	EFFLOENT	28515	6L	30	0	7045	30/min		1100	1105	2/27	-27	-5			C	X	

Relinquished by: _____ Date: _____ Time: _____

Accepted by: [Signature] Date: 2.3.22 Time: 9:30

State Where Samples Collected: NY Requested Criteria: (Please Circle) NI: _____ NV: _____ PA: _____ VT: _____

Turnaround Time: 1 Day 2 Day 3 Day 4 Day 5 Day

Requested Criteria: (Please Circle) MA: _____

Indoor Air: Residential Ind/Commercial
TAC I/C TAC RES SVVC I/C SVVC RES
Soil Gas: Residential Ind/Commercial
GWY I/C GWY RES

Vapor Intrusion
Indoor Air: Residential Ind/Commercial
Soil Gas: Residential Ind/Commercial

Indoor Air: Residential Industrial Sub-slab Residential Industrial

SPECIAL INSTRUCTIONS, OC REQUIREMENTS, REGULATORY INFORMATION:

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document.

Signature: [Signature] Date: 2/3/22

APPENDIX F

DATA USABILITY SUMMARY REPORT

**DATA USABILITY SUMMARY REPORT
FOR DECEMBER 2020 AIR SAMPLING
CINDERELLA 248, LLC SITE,
248 FLATBUSH AVENUE, BROOKLYN, NY
SAMPLE DELIVERY GROUP # GCH37250**

This DUSR was prepared using the entire original laboratory report, including the sample data summary report and the extended data package. The sampling event included four indoor air sample (IA-1 through IA-4), and one outdoor air sample (AA-1). The duplicate sampling for QA/QC purposes was conducted on primary samples IA-2.

Sample Collection Procedures

The samples were collected in laboratory-provided batch-certified Summa canisters equipped with laboratory calibrated flow controllers. Collection of each sample was performed over an approximate six-hour period. Each of the flow controllers for the primary samples was closed when the vacuum in the canister was nearly depleted but some vacuum remained. Chain-of-custody documentation was present and complete.

Sample Analyses

The samples were transported to the laboratory and analyzed by Phoenix Environmental Laboratories, Inc. at their Manchester, Connecticut facility, which is NYSDOH-certified for the analyses performed. The samples were analyzed for volatile organic compounds (VOCs) using Method TO-15, with low-level analyses for the indoor and ambient air samples. The analytical methods and analytes are appropriate for the intended use of the data. The sample holding times were met and no problems with sample receipt or handling were reported by the laboratory. The samples were logged in by the lab based on the sample IDs on the tags and the correct can numbers printed on the canisters themselves were used.

Surrogate recoveries were complete and within limits. Internal standards were also noted to be complete and within limits.

Duplicate samples were collected and utilized to evaluate the precision of the laboratory analyses. The results from the duplicate sample (IA-99) and the associated parent sample (IA-2) are very similar. Based on the blind duplicate sample results, the laboratory results are likely to be precise.

Duplicate samples analysis were also performed by the laboratory and utilized to evaluate the precision of the laboratory analyses. The results from the laboratory duplicate sample and the associated parent sample are very similar. Based on the laboratory's duplicate sample results, the laboratory results are likely to be precise.

A method blank (MB) sample was analyzed by the laboratory to evaluate the potential for cross-contamination associated with the sample preparation and analysis. The MB results did not show detectable concentrations of VOCs and, therefore, cross-contamination associated with sample preparation or analysis does not appear to affect the sample data.

Air canister cleanings logs are maintained by the laboratory to evaluate the potential for cross-contamination associated with the sample containers. The air canister cleanings logs show that

cleaning measures are taken to prevent cross-contamination associated with sample containers.

A Laboratory control sample (LCS) was used by the laboratory to verify the accuracy and precision of the analyses. The LCS percent recoveries (%REC) were within established guidelines, with the exception of Chloromethane, 1,2-Dichlorotetrafluoroethane Vinyl Chloride, Trichlorofluoromethane which were above their respective recovery criteria. Based on the absence of these compounds in the primary samples and/or that the compounds are not contaminants of concern for the Site, the analytical results for the VOCs of concern are anticipated to be precise and accurate.

Questions and Responses

1. Is the data package complete as defined under the current requirements for the NYSDEC ASP Category B or USEPA CLP deliverables?

The data package is complete. The external and internal chain of custody forms are present and complete. The case narrative and sample analysis summaries are present and complete. The analytical QA/QC summary forms, including surrogate recovery forms, LCS forms, IDL forms, initial and continuing calibration summary forms, standards raw data, tuning criteria report, and MB data are all present and complete. The data report forms, including sample prep logs, injection logs, canister cleaning logs, and examples of the calculations used to determine the sample concentrations are all present and complete. The raw data used to identify and quantify the contract-specified analytes are present and complete.

Data completeness for the field program was also verified. The numbers and types of samples collected are in agreement with the work plan.

2. Have all holding times been met?

All samples were received and analyzed within the EPA-recommended holding times for the analyses performed.

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data, fall within the protocol-required limits and specifications?

No – LCS QC data were noted to be outside as noted above. All other were within the protocol required limits and specifications.

4. Have all of the data been generated using established and agreed-upon analytical protocols?

Yes – all of the data were generated using the Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms?

Yes – a representative number of raw data results were compared with the reported data results to confirm that the reported analytical results (identification and quantification) are

substantiated by the raw data.

6. Have the correct data qualifiers been used?

Yes, L-qualified data qualifiers were used when sample criteria were biased low. E-qualified data qualifiers were used when an estimated value was quantified above calibration range. No other qualifiers were utilized in the data package.

7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheets from the data package been attached to the DUSR?

Yes, QC exceedances have been reported in the data packages and the appropriate QC summary sheets have been attached.

Conclusions

The indoor/outdoor air and sub-slab soil vapor samples were collected in accordance with NYSDOH guidance. No field or laboratory conditions occurred that would result in non-valid analytical data for the VOCs of concern at this site. The data appear to be adequate for their intended purpose.

S:\Rigano LLC\Cinderella 248 LLC\Cinderella PRR 2019-2020\SVI DUSR December 2020.Docx



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

NY ANALYTICAL SERVICES PROTOCOL DATA PACKAGE

FPM Group
CINDARELLA

GCH37250

Ver 1



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

January 19, 2021

QA/QC Data

SDG I.D.: GCH37250

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 557825 (ppbv), QC Sample No: CH37250 (CH37250, CH37251, CH37252 (1X, 5X), CH37253, CH37254, CH37255)

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	104	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	110	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	92	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	94	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	120	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	92	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	119	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	114	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	116	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	90	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	140	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	113	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	124	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	119	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	120	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	80	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	91	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	116	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	117	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	95	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	124	25.9	26.6	10.9	11.2	2.7	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	94	1.02	1.00	0.321	0.313	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	96	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	109	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	115	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	114	0.51	0.53	0.081	0.085	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	113	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	102	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	134	1.10	1.11	0.531	0.538	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	103	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	107	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	128	2.11	1.87	0.427	0.378	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	95	695 E	704	369 E	374	1.3	70 - 130	25

QA/QC Data

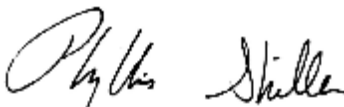
SDG I.D.: GCH37250

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	0.280	ND	1.01	106	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	101	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	94	ND	ND	ND	ND	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	107	11.7	10.9	4.78	4.44	7.4	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	106	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	103	1.14	1.21	0.263	0.278	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	101	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	107	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	123	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	130	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	119	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	101	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	102	0.46	0.47	0.068	0.070	NC	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	99	5.42	5.46	1.44	1.45	0.7	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	101	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	114	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	103	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	135	1.65	1.73	0.293	0.308	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	133	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	97	%	97	%	109	100	99	100	99	NC	70 - 130	25
% IS-1,4-Difluorobenzene	100	%	100	%	104	95	88	95	88	NC	60 - 140	25
% IS-Bromochloromethane	102	%	102	%	103	95	93	95	93	NC	60 - 140	25
% IS-Chlorobenzene-d5	103	%	103	%	116	96	89	96	89	NC	60 - 140	25

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 January 19, 2021



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823



SDG: GCH37250

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: CINDARELLA, FPM Group

Form 1 (Analysis):

No observations noted.

Form 2 (Surrogates):

All surrogates met criteria with the following exceptions: None.

Form 3 (Laboratory Control/Matrix Spike):

Sample: CH37250 LCS
All LCS recoveries met criteria with the following exceptions: Chloromethane 134%, 1,2-Dichlorotetrafluoroethane 140%, Vinyl Chloride 133%, Trichlorofluoromethane 135%

Form 4 (Method Blank):

File: CHEM20 1223_06.D
All compounds were non-detect with the following exceptions: None,

Form 5 (Tune):

File: CHEM20 1211_06.D
All Tune criteria was met with the following exceptions: None.

File: CHEM20 1223_02.D

All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

Calibration: CHEM20 12/11/20 - 12/12/20
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Calibration: CHEM20 12/11/20 - 12/12/20

100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Form 7 (Continuing Calibration):

File: CHEM20 1223_02.D (Opening)
99% of method compounds met criteria.
The following compounds did not meet maximum % deviations: 1,2,4-Trichlorobenzene 57.0% (20), 1,2,4-Trichlorobenzene(sim) 31.9% (30)

Form 8 (Internal Standard and Retention Time):

File: CHEM20 - 20_AIR_1211.M / 1223_02.D Full

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No GCH37250

LCS - Client Id: CH37250 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		13.00	130	70	130
Dichlorodifluoromethane	10		12.82	128	70	130
Chloromethane	10		13.44	134 *	70	130
1,2-Dichlorotetrafluoroethane	10		13.99	140 *	70	130
Vinyl Chloride	10		13.29	133 *	70	130
1,3-Butadiene	10		12.38	124	70	130
Bromomethane	10		11.51	115	70	130
Chloroethane	10		11.30	113	70	130
Ethanol	4		3.976	99	70	130
Acetone	10		12.42	124	70	130
Trichlorofluoromethane	10		13.49	135 *	70	130
Isopropylalcohol	6		6.278	105	70	130
Acrylonitrile	10		10.68	107	70	130
1,1-Dichloroethene	10		11.95	120	70	130
Methylene Chloride	10		10.72	107	70	130
Carbon Disulfide	10		9.540	95	70	130
Trichlorotrifluoroethane	10		10.68	107	70	130
Trans-1,2-Dichloroethene	10		10.06	101	70	130
1,1-Dichloroethane	10		10.04	100	70	130
Methyl tert-butyl ether(MTBE)	10		10.08	101	70	130
Methyl Ethyl Ketone	10		9.933	99	70	130
Cis-1,2-Dichloroethene	10		10.35	104	70	130
Hexane	10		9.395	94	70	130
Chloroform	10		10.24	102	70	130
Ethyl acetate	10		10.55	106	70	130
Tetrahydrofuran	10		9.250	93	70	130
1,2-Dichloroethane	10		11.55	116	70	130
1,1,1-Trichloroethane	10		11.05	111	70	130
Benzene	10		9.379	94	70	130
Carbon Tetrachloride	10		11.37	114	70	130
Cyclohexane	10		10.15	102	70	130
1,2-dichloropropane	10		8.991	90	70	130
Bromodichloromethane	10		10.62	106	70	130
Trichloroethene	10		10.30	103	70	130
1,4-Dioxane	10		7.987	80	70	130
Heptane	10		10.06	101	70	130
cis-1,3-Dichloropropene	10		10.32	103	70	130
4-Methyl-2-pentanone(MIBK)	10		9.500	95	70	130
trans-1,3-Dichloropropene	10		11.36	114	70	130
1,1,2-Trichloroethane	10		9.448	94	70	130
Toluene	10		9.907	99	70	130
Dibromochloromethane	10		10.69	107	70	130
2-Hexanone(MBK)	10		9.059	91	70	130
1,2-Dibromoethane(EDB)	10		9.853	99	70	130

FORM III AIR

**DATA USABILITY SUMMARY REPORT
FOR MARCH 2022 AIR SAMPLING
CINDERELLA 248, LLC SITE,
248 FLATBUSH AVENUE, BROOKLYN, NY
SAMPLE DELIVERY GROUP # GCK90290**

This DUSR was prepared using the entire original laboratory report, including the sample data summary report and the extended data package. The sampling event included four indoor air sample (IA-1 through IA-4), seven sub-slab soil vapor (VP-1 through VP- 5, VP-7 and VP-8) and one outdoor air sample (Ambient). The duplicate sampling for QA/QC purposes was conducted on primary sample IA-1.

Sample Collection Procedures

The samples were collected in laboratory-provided batch-certified Summa canisters equipped with laboratory calibrated flow controllers. Collection of each sample was performed over an approximate six-hour period. Each of the flow controllers for the primary samples was closed when the vacuum in the canister was nearly depleted but some vacuum remained. Chain-of-custody documentation was present and complete.

Sample Analyses

The samples were transported to the laboratory and analyzed by Phoenix Environmental Laboratories, Inc. at their Manchester, Connecticut facility, which is NYSDOH-certified for the analyses performed. The samples were analyzed for volatile organic compounds (VOCs) using Method TO-15, with low-level analyses for the indoor and ambient air samples. The analytical methods and analytes are appropriate for the intended use of the data. The sample holding times were met and no problems with sample receipt or handling were reported by the laboratory. The samples were logged in by the lab based on the sample IDs on the tags and the correct can numbers printed on the canisters themselves were used.

Surrogate recoveries were complete and within limits. Internal standards were also noted to be complete and within limits.

Duplicate samples were collected and utilized to evaluate the precision of the laboratory analyses. The results from the duplicate sample (IA-I) and the associated parent sample (IA-IA), were generally similar with the exception of ethanol and isopropyl alcohol, which were noted to be somewhat different and likely related to ongoing COVID cleaning practices at the sampling site. Based on the blind duplicate sample results, the laboratory results are likely to be reasonably precise for the contaminants of concern.

Duplicate samples analysis were also performed by the laboratory and utilized to evaluate the precision of the laboratory analyses. The results from the laboratory duplicate sample and the associated parent sample are very similar. Based on the laboratory's duplicate sample results, the laboratory results are likely to be precise.

A method blank (MB) sample was analyzed by the laboratory to evaluate the potential for cross-contamination associated with the sample preparation and analysis. The MB results did not show detectable concentrations of VOCs and, therefore, cross-contamination associated with sample preparation or analysis does not appear to affect the sample data.

Air canister cleanings logs are maintained by the laboratory to evaluate the potential for cross-contamination associated with the sample containers. The air canister cleanings logs show that cleaning measures are taken to prevent cross-contamination associated with sample containers.

A Laboratory control sample (LCS) was used by the laboratory to verify the accuracy and precision of the analyses. The LCS percent recoveries (%REC) were within established guidelines, with the exception of 1,2,4-trichlorobenzene which was above recovery criteria. Based on the absence of 1,2,4-trichlorobenzene in the primary samples and that this compound is not a contaminant of concern for the Site, the analytical results for the VOCs of concern are anticipated to be precise and accurate.

Questions and Responses

1. Is the data package complete as defined under the current requirements for the NYSDEC ASP Category B or USEPA CLP deliverables?

The data package is complete. The external and internal chain of custody forms are present and complete. The case narrative and sample analysis summaries are present and complete. The analytical QA/QC summary forms, including surrogate recovery forms, LCS forms, IDL forms, initial and continuing calibration summary forms, standards raw data, tuning criteria report, and MB data are all present and complete. The data report forms, including sample prep logs, injection logs, canister cleaning logs, and examples of the calculations used to determine the sample concentrations are all present and complete. The raw data used to identify and quantify the contract-specified analytes are present and complete.

Data completeness for the field program was also verified. The numbers and types of samples collected are in agreement with the work plan.

2. Have all holding times been met?

All samples were received and analyzed within the EPA-recommended holding times for the analyses performed.

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data, fall within the protocol-required limits and specifications?

QC data was noted to be outside for one compound which is not a COC for the site as noted above. All other were within the protocol required limits and specifications.

4. Have all of the data been generated using established and agreed-upon analytical protocols?

Yes – all of the data were generated using the Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms?

Yes – a representative number of raw data results were compared with the reported data results to confirm that the reported analytical results (identification and quantification) are substantiated by the raw data.

6. Have the correct data qualifiers been used?

Yes, E-qualified data qualifiers were used when an estimated value was quantified above calibration range. No other qualifiers were utilized in the data package.

7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheets from the data package been attached to the DUSR?

Yes, QC exceedances have been reported in the data packages and the appropriate QC summary sheets have been attached.

Conclusions

The indoor/outdoor air and sub-slab soil vapor samples were collected in accordance with NYSDOH guidance. No field or laboratory conditions occurred that would result in non-valid analytical data for the VOCs of concern at this site. The data appear to be adequate for their intended purpose.

S:\Rigano LLC\Cinderella 248 LLC\SVI Sampling 2022\SVI DUSR March 2022.Docx



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NY ANALYTICAL SERVICES PROTOCOL DATA PACKAGE

FPM Group
CINDERELLA

GCK90290

Ver 1



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QA/QC Report

April 29, 2022

QA/QC Data

SDG I.D.: GCK90290

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 616494 (ppbv), QC Sample No: CK90281 (CK90290, CK90291, CK90292 (1X, 5X), CK90293, CK90294, CK90295, CK90296, CK90297, CK90298, CK90299, CK90300, CK90301, CK90302)

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	101	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	96	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	99	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	97	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	100	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	148	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	114	1.39	1.34	0.283	0.272	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	109	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	101	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	99	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	103	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	108	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	103	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	108	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	125	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	95	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	113	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	113	1.64	1.57	0.333	0.320	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	111	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	110	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	97	116 E	116	48.8 E	48.7	0.2	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	99	ND	ND	ND	ND	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	108	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	97	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	103	0.46	0.47	0.073	0.074	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	103	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	97	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	99	1.19	1.11	0.579	0.539	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	102	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	96	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	102	2.26	2.23	0.457	0.451	NC	70 - 130	25



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SDG: GCK90290

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: CINDERELLA, FPM Group

Form 1 (Analysis):

No observations noted.

Form 2 (Surrogates):

All surrogates met criteria with the following exceptions: None.

Form 3 (Laboratory Control/Matrix Spike):

Sample: CK90281 LCS
All LCS recoveries met criteria with the following exceptions: 1,2,4-Trichlorobenzene 156%

Form 4 (Method Blank):

File: CHEM20 0319_04.D
All compounds were non-detect with the following exceptions: None.

Form 5 (Tune):

File: CHEM20 0317_02.D
All Tune criteria was met with the following exceptions: None.

File: CHEM20 0319_01.D

All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

Calibration: CHEM20 03/17/22 - 03/18/22
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Form 7 (Continuing Calibration):

File: CHEM20 0319_01.D (Opening)
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: 1,2,4-Trichlorobenzene(sim) 23.0% (20)

Form 8 (Internal Standard and Retention Time):

File: CHEM20 - 20_AIR_0317.M / 0319_01.D Full
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_0317.M / 0319_01.D Sim

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_0317.M / Average Full

All samples met internal standard area and retention time criteria with the following exceptions: None.

